6000 0512

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 RS-407
AUTHOR	G. Longstaff; G. Ballew; R. Lisle; R. Vance; K. Allen; S. King
DATE OF DOC(S)	1997-1999
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Newmont Gold Co.
COMMODITY If not obvious	gold; silver
NOTES	drill logs; assay; geology; [redacted]; geochemistry; total depth 1500'; handwritten note; invoices 68 p

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: DB 3/18/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

RS 7-407

60000512
4010

C0000512

Newmont Gold Rotary Form

Hole#	RS-407	Az/Incl	-90	Page	
Logged by	G. Langstaff	Area	S of Dreamland	Total Depth	1500
Date	3/25/99	Coords		Contractor	
					1 of 8

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	breccia	vein	gouge	Comments	Alteration: Silic	argillic	clay	prop	Sericite	Chlorite	Met.: FEOX hem	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
20		alluvium	v. pale tan, med. grey, dk brown etc															1					2	
40		Scd?	grey-brown etc.								35-50: considerable mud in sample muddy conglomerate or still colluvium? with clay	0	tr	0	0	0	0	1			0	0	2	
			big brown chips								2mm vitreous feldspar, rare chip of angular conglomerate		some bleached chips										1	
60			brn								rare white feldspar <1mm													
				v. pale brown							some chips of breccia		0										2	
											subrounded volcanic pebbles coated? with calcareous clay		2										3	
			brn										0											
80			v. pale grey & brown								some white clay veins, coarse pyrite		tr					tr			tr		2	
			med grey & brown								white and green prismatic phenos		0					1			0			
100		Fp-f (mmb)	reddish brown								2mm vitreous feldspar, wavy laminations								2					
											red color obscures textures, not even mmb would be recognizable													
											rare white or vitreous feldspar << 1%, ≤2mm rarely green													
120											3mm vitreous feldspar													
140			reddish brown with some grey								calcite vein													
											black microlite needles in less red chips							tr						
											possible mmb													
											probable mmb							1						
											4mm anhedral vitreous feldspar													
160			reddish brown								mmb 4mm, 5mm vitreous feldspar							2						
											green phenos													
180																								
200																								

Newmont Gold Rotary Form

Hole# RS-407
Logged by G. Langstaff
Date 3/25/99
Area S of Dreamland
Coords
Az/Incl -90
Total Depth 1500
Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX hem	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
			red/ox brown								probable mmb	0	0	0	0	0	0	2		0	0	0	2	
											vitreous feldspar 1± mm													
											waxy white clay vein													
220											calcite vein													
											probable mmb													
240											vitreous and green phenos													
											5mm mmb													
260											overall ~ 1% white and vitreous feldspar phenos (mostly K-spar?), <<1% biotite phenos usually <1mm and rare to 5% mmb 1 to >10mm feldspar anhedral-subhedral													
											calcite vein													
											twinned vitreous K-spar 1mm with calcite in fractures													
280											white clay vein													
		Fp-f (mmb)									twinned vitreous K-spar 1mm												2	
											mmb 10mm													
300											3mm mmb, 2mm vitreous feldspar													
											calcite vein							1						
											Diesegang banding of hematite													
											tiny black needles visible in grey rock, equant black biotite? ~.5mm													
320											mmb													
			pale grey and red-brown								3mm twinned feldspar? altered to black													
											10mm mmb with visible felted microlites and white feldspar microphenos <.5mm							tr						
340			pale grey w/some brown								mmb, 3mm vitreous feldspar, 1mm biotite?													
											more mmb than feldspar phenos													
360											loose 2mm biotite flake													
											common mmb <3mm													
380											vitreous and dark green phenos													
																		1					2	
																		2						
400			red-brown								some mud in sample													

Scd?

Newmont Gold Rotary Form

Hole# RS-407
Logged by G. Langstaff
Date 3/25/99
Area S. of Dreamland
Coords
Az/Incl -90
Total Depth 1500
Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay (green)	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX (hem)	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
		Sed	red grey								some clayey chips with sand grains muddy conglomerate?	0	0	0	0	0	0	1			0	0	2	
																		tr						
											calcite vein 2.5mm vitreous feldspar, pasty white microphenos													
			dark brownish-grey								vitreous feldspar, white or dark green amygdales? < 1mm possible mafic													
420											vitreous feldspar													
											overall, rare to 2% feldspar (usually < 1%) up to 4mm and rare to 3% irregular amydales usually < 2mm, mafic phenos < 1mm probably < 1%, feldspar subhedral													
											vitreous feldspar, dark green splotches							1						
440																								
			dark reddish grey																					
											2mm vitreous feldspar rimmed by green													
460																								
											spotty bleaching gives clastic appearance							tr						
			reddish								4mm red-stained, vitreous feldspar													
											irregular amygdales up to 4mm with crusty white lining													
480			dark grey > grey								amygdales lined with pale to dark green clay, calcite, qtz/opal													
																		1					2	
			dk reddish grey																					
500															tr			tr						
											some chips look clastic but still have amygdales													
											2.5mm vitreous feldspar, dark green to black amygdales and phenos?													
520			dk greenish grey and dark brown								calcite vein													
															0									
											amygdales with green rims, white cores													
540																								
			dark brown grey								chunky black phenos? < 1mm, white feldspar < 1mm													
560																								
											2mm vitreous feldspar													
																		1						
580											vitreous or pale green feldspar phenos													
																							3	
			reddish brown																				2	
600																								

Newmont Gold Rotary Form

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												0	0	0	0	0	0	1			0	0	2	
			reddish brown								vitreous or green phenos													
620											3mm vitreous feldspar													
											looks different because of mottling due to weak blanching and orange staining but still has vitreous feldspar and white-filled amygdales up to 2mm								tr					
											biotite phenos? almost 1mm													
640																								
			red-grey and orange brown								vitreous feldspar 2mm													
660																							3	
																							2	
680		Fp-b, f(an)																						
											calcite vein								1					
700																							2	
																			tr					
											feldspar and mafic phenos ≤1mm but no? amygdales													
720											dark and clear vitreous feldspar up to 2mm													
			dark reddish grey																					
740											red-stained twinned sanidine													
											vitreous feldspar ± brown stain													
760		Fp-b, f									irregular spotty blanching, vitreous feldspar													
780																								
											white leucocrene spots in 1mm dark green biotite vitreous feldspar												2	
800																								

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Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay/prop	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Bate	Mineralogy: Clay
820		M Fp-b, f (tan)	dark reddish grey								white, vitreous, and green feldspar and greenish-black biotite? phenos, about 5% all together							tr					2	
840											some dark green amygdales												3	
860																							2	
880											green and vitreous feldspar phenos													
900			dark red-grey / bin-grey								vitreous feldspar 1-2 mm	many soft moderate greenish-grey chips		tr ? / 0	tr ? / 0								2	
920			greenish-grey								dark green to very pale green amygdales				tr ?									
940			greenish-grey and dark reddish-grey								2 mm amygdales with qtz cores and dark green rims													
960											some chips look almost clastic due to heterogeneous alteration; amygdales with white opal?, green clay													
980		Sgo									vitreous feldspar and lots of green specks													
1000		Fgp-f	pale grey and red brown								fine to very coarse sandstone, probably with pebbles			tr ?	0									
											blade chips may be mmb			0	tr ?									
											sparsely porphyritic with rare feldspar and mafic phenos													
											<1mm and, possibly with mmb													
											v. rare vitreous feldspar, probable mmb												2	

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Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay (green)	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX (hm)	Met.: CO3	Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
		Fsp-f	pale greenish-grey, rare red-brown								rare grey feldspar < 1 mm	0	0	1	0	0	0	tr			0	0	3	
											clay in sample			2										
											sandstone chip from above?			1										
1020											some breccia chips												2	
											clot of vitreous feldspar in green clay													
											vein calcite													
1040											vitreous feldspar ~1 mm and smaller pasty white microphenos, also green prism < 1 mm			tr								3	2
											complex circular to lobate lieucogram? patterns with pinkish grey cores and thin dark green rims in grey rock													
			red-brown								<1% vitreous feldspar <1mm and finer dark to pasty white biotite and possibly hornblende phenos; amygdule with qtz core, calcite rim			0										
		Fp-h, b		pale grey				?				1											3	
1060											biotite phenos < 1 mm	0												
			reddish grey								hornblend and biotite phenos up to 1.5mm, brown altered													
											1-2% variably altered hornblende and biotite phenos but no feldspar												2	
1080											overall, weakly porphyritic with ~1% biotite and hornblende phenos up to 2mm but usually < 1 mm													
															1				0				1	
			greenish yellow-grey								dark green and pasty white phenos are probably altered mafics													
1100											grey-white clay vein										tr		0	
											pasty white phenos													
1120																							1	
											pasty white phenos up to 2mm													
			red-grey								pasty white and brownish black phenos				0			tr			0		2	
			tan										1						0		tr		3	
1140											pasty white and dark green phenos												0	
											looks like disseminated marcasite but could be pyritized biotite										1	1?		
			pale tan																					
1160																								
											pasty white and dark green phenos													
														0	1						tr		2	
			greenish yellow-grey								LCM													
1180																					0			
											brownish black hornblende and biotite				0			tr					3	
			red-grey																				2	
															1				0					
1200																								

Newmont Gold Rotary Form

Hole# RS-407 **Az/Incl** -90 **Page** 7 of 8

Logged by G. Langstaff **Area** S of Dreamland **Total Depth** 1500

Date 3/25/99 **Coords** **Contractor**

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay (Ore)	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
		Fp-h, b	v. pale yellow-gray								~12% relict greenish white phenos	0	tr	tr	0	0	0	0			1	0	2	
											abundant, disseminated, euhedral marcasite up to .5mm, possibly 5%											2	1	
											pasty white prisms		1	0							2		0	
1220			very pale grey								green and white phenos										1	1		
											rare relict white phenos													
														tr							tr	0	1	
1240							?			?	rare pasty white phenos some clay in sample - gouge												2	
						?								0								2		
											trace of clay in sample											1	0	
1260																					1			
						?					possible feldspar and hornblende phenos													
1280			pale pink				?				looks like it might be clastic rock, or could be fault breccia	1									tr	tr	2	
			v. pale gray-pink-grn			?																		
											mixed contamination	0												
													0	1							0	0		
1300			greenish-gray								LCM distinctive rock with ~12% pale to dark green biotite, hornblende and probably amygdales (but relative proportions uncertain) in aphanitic matrix with very distinguishable whiter mineralites, all generally rarely ≤.5mm but some hornblende up to 1.5mm; also vitreous chunks which could be feldspar microphenos or amygdales; unique style of alteration suggests it could be more matrix												3	
1320																								
1340		Mp-b, h? (am)									vein with pyrite, qtz, chlorite?													
															tr									
1360			olive-gray								calcite vein													
											calcite vein													
1380			pale gray												1									
		Fa									calcite vein pyric rock - no amygdales				0									
			gray																					
				pale green-gray																				
1400											calcite + pyrite vein				1									
		Mp-b, h (am)																						

Newmont Gold Rotary Form

Hole# RS-407 **Az/Incl** -90 **Page** 8 of 8

Logged by G. Langstaff **Area** S of Dreamland **Total Depth** 1500

Date 3/25/99 **Coords** **Contractor**

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	ALS	cgSon	pale to dark grey								Sandy conglomerate with volcanic and phyllite clasts, matrix- and possibly clast-supported	0	1	0	0	0	0	0					3	
																							2	
							?				Auld Lang Syne Group phyllite		0								tr			
1420	ALS	phyllite	grey								sparse chips of possible intrusion, similar to Mp-bjhlam above but more strongly altered and may have trachytic texture of bleached microlites							?					1	
			dark grey								quart and calcite veins throughout phyllite, rarely with pyrite most quartz veins near upper contact							bleached slightly						
1440																					1			
			black								some sandstone clasts suggest this is contamination from above but could be intrusion												2	
																							1	
1460																							2	
																							3	
1480	ALS	phyllite																						
																					2			
1500											T.D. 1500'													

Pete, — must relog from 100' down

Project: ROSEBUD	State: Nevada	Northing: 2,204,870	Total Depth: 1500
Log'd by: RJK 10/17/07	County: Pershing	Easting: 477,740	Bearing: —
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation: 5,180	Inclination: -90

Hole No. RS-407

Page 1 of 9

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
																																		Boneyard Area South of Ordanland	
20	Every Color																																	Heterogeneous Gravel	20
40	Dk brn Gy																																	Hnbl.? Brnclay + Gy f.g. volc. w/ biotite? phenos phenos 0.1-0.2 mm	40
60	Lt. Gy																									1 1								Gy volc. rk w/ hnbl/biot specks Salt + pepper appearance some Hnbl. grains up to 0.5 mm	60
80																																			80
100	Dk red																							4	3									F.G. Hvy ox volcanics - Salt + Pepper Hnbl. Phenos up to 0.5 mm	100
120																																			120
140																																			140
160	Lt. Gy + Dk red																							2 2										Gy Salt + Pepper Hnbl. Pheno - Volc rk	160
180	Dk red																							3											180

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: DBL 10/17/97	County: Pershing	Easting:	Bearing:	Page 2 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Dk Red																								3										Lith. as above. Lt Gy wk stained by oxidation.	
200																																				200
220	Dk red-Gy																								2											220
240																																				240
260																																				260
280																																				280
300																																				300
320	mostly Gy some dk rd																								1											320
340	Med-Gy																								-											340
360																																				360

