60001343

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-113
AUTHOR	C. Ballew; R Vance
DATE OF DOC(S)	1990; 1997; 1999
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Chance Target Lac Minerals (USA), Inc; Newmont Gold Co. Eklund Drilling; Newmont Exploration Ltd Rosebud Mining Co, LLC
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 800' handwritten notes; receipt; geochemistry 29p

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

	Initials	Date
SS:	DD	5/19/08
DB:	[illegible]	
SCANNED:		

Revised: 1/22/08

RL-113

60661343 4010

6000343

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud / Chance Target

HOLE NUMBER RL-113 TOTAL DEPTH 800' LOGGED BY KNT

NOTE on check assays - higher detection limit ≤0.005

Date started 9-12-90 2:30pm

Date completed 9.19.90 11am

Initial bearing S10°W

Initial inclination -45°

Elevation

Collar coordinates:

N

E

From Baseline 400S, 00EW N45E, 57'

Contractor: EKlund

Drill Type: Drill Systems MPD-1000

Hole Size: Hammer 4 3/4" Tricone 4 3/4"

Drilling Conditions:

Footage: Wet / Dry Dry to 165', clay problems; Inj. @ 165'; H_2O table ± 320'

Comments: Generally good recovery. to 500, went to Tricone @ 520'

T.D. = 800' mud + cement

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	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-113

Page 1 of 8

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
									mixed Brwn, wht red					0-67' Overburden gravels mixed gravels, dominant; wht, blc, silicified fine Grnd Tuff + wht, silicified, lithic lapilli tuff	.003	<		
05																		
10															.001			
15															.001			
20															.002			
25															.002			
30															.004			
35															<			
40															.061			
45														20% primary clay Basal Clay	.001			
50														30% clay	<			
55														50% clay	.002			
60														<5% clay	.001			
65														20% clay	.001			
70		xx							wht + brown					67-85 wht, stgly silicified, FGT?	.004			50
75		xx							wht - flesh, lt pink						.008			50
80		xx							"						.006			60
85		xx							"						.006			50
90		~xx~												85-195 Same as above Overall mod clay altered	.003			30
95		~xx~													.003			40
100		~xx~													.003			30
														@ 100' 3:40 PM				

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

DRILL HOLE RL-113

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

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
105									wht–flesh					+90% clay wht, blc to intense clay altered	.003	L		5
110									"					fine grain tuff +wk-mod hematite as sly clay	.002			10
115									"					limonite sly clay overall, wk silicified	.003			20
120									"						.003			20
125									"						.003			30
130									"						.008			5
135									wht, wk brown						.003			10
140									"						.001			20
145									"						L			10
150									wht–reddish brown						.002			15
155									"						.003			30
160									"						.002			40
165									"						.001			40
170									"					Started Injecting H_2O at 165' 4:30pm	.001			
175									"						.003			
180									"						.005			
185									"						.004			
190									wht, wk brown wk red						.004			
195									"						.004			
200									sly brown + gry				+5%	Oxidized / Reduced Redox Boundary 195–330 IP Response gry, FGT 1st visible pyrite	.002			
														200' @ 4:45				

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
XX SILICIFICATION
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XC CHALCEDONIC QUARTZ
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Ca CALCITE

DRILL HOLE RL-113

LOGGED BY KNT

	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 gry				+5%	195-330				
205														lt gry, silica flooded, pyritic FGT?	.002	<		
210														abundant sulfides, vfg diss	.002			
215														to local pyritic vns @ 210 5PM End of Shift	.006			
220														Start 7AM	.003			
225															.003			
230															.004			
235															.003			
240															.004			
245															.002			
250															.003			
255															.003			
260															.003	.1		
265															.003	<		
270															.005			
275														20% clay	.006			
280															.006			
285														Darker matrix FGT	.005			
290														5% clay	.004			
295															.005			
300															.003			
														300' @ 8AM				

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

Fault Zone

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

DRILL HOLE RL-113

Page 4 of 8

LOGGED BY KWT

	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	% WASH RECOV
305									ltgry				+3%		.005	.27		
310															.005	.16		
315															.004	<		
320														▽ H_2O @ 320'	.004	<		
325															.006	<	.008	
330															.018	<	.015	
335														330 - Wildrose pyroclastic? Fault Zone 330-345 Clasts 2-4mm ltgry, coarse lapilli tuff (2-4mm) (1% Eq. diss pyrite ± 3%) silica flooded, pyritic.	.029	.14	.028	
340															.028	<	.033	
345															.014	.17	.012	
350															.011	.12	.009	
355															.008	.12	.006	
360														+2% contamination (brown, oxidized lithic gravel)	.007	.14	.006	
365														+10% clay	.005	<	.006	
370														+5% grn clay	.004	.21	<	
375														local fault; local wk fine grain stibnite?	.006	.10	<	
380															.007	.13	<	
385															.003	<	<	
390															.003	.18	<	
395														Fault zone	.008	<	.01	
400															.022	<	.026	

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
PPP PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-113

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
405	V V	XK XX							GREY				2-3%	Abundant fractures, vugs, cavities? (400-500)	.013	<	.013	
410	V V	XK XX													.008	<	.010	
415	V V	XK XX													.008	.12	.007	
420	V V V	XX													.019	.11	.018	
425	V V V	XX												@ 420' add Bentonite to outside of steel — contamination continued! looks good!	.010	.12	.012	
430	V V V	XX													.023	<	.024	
435	V V V	XX													.013	<	.011	
440	V V V	XX												Reduced	.009	<	<	
445	V V	XX OX							mixed brown + grey					Oxidized 440-545 up to 75% brown, limonitic overall, mod-str Lim Local Silicification	.009	<	.008	
450	V V														.011	<	.008	
455	V V V														.007	.17	.018	
460	V V V														.021	<	.023	
465	V V														.011	<	.011	
470	V V V														.013	<	<	
475	V V V														.008	.11	.008	
480	V V														.011	.12	.010	
485	V V														.015	<	.005	
490	V V														.014	.10	.014	
495	V V														.023	<	.022	
500	V V V	V													.018	<	.018	

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-112

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	% WASH RECOV.
505	V V V	OX XX XK							BROWN + GREY				+3%	OCCASIONAL PYRITE VEINS, ABUNDANT VERY FINE DISSEM. SULFIDES	.015	<	.013	
510	V V V	XX XK													.012	.12	.012	
515	V V V														.026	.15	.022	
520	V V V														.038	<	.038	
525	V V V														.023	.18	.023	
530	V V V														.027	.12	.026	
535	V V V														.047	<	.043	
540	V V V														.073	<	.061	
545	V V V	↓ ↓							↓				↓	OX	.220	.2	.220	.209
550	L L L	XK							GREY				3-4%	RED.	.140	<	.128	
555	L L L													1-3% CONTAMINATION FROM OX ZONE SILICIFIED & FINE TO VERY FINE DISSEM. SULFIDES	.053	<	.046	
560	L L L														.046	.13	.046	
565	L L L														.056	<	.047	
570	L L L														.039	<	.034	
575	L L L														.036		.038	
580	L L L														.052		.05	.051
585	L L L														.038		.040	
590	L L L														.033		.032	
595	L L L	XX													.049		.050	
600	L L L	↓							↓				↓	↓	.025	↓	.022	

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-11E

Page 7 of 8

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	% WASH RECOV.
		XX							GREY				3-4%	1% CONTAMINATION	.059	<	.051	
05																		
10															.023	<	.023	
15															.060	<	.054	.048
20															.014	.16	.013	
25															.031	<	.027	
30															.030	.1	.021	
35															.044	<	.039	
40															.011		.009	
45															.032		.032	
50														CHIPS HAVE DISTINCT FLAMINAR TEXTURE - SQUASHED PUMICE?	.022		.018	
55														WELDING ? FINE QSTKWK ≤ FINE - VERY FINE DIS.	.037		.027	
60														SULFIDES ('ROSEBUD PYROCLASTIC OF FLOW BANDED OR WELDED	.020		.016	
65														TUFF?) TO 800'	.026		.022	
70															.022		.021	
75															.019		.017	
80															.003		<	
85															.015		.014	
90															.012		.012	
95															.011		.009	
700															.003		.017	

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-115

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	% WASH RECOV.
		XK XX							GREY					<1%				
705															.007	<	.011	
710															.005	<	.007	
715															.012	<	.013	
720															.002	<	<	
725															.014	<	.009	
730															.003		<	
735															.023		.020	
740															.006		<	
745															.015		.014	
750															.012		.009	
755															.031		.022	
760															.002		<	
765															.004		.008	
770															.013		<	
775															<		.016	
780															<		<	
785															<		<	
790															.052		<	
795															.055		.048	.04
800															.002		<	

Relog 1

Newmont Gold Rotary Form

Hole# RL 113
Logged by PJB
Date 6-23-99
Area Chance (Rosebud)
Coords
Az/Incl S10W / -45°
Total Depth 800'
Contractor Eklund

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
											Qal / Qc Rhy													
70																								
100																								
30																								
45																								
65			Beige + Purple								weak. altn. FeOx is Hem. min, Lim units/stn.			1				2						
200			Beige + yellow								Same as above but reduced.			1							1			
20											more py. pervasive veinlets.	2		1							2			
45	Tmr / Vit?		Beige + Grey								SiO2 w/ dissem. py - veinlets and perv. veinlets. More variation	2		1							2			
300											Fine grnd. massive host.													
60																								
400	Tbr		Grey								Large chips - 390-405 SiO2 micro bx, veining + flooding. Some py veinlets mixed w/ SiO2 + clay. Minor white clay veinlets. (425-430) Py. Flooding. Some Flow Banding evident.	2		2							3			
		45	Beige + Grey								Still fairly large chips, just mod. oxidized. SiO2 flooding, micro bx. Py w/ SiO2 Minor white clay veinlets. FeOx is Lim	2		2				2			3			
500		90					1				SiO2 more stockwork veinlet, little flooding. Py assoc. w/ SiO2 Sm. Fault @ 505-510	2		2				2			2			
		12	Grey								SiO2 still as veinlets but also as flooding, w/ py.	2		2				2			2			
		40									Intense SiO2, darker py. SiO2 more veinlet w/ flooding.	3		1				1			2			
		55	Tan								Leaving zone, Qtz as clear/Lt grey micro bx + stkwk w/ some pyritic vnlts. Sandy Intvl. @ 585-590 Rk has sheared Txt.	2		1				1			1			
600		85	Beige + Tan				1				Contamination? - 1-3% pyritic qtz vns. Rk is actually vfg, massive to locally banded, no phenos. Mod. Bleached. Locally siliceous.	1		2				1						
		35	olive +/-								Weakly altd. Sparse veining. Flow banding + massive.	1		1				1						
		75	Tan Grey								Rk is bleached; Flow banded.			1										
700		10	red-grey								Wk. altn. Lim + Hem 'spots'. 755-760 + 790-795 - py-2, SiO2-1, FeOx-2, clay-1.			Trc				1						
800																								

Reduced

Tmr = massive rhyolite
Tbr = banded rhyolite

ROSEBUD MINING COMPANY, LLC.