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAK 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 3 of 9

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Med-Lt Gy																								–										Lith as above	
																									–											
380																									1											380
																									2											
	Dk Med Gy																								3											
400																									3											400
																														2						
	Gray																													2						
	V.dk Gray																																		Nearly black vesicular volcanic rk	
420																																			Green mineral in vessicles	420
440																									1											440
																									1											
																									1											
460																																				460
480																																				480
500																																				500
	Dk Grn Gy																																			
520																																				520
	Nearly Black																																			
540																																				540

Rclog02 xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAL 10/17/97	County: Pershing	Easting:	Bearing:	Page 4 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Nearly Black																																	DIL volc. rk as above. Less vesicular	
560																																			560
580																																			580
600																																			600
620																																			620
640	Rd brn																							3	1									salt+pepper Hnbl.-brn (-Contam ?)	640
660																																		Volcanic RK "	660
680																																			680
700																																			700
720	DK Gy																							2										massive aphanitic volc. rk, dk Gy	720

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RZK 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 5 of 9

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
		LITHOLOGY																			STRUCT			ALTERATION & MIINERALIZATION												
	DK GY																																		Dark nondescript aphanitic Volc. rk	
740																																				740
760																																				760
	DK Pink Gy																								1										F.G. salt & Pepper aphanitic Volc. rk mottled appearance - poss. due to slight bleaching?	
780																																				780
800																																				800
820																																				820
840																																				840
860	DK GY																																		DK f.g. massive rk	860
880																																				880
900	Lt Gray Gy																													2						900

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAL 10/17/97	County: Pershing	Easting:	Bearing:	Page 6 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Olk brn Gy												11																					Olk brn Gy massive aphanitic RK	
	Olk Grn													11																				Grn Gy Salt + Pepper intermed. Volc. (?) sl. bleaching causing green color	
920														11																					920
														11																					
940														11																					940
														11																					
960														11																					960
														11																					
980														11																					980
	Lt Grn Gy													11															2					F. G. massive Lt Grn MC - poss. bleched? (in places)	
1000														11																					1000
														11																					
1020														11																					1020
														11																					
1040														11																					1040
														11																					
	Olk Or. Brn													11										3											
1060	Lav. Gy													11										1											1060
														11										1											
														11										1											
1080														11										1											1080

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RJK 10/17/97	County: Pershing	Easting:	Bearing:	Page 7 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Lav, Gy																																		Lith as above. Massive F.G. Volcanic.	
	↓																																			
	Ol. Grn																										1	4							Bleached Massive aphanitic rk	
1100																												4							scattered leucoxene	1100
																											2								grains throughout.	
1120																																				1120
																											1								vesicular	
	↓																										1	↓							"	
	Gray																											2								
1140	LT. Ol. Grn																										1	4								1140
																											1									
																								2			3								bleached sulf-Marc?	
																											2									
1160																											2									1160
																											1									
																											1									
1180																																				1180
																												↓								
	Gy																											1								
	Brn Gy																											1								
1200	Ol. Grn																											4								1200
	V. Pale Grn																										1									
																											4								Disseminated	
																											5								- bleached marc.,	
1220																											4								Tiny	1220
																											3									
																											2									
1240																											1									1240
																								2			3								- marc.,	
																								3			2								Tiny	
1260																								2			2									1260

0
59
126
0

0
0
46
50
106
14
83
0
0

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: 10/17/97 RAK	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 8 of 8

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	V. Pale Grn																							3			2	4							alt'd RK as above	
																								2			2								-marcasite, Tiny grains	
																								2			2									
1280	Tan																							1												1280
	"																														3					
	Lt Grn																										1				2					
	↓																										1									
1300	Ol. Grn																											2	3				3		Part. blch. aphanitic volc. rk	1300
																																			Green Salt & Pepper biot/hbl porphyritic volcanic rk	
1320																																				1320
1340																																				1340
1360	Dark Ol. Grn																																			1360
1380																																				1380
	Ol. Grn																											2								
1400																												2								1400
																																			mixed blk shale & Green volcanic rk	
																																			"	
1420	Black																																		"	
																																			Gray siltstone - Shale some volc. chips	1420
																																			"	
																																			Blk platy shale "	
1440																																				1440

Rclog02.xls

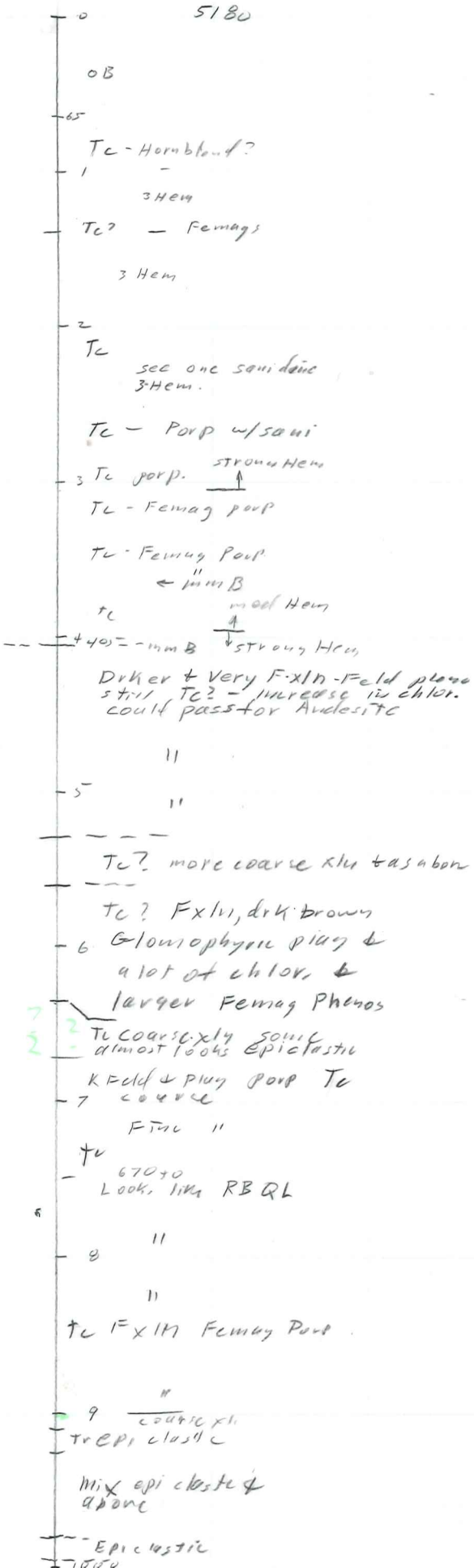
Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RJK 10/17/97	County: Pershing	Easting:	Bearing:	Page 9 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

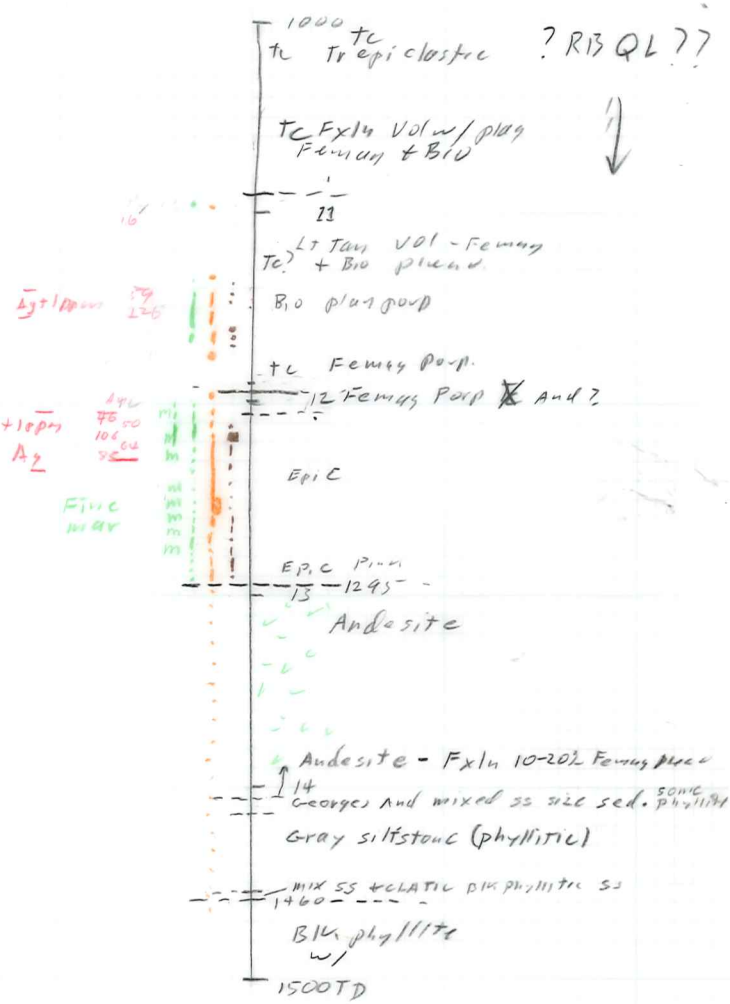
DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Black										//																							Platy shale as above	
	↓										//																								
1460	Gray													//////												1	3					2		— bleached vole. HK	1460
	Black										//																					2			
											//																					2			
1480											//																								1480
											//																					2			
											//																								
											//																					3			
1500											//																					2			1500
																																		TD 1500'	

Rclog02.xls

N- 2,204,870
E- 477,740





Looking for Cam Fault

ROSEBUD
RS-407
1" = 100'

Rogowski - Mar 1999

407 HO Survey

ALS @ 1415

980
1050 — Zone of Argillic <5ppb

1100
1300 — Bleaching

Inner 1150
1210–20
1240–1260

Silic 2–3 ~~Sta~~ 1280–1290

↓ prop ↓ 1290

~~1230~~ 45
up to 100 ppb Au

ALS 1415

1205–1230
40 to 110

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW
: RICK LISLE
: RANDY VANCE
: KURT ALLEN

CLIENT REFERENCE No: 97-407 RECEIVED : 1 OCT 1997

No. SAMPLES : 300 REPORTED : 1 OCT 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