HOLE # RL-113	FINISH HOLE 9-19-90	T.D 800'	SURVEYED TO N/A
LOGGED BY RSB (Reloj)	ANGLE -45		
START HOLE 9-12-90	HOLE TYPE RC	BEARING S 10 W	PAGE 1 OF

COLLAR COORDINATES

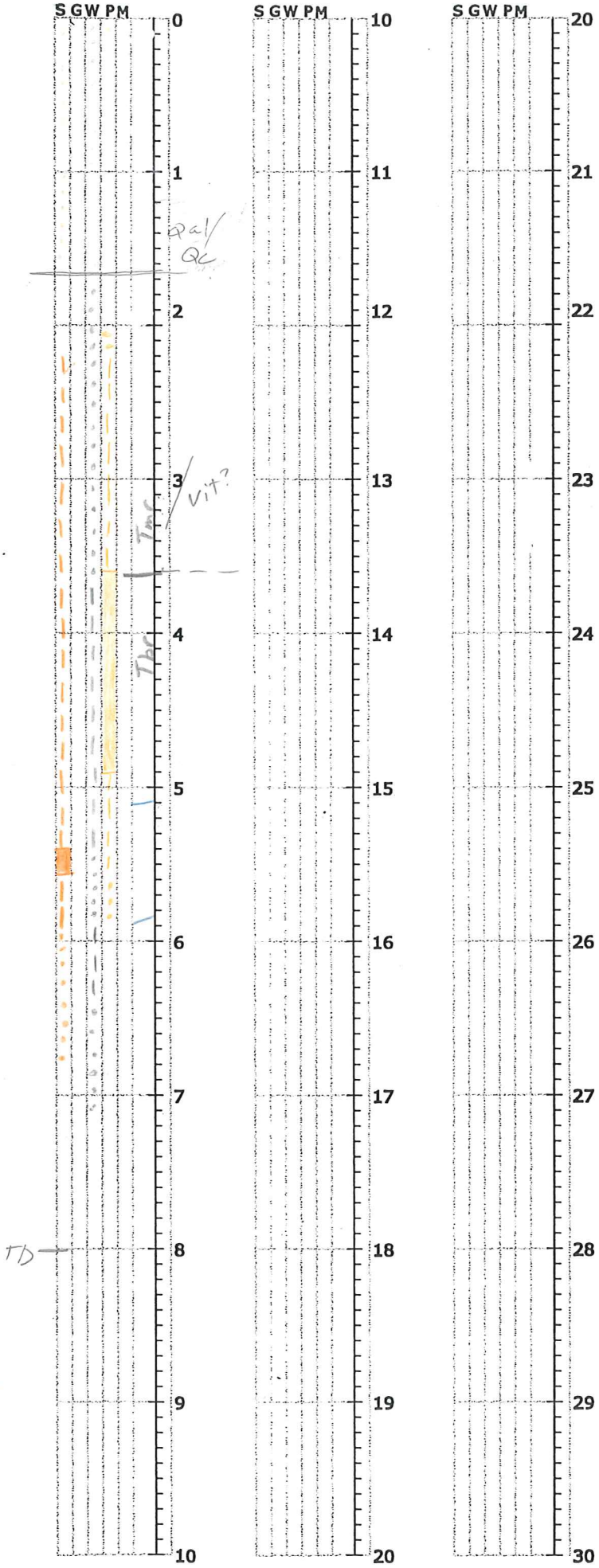
NORTH

EAST

ELEV

DRILLING CO. Ekland

DRILLER



ALTERATION INTENSITY

1 WEAK | 2 MODERATE | 3 STRONG

VERITHIN COLOR

737	SILICIFICATION
751	GREEN CLAY
747½	WHITE CLAY
755	PYRITE
757	MARCASITE

GRAPHIC LOG

VERITHIN COLOR

	BRECCIA
741	FAULT 741
	CONTACT
737	QUARTZ VEIN
741½	CALCITE VEIN
747½	CLAY VEIN
755	PYRITE VEIN

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Co

Address:

City Winnemucca State Zip

Telephone Number: (775) 625-5613 R. Vance Fax Number: ( )

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 5/27/99 Number of Samples: 63

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RL-153: 0-300', composited every 20':	Pulps	ICP AAL 1/2 + Se
0-20, 20-40, 40-60, etc., 280-300'		
except 435-600', composited every 20':		ICP AAL 1/2 + Se
435-460' 460-480, etc., 580-600'.		
RL-113: 0-800', composited every 20'	Pulps	ICP AAL 1/2 + Se
0-20, 20-40, 40-60, etc., 780-800'		

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[X] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Ballew

Results to:

Randy Vance

Comments:

CLIENT FILE COPY

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL	Page 1/3	HOLE#:
LOGD BY: HSM 03/06/97	COUNTY: Pershing	EASTING:	BEARING:		DRB RL113
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE:		

DRILLING NOTES			STRATIGRAPHY/LITHOLOGY																	STRCT			ALTERATION & MINERALIZATION												COMMENTS		
TIME	Dates H2O Casing Bits Hole C	COLOR (WET)	ALLUVM	BADGER	HOCOLT	BUD	BRADY	MKRPOR	LBUD	DOZER	WILDROS	SURGTUF	ASHFLO	LAVA	AUTOBXA	INTRUSV	BASALT	ANDESIT	RHYOLIT	ROCK EN	GOUGE	GRAPHIC	OXD'TN MANGAN	HEMAT	LIMON	PYRITE	GRAPHIC	UNALTRD	PROPYLT	ARG	RPLSIL	STKWKS	VEINS	CALCITE		GRAPHIC	Sample Recovery Composite Geochem Intervals	SAMPLE No
DEPTH in FEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20		21	22	23	24	25	26	27							
10																																					5
20																																					10
30																																					15
40																																					20
50																																					25
60																																					30
70																																					35
80																																					40
90																																					45
100																																					50
110																																					55
120																																					60
130																																					65
140																																					70
150																																					75
160																																					80
170																																					85
180																																					90
190																																					95
200																																					100
210																																					105
220																																					110
230																																					115
240																																					120
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																																					235
																																					240
																																					245
																																					250

RL113001
95-100': WHT-GRY & GOUGY, MOD. TO WK KAOL.