NEVADA LEGISLATIVE DISCLAIMER :-
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 geological 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.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0000-0005	<5		<0.001		<0.5	<0.02
97-407 0005-0010	<5		<0.001		<0.5	<0.02
97-407 0010-0015	<5		<0.001		<0.5	<0.02
97-407 0015-0020	<5		<0.001		<0.5	<0.02
97-407 0020-0025	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0025-0030	<5		<0.001		<0.5	<0.02
97-407 0030-0035	<5		<0.001		<0.5	<0.02
97-407 0035-0040	<5		<0.001		<0.5	<0.02
97-407 0040-0045	<5		<0.001		<0.5	<0.02
97-407 0045-0050	<5		<0.001		<0.5	<0.02
97-407 0050-0055	<5		<0.001		<0.5	<0.02
97-407 0055-0060	<5		<0.001		<0.5	<0.02
97-407 0060-0065	<5		<0.001		<0.5	<0.02
97-407 0065-0070	<5		<0.001		<0.5	<0.02
97-407 0070-0075	<5		<0.001		<0.5	<0.02
97-407 0075-0080	<5		<0.001		<0.5	<0.02
97-407 0080-0085	<5		<0.001		<0.5	<0.02
97-407 0085-0090	<5		<0.001		<0.5	<0.02
97-407 0090-0095	<5		<0.001		<0.5	<0.02
97-407 0095-0100	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0100-0105	<5		<0.001		<0.5	<0.02
97-407 0105-0110	<5		<0.001		<0.5	<0.02
97-407 0110-0115	<5		<0.001		<0.5	<0.02
97-407 0115-0120	<5		<0.001		<0.5	<0.02
97-407 0120-0125	<5	<5	<0.001	<0.001	<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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PROJECT : ROSEBUD
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REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0125-0130	<5		<0.001		<0.5	<0.02
97-407 0130-0135	<5		<0.001		<0.5	<0.02
97-407 0135-0140	<5		<0.001		<0.5	<0.02
97-407 0140-0145	<5		<0.001		<0.5	<0.02
97-407 0145-0150	<5		<0.001		<0.5	<0.02
97-407 0150-0155	<5		<0.001		<0.5	<0.02
97-407 0155-0160	<5		<0.001		<0.5	<0.02
97-407 0160-0165	<5		<0.001		<0.5	<0.02
97-407 0165-0170	<5		<0.001		<0.5	<0.02
97-407 0170-0175	<5		<0.001		<0.5	<0.02
97-407 0175-0180	<5		<0.001		<0.5	<0.02
97-407 0180-0185	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0185-0190	<5		<0.001		<0.5	<0.02
97-407 0190-0195	<5		<0.001		<0.5	<0.02
97-407 0195-0200	<5		<0.001		<0.5	<0.02
97-407 0200-0205	<5		<0.001		<0.5	<0.02
97-407 0205-0210	<5		<0.001		<0.5	<0.02
97-407 0210-0215	<5		<0.001		<0.5	<0.02
97-407 0215-0220	<5		<0.001		<0.5	<0.02
97-407 0220-0225	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0225-0230	<5		<0.001		<0.5	<0.02
97-407 0230-0235	<5		<0.001		<0.5	<0.02
97-407 0235-0240	<5		<0.001		<0.5	<0.02
97-407 0240-0245	<5		<0.001		<0.5	<0.02
97-407 0245-0250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0250-0255	<5		<0.001		<0.5	<0.02
97-407 0255-0260	<5		<0.001		<0.5	<0.02
97-407 0260-0265	<5		<0.001		<0.5	<0.02
97-407 0265-0270	<5		<0.001		<0.5	<0.02
97-407 0270-0275	<5		<0.001		<0.5	<0.02
97-407 0275-0280	<5		<0.001		<0.5	<0.02
97-407 0280-0285	<5		<0.001		<0.5	<0.02
97-407 0285-0290	<5		<0.001		<0.5	<0.02
97-407 0290-0295	<5		<0.001		<0.5	<0.02
97-407 0295-0300	<5		<0.001		<0.5	<0.02
97-407 0300-0305	<5		<0.001		<0.5	<0.02
97-407 0305-0310	<5		<0.001		<0.5	<0.02
97-407 0310-0315	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0315-0320	<5		<0.001		<0.5	<0.02
97-407 0320-0325	<5		<0.001		<0.5	<0.02
97-407 0325-0330	<5		<0.001		<0.5	<0.02
97-407 0330-0335	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0335-0340	<5		<0.001		<0.5	<0.02
97-407 0340-0345	<5		<0.001		<0.5	<0.02
97-407 0345-0350	<5		<0.001		<0.5	<0.02
97-407 0350-0355	<5		<0.001		<0.5	<0.02
97-407 0355-0360	<5		<0.001		<0.5	<0.02
97-407 0360-0365	<5		<0.001		<0.5	<0.02
97-407 0365-0370	<5		<0.001		<0.5	<0.02
97-407 0370-0375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0375-0380	<5		<0.001		<0.5	<0.02
97-407 0380-0385	<5		<0.001		<0.5	<0.02
97-407 0385-0390	<5		<0.001		<0.5	<0.02
97-407 0390-0395	<5		<0.001		<0.5	<0.02
97-407 0395-0400	<5		<0.001		<0.5	<0.02
97-407 0400-0405	<5		<0.001		<0.5	<0.02
97-407 0405-0410	<5		<0.001		<0.5	<0.02
97-407 0410-0415	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0415-0420	<5		<0.001		<0.5	<0.02
97-407 0420-0425	<5		<0.001		<0.5	<0.02
97-407 0425-0430	<5		<0.001		<0.5	<0.02
97-407 0430-0435	<5		<0.001		<0.5	<0.02
97-407 0435-0440	<5		<0.001		<0.5	<0.02
97-407 0440-0445	<5		<0.001		<0.5	<0.02
97-407 0445-0450	<5		<0.001		<0.5	<0.02
97-407 0450-0455	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0455-0460	<5		<0.001		<0.5	<0.02
97-407 0460-0465	<5		<0.001		<0.5	<0.02
97-407 0465-0470	<5		<0.001		<0.5	<0.02
97-407 0470-0475	<5		<0.001		<0.5	<0.02
97-407 0475-0480	<5		<0.001		<0.5	<0.02
97-407 0480-0485	<5		<0.001		<0.5	<0.02
97-407 0485-0490	<5		<0.001		<0.5	<0.02
97-407 0490-0495	<5		<0.001		<0.5	<0.02
97-407 0495-0500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0500-0505	<5		<0.001		<0.5	<0.02
97-407 0505-0510	<5		<0.001		<0.5	<0.02
97-407 0510-0515	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0515-0520	<5		<0.001		<0.5	<0.02
97-407 0520-0525	<5		<0.001		<0.5	<0.02
97-407 0525-0530	<5		<0.001		<0.5	<0.02
97-407 0530-0535	<5		<0.001		<0.5	<0.02
97-407 0535-0540	<5		<0.001		<0.5	<0.02
97-407 0540-0545	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0545-0550	<5		<0.001		<0.5	<0.02
97-407 0550-0555	<5		<0.001		<0.5	<0.02
97-407 0555-0560	<5		<0.001		<0.5	<0.02
97-407 0560-0565	<5		<0.001		<0.5	<0.02
97-407 0565-0570	<5		<0.001		<0.5	<0.02
97-407 0570-0575	<5		<0.001		<0.5	<0.02
97-407 0575-0580	<5		<0.001		<0.5	<0.02
97-407 0580-0585	<5		<0.001		<0.5	<0.02
97-407 0585-0590	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0590-0595	<5		<0.001		<0.5	<0.02
97-407 0595-0600	<5		<0.001		<0.5	<0.02
97-407 0600-0605	<5		<0.001		<0.5	<0.02
97-407 0605-0610	<5		<0.001		<0.5	<0.02
97-407 0610-0615	<5		<0.001		<0.5	<0.02
97-407 0615-0620	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0620-0625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0625-0630	<5		<0.001		<0.5	<0.02
97-407 0630-0635	<5		<0.001		<0.5	<0.02
97-407 0635-0640	<5		<0.001		<0.5	<0.02
97-407 0640-0645	<5		<0.001		<0.5	<0.02
97-407 0645-0650	<5		<0.001		<0.5	<0.02
97-407 0650-0655	<5		<0.001		<0.5	<0.02
97-407 0655-0660	<5		<0.001		<0.5	<0.02
97-407 0660-0665	<5		<0.001		<0.5	<0.02
97-407 0665-0670	<5		<0.001		<0.5	<0.02
97-407 0670-0675	<5		<0.001		<0.5	<0.02
97-407 0675-0680	<5		<0.001		<0.5	<0.02
97-407 0680-0685	<5		<0.001		<0.5	<0.02
97-407 0685-0690	<5		<0.001		<0.5	<0.02
97-407 0690-0695	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0695-0700	<5		<0.001		<0.5	<0.02
97-407 0700-0705	<5		<0.001		<0.5	<0.02
97-407 0705-0710	<5		<0.001		<0.5	<0.02
97-407 0710-0715	<5		<0.001		<0.5	<0.02
97-407 0715-0720	<5		<0.001		<0.5	<0.02
97-407 0720-0725	<5		<0.001		<0.5	<0.02
97-407 0725-0730	<5		<0.001		<0.5	<0.02
97-407 0730-0735	<5		<0.001		<0.5	<0.02
97-407 0735-0740	<5		<0.001		<0.5	<0.02
97-407 0740-0745	<5		<0.001		<0.5	<0.02
97-407 0745-0750	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0750-0755	<5		<0.001		<0.5	<0.02
97-407 0755-0760	<5		<0.001		<0.5	<0.02
97-407 0760-0765	<5		<0.001		<0.5	<0.02
97-407 0765-0770	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0770-0775	<5		<0.001		<0.5	<0.02
97-407 0775-0780	<5		<0.001		<0.5	<0.02
97-407 0780-0785	<5		<0.001		<0.5	<0.02
97-407 0785-0790	<5		<0.001		1.4	0.04
97-407 0790-0795	<5		<0.001		<0.5	<0.02
97-407 0795-0800	<5		<0.001		<0.5	<0.02
97-407 0800-0805	<5		<0.001		<0.5	<0.02
97-407 0805-0810	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0810-0815	<5		<0.001		<0.5	<0.02
97-407 0815-0820	<5		<0.001		<0.5	<0.02
97-407 0820-0825	<5		<0.001		<0.5	<0.02
97-407 0825-0830	<5		<0.001		<0.5	<0.02
97-407 0830-0835	<5		<0.001		<0.5	<0.02
97-407 0835-0840	<5		<0.001		<0.5	<0.02
97-407 0840-0845	<5		<0.001		<0.5	<0.02
97-407 0845-0850	<5		<0.001		<0.5	<0.02
97-407 0850-0855	<5		<0.001		<0.5	<0.02
97-407 0855-0860	<5		<0.001		<0.5	<0.02
97-407 0860-0865	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0865-0870	<5		<0.001		<0.5	<0.02
97-407 0870-0875	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0875-0880	<5		<0.001		<0.5	<0.02
97-407 0880-0885	<5		<0.001		<0.5	<0.02
97-407 0885-0890	<5		<0.001		<0.5	<0.02
97-407 0890-0895	<5		<0.001		<0.5	<0.02
97-407 0895-0900	<5		<0.001		<0.5	<0.02
97-407 0900-0905	<5		<0.001		<0.5	<0.02
97-407 0905-0910	<5		<0.001		<0.5	<0.02
97-407 0910-0915	<5		<0.001		<0.5	<0.02
97-407 0915-0920	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0920-0925	<5		<0.001		<0.5	<0.02
97-407 0925-0930	<5		<0.001		<0.5	<0.02
97-407 0930-0935	<5		<0.001		<0.5	<0.02
97-407 0935-0940	<5		<0.001		<0.5	<0.02
97-407 0940-0945	<5		<0.001		<0.5	<0.02
97-407 0945-0950	<5		<0.001		<0.5	<0.02
97-407 0950-0955	<5		<0.001		<0.5	<0.02
97-407 0955-0960	<5		<0.001		<0.5	<0.02
97-407 0960-0965	<5		<0.001		<0.5	<0.02
97-407 0965-0970	<5		<0.001		<0.5	<0.02
97-407 0970-0975	<5		<0.001		<0.5	<0.02
97-407 0975-0980	<5		<0.001		<0.5	<0.02
97-407 0980-0985	<5		<0.001		<0.5	<0.02
97-407 0985-0990	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0990-0995	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0995-1000	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1000-1005	<5		<0.001		<0.5	<0.02
97-407 1005-1010	<5		<0.001		<0.5	<0.02
97-407 1010-1015	<5		<0.001		<0.5	<0.02
97-407 1015-1020	<5		<0.001		<0.5	<0.02
97-407 1020-1025	<5		<0.001		<0.5	<0.02
97-407 1025-1030	<5		<0.001		<0.5	<0.02
97-407 1030-1035	<5		<0.001		<0.5	<0.02
97-407 1035-1040	<5		<0.001		<0.5	<0.02
97-407 1040-1045	<5		<0.001		<0.5	<0.02
97-407 1045-1050	<5		<0.001		<0.5	<0.02
97-407 1050-1055	<5		<0.001		<0.5	<0.02
97-407 1055-1060	<5		<0.001		<0.5	<0.02
97-407 1060-1065	<5		<0.001		<0.5	<0.02
97-407 1065-1070	<5		<0.001		<0.5	<0.02
97-407 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1075-1080	<5		<0.001		<0.5	<0.02
97-407 1080-1085	<5		<0.001		<0.5	<0.02
97-407 1085-1090	<5		<0.001		<0.5	<0.02
97-407 1090-1095	<5		<0.001		<0.5	<0.02
97-407 1095-1100	<5		<0.001		<0.5	<0.02
97-407 1100-1105	<5		<0.001		<0.5	<0.02
97-407 1105-1110	16		<0.001		<0.5	<0.02
97-407 1110-1115	<5		<0.001		<0.5	<0.02
97-407 1115-1120	<5		<0.001		<0.5	<0.02
97-407 1120-1125	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1125-1130	<5		<0.001		<0.5	<0.02
97-407 1130-1135	<5		<0.001		<0.5	<0.02
97-407 1135-1140	<5		<0.001		<0.5	<0.02
97-407 1140-1145	<5		<0.001		<0.5	<0.02
97-407 1145-1150	59		0.002		1.7	0.05
97-407 1150-1155	126		0.004		1.0	0.03
97-407 1155-1160	<5		<0.001		<0.5	<0.02
97-407 1160-1165	<5		<0.001		<0.5	<0.02
97-407 1165-1170	95		0.003		<0.5	<0.02
97-407 1170-1175	<5		<0.001		<0.5	<0.02
97-407 1175-1180	<5		<0.001		<0.5	<0.02
97-407 1180-1185	<5		<0.001		<0.5	<0.02
97-407 1185-1190	<5		<0.001		<0.5	<0.02
97-407 1190-1195	<5		<0.001		<0.5	<0.02
97-407 1195-1200	<5		<0.001		<0.5	<0.02
97-407 1200-1205	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1205-1210	46		0.001		0.9	0.03
97-407 1210-1215	50		0.001		1.6	0.05
97-407 1215-1220	106	110	0.003	0.003	2.9	0.08
97-407 1220-1225	64		0.002		1.5	0.04
97-407 1225-1230	83		0.002		1.8	0.05
97-407 1230-1235	<5		<0.001		1.3	0.04
97-407 1235-1240	<5		<0.001		<0.5	<0.02
97-407 1240-1245	<5		<0.001		<0.5	<0.02
97-407 1245-1250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1250-1255	17		<0.001		0.5	<0.02
97-407 1255-1260	<5		<0.001		0.7	0.02
97-407 1260-1265	<5		<0.001		0.7	0.02
97-407 1265-1270	<5		<0.001		0.9	0.03
97-407 1270-1275	<5		<0.001		0.7	0.02
97-407 1275-1280	<5		<0.001		1.0	0.03
97-407 1280-1285	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1285-1290	<5		<0.001		<0.5	<0.02
97-407 1290-1295	<5		<0.001		<0.5	<0.02
97-407 1295-1300	<5		<0.001		<0.5	<0.02
97-407 1300-1305	<5		<0.001		<0.5	<0.02
97-407 1305-1310	<5		<0.001		<0.5	<0.02
97-407 1310-1315	<5		<0.001		<0.5	<0.02
97-407 1315-1320	<5		<0.001		<0.5	<0.02
97-407 1320-1325	<5		<0.001		<0.5	<0.02
97-407 1325-1330	<5		<0.001		<0.5	<0.02
97-407 1330-1335	<5		<0.001		<0.5	<0.02
97-407 1335-1340	<5		<0.001		<0.5	<0.02
97-407 1340-1345	<5		<0.001		<0.5	<0.02
97-407 1345-1350	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1350-1355	<5		<0.001		<0.5	<0.02
97-407 1355-1360	<5		<0.001		<0.5	<0.02
97-407 1360-1365	<5		<0.001		<0.5	<0.02
97-407 1365-1370	<5		<0.001		<0.5	<0.02
97-407 1370-1375	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1375-1380	<5		<0.001		<0.5	<0.02
97-407 1380-1385	<5		<0.001		<0.5	<0.02
97-407 1385-1390	<5		<0.001		<0.5	<0.02
97-407 1390-1395	<5		<0.001		1.3	0.04
97-407 1395-1400	<5		<0.001		<0.5	<0.02
97-407 1400-1405	<5		<0.001		<0.5	<0.02
97-407 1405-1410	<5		<0.001		<0.5	<0.02
97-407 1410-1415	<5		<0.001		<0.5	<0.02
97-407 1415-1420	<5		<0.001		1.0	0.03
97-407 1420-1425	<5	<5	<0.001	<0.001	0.9	0.03
97-407 1425-1430	<5		<0.001		0.6	<0.02
97-407 1430-1435	<5		<0.001		0.8	0.02
97-407 1435-1440	<5		<0.001		0.7	0.02
97-407 1440-1445	<5		<0.001		0.6	<0.02
97-407 1445-1450	<5		<0.001		0.6	<0.02
97-407 1450-1455	<5		<0.001		0.6	<0.02
97-407 1455-1460	<5		<0.001		<0.5	<0.02
97-407 1460-1465	<5		<0.001		<0.5	<0.02
97-407 1465-1470	<5		<0.001		<0.5	<0.02
97-407 1470-1475	<5		<0.001		<0.5	<0.02
97-407 1475-1480	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1480-1485	<5		<0.001		<0.5	<0.02
97-407 1485-1490	<5		<0.001		<0.5	<0.02
97-407 1490-1495	<5		<0.001		<0.5	<0.02
97-407 1495-1500	<5		<0.001		<0.5	<0.02