RL113002
175-180: PINKISH WHT BLEACHED, PROBABLE FLOW (NON TUFFACEOUS). MODERATE KAOLINITE SIGNAL.

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL: Page 2/3
LOGD BY: HSM 03/07/97	COUNTY: Pershing	EASTING:	BEARING:
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE:

HOLE#: DRB RL113

DRILLING NOTES: TIME | Dates: H2O Casing Bits Hole C

DEPTH in FEET

COLOR (WET)

STRATIGRAPHY/LITHOLOGY — STRCT

ALLUVM	BADGER	CHOCOLT	UBUD	BRADY	MKR POR	LBUD	DOZER	WILDROS	SURGTUF	ASHOFLO	LAVA00	AUTOBXA	INTRUSV	BASALT	ANDESIT	RHYOLIT	BROKEN	GOUGE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	12	13	14	15	16

GRAPHIC

ALTERATION & MINERALIZATION — OXD'T'N

MANGAN	HEMAT	LIMON	PYRITE
17	18	19	20

GRAPHIC

UNALTRD	PROPYLT	ARG	RPL SIL	STKWKS	VEINS	CALCITE
21	22	22	23	24	25	26

GRAPHIC

COMMENTS — Sample Recovery — Composite Geochem Intervals

SAMPLE No

RL113003:
270-275': FRIABLE, YELLOW-GRY GOUGE, PROBABLY FROM A STRUCTURAL ZONE. MOD. TO WK KAOLINITE.

RL113004:
390-395': BLCH'D PALE GRY SILICEOUS & PROBABLY FRAGMENTAL/TUFFACEOUS PROTOLITH. MODERATE KAOLINITE.

RL113005:
490-495: AS ABOVE BUT ONLY PARTIALLY REDUCED. SILICEOUS & PALE GRY WHERE LmOx STAINING IS ABSENT. WK TO MOD. KAOLINITE

Filename: drbLOG.xls

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL 800'	Page 3/4	HOLE#:
LOGD BY: HSM 03/07/97	COUNTY: Pershing	EASTING:	BEARING:		DRB RL113
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE:		

DRILLING NOTES: TIME | Dates, H2O, Casing, Bits, Hole C

DEPTH in FEET

COLOR (WET)

STRATIGRAPHY/LITHOLOGY

1	2	3	4	5	6	7	8	9	10	11	12	13	11	12	13	14
ALLUVMO	BADGER	CHOCOLT	UBUD	BRADY	MKR POR	LBUD	DOZER	WILDROS	SURGTUF	ASHOFLO	LAVAOO	AUTOBXA	INTRUSV	BASALT	ANDESIT	RHYOLIT

STRCT: BROKEN (15), GOUGE (16) — GRAPHIC

ALTERATION & MINERALIZATION

17	18	19	20		21	22	22	23	24	25	26	27	
OXD'T'N GANGAN	HEMAT	LIMON	PYRITE	GRAPHIC	UNALTRD	PROPYLT	ARG	RPL SIL	STKWKS	VEINS	CALCITE		GRAPHIC

COMMENTS

Sample Recovery

Composite Geochem Intervals

SAMPLE No

WILDROSE

RL113006:
595-600': LT. GRAY HARD FRAGMENTAL TUFF VOLCANOCLASTIC BXA. WK MONTMORILLONITE SIGNAL. PEAKS HAVE DISTINCTIVE LOW λ SHOULDERS. FRAGMENTS & MATRIX MAY HAVE A WILDROSE AFFINITY.

RL113007: LT. GRY FINELY FLOW BANDED WILDROSE. WK MONTMORILLONITE SIGNAL. @ 705-710'.

PROJECT: ROSEBUD | STATE: Nevada | NORTHING: | TOTAL 800' | Page 4/4 | HOLE#:
LOGD BY: HSM 03/07/97 | COUNTY: Pershing | EASTING: | BEARING: | DRB RL113
UTM#: NK 11-10-06 | SEC. T. N., R. | ELEVATION: | ANGLE:

DRILLING NOTES

TIME | Dates, H20, Casing, Bits, Hole Co

DEPTH in FEET

760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

COLOR (WET)

STRATIGRAPHY/LITHOLOGY

ALLUVM	BADGER	CHOCOLT	UBUD	BRADY	MKRPOR	LBUD	DOZER	WILDROS	SURGTUF	ASHFLO	LAVA00	AUTOBXA	INTRUSV	BASALT	ANDESIT	RHYOLIT	BROKEN	GOUGE	GRAPHIC
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