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	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
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	1	2	0.01	5	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.

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-407 0000-0020	< .3	0.85	9	9	127	3	0.4	< .2	3	7	12	2.4	200	0.27	21	0.15	459	1	0.11	4	0.028	39	5	52	10	0.03	< 8	18	< 2	49
97-407 0020-0040	0.4	0.79	9	7	125	< 3	0.39	< .2	3	7	10	2.54	160	0.26	23	0.12	643	2	0.08	4	0.027	29	5	48	11	0.02	< 8	17	2	57
97-407 0040-0060	< .3	0.59	6	5	85	< 3	0.3	0.4	1	4	5	2.48	110	0.23	22	0.06	1392	2	0.05	2	0.022	30	4	34	12	0.02	< 8	11	2	82
97-407 0060-0080	< .3	0.63	12	4	95	< 3	3.97	0.9	1	10	10	2.49	190	0.19	32	0.07	1166	2	0.05	5	0.028	22	3	110	12	0.04	< 8	25	2	84
97-407 0080-0100	< .3	0.52	3	3	30	< 3	1.31	< .2	1	4	6	2.66	30	0.2	38	0.04	662	1	0.05	1	0.029	21	< 3	44	13	0.04	< 8	13	< 2	73
97-407 0100-0120	< .3	0.37	3	3	34	< 3	1.25	0.3	1	5	5	2.61	45	0.14	31	0.03	747	1	0.06	2	0.026	16	< 3	48	12	0.06	< 8	8	< 2	71
97-407 0120-0140	< .3	0.4	5	5	31	< 3	1.03	0.3	1	6	5	2.87	45	0.17	33	0.04	609	1	0.06	2	0.029	16	< 3	50	13	0.05	< 8	12	< 2	73
97-407 0140-0160	< .3	0.44	6	6	25	< 3	0.89	0.3	1	5	5	2.78	85	0.2	31	0.05	759	1	0.06	2	0.029	14	< 3	52	11	0.04	< 8	12	< 2	76
97-407 0160-0180	< .3	0.41	7	6	23	< 3	1.1	0.6	1	5	5	2.76	50	0.19	31	0.04	1186	1	0.06	2	0.029	16	< 3	55	11	0.04	< 8	10	< 2	68
97-407 0180-0200	< .3	0.45	8	6	34	< 3	0.95	0.3	1	4	5	2.71	40	0.2	32	0.03	822	1	0.06	2	0.028	17	< 3	63	11	0.05	< 8	7	< 2	50
97-407 0200-0220	< .3	0.44	10	6	31	< 3	0.9	0.3	1	4	3	2.72	30	0.18	36	0.02	617	1	0.06	1	0.03	21	< 3	68	12	0.05	< 8	6	2	42
97-407 0220-0240	< .3	0.46	5	6	30	< 3	0.87	< .2	1	5	5	2.73	15	0.21	34	0.02	579	1	0.07	2	0.025	22	< 3	57	13	0.04	< 8	8	2	63
97-407 0240-0260	< .3	0.46	7	6	32	< 3	0.95	< .2	1	5	6	2.78	35	0.23	34	0.02	664	2	0.07	2	0.024	27	< 3	52	13	0.05	< 8	6	2	56
97-407 0260-0280	< .3	0.4	8	5	31	< 3	0.75	< .2	1	6	7	3.04	20	0.2	29	0.02	673	2	0.08	3	0.024	29	< 3	41	13	0.06	< 8	5	< 2	57
97-407 0280-0300	< .3	0.36	14	4	29	< 3	1.17	< .2	1	6	7	2.79	25	0.19	26	0.02	833	2	0.07	3	0.021	26	3	47	13	0.05	< 8	6	2	60
97-407 0300-0320	< .3	0.35	13	3	25	< 3	0.89	< .2	1	6	6	2.72	20	0.18	23	0.02	630	2	0.07	2	0.023	27	< 3	43	12	0.05	< 8	5	2	63
97-407 0320-0340	< .3	0.41	7	4	24	< 3	0.85	< .2	1	5	8	2.61	15	0.19	32	0.02	607	2	0.06	2	0.023	25	< 3	45	12	0.05	< 8	7	2	40
97-407 0340-0360	< .3	0.38	5	3	21	< 3	0.75	< .2	1	5	8	2.7	50	0.2	35	0.02	504	2	0.06	2	0.025	28	< 3	45	12	0.04	< 8	10	2	40
97-407 0360-0380	< .3	0.3	5	3	21	< 3	1.19	0.2	< 1	3	5	2.25	30	0.17	35	0.02	529	1	0.05	1	0.024	27	< 3	43	11	0.04	< 8	9	2	34
97-407 0380-0400	0.3	0.82	7	4	40	< 3	1.72	0.2	2	5	8	2.4	25	0.35	28	0.08	691	1	0.07	3	0.031	39	< 3	75	10	0.03	< 8	13	2	43
97-407 0400-0420	< .3	1.56	6	5	39	< 3	1.18	0.4	7	8	12	3.6	20	0.55	29	0.2	896	< 1	0.08	3	0.1	28	< 3	144	7	0.05	< 8	41	< 2	91
97-407 0420-0440	0.3	1.31	3	3	32	< 3	1.96	0.4	13	12	14	4.26	15	0.3	31	0.4	1658	1	0.08	5	0.124	22	< 3	84	4	0.17	< 8	52	< 2	85
97-407 0440-0460	< .3	0.68	4	5	30	< 3	1.35	0.3	11	16	23	5.11	10	0.27	26	0.29	1017	3	0.08	8	0.11	22	< 3	40	7	0.13	< 8	49	< 2	73
97-407 0460-0480	< .3	1.28	6	4	45	< 3	1.77	0.3	9	12	15	4.37	10	0.32	29	0.42	899	1	0.1	5	0.105	23	< 3	79	6	0.23	< 8	40	< 2	75
97-407 0480-0500	< .3	1.59	7	6	42	< 3	1.68	0.3	9	10	15	3.97	10	0.26	28	0.56	631	1	0.17	4	0.104	24	4	224	5	0.3	< 8	41	2	83
97-407 0500-0520	< .3	1.58	6	5	53	< 3	1.64	0.4	9	10	15	3.86	20	0.4	33	0.47	766	1	0.15	4	0.108	44	4	118	5	0.29	< 8	38	< 2	94
97-407 0520-0540	< .3	2.13	8	4	34	< 3	1.96	0.3	8	7	10	3.57	15	0.3	31	0.56	742	< 1	0.13	3	0.097	32	3	94	4	0.29	< 8	33	< 2	86
97-407 0540-0560	0.3	1.88	7	4	49	< 3	2.37	0.2	8	8	9	3.99	10	0.28	32	0.43	732	< 1	0.13	3	0.097	36	5	88	6	0.27	< 8	35	2	84
97-407 0560-0580	0.3	2.11	7	4	36	< 3	1.87	0.2	9	9	12	4.1	10	0.26	32	0.65	698	1	0.13	3	0.102	25	4	89	5	0.27	< 8	35	2	92
97-407 0580-0600	< .3	0.77	6	5	44	< 3	1.57	0.2	9	12	20	4.98	10	0.28	30	0.31	949	2	0.09	6	0.106	36	< 3	46	7	0.2	< 8	39	< 2	85
97-407 0600-0620	< .3	0.74	6	4	41	< 3	1.14	< .2	9	13	16	4.87	10	0.29	30	0.3	719	2	0.08	6	0.105	21	< 3	49	7	0.14	< 8	38	< 2	77
97-407 0620-0640	0.4	1.37	7	4	59	< 3	1.64	0.2	8	9	14	4.5	25	0.36	34	0.5	732	1	0.11	4	0.109	24	< 3	79	7	0.22	< 8	30	< 2	83
97-407 0640-0660	0.4	1.52	7	4	37	< 3	2.05	0.3	9	7	11	4.21	25	0.3	34	0.53	802	< 1	0.09	3	0.104	28	< 3	82	6	0.25	< 8	24	< 2	80
97-407 0660-0680	< .3	1.47	7	3	58	< 3	2.34	0.2	9	9	13	4.26	30	0.41	33	0.54	857	1	0.11	3	0.107	28	< 3	73	7	0.23	< 8	30	< 2	88
STANDARD C3	5.5	1.94	52	19	149	21	0.6	22.8	12	175	64	3.38	935	0.17	20	0.61	750	25	0.04	37	0.086	36	18	30	20	0.1	19	87	21	145

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
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FAX: (702) 356-1413

CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
STANDARD G-1	< .3	1.03	< 2	< 3	249	< 3	0.62	< .2	4	87	3	2.02	10	0.51	7	0.63	564	2	0.08	8	0.073	3	< 3	70	4	0.15	< 8	43	< 2	41
97-407 0680-0700	0.4	1.02	10	4	47	< 3	2.25	< .2	7	7	11	3.94	75	0.26	33	0.31	706	< 1	0.07	3	0.104	29	3	56	6	0.25	< 8	24	2	74
97-407 0700-0720	0.3	0.95	10	3	40	< 3	1.84	< .2	8	10	13	4.19	45	0.2	31	0.4	773	1	0.09	5	0.105	26	< 3	54	8	0.18	< 8	30	< 2	77
97-407 0720-0740	< .3	0.61	5	6	36	3	0.88	0.2	10	15	17	5.27	25	0.16	27	0.57	706	3	0.09	7	0.106	22	< 3	36	7	0.1	< 8	42	< 2	80
97-407 0740-0760	0.3	0.62	5	6	32	< 3	1.28	< .2	9	13	20	4.9	25	0.2	29	0.38	937	3	0.08	6	0.105	31	< 3	41	7	0.12	< 8	37	< 2	86
97-407 0760-0780	< .3	1.35	9	3	41	4	1.96	< .2	7	8	11	3.82	25	0.2	33	0.12	531	1	0.1	3	0.107	26	< 3	56	7	0.24	< 8	25	2	68
97-407 0780-0800	< .3	0.8	7	3	45	< 3	1.51	< .2	7	7	11	3.96	30	0.24	32	0.2	526	< 1	0.07	3	0.102	31	3	40	8	0.28	< 8	27	3	73
97-407 0800-0820	0.3	1.45	8	4	40	< 3	2.38	0.2	8	7	12	3.79	15	0.25	31	0.46	754	1	0.09	3	0.099	40	3	71	7	0.19	< 8	28	2	89
97-407 0820-0840	< .3	1.45	9	< 3	38	< 3	2.81	0.2	7	6	9	3.54	25	0.22	31	0.76	879	< 1	0.08	3	0.099	26	< 3	72	6	0.23	< 8	24	2	83
97-407 0840-0860	0.3	0.99	11	4	53	< 3	3.7	0.3	8	9	12	4.01	30	0.25	31	0.76	1195	1	0.08	4	0.097	38	3	75	8	0.2	< 8	26	2	82
97-407 0860-0880	< .3	0.61	5	4	30	< 3	0.97	< .2	9	15	21	5.11	20	0.17	28	0.52	763	3	0.08	7	0.104	34	< 3	40	6	0.16	< 8	36	< 2	81
97-407 0880-0900	< .3	0.91	7	4	47	< 3	1.19	< .2	8	14	21	5.11	15	0.25	29	0.35	789	3	0.1	7	0.103	28	< 3	93	6	0.24	< 8	35	< 2	84
97-407 0900-0920	0.3	1.63	6	11	71	< 3	1.64	< .2	7	6	13	4.14	15	0.37	35	0.44	733	1	0.11	3	0.104	34	< 3	209	4	0.3	< 8	27	< 2	90
97-407 0920-0940	< .3	1.35	6	9	107	< 3	1.73	< .2	6	5	10	3.71	< 10	0.34	34	0.32	855	1	0.08	2	0.099	25	< 3	173	4	0.3	< 8	25	< 2	90
97-407 0940-0960	0.3	1.07	6	9	101	< 3	1.62	< .2	6	4	12	3.57	15	0.4	34	0.27	800	< 1	0.09	2	0.102	26	< 3	132	4	0.23	< 8	22	2	89
97-407 0960-0980	< .3	0.81	6	7	53	< 3	1.62	< .2	6	4	9	3.56	10	0.37	35	0.23	767	1	0.06	2	0.105	19	< 3	95	3	0.1	< 8	21	< 2	86
97-407 0980-1000	< .3	0.65	5	3	172	< 3	1.33	< .2	2	3	9	1.93	15	0.32	30	0.12	513	< 1	0.05	2	0.044	27	< 3	131	4	0.03	< 8	7	< 2	59
97-407 1000-1020	< .3	0.59	5	4	148	< 3	2.03	0.3	1	3	6	1.58	< 10	0.31	28	0.08	690	< 1	0.05	2	0.044	21	< 3	144	5	0.02	< 8	5	< 2	55
97-407 1020-1040	< .3	0.66	5	4	344	< 3	2.47	0.3	2	4	6	1.89	20	0.29	29	0.14	1009	1	0.05	2	0.044	27	< 3	166	6	0.03	< 8	5	2	62
97-407 1040-1060	< .3	0.55	2	3	176	< 3	1.83	0.2	1	4	7	2.2	65	0.28	29	0.09	601	1	0.06	2	0.045	22	< 3	128	7	0.03	< 8	8	< 2	46
97-407 1060-1080	< .3	0.46	4	< 3	115	< 3	3.05	0.5	1	4	10	2.58	30	0.24	29	0.05	806	1	0.05	2	0.043	31	< 3	162	8	0.03	< 8	7	2	29
97-407 1080-1100	< .3	0.57	5	< 3	158	< 3	1.24	0.2	1	6	12	2.96	80	0.25	27	0.04	458	1	0.05	3	0.044	49	< 3	101	9	0.02	< 8	6	< 2	33
97-407 1100-1120	< .3	0.59	10	< 3	118	< 3	0.27	0.2	1	3	8	2.09	160	0.23	22	0.03	168	1	0.03	2	0.043	40	3	87	9	< .01	< 8	3	< 2	41
97-407 1120-1140	< .3	0.65	6	< 3	100	3	0.94	< .2	1	3	6	2.31	70	0.28	25	0.05	670	1	0.04	1	0.043	29	< 3	109	9	0.01	< 8	5	< 2	30
97-407 1140-1160	0.8	0.68	43	< 3	39	< 3	0.31	< .2	2	6	9	3.84	40	0.23	18	0.05	151	24	0.02	4	0.041	59	7	74	7	< .01	< 8	4	< 2	51
97-407 1160-1180	0.3	0.91	14	< 3	54	< 3	0.53	< .2	2	6	15	2.74	95	0.32	22	0.06	550	2	0.04	3	0.043	39	3	92	9	< .01	< 8	4	< 2	47
97-407 1180-1200	0.3	0.92	5	< 3	134	< 3	1.13	< .2	1	8	13	2.85	75	0.39	25	0.06	569	2	0.06	3	0.043	32	< 3	113	10	0.02	< 8	7	< 2	41
97-407 1200-1220	1.5	1.24	54	< 3	23	< 3	0.21	< .2	2	5	8	4.22	75	0.38	21	0.06	142	4	0.03	2	0.041	43	10	73	8	< .01	< 8	5	< 2	62
97-407 1220-1240	1	1.01	89	< 3	45	< 3	0.22	0.2	2	5	7	2.55	25	0.37	20	0.09	95	3	0.03	2	0.031	30	4	111	7	< .01	< 8	4	< 2	70
97-407 1240-1260	0.3	0.91	24	< 3	105	< 3	0.94	0.5	1	7	6	1.75	30	0.4	18	0.1	425	2	0.03	2	0.02	29	< 3	139	6	< .01	< 8	3	< 2	67
97-407 1260-1280	0.7	0.79	49	< 3	98	< 3	0.41	< .2	1	6	8	1.91	15	0.4	17	0.06	190	2	0.03	2	0.017	23	< 3	105	6	< .01	< 8	3	< 2	48
97-407 1280-1300	< .3	1.26	20	< 3	114	< 3	1.91	0.7	11	45	26	3.32	10	0.24	16	0.32	678	3	0.03	50	0.078	15	3	206	3	< .01	18	25	< 2	61
97-407 1300-1320	< .3	2.66	3	3	266	< 3	3.28	0.2	27	231	46	5.04	15	0.23	22	1.09	908	1	0.07	177	0.129	17	< 3	265	3	< .01	< 8	85	< 2	76
97-407 1320-1340	< .3	3.02	13	< 3	352	< 3	4.95	1.4	28	296	46	5.06	25	0.14	22	2.24	1070	4	0.13	186	0.133	14	3	541	3	0.01	< 8	129	< 2	1316
97-407 1340-1360	< .3	2.89	14	< 3	439	< 3	3.98	0.4	29	310	49	4.86	20	0.13	23	2.26	1000	9	0.15	195	0.13	16	5	458	4	0.02	< 8	130	< 2	100

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
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CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
STANDARD C3	5.6	1.99	55	19	152	24	0.61	23.5	12	177	64	3.44	940	0.17	20	0.61	762	26	0.04	37	0.087	35	17	31	20	0.1	17	87	22	145
STANDARD G-1	< .3	1.07	< 2	< 3	254	< 3	0.64	< .2	4	93	3	2.14	< 10	0.51	8	0.63	582	1	0.08	9	0.074	4	< 3	74	4	0.15	< 8	45	< 2	42
97-407 1360-1380	0.3	3.06	9	17	170	< 3	3.45	0.2	29	298	52	5.19	30	0.09	20	2.94	809	3	0.25	189	0.116	9	< 3	466	4	0.04	< 8	116	< 2	70
97-407 1380-1400	0.7	2.26	59	11	91	< 3	3.83	3.9	37	203	52	4.29	60	0.22	20	1.22	663	9	0.09	182	0.117	18	4	361	2	0.01	< 8	92	< 2	107
97-407 1400-1420	0.6	1.96	31	9	162	< 3	3.73	0.6	22	50	51	3.74	40	0.25	9	1.24	724	5	0.05	80	0.078	15	5	395	2	< .01	< 8	69	< 2	110
97-407 1420-1440	0.7	0.7	36	7	157	< 3	4.77	1.6	10	18	67	2.56	35	0.19	4	2.32	1028	3	0.01	52	0.061	12	7	209	2	< .01	< 8	15	< 2	123
97-407 1440-1460	0.4	1.15	22	6	95	< 3	2.74	1.2	12	16	54	2.95	40	0.22	3	1.13	556	7	0.02	54	0.069	17	4	217	< 2	< .01	< 8	25	< 2	179
97-407 1460-1480	0.5	0.49	45	14	87	< 3	8.58	10.5	9	18	65	3.98	60	0.18	2	0.46	376	57	0.01	107	0.091	12	9	551	2	< .01	< 8	39	< 2	928
97-407 1480-1500	0.3	0.45	37	9	70	< 3	8.72	7.1	7	12	50	3.12	75	0.17	2	0.29	390	45	0.01	82	0.082	13	9	542	2	< .01	< 8	30	< 2	597
STANDARD C3	5.4	1.83	53	22	144	21	0.56	22.2	12	165	66	3.27	935	0.15	17	0.56	713	26	0.04	35	0.083	38	16	29	19	0.1	21	82	24	160
STANDARD G-1	< .3	1.06	< 2	< 3	261	< 3	0.61	< .2	5	88	4	2.19	< 10	0.52	6	0.65	577	2	0.08	8	0.075	4	< 3	69	3	0.16	< 8	45	< 2	49

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

(702) 356-0606

INVOICE NO: SP 0046573-IN
INVOICE DATE: 10/17/97

INVOICE TO:
NEWMONT EXPLORATION
ROSEBUD MINE
P.O. BOX 2610
WINNEMUCCA NV 89446

NEWMONT EXPLORATION
ROSEBUD MINE
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.	PROJECT	TERMS
97-407	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
300	SAMPLES RECEIVED	.00	.00
300	DRYING	1.00	300.00
300	JAW CRUSHING CHARGE	1.30	390.00
300	SPLITTING CHARGE	1.20	360.00
300	FINE MILLING CHARGE	2.00	600.00
300	Au (1 A.T. FIRE ASSAY)	8.00	2,400.00
300	HYDROCHLORIC/NITRIC DIGESTION	2.00	600.00
300	Ag ANALYSES	1.00	300.00
300	COMPOSITE CHARGE	1.00	300.00
75	MULTI-ELEMENT ICP PACKAGE	9.80	735.00

NET INVOICE:	5,985.00
LESS DISCOUNT:	1,197.00
FREIGHT:	.00
INVOICE TOTAL:	4,788.00

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Santiago, Chile
Mendoza, Argentina

Company: Newmont Exploration - Rosebud Mine

Address: P.O. Box 2610

City Winnemucca State NV Zip 89446

Telephone Number: (702) 623-6912 Fax Number: (702) 623-6967

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 9/30/97 Number of Samples: 300

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-407	RC	Au/Ag FA/AA each sample (5')
0 - 1500' T.D.		
		and
		ICP pkg on 4-sample composites (20')
		and
		Hg by AA on 4-sample composites (20')

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Bob Kastelic / Randy Vance
Rosebud Mine

Results to:

Rick Lisle - Newmont Exploration
Winnemucca

Randy Vance } Rosebud Mine
Kurt Allen }

Comments:

CLIENT FILE COPY

AMERICAN ASSAY LABORATORIES
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SPARKS, NV 89431
PHONE: (702) 356-0606
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CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-407 0000-0020	< .3	0.85	9	9	127	3	0.4	< .2	3	7	12	2.4	200	0.27	21	0.15	459	1	0.11	4	0.028	39	5	52	10	0.03	< 8	18	< 2	49
97-407 0020-0040	0.4	0.79	9	7	125	< 3	0.39	< .2	3	7	10	2.54	160	0.26	23	0.12	643	2	0.08	4	0.027	29	5	48	11	0.02	< 8	17	2	57
97-407 0040-0060	< .3	0.59	6	5	85	< 3	0.3	0.4	1	4	5	2.48	110	0.23	22	0.06	1392	2	0.05	2	0.022	30	4	34	12	0.02	< 8	11	2	82
97-407 0060-0080	< .3	0.63	12	4	95	< 3	3.97	0.9	1	10	10	2.49	190	0.19	32	0.07	1166	2	0.05	5	0.028	22	3	110	12	0.04	< 8	25	2	84
97-407 0080-0100	< .3	0.52	3	3	30	< 3	1.31	< .2	1	4	6	2.66	30	0.2	38	0.04	662	1	0.05	1	0.029	21	< 3	44	13	0.04	< 8	13	< 2	73
97-407 0100-0120	< .3	0.37	3	3	34	< 3	1.25	0.3	1	5	5	2.61	45	0.14	31	0.03	747	1	0.06	2	0.026	16	< 3	48	12	0.06	< 8	8	< 2	71
97-407 0120-0140	< .3	0.4	5	5	31	< 3	1.03	0.3	1	6	5	2.87	45	0.17	33	0.04	609	1	0.06	2	0.029	16	< 3	50	13	0.05	< 8	12	< 2	73
97-407 0140-0160	< .3	0.44	6	6	25	< 3	0.89	0.3	1	5	5	2.78	85	0.2	31	0.05	759	1	0.06	2	0.029	14	< 3	52	11	0.04	< 8	12	< 2	76
97-407 0160-0180	< .3	0.41	7	6	23	< 3	1.1	0.6	1	5	5	2.76	50	0.19	31	0.04	1186	1	0.06	2	0.029	16	< 3	55	11	0.04	< 8	10	< 2	68
97-407 0180-0200	< .3	0.45	8	6	34	< 3	0.95	0.3	1	4	5	2.71	40	0.2	32	0.03	822	1	0.06	2	0.028	17	< 3	63	11	0.05	< 8	7	< 2	50
97-407 0200-0220	< .3	0.44	10	6	31	< 3	0.9	0.3	1	4	3	2.72	30	0.18	36	0.02	617	1	0.06	1	0.03	21	< 3	68	12	0.05	< 8	6	2	42
97-407 0220-0240	< .3	0.46	5	6	30	< 3	0.87	< .2	1	5	5	2.73	15	0.21	34	0.02	579	1	0.07	2	0.025	22	< 3	57	13	0.04	< 8	8	2	63
97-407 0240-0260	< .3	0.46	7	6	32	< 3	0.95	< .2	1	5	6	2.78	35	0.23	34	0.02	664	2	0.07	2	0.024	27	< 3	52	13	0.05	< 8	6	2	56
97-407 0260-0280	< .3	0.4	8	5	31	< 3	0.75	< .2	1	6	7	3.04	20	0.2	29	0.02	673	2	0.08	3	0.024	29	< 3	41	13	0.06	< 8	5	< 2	57
97-407 0280-0300	< .3	0.36	14	4	29	< 3	1.17	< .2	1	6	7	2.79	25	0.19	26	0.02	833	2	0.07	3	0.021	26	3	47	13	0.05	< 8	6	2	60
97-407 0300-0320	< .3	0.35	13	3	25	< 3	0.89	< .2	1	6	6	2.72	20	0.18	23	0.02	630	2	0.07	2	0.023	27	< 3	43	12	0.05	< 8	5	2	63
97-407 0320-0340	< .3	0.41	7	4	24	< 3	0.85	< .2	1	5	8	2.61	15	0.19	32	0.02	607	2	0.06	2	0.023	25	< 3	45	12	0.05	< 8	7	2	40
97-407 0340-0360	< .3	0.38	5	3	21	< 3	0.75	< .2	1	5	8	2.7	50	0.2	35	0.02	504	2	0.06	2	0.025	28	< 3	45	12	0.04	< 8	10	2	40
97-407 0360-0380	< .3	0.3	5	3	21	< 3	1.19	0.2	< 1	3	5	2.25	30	0.17	35	0.02	529	1	0.05	1	0.024	27	< 3	43	11	0.04	< 8	9	2	34
97-407 0380-0400	0.3	0.82	7	4	40	< 3	1.72	0.2	2	5	8	2.4	25	0.35	28	0.08	691	1	0.07	3	0.031	39	< 3	75	10	0.03	< 8	13	2	43
97-407 0400-0420	< .3	1.56	6	5	39	< 3	1.18	0.4	7	8	12	3.6	20	0.55	29	0.2	896	< 1	0.08	3	0.1	28	< 3	144	7	0.05	< 8	41	< 2	91
97-407 0420-0440	0.3	1.31	3	3	32	< 3	1.96	0.4	13	12	14	4.26	15	0.3	31	0.4	1658	1	0.08	5	0.124	22	< 3	84	4	0.17	< 8	52	< 2	85
97-407 0440-0460	< .3	0.68	4	5	30	< 3	1.35	0.3	11	16	23	5.11	10	0.27	26	0.29	1017	3	0.08	8	0.11	22	< 3	40	7	0.13	< 8	49	< 2	73
97-407 0460-0480	< .3	1.28	6	4	45	< 3	1.77	0.3	9	12	15	4.37	10	0.32	29	0.42	899	1	0.1	5	0.105	23	< 3	79	6	0.23	< 8	40	< 2	75
97-407 0480-0500	< .3	1.59	7	6	42	< 3	1.68	0.3	9	10	15	3.97	10	0.26	28	0.56	631	1	0.17	4	0.104	24	4	224	5	0.3	< 8	41	2	83
97-407 0500-0520	< .3	1.58	6	5	53	< 3	1.64	0.4	9	10	15	3.86	20	0.4	33	0.47	766	1	0.15	4	0.108	44	4	118	5	0.29	< 8	38	< 2	94
97-407 0520-0540	< .3	2.13	8	4	34	< 3	1.96	0.3	8	7	10	3.57	15	0.3	31	0.56	742	< 1	0.13	3	0.097	32	3	94	4	0.29	< 8	33	< 2	86
97-407 0540-0560	0.3	1.88	7	4	49	< 3	2.37	0.2	8	8	9	3.99	10	0.28	32	0.43	732	< 1	0.13	3	0.097	36	5	88	6	0.27	< 8	35	2	84
97-407 0560-0580	0.3	2.11	7	4	36	< 3	1.87	0.2	9	9	12	4.1	10	0.26	32	0.65	698	1	0.13	3	0.102	25	4	89	5	0.27	< 8	35	2	92
97-407 0580-0600	< .3	0.77	6	5	44	< 3	1.57	0.2	9	12	20	4.98	10	0.28	30	0.31	949	2	0.09	6	0.106	36	< 3	46	7	0.2	< 8	39	< 2	85
97-407 0600-0620	< .3	0.74	6	4	41	< 3	1.14	< .2	9	13	16	4.87	10	0.29	30	0.3	719	2	0.08	6	0.105	21	< 3	49	7	0.14	< 8	38	< 2	77
97-407 0620-0640	0.4	1.37	7	4	59	< 3	1.64	0.2	8	9	14	4.5	25	0.36	34	0.5	732	1	0.11	4	0.109	24	< 3	79	7	0.22	< 8	30	< 2	83
97-407 0640-0660	0.4	1.52	7	4	37	< 3	2.05	0.3	9	7	11	4.21	25	0.3	34	0.53	802	< 1	0.09	3	0.104	28	< 3	82	6	0.25	< 8	24	< 2	80
97-407 0660-0680	< .3	1.47	7	3	58	< 3	2.34	0.2	9	9	13	4.26	30	0.41	33	0.54	857	1	0.11	3	0.107	28	< 3	73	7	0.23	< 8	30	< 2	88
STANDARD C3	5.5	1.94	52	19	149	21	0.6	22.8	12	175	64	3.38	935	0.17	20	0.61	750	25	0.04	37	0.086	36	18	30	20	0.1	19	87	21	145

Fp-f (mod)

Fp-b, f (lam)

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CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
STANDARD G-1	< .3	1.03	< 2	< 3	249	< 3	0.62	< .2	4	87	3	2.02	10	0.51	7	0.63	564	2	0.08	8	0.073	3	< 3	70	4	0.15	< 8	43	< 2	41
97-407 0680-0700	0.4	1.02	10	4	47	< 3	2.25	< .2	7	7	11	3.94	75	0.26	33	0.31	706	< 1	0.07	3	0.104	29	3	56	6	0.25	< 8	24	2	74
97-407 0700-0720	0.3	0.95	10	3	40	< 3	1.84	< .2	8	10	13	4.19	45	0.2	31	0.4	773	1	0.09	5	0.105	26	< 3	54	8	0.18	< 8	30	< 2	77
97-407 0720-0740	< .3	0.61	5	6	36	3	0.88	0.2	10	15	17	5.27	25	0.16	27	0.57	706	3	0.09	7	0.106	22	< 3	36	7	0.1	< 8	42	< 2	80
97-407 0740-0760	0.3	0.62	5	6	32	< 3	1.28	< .2	9	13	20	4.9	25	0.2	29	0.38	937	3	0.08	6	0.105	31	< 3	41	7	0.12	< 8	37	< 2	86
97-407 0760-0780	< .3	1.35	9	3	41	4	1.96	< .2	7	8	11	3.82	25	0.2	33	0.12	531	1	0.1	3	0.107	26	< 3	56	7	0.24	< 8	25	2	68
97-407 0780-0800	< .3	0.8	7	3	45	< 3	1.51	< .2	7	7	11	3.96	30	0.24	32	0.2	526	< 1	0.07	3	0.102	31	3	40	8	0.28	< 8	27	3	73
97-407 0800-0820	0.3	1.45	8	4	40	< 3	2.38	0.2	8	7	12	3.79	15	0.25	31	0.46	754	1	0.09	3	0.099	40	3	71	7	0.19	< 8	28	2	89
97-407 0820-0840	< .3	1.45	9	< 3	38	< 3	2.81	0.2	7	6	9	3.54	25	0.22	31	0.76	879	< 1	0.08	3	0.099	26	< 3	72	6	0.23	< 8	24	2	83
97-407 0840-0860	0.3	0.99	11	4	53	< 3	3.7	0.3	8	9	12	4.01	30	0.25	31	0.76	1195	1	0.08	4	0.097	38	3	75	8	0.2	< 8	26	2	82
97-407 0860-0880	< .3	0.61	5	4	30	< 3	0.97	< .2	9	15	21	5.11	20	0.17	28	0.52	763	3	0.08	7	0.104	34	< 3	40	6	0.16	< 8	36	< 2	81
97-407 0880-0900	< .3	0.91	7	4	47	< 3	1.19	< .2	8	14	21	5.11	15	0.25	29	0.35	789	3	0.1	7	0.103	28	< 3	93	6	0.24	< 8	35	< 2	84
97-407 0900-0920	0.3	1.63	6	11	71	< 3	1.64	< .2	7	6	13	4.14	15	0.37	35	0.44	733	1	0.11	3	0.104	34	< 3	209	4	0.3	< 8	27	< 2	90
97-407 0920-0940	< .3	1.35	6	9	107	< 3	1.73	< .2	6	5	10	3.71	< 10	0.34	34	0.32	855	1	0.08	2	0.099	25	< 3	173	4	0.3	< 8	25	< 2	90
97-407 0940-0960	0.3	1.07	6	9	101	< 3	1.62	< .2	6	4	12	3.57	15	0.4	34	0.27	800	< 1	0.09	2	0.102	26	< 3	132	4	0.23	< 8	22	2	89
97-407 0960-0980	< .3	0.81	6	7	53	< 3	1.62	< .2	6	4	9	3.56	10	0.37	35	0.23	767	1	0.06	2	0.105	19	< 3	95	3	0.1	< 8	21	< 2	86
97-407 0980-1000	< .3	0.65	5	3	172	< 3	1.33	< .2	2	3	9	1.93	15	0.32	30	0.12	513	< 1	0.05	2	0.044	27	< 3	131	4	0.03	< 8	7	< 2	59
97-407 1000-1020	< .3	0.59	5	4	148	< 3	2.03	0.3	1	3	6	1.58	< 10	0.31	28	0.08	690	< 1	0.05	2	0.044	21	< 3	144	5	0.02	< 8	5	< 2	55
97-407 1020-1040	< .3	0.66	5	4	344	< 3	2.47	0.3	2	4	6	1.89	20	0.29	29	0.14	1009	1	0.05	2	0.044	27	< 3	166	6	0.03	< 8	5	2	62
97-407 1040-1060	< .3	0.55	2	3	176	< 3	1.83	0.2	1	4	7	2.2	65	0.28	29	0.09	601	1	0.06	2	0.045	22	< 3	128	7	0.03	< 8	8	< 2	46
97-407 1060-1080	< .3	0.46	4	< 3	115	< 3	3.05	0.5	1	4	10	2.58	30	0.24	29	0.05	806	1	0.05	2	0.043	31	< 3	162	8	0.03	< 8	7	2	29
97-407 1080-1100	< .3	0.57	5	< 3	158	< 3	1.24	0.2	1	6	12	2.96	80	0.25	27	0.04	458	1	0.05	3	0.044	49	< 3	101	9	0.02	< 8	6	< 2	33
97-407 1100-1120	< .3	0.59	10	< 3	118	< 3	0.27	0.2	1	3	8	2.09	160	0.23	22	0.03	168	1	0.03	2	0.043	40	3	87	9	< .01	< 8	3	< 2	41
97-407 1120-1140	< .3	0.65	6	< 3	100	3	0.94	< .2	1	3	6	2.31	70	0.28	25	0.05	670	1	0.04	1	0.043	29	< 3	109	9	0.01	< 8	5	< 2	30
97-407 1140-1160	0.8	0.68	43	< 3	39	< 3	0.31	< .2	2	6	9	3.84	40	0.23	18	0.05	151	24	0.02	4	0.041	59	7	74	7	< .01	< 8	4	< 2	51
97-407 1160-1180	0.3	0.91	14	< 3	54	< 3	0.53	< .2	2	6	15	2.74	95	0.32	22	0.06	550	2	0.04	3	0.043	39	3	92	9	< .01	< 8	4	< 2	47
97-407 1180-1200	0.3	0.92	5	< 3	134	< 3	1.13	< .2	1	8	13	2.85	75	0.39	25	0.06	569	2	0.06	3	0.043	32	< 3	113	10	0.02	< 8	7	< 2	41
97-407 1200-1220	1.5	1.24	54	< 3	23	< 3	0.21	< .2	2	5	8	4.22	75	0.38	21	0.06	142	4	0.03	2	0.041	43	10	73	8	< .01	< 8	5	< 2	62
97-407 1220-1240	1	1.01	89	< 3	45	< 3	0.22	0.2	2	5	7	2.55	25	0.37	20	0.09	95	3	0.03	2	0.031	30	4	111	7	< .01	< 8	4	< 2	70
97-407 1240-1260	0.3	0.91	24	< 3	105	< 3	0.94	0.5	1	7	6	1.75	30	0.4	18	0.1	425	2	0.03	2	0.02	29	< 3	139	6	< .01	< 8	3	< 2	67
97-407 1260-1280	0.7	0.79	49	< 3	98	< 3	0.41	< .2	1	6	8	1.91	15	0.4	17	0.06	190	2	0.03	2	0.017	23	< 3	105	6	< .01	< 8	3	< 2	48
97-407 1280-1300	< .3	1.26	20	< 3	114	< 3	1.91	0.7	11	45	26	3.32	10	0.24	16	0.32	678	3	0.03	50	0.078	15	3	206	3	< .01	18	25	< 2	61
97-407 1300-1320	< .3	2.66	3	3	266	< 3	3.28	0.2	27	231	46	5.04	15	0.23	22	1.09	908	1	0.07	177	0.129	17	< 3	265	3	< .01	< 8	85	< 2	76
97-407 1320-1340	< .3	3.02	13	< 3	352	< 3	4.95	1.4	28	296	46	5.06	25	0.14	22	2.24	1070	4	0.13	186	0.133	14	3	541	3	0.01	< 8	129	< 2	1316
97-407 1340-1360	< .3	2.89	14	< 3	439	< 3	3.98	0.4	29	310	49	4.86	20	0.13	23	2.26	1000	9	0.15	195	0.13	16	5	458	4	0.02	< 8	130	< 2	100