STRCT

ALTERATION & MINERALIZATION

OXD'TN: GANGAN | HEMAT | LIMON | PYRITE

GRAPHIC	UNALTRD	PROPYLT	ARG	RPLSIL	STKWKS	VEINS	CALCITE		GRAPHIC
	21	22	23	24	25	26	27		

COMMENTS

Sample Recovery

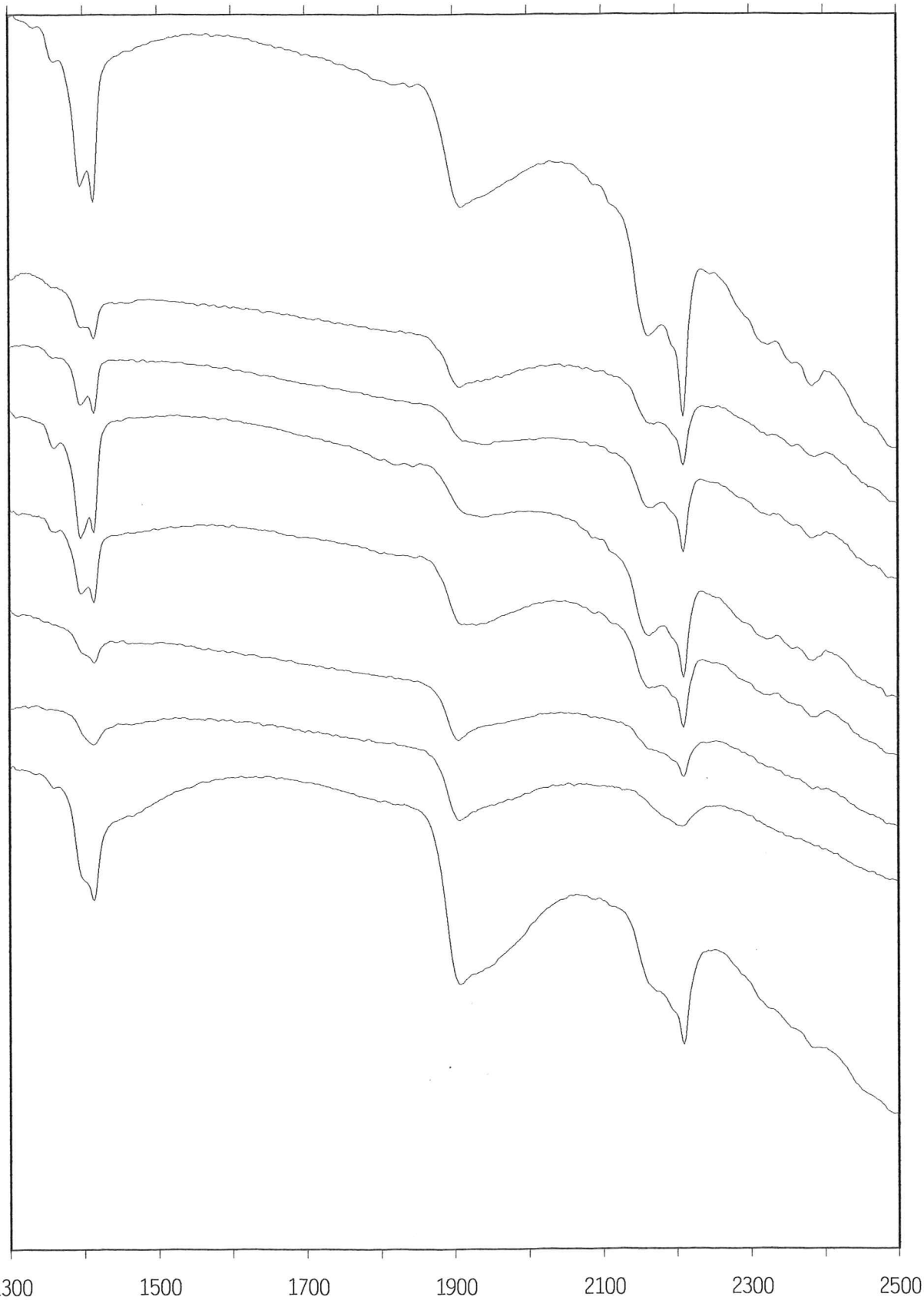
Composite Geochem Intervals

RL113008:
795-800': LT GRY FRAGMENTAL TUFF/ VOLCANICLASTIC WITH WILDROSE AFFINITIES MOD TO STR MONTMORILLONITE

SAMPLE No

755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995 1000

PIMAVIEW (C)93 Chance RL-113 INTEGRATED SPECTRONICS



Comment: Plot ratio: 10000, offset 400
STACK.OUT

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: (775) 828-1158

I N V O I C E

CHARLOTTE BALLEW
NEWMONT GOLD CO.
861 W. 6TH STREET
WINNEMUCCA NV 89445

Date : **11-Oct-99**

Job : **993351R**

Invoice: **41033R**

Authority: Randy Vance PO #:
Project: RL-113 Terms:

15 No Charge - Comparison Analyses

Sub Total:		$ 0.00
Discount:	-30.00	$ 0.00
TOTAL DUE:		$ 0.00

Remit to: Barringer Laboratories, Inc.
Department 0297
Denver, CO 80291-0297

--- Remittance Copy ---

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11-Oct-99

CHARLOTTE BALLEW
NEWMONT GOLD CO.
861 W. 6TH STREET
WINNEMUCCA NV 89445

Attn: Randy Vance
Project: RL-113

Received: 26-Aug-99 09:37
PO #:

Job: 993351R

Status: Final

Pulp

Sample Id	Ag ICP ppm	Al ICP %	As ICP ppm	B ICP ppm	Ba ICP ppm	Bi ICP ppm	Ca ICP %	Cd ICP ppm	Co ICP ppm	Cr ICP ppm	Cu ICP ppm
RL-113 160-180	<0.1	1.83	<2	37	83	5	0.05	0.8	<1	11	5
RL-113 440-460	<0.1	1.87	15	55	23	4	0.02	1.8	<1	32	4
RL-113 500-520	<0.1	1.95	55	66	246	4	0.04	2.7	<1	21	5
RL-113 520-540	0.3	1.78	32	20	67	1	0.02	0.7	<1	32	5
RL-113 540-560	0.4	1.79	91	26	24	2	0.04	1.0	1	34	17
RL-113 660-680	0.3	1.68	25	17	42	<1	0.82	0.5	<1	45	6
RL-113 740-760	0.1	1.67	14	18	23	1	0.72	0.5	<1	29	7
RL-153 0-20	<0.1	1.80	12	27	79	1	0.47	0.6	<1	7	9
RL-153 435-460	<0.1	1.66	22	29	170	5	0.05	0.9	<1	22	6
RL-153 460-480	0.4	1.69	65	25	50	4	0.04	0.9	1	50	8
RL-153 480-500	0.2	1.82	44	23	41	1	0.11	1.0	2	34	9
RL-153 500-520	0.2	1.73	56	22	43	<1	0.16	0.7	<1	29	25
RL-153 520-540	0.2	1.72	18	18	82	2	0.54	0.5	<1	23	8
RL-153 580-600	0.2	1.67	13	17	38	<1	0.57	0.5	<1	22	10
RL-153 800-820	<0.1	2.33	582	36	825	5	1.30	1.7	12	103	144