Fsp-f

Fp-h,b

Mp-b,h(am)

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CLIENT: *NEWMONT EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046573
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
STANDARD C3	5.6	1.99	55	19	152	24	0.61	23.5	12	177	64	3.44	940	0.17	20	0.61	762	26	0.04	37	0.087	35	17	31	20	0.1	17	87	22	145
STANDARD G-1	< .3	1.07	< 2	< 3	254	< 3	0.64	< .2	4	93	3	2.14	< 10	0.51	8	0.63	582	1	0.08	9	0.074	4	< 3	74	4	0.15	< 8	45	< 2	42
97-407 1360-1380	0.3	3.06	9	17	170	< 3	3.45	0.2	29	298	52	5.19	30	0.09	20	2.94	809	3	0.25	189	0.116	9	< 3	466	4	0.04	< 8	116	< 2	70
97-407 1380-1400	0.7	2.26	59	11	91	< 3	3.83	3.9	37	203	52	4.29	60	0.22	20	1.22	663	9	0.09	182	0.117	18	4	361	2	0.01	< 8	92	< 2	107
97-407 1400-1420	0.6	1.96	31	9	162	< 3	3.73	0.6	22	50	51	3.74	40	0.25	9	1.24	724	5	0.05	80	0.078	15	5	395	2	< .01	< 8	69	< 2	110
97-407 1420-1440	0.7	0.7	36	7	157	< 3	4.77	1.6	10	18	67	2.56	35	0.19	4	2.32	1028	3	0.01	52	0.061	12	7	209	2	< .01	< 8	15	< 2	123
97-407 1440-1460	0.4	1.15	22	6	95	< 3	2.74	1.2	12	16	54	2.95	40	0.22	3	1.13	556	7	0.02	54	0.069	17	4	217	< 2	< .01	< 8	25	< 2	179
97-407 1460-1480	0.5	0.49	45	14	87	< 3	8.58	10.5	9	18	65	3.98	60	0.18	2	0.46	376	57	0.01	107	0.091	12	9	551	2	< .01	< 8	39	< 2	928
97-407 1480-1500	0.3	0.45	37	9	70	< 3	8.72	7.1	7	12	50	3.12	75	0.17	2	0.29	390	45	0.01	82	0.082	13	9	542	2	< .01	< 8	30	< 2	597
STANDARD C3	5.4	1.83	53	22	144	21	0.56	22.2	12	165	66	3.27	935	0.15	17	0.56	713	26	0.04	35	0.083	38	16	29	19	0.1	21	82	24	160
STANDARD G-1	< .3	1.06	< 2	< 3	261	< 3	0.61	< .2	5	88	4	2.19	< 10	0.52	6	0.65	577	2	0.08	8	0.075	4	< 3	69	3	0.16	< 8	45	< 2	49

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xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

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NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW
: RICK LISLE
: RANDY VANCE
: KURT ALLEN

CLIENT REFERENCE No: 97-407

No. SAMPLES : 300

MAIN SAMPLE TYPE : DRILL CUTTINGS

RECEIVED : 1 OCT 1997

REPORTED : 1 OCT 1997

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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 geological 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.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0000-0005	<5		<0.001		<0.5	<0.02
97-407 0005-0010	<5		<0.001		<0.5	<0.02
97-407 0010-0015	<5		<0.001		<0.5	<0.02
97-407 0015-0020	<5		<0.001		<0.5	<0.02
97-407 0020-0025	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0025-0030	<5		<0.001		<0.5	<0.02
97-407 0030-0035	<5		<0.001		<0.5	<0.02
97-407 0035-0040	<5		<0.001		<0.5	<0.02
97-407 0040-0045	<5		<0.001		<0.5	<0.02
97-407 0045-0050	<5		<0.001		<0.5	<0.02
97-407 0050-0055	<5		<0.001		<0.5	<0.02
97-407 0055-0060	<5		<0.001		<0.5	<0.02
97-407 0060-0065	<5		<0.001		<0.5	<0.02
97-407 0065-0070	<5		<0.001		<0.5	<0.02
97-407 0070-0075	<5		<0.001		<0.5	<0.02
97-407 0075-0080	<5		<0.001		<0.5	<0.02
97-407 0080-0085	<5		<0.001		<0.5	<0.02
97-407 0085-0090	<5		<0.001		<0.5	<0.02
97-407 0090-0095	<5		<0.001		<0.5	<0.02
97-407 0095-0100	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0100-0105	<5		<0.001		<0.5	<0.02
97-407 0105-0110	<5		<0.001		<0.5	<0.02
97-407 0110-0115	<5		<0.001		<0.5	<0.02
97-407 0115-0120	<5		<0.001		<0.5	<0.02
97-407 0120-0125	<5	<5	<0.001	<0.001	<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0125-0130	<5		<0.001		<0.5	<0.02
97-407 0130-0135	<5		<0.001		<0.5	<0.02
97-407 0135-0140	<5		<0.001		<0.5	<0.02
97-407 0140-0145	<5		<0.001		<0.5	<0.02
97-407 0145-0150	<5		<0.001		<0.5	<0.02
97-407 0150-0155	<5		<0.001		<0.5	<0.02
97-407 0155-0160	<5		<0.001		<0.5	<0.02
97-407 0160-0165	<5		<0.001		<0.5	<0.02
97-407 0165-0170	<5		<0.001		<0.5	<0.02
97-407 0170-0175	<5		<0.001		<0.5	<0.02
97-407 0175-0180	<5		<0.001		<0.5	<0.02
97-407 0180-0185	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0185-0190	<5		<0.001		<0.5	<0.02
97-407 0190-0195	<5		<0.001		<0.5	<0.02
97-407 0195-0200	<5		<0.001		<0.5	<0.02
97-407 0200-0205	<5		<0.001		<0.5	<0.02
97-407 0205-0210	<5		<0.001		<0.5	<0.02
97-407 0210-0215	<5		<0.001		<0.5	<0.02
97-407 0215-0220	<5		<0.001		<0.5	<0.02
97-407 0220-0225	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0225-0230	<5		<0.001		<0.5	<0.02
97-407 0230-0235	<5		<0.001		<0.5	<0.02
97-407 0235-0240	<5		<0.001		<0.5	<0.02
97-407 0240-0245	<5		<0.001		<0.5	<0.02
97-407 0245-0250	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0250-0255	<5		<0.001		<0.5	<0.02
97-407 0255-0260	<5		<0.001		<0.5	<0.02
97-407 0260-0265	<5		<0.001		<0.5	<0.02
97-407 0265-0270	<5		<0.001		<0.5	<0.02
97-407 0270-0275	<5		<0.001		<0.5	<0.02
97-407 0275-0280	<5		<0.001		<0.5	<0.02
97-407 0280-0285	<5		<0.001		<0.5	<0.02
97-407 0285-0290	<5		<0.001		<0.5	<0.02
97-407 0290-0295	<5		<0.001		<0.5	<0.02
97-407 0295-0300	<5		<0.001		<0.5	<0.02
97-407 0300-0305	<5		<0.001		<0.5	<0.02
97-407 0305-0310	<5		<0.001		<0.5	<0.02
97-407 0310-0315	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0315-0320	<5		<0.001		<0.5	<0.02
97-407 0320-0325	<5		<0.001		<0.5	<0.02
97-407 0325-0330	<5		<0.001		<0.5	<0.02
97-407 0330-0335	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0335-0340	<5		<0.001		<0.5	<0.02
97-407 0340-0345	<5		<0.001		<0.5	<0.02
97-407 0345-0350	<5		<0.001		<0.5	<0.02
97-407 0350-0355	<5		<0.001		<0.5	<0.02
97-407 0355-0360	<5		<0.001		<0.5	<0.02
97-407 0360-0365	<5		<0.001		<0.5	<0.02
97-407 0365-0370	<5		<0.001		<0.5	<0.02
97-407 0370-0375	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046573

American Assay Laboratories

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0375-0380	<5		<0.001		<0.5	<0.02
97-407 0380-0385	<5		<0.001		<0.5	<0.02
97-407 0385-0390	<5		<0.001		<0.5	<0.02
97-407 0390-0395	<5		<0.001		<0.5	<0.02
97-407 0395-0400	<5		<0.001		<0.5	<0.02
97-407 0400-0405	<5		<0.001		<0.5	<0.02
97-407 0405-0410	<5		<0.001		<0.5	<0.02
97-407 0410-0415	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0415-0420	<5		<0.001		<0.5	<0.02
97-407 0420-0425	<5		<0.001		<0.5	<0.02
97-407 0425-0430	<5		<0.001		<0.5	<0.02
97-407 0430-0435	<5		<0.001		<0.5	<0.02
97-407 0435-0440	<5		<0.001		<0.5	<0.02
97-407 0440-0445	<5		<0.001		<0.5	<0.02
97-407 0445-0450	<5		<0.001		<0.5	<0.02
97-407 0450-0455	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0455-0460	<5		<0.001		<0.5	<0.02
97-407 0460-0465	<5		<0.001		<0.5	<0.02
97-407 0465-0470	<5		<0.001		<0.5	<0.02
97-407 0470-0475	<5		<0.001		<0.5	<0.02
97-407 0475-0480	<5		<0.001		<0.5	<0.02
97-407 0480-0485	<5		<0.001		<0.5	<0.02
97-407 0485-0490	<5		<0.001		<0.5	<0.02
97-407 0490-0495	<5		<0.001		<0.5	<0.02
97-407 0495-0500	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046573

American Assay Laboratories

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0500-0505	<5		<0.001		<0.5	<0.02
97-407 0505-0510	<5		<0.001		<0.5	<0.02
97-407 0510-0515	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0515-0520	<5		<0.001		<0.5	<0.02
97-407 0520-0525	<5		<0.001		<0.5	<0.02
97-407 0525-0530	<5		<0.001		<0.5	<0.02
97-407 0530-0535	<5		<0.001		<0.5	<0.02
97-407 0535-0540	<5		<0.001		<0.5	<0.02
97-407 0540-0545	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0545-0550	<5		<0.001		<0.5	<0.02
97-407 0550-0555	<5		<0.001		<0.5	<0.02
97-407 0555-0560	<5		<0.001		<0.5	<0.02
97-407 0560-0565	<5		<0.001		<0.5	<0.02
97-407 0565-0570	<5		<0.001		<0.5	<0.02
97-407 0570-0575	<5		<0.001		<0.5	<0.02
97-407 0575-0580	<5		<0.001		<0.5	<0.02
97-407 0580-0585	<5		<0.001		<0.5	<0.02
97-407 0585-0590	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0590-0595	<5		<0.001		<0.5	<0.02
97-407 0595-0600	<5		<0.001		<0.5	<0.02
97-407 0600-0605	<5		<0.001		<0.5	<0.02
97-407 0605-0610	<5		<0.001		<0.5	<0.02
97-407 0610-0615	<5		<0.001		<0.5	<0.02
97-407 0615-0620	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0620-0625	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046573