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PO #:

Job: 993351R

Status: Final

Pulp

Sample Id	Fe ICP %	Hg HYG ppb	K ICP %	La ICP ppm	Mg ICP %	Mn ICP ppm	Mo ICP ppm	Na ICP %	Ni ICP ppm	P ICP ppm	Pb ICP ppm
RL-113 160-180	2.95	415	0.13	5	0.02	11	3	<0.01	1	115	23
RL-113 440-460	5.17	3908	0.03	5	<0.01	158	12	<0.01	2	315	48
RL-113 500-520	6.13	22594	0.05	5	0.01	553	12	<0.01	2	421	54
RL-113 520-540	1.53	10320	0.06	5	<0.01	312	7	<0.01	3	70	26
RL-113 540-560	2.06	33891	0.13	9	0.01	147	6	<0.01	6	73	77
RL-113 660-680	1.26	4885	0.27	10	0.03	333	6	<0.01	4	20	27
RL-113 740-760	1.42	3969	0.30	14	0.03	359	6	<0.01	4	16	26
RL-153 0-20	2.11	1985	0.19	14	0.04	17	1	0.04	1	142	23
RL-153 435-460	2.51	5160	0.06	6	0.01	164	5	<0.01	1	106	29
RL-153 460-480	2.04	25952	0.11	7	0.01	246	7	<0.01	4	64	93
RL-153 480-500	1.90	20609	0.26	12	0.04	403	5	<0.01	8	92	73
RL-153 500-520	1.65	9709	0.27	12	0.04	530	6	<0.01	3	31	42
RL-153 520-540	1.40	5221	0.32	12	0.04	433	4	<0.01	3	24	40
RL-153 580-600	1.27	2656	0.33	14	0.03	404	4	<0.01	2	11	32
RL-153 800-820	3.15	946	0.30	4	0.04	11	13	<0.01	72	4516	339

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Received: 26-Aug-99 09:37
PO #:

Job: 993351R

Status: Final

Pulp

Sample Id	Sb ICP ppm	Se ICP ppm	Sr ICP ppm	Ti ICP %	Tl ICP ppm	V ICP ppm	W ICP ppm	Zn ICP ppm
RL-113 160-180	12	<2	16	<0.01	<0.5	<2	<1	41
RL-113 440-460	54	<2	5	<0.01	<0.5	<2	<1	139
RL-113 500-520	61	74	14	<0.01	<0.5	<2	<1	170
RL-113 520-540	16	10	8	<0.01	<0.5	<2	<1	64
RL-113 540-560	75	54	5	<0.01	<0.5	2	<1	109
RL-113 660-680	12	5	42	<0.01	<0.5	<2	<1	107
RL-113 740-760	11	5	55	<0.01	<0.5	<2	<1	77
RL-153 0-20	8	2	81	<0.01	<0.5	8	<1	17
RL-153 435-460	19	5	11	<0.01	<0.5	<2	<1	86
RL-153 460-480	44	41	7	<0.01	<0.5	<2	<1	99
RL-153 480-500	29	26	7	<0.01	<0.5	5	<1	96
RL-153 500-520	17	10	9	<0.01	<0.5	2	<1	107
RL-153 520-540	10	3	24	<0.01	<0.5	2	<1	83
RL-153 580-600	5	<2	29	<0.01	<0.5	<2	<1	76
RL-153 800-820	561	<2	305	0.01	<0.5	472	<1	181

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Attn: Randy Vance
Project: RL-113

Received: 26-Aug-99 09:37
PO #:

Job: 993351R

Status: Final

Abbreviations:

Parameters:

Ag	: Silver
Al	: Aluminum
As	: Arsenic
B	: Boron
Ba	: Barium
Bi	: Bismuth
Ca	: Calcium
Cd	: Cadmium
Co	: Cobalt
Cr	: Chromium
Cu	: Copper
Fe	: Iron
Hg	: Mercury
K	: Potassium
La	: Lanthanum
Mg	: Magnesium
Mn	: Manganese
Mo	: Molybdenum
Na	: Sodium
Ni	: Nickel
P	: Phosporus
Pb	: Lead
Sb	: Antimony

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Received: 26-Aug-99 09:37
PO #:

Job: 993351R

Status: Final

Se	: Selenium
Sr	: Strontium
Ti	: Titanium
Tl	: Thallium
V	: Vanadium
W	: Tungsten
Zn	: Zinc

Methods:

ICP	: Inductively Coupled Plasma
HYG	: Hydride Generation

Units:

ppm	: Parts per million
%	: percent
ppb	: Parts per billion

Quality codes:

<	: Less than

BARRINGER LABORATORIES INC.

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Attn: Randy Vance
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Received: 26-Aug-99 09:37
PO #:

Job: 993351R

Status: Final

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

Job approved by:

Signed: Richard A. Grondin
.....
Rich Grondin

cc: RANDY VANCE, NEWMONT MINING CORP.

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	3	0.01	0.2	1	1	1	0.01	10	0.01	1	0.01	2	1	0.01	1	0.001	3	3	0.1	1	2	0.01	8	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP053606
METHOD:	AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 356-0606
FAX: (775) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RL-113 000-020	< .3	1.65	8	11	311	< 3	0.5	1.1	5	37	12	2.37	402	0.29	25	0.29	535	5	0.17	7	0.042	31	10	1.7	65	8	0.04	< 8	25	< 2	106
RL-113 020-040	< .3	1.66	8	5	286	< 3	0.34	0.3	6	27	15	2.75	477	0.29	24	0.24	734	4	0.1	7	0.043	17	15	1.5	61	8	0.04	< 8	27	< 2	97
RL-113 040-060	< .3	2.06	11	8	340	< 3	0.4	0.4	8	21	27	3.26	760	0.35	23	0.4	666	5	0.06	13	0.039	159	15	1.4	84	7	0.05	< 8	36	< 2	177
RL-113 060-080	< .3	1.17	14	4	578	< 3	0.16	< .2	4	31	9	2.95	1445	0.13	16	0.11	375	6	0.03	4	0.025	22	22	1.7	67	6	0.01	< 8	17	3	90
RL-113 080-100	< .3	1.39	5	< 3	148	< 3	0.1	0.2	1	33	11	2.65	3295	0.11	16	0.03	57	5	0.02	2	0.021	15	14	2.8	67	6	< .01	< 8	6	5	27
RL-113 100-120	< .3	1	3	< 3	141	< 3	0.17	< .2	2	17	4	2.23	2160	0.19	14	0.05	216	4	0.03	2	0.02	17	4	1.2	65	6	< .01	< 8	3	4	55
RL-113 120-140	< .3	1.13	2	< 3	121	< 3	0.16	< .2	5	7	6	1.85	1855	0.15	17	0.06	249	3	0.02	2	0.021	11	< 3	0.5	54	7	< .01	< 8	4	3	50
RL-113 140-160	< .3	1.18	2	< 3	219	< 3	0.15	< .2	1	11	6	2.93	1233	0.14	12	0.05	73	6	0.02	2	0.023	14	14	3.3	53	8	< .01	< 8	2	2	40
RL-113 160-180	< .3	1.11	7	5	134	< 3	0.09	0.2	1	15	6	3.04	875	0.12	12	0.03	55	5	0.04	2	0.019	31	16	4.7	34	8	< .01	< 8	2	2	47
RL-113 180-200	< .3	0.83	5	< 3	91	< 3	0.07	< .2	2	6	3	3.25	3447	0.1	9	0.02	49	5	0.04	1	0.013	22	8	3.6	26	8	< .01	< 8	1	3	37
RL-113 200-220	< .3	1.01	2	< 3	34	< 3	0.05	< .2	9	< 1	5	2.44	4447	0.11	10	0.02	101	2	0.04	1	0.006	23	< 3	0.9	28	6	< .01	< 8	1	3	48
RL-113 220-240	< .3	1.21	4	< 3	21	< 3	0.03	0.3	11	12	7	1.95	6629	0.05	7	0.01	112	2	0.02	2	0.005	14	8	2.3	15	5	< .01	< 8	1	2	26
RL-113 240-260	< .3	0.97	3	< 3	16	< 3	0.03	1.6	31	10	6	2.59	4329	0.03	5	0.01	49	3	0.02	6	0.006	15	10	1.8	15	4	< .01	< 8	1	2	102
RL-113 260-280	< .3	1.2	< 2	3	17	< 3	0.06	0.7	20	12	5	2.36	6132	0.07	8	0.01	102	3	0.03	2	0.006	17	5	1.5	24	5	< .01	< 8	1	5	48
RL-113 280-300	< .3	0.92	4	< 3	15	< 3	0.06	0.3	12	9	4	2.45	7241	0.06	9	0.01	120	4	0.03	2	0.008	16	7	2.4	44	5	< .01	< 8	1	3	78
RL-113 300-320	< .3	1.1	5	< 3	10	< 3	0.07	< .2	5	13	5	2.15	5555	0.05	10	0.01	68	6	0.02	1	0.015	18	6	2.1	43	6	< .01	< 8	1	< 2	78
RL-113 320-340	< .3	1.34	3	< 3	18	< 3	0.05	0.3	4	45	3	2.26	21637	0.02	10	0.01	155	7	0.01	2	0.019	41	22	5.6	61	4	< .01	< 8	2	< 2	162
RL-113 340-360	< .3	1.38	4	< 3	19	< 3	0.04	0.2	4	38	4	2.14	10390	0.03	11	0.01	109	4	0.01	2	0.016	22	15	3.1	67	5	< .01	< 8	1	2	143
RL-113 360-380	< .3	1.23	5	< 3	14	< 3	0.04	< .2	3	61	4	1.71	5971	0.04	10	0.01	72	6	0.02	3	0.006	23	7	1.5	22	5	< .01	< 8	1	2	93
RL-113 380-400	< .3	0.89	12	< 3	12	< 3	0.03	< .2	1	70	4	1.1	6393	0.05	11	0.01	93	10	0.01	6	0.003	21	16	5.5	8	5	< .01	< 8	2	< 2	104
RL-113 400-420	< .3	1.09	16	< 3	8	< 3	0.02	< .2	2	76	5	1.18	7223	0.02	12	0.01	75	12	0.01	5	0.002	24	22	8.7	6	5	< .01	< 8	2	< 2	89
RL-113 420-440	< .3	1	22	< 3	7	< 3	0.02	0.2	2	57	5	0.98	8824	0.02	11	0.01	71	7	0.01	4	0.002	28	20	12.3	5	5	< .01	< 8	2	< 2	106
RL-113 440-460	< .3	1.1	24	4	36	< 3	0.04	0.4	2	52	3	5.3	6969	0.02	11	0.01	338	17	0.01	4	0.053	66	78	11.3	10	5	< .01	< 8	1	25	165
RL-113 460-480	< .3	0.99	13	< 3	269	< 3	0.03	< .2	2	57	4	2.07	8642	0.02	9	0.01	593	10	0.01	5	0.018	34	23	6.7	21	5	< .01	< 8	1	5	94
RL-113 480-500	< .3	1.04	47	< 3	617	< 3	0.06	0.3	3	42	5	4.9	12610	0.04	11	0.02	1934	19	0.01	4	0.05	48	55	17.6	40	5	< .01	< 8	2	17	188
RL-113 500-520	< .3	1.25	53	3	404	< 3	0.06	1.6	3	36	4	6.52	35249	0.04	10	0.01	1002	18	0.01	4	0.075	73	88	139.2	28	5	< .01	< 8	2	34	210
RL-113 520-540	0.3	0.91	25	< 3	108	< 3	0.04	0.3	2	58	5	1.56	17199	0.04	11	0.01	607	10	0.01	5	0.014	36	24	26.5	15	6	< .01	< 8	2	4	71
RL-113 540-560	0.5	0.88	126	< 3	38	< 3	0.07	0.4	4	51	7	1.99	64661	0.09	17	0.02	295	7	0.02	8	0.013	112	130	97.5	9	7	< .01	< 8	4	2	113
RL-113 560-580	< .3	0.79	45	< 3	59	< 3	0.14	0.3	4	76	9	1.8	18345	0.19	24	0.07	702	8	0.03	12	0.018	43	48	37.7	11	7	< .01	< 8	8	< 2	87
RL-113 580-600	< .3	0.83	39	< 3	68	< 3	0.19	0.4	4	72	11	1.79	17732	0.28	27	0.13	841	7	0.03	12	0.021	53	43	29.8	16	7	< .01	< 8	9	< 2	90
RL-113 600-620	< .3	0.83	46	< 3	58	< 3	0.14	0.6	4	67	11	1.91	19430	0.24	18	0.09	1040	9	0.03	12	0.012	51	47	32.4	13	6	< .01	< 8	8	< 2	96
RL-113 620-640	< .3	0.68	29	< 3	55	< 3	0.17	0.4	3	75	9	1.54	13455	0.18	15	0.08	709	8	0.03	12	0.015	38	31	21.8	14	5	< .01	< 8	8	< 2	82
RL-113 640-660	< .3	0.62	30	< 3	57	< 3	0.58	0.3	3	69	8	1.71	14040	0.23	20	0.06	1086	7	0.04	8	0.012	41	32	22.3	25	7	< .01	< 8	7	< 2	108
RL-113 660-680	< .3	0.57	19	< 3	63	< 3	1.23	0.3	2	63	5	1.13	9110	0.23	19	0.05	599	6	0.03	5	0.004	32	21	12	51	8	< .01	< 8	3	< 2	105
STANDARD C3/DS2	5.6	1.75	58	19	141	24	0.56	23.5	12	170	63	3.41	280	0.15	19	0.63	781	26	0.04	37	0.088	38	18	2.2	27	19	0.1	25	82	20	165

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP053606
METHOD:	AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 356-0606
FAX: (775) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
STANDARD G-2	< .3	1.11	< 2	< 3	242	< 3	0.67	< .2	5	81	2	2.03	63	0.51	8	0.61	531	2	0.17	8	0.094	8	< 3	< .1	85	3	0.14	< 8	41	2	40
RL-113 680-700	< .3	0.6	11	5	63	< 3	1.33	0.3	1	53	3	1.16	4084	0.29	25	0.06	694	6	0.05	2	0.004	26	13	8.2	75	10	< .01	< 8	1	< 2	86
RL-113 700-720	< .3	0.58	9	5	48	< 3	1.14	< .2	1	56	3	1.07	2665	0.28	26	0.05	598	6	0.05	2	0.003	23	12	5.6	73	11	< .01	< 8	2	< 2	81
RL-113 720-740	< .3	0.59	17	5	28	< 3	1.19	0.3	1	49	5	1.13	4444	0.28	26	0.05	607	6	0.05	3	0.004	27	15	8.5	83	11	< .01	< 8	1	< 2	80
RL-113 740-760	< .3	0.56	17	4	36	< 3	1.01	< .2	1	48	8	1.28	5390	0.26	24	0.05	601	8	0.04	5	0.003	26	19	12.2	69	10	< .01	< 8	1	< 2	75
RL-113 760-780	< .3	0.61	8	5	52	< 3	0.74	0.2	1	34	6	1.15	2515	0.26	23	0.06	508	10	0.03	3	0.003	23	10	5.6	51	11	< .01	< 8	1	< 2	79
RL-113 780-800	< .3	0.6	18	5	26	< 3	0.53	0.3	1	50	6	1.32	5159	0.27	23	0.07	722	6	0.02	4	0.003	31	20	11.8	44	11	< .01	< 8	1	< 2	86

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431-5902

(702) 356-0606

INVOICE NO: SP 0053606-IN
INVOICE DATE: 06/17/99

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 N. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 N. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RL-113	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
160	SAMPLES RECEIVED	.00	.00
160	COMPOSITE CHARGE	1.00	160.00
40	MULTI-ELEMENT ICP PACKAGE	9.80	392.00
40	Se ANALYSES	7.15	286.00

#544.70

#313.70

COPY

NET INVOICE: 838.00
LESS DISCOUNT: 293.30
FREIGHT: 0.00

INVOICE TOTAL: 544.70