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0625-0630	<5		<0.001		<0.5	<0.02
97-407 0630-0635	<5		<0.001		<0.5	<0.02
97-407 0635-0640	<5		<0.001		<0.5	<0.02
97-407 0640-0645	<5		<0.001		<0.5	<0.02
97-407 0645-0650	<5		<0.001		<0.5	<0.02
97-407 0650-0655	<5		<0.001		<0.5	<0.02
97-407 0655-0660	<5		<0.001		<0.5	<0.02
97-407 0660-0665	<5		<0.001		<0.5	<0.02
97-407 0665-0670	<5		<0.001		<0.5	<0.02
97-407 0670-0675	<5		<0.001		<0.5	<0.02
97-407 0675-0680	<5		<0.001		<0.5	<0.02
97-407 0680-0685	<5		<0.001		<0.5	<0.02
97-407 0685-0690	<5		<0.001		<0.5	<0.02
97-407 0690-0695	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0695-0700	<5		<0.001		<0.5	<0.02
97-407 0700-0705	<5		<0.001		<0.5	<0.02
97-407 0705-0710	<5		<0.001		<0.5	<0.02
97-407 0710-0715	<5		<0.001		<0.5	<0.02
97-407 0715-0720	<5		<0.001		<0.5	<0.02
97-407 0720-0725	<5		<0.001		<0.5	<0.02
97-407 0725-0730	<5		<0.001		<0.5	<0.02
97-407 0730-0735	<5		<0.001		<0.5	<0.02
97-407 0735-0740	<5		<0.001		<0.5	<0.02
97-407 0740-0745	<5		<0.001		<0.5	<0.02
97-407 0745-0750	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0750-0755	<5		<0.001		<0.5	<0.02
97-407 0755-0760	<5		<0.001		<0.5	<0.02
97-407 0760-0765	<5		<0.001		<0.5	<0.02
97-407 0765-0770	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0770-0775	<5		<0.001		<0.5	<0.02
97-407 0775-0780	<5		<0.001		<0.5	<0.02
97-407 0780-0785	<5		<0.001		<0.5	<0.02
97-407 0785-0790	<5		<0.001		1.4	0.04
97-407 0790-0795	<5		<0.001		<0.5	<0.02
97-407 0795-0800	<5		<0.001		<0.5	<0.02
97-407 0800-0805	<5		<0.001		<0.5	<0.02
97-407 0805-0810	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0810-0815	<5		<0.001		<0.5	<0.02
97-407 0815-0820	<5		<0.001		<0.5	<0.02
97-407 0820-0825	<5		<0.001		<0.5	<0.02
97-407 0825-0830	<5		<0.001		<0.5	<0.02
97-407 0830-0835	<5		<0.001		<0.5	<0.02
97-407 0835-0840	<5		<0.001		<0.5	<0.02
97-407 0840-0845	<5		<0.001		<0.5	<0.02
97-407 0845-0850	<5		<0.001		<0.5	<0.02
97-407 0850-0855	<5		<0.001		<0.5	<0.02
97-407 0855-0860	<5		<0.001		<0.5	<0.02
97-407 0860-0865	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0865-0870	<5		<0.001		<0.5	<0.02
97-407 0870-0875	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 0875-0880	<5		<0.001		<0.5	<0.02
97-407 0880-0885	<5		<0.001		<0.5	<0.02
97-407 0885-0890	<5		<0.001		<0.5	<0.02
97-407 0890-0895	<5		<0.001		<0.5	<0.02
97-407 0895-0900	<5		<0.001		<0.5	<0.02
97-407 0900-0905	<5		<0.001		<0.5	<0.02
97-407 0905-0910	<5		<0.001		<0.5	<0.02
97-407 0910-0915	<5		<0.001		<0.5	<0.02
97-407 0915-0920	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0920-0925	<5		<0.001		<0.5	<0.02
97-407 0925-0930	<5		<0.001		<0.5	<0.02
97-407 0930-0935	<5		<0.001		<0.5	<0.02
97-407 0935-0940	<5		<0.001		<0.5	<0.02
97-407 0940-0945	<5		<0.001		<0.5	<0.02
97-407 0945-0950	<5		<0.001		<0.5	<0.02
97-407 0950-0955	<5		<0.001		<0.5	<0.02
97-407 0955-0960	<5		<0.001		<0.5	<0.02
97-407 0960-0965	<5		<0.001		<0.5	<0.02
97-407 0965-0970	<5		<0.001		<0.5	<0.02
97-407 0970-0975	<5		<0.001		<0.5	<0.02
97-407 0975-0980	<5		<0.001		<0.5	<0.02
97-407 0980-0985	<5		<0.001		<0.5	<0.02
97-407 0985-0990	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0990-0995	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 0995-1000	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1000-1005	<5		<0.001		<0.5	<0.02
97-407 1005-1010	<5		<0.001		<0.5	<0.02
97-407 1010-1015	<5		<0.001		<0.5	<0.02
97-407 1015-1020	<5		<0.001		<0.5	<0.02
97-407 1020-1025	<5		<0.001		<0.5	<0.02
97-407 1025-1030	<5		<0.001		<0.5	<0.02
97-407 1030-1035	<5		<0.001		<0.5	<0.02
97-407 1035-1040	<5		<0.001		<0.5	<0.02
97-407 1040-1045	<5		<0.001		<0.5	<0.02
97-407 1045-1050	<5		<0.001		<0.5	<0.02
97-407 1050-1055	<5		<0.001		<0.5	<0.02
97-407 1055-1060	<5		<0.001		<0.5	<0.02
97-407 1060-1065	<5		<0.001		<0.5	<0.02
97-407 1065-1070	<5		<0.001		<0.5	<0.02
97-407 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1075-1080	<5		<0.001		<0.5	<0.02
97-407 1080-1085	<5		<0.001		<0.5	<0.02
97-407 1085-1090	<5		<0.001		<0.5	<0.02
97-407 1090-1095	<5		<0.001		<0.5	<0.02
97-407 1095-1100	<5		<0.001		<0.5	<0.02
97-407 1100-1105	<5		<0.001		<0.5	<0.02
97-407 1105-1110	16		<0.001		<0.5	<0.02
97-407 1110-1115	<5		<0.001		<0.5	<0.02
97-407 1115-1120	<5		<0.001		<0.5	<0.02
97-407 1120-1125	<5		<0.001		<0.5	<0.02

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American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1125-1130	<5		<0.001		<0.5	<0.02
97-407 1130-1135	<5		<0.001		<0.5	<0.02
97-407 1135-1140	<5		<0.001		<0.5	<0.02
97-407 1140-1145	<5		<0.001		<0.5	<0.02
97-407 1145-1150	59		0.002		1.7	0.05
97-407 1150-1155	126		0.004		1.0	0.03
97-407 1155-1160	<5		<0.001		<0.5	<0.02
97-407 1160-1165	<5		<0.001		<0.5	<0.02
97-407 1165-1170	95		0.003		<0.5	<0.02
97-407 1170-1175	<5		<0.001		<0.5	<0.02
97-407 1175-1180	<5		<0.001		<0.5	<0.02
97-407 1180-1185	<5		<0.001		<0.5	<0.02
97-407 1185-1190	<5		<0.001		<0.5	<0.02
97-407 1190-1195	<5		<0.001		<0.5	<0.02
97-407 1195-1200	<5		<0.001		<0.5	<0.02
97-407 1200-1205	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1205-1210	46		0.001		0.9	0.03
97-407 1210-1215	50		0.001		1.6	0.05
97-407 1215-1220	106	110	0.003	0.003	2.9	0.08
97-407 1220-1225	64		0.002		1.5	0.04
97-407 1225-1230	83		0.002		1.8	0.05
97-407 1230-1235	<5		<0.001		1.3	0.04
97-407 1235-1240	<5		<0.001		<0.5	<0.02
97-407 1240-1245	<5		<0.001		<0.5	<0.02
97-407 1245-1250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1250-1255	17		<0.001		0.5	<0.02
97-407 1255-1260	<5		<0.001		0.7	0.02
97-407 1260-1265	<5		<0.001		0.7	0.02
97-407 1265-1270	<5		<0.001		0.9	0.03
97-407 1270-1275	<5		<0.001		0.7	0.02
97-407 1275-1280	<5		<0.001		1.0	0.03
97-407 1280-1285	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1285-1290	<5		<0.001		<0.5	<0.02
97-407 1290-1295	<5		<0.001		<0.5	<0.02
97-407 1295-1300	<5		<0.001		<0.5	<0.02
97-407 1300-1305	<5		<0.001		<0.5	<0.02
97-407 1305-1310	<5		<0.001		<0.5	<0.02
97-407 1310-1315	<5		<0.001		<0.5	<0.02
97-407 1315-1320	<5		<0.001		<0.5	<0.02
97-407 1320-1325	<5		<0.001		<0.5	<0.02
97-407 1325-1330	<5		<0.001		<0.5	<0.02
97-407 1330-1335	<5		<0.001		<0.5	<0.02
97-407 1335-1340	<5		<0.001		<0.5	<0.02
97-407 1340-1345	<5		<0.001		<0.5	<0.02
97-407 1345-1350	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1350-1355	<5		<0.001		<0.5	<0.02
97-407 1355-1360	<5		<0.001		<0.5	<0.02
97-407 1360-1365	<5		<0.001		<0.5	<0.02
97-407 1365-1370	<5		<0.001		<0.5	<0.02
97-407 1370-1375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046573

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-407

REPORTED : 1 OCT 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-407 1375-1380	<5		<0.001		<0.5	<0.02
97-407 1380-1385	<5		<0.001		<0.5	<0.02
97-407 1385-1390	<5		<0.001		<0.5	<0.02
97-407 1390-1395	<5		<0.001		1.3	0.04
97-407 1395-1400	<5		<0.001		<0.5	<0.02
97-407 1400-1405	<5		<0.001		<0.5	<0.02
97-407 1405-1410	<5		<0.001		<0.5	<0.02
97-407 1410-1415	<5		<0.001		<0.5	<0.02
97-407 1415-1420	<5		<0.001		1.0	0.03
97-407 1420-1425	<5	<5	<0.001	<0.001	0.9	0.03
97-407 1425-1430	<5		<0.001		0.6	<0.02
97-407 1430-1435	<5		<0.001		0.8	0.02
97-407 1435-1440	<5		<0.001		0.7	0.02
97-407 1440-1445	<5		<0.001		0.6	<0.02
97-407 1445-1450	<5		<0.001		0.6	<0.02
97-407 1450-1455	<5		<0.001		0.6	<0.02
97-407 1455-1460	<5		<0.001		<0.5	<0.02
97-407 1460-1465	<5		<0.001		<0.5	<0.02
97-407 1465-1470	<5		<0.001		<0.5	<0.02
97-407 1470-1475	<5		<0.001		<0.5	<0.02
97-407 1475-1480	<5	<5	<0.001	<0.001	<0.5	<0.02
97-407 1480-1485	<5		<0.001		<0.5	<0.02
97-407 1485-1490	<5		<0.001		<0.5	<0.02
97-407 1490-1495	<5		<0.001		<0.5	<0.02
97-407 1495-1500	<5		<0.001		<0.5	<0.02

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	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
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	1	2	0.01	5	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.

NEWMONT EXPLORATION LIMITED — DRILL HOLE SUMMARY

Project: Rosebud | Location: Boneyard area | Drill Hole No.: RS-407

State: NV | Co.: Pershing | T.: | R.: | S.:

Purpose: Reach basement - Jka | Results: Hit Jka at ~1420. A few anom. Au up to 100ppb.

Date Started: 9/18/97 | Date Finished: 9/25/97

Grid System: State Plane | Northing: 2,204,870 | Easting: 477,740 | Elevation: 5180

Collar Az/Inc.: — / -90 | Drill Site: "F" | Total Depth: 1500'

Geologist(s): RLK | Log Date(s): 10/17/97 | Laboratory: Rosebud

HOLE CONSTRUCTION AND HISTORY — CASING (INTERVAL): None

From	To	Hole Type/Size	Started	Completed	Contractor
0	1500	RC /			ETL/und - J. Welch
		/			
		/			
		/			

LITHOLOGIC SUMMARY				ALTERATION/ MINERALIZATION	SIGNIFICANT ASSAYS				
From	To	Formation	Rock Type		From	To	Width	Au oz/st	Cutoff
0	1080	Choc.	andes/latite	un alt'd					
1080	1300			Bleached	1145	1230	up to 100ppb		

DOWNHOLE SURVEYS

Directional — Date:

Other

Depth (ft)	Azimuth	Inclination
	not surveyed	

Water Table Depth:

Water Flow Rate:

COMMENTS

RC only, not cased since we hit auld Lang Syne

Project: ROSEBUD	State: Nevada	Northing: 2,204,870	Total Depth: 1500
Log'd by: RAK 10/17/97	County: Pershing	Easting: 477,740	Bearing: —
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation: 5,180	Inclination: -90

Hole No. RS-407

Page 1 of 8

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
																																		Boneyard Area South of Dreamland	
20	Every Color																																		Heterogeneous Gravel	20
40	Dk brn Gy																																		Hnbl.? Brn clay to Gy f.g. volc. w/ biotite? phenos phenos 0.1-0.2 mm	40
60	Lt. Gy																										1 1								Gy volc. rk w/ hnbl/biot specks Salt & pepper appearance some Hnbl. grains up to 0.5 mm	60
80																																				80
100	Dk red																								4	3									F.G. Hvy ox volcanics - Salt & Pepper Hnbl. Phenos up to 0.5 mm	100
120																																				120
140																																				140
160	Lt. Gy to Dk red																								2 2										Gy salt & pepper Hnbl. Pheno - Volc rk	160
180	Dk red																								3											180

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: DGL 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 2 of 9

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Dk Red																								3										Lith. as above. Lt Gy wk staining by oxidation.	
200																																				200
	Dk red-Gy																								2											
220																																				220
240																																				240
																									1											
260																																				260
280																																				280
300																																				300
	mostly Gy some dk rd																								1											
320																																				320
340	Med-Gy																																			340
360																																				360

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAK 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 3 of 9

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Med-Lt Gy													//										–										Lith as above	
														//										–											
380														//										/											380
														//										2											
	Dk Med to Gy													//										3											
400														//										3											400
														//															2						
	Grey													//															2						
	V. dk Gray												//																					Nearly black vesicular volcanic rk	
420													//																					Green mineral in vessicles	420
													//																						
													//																						
													//																						
440													//											/											440
													//											/											
													//											/											
													//																						
460													//																						460
													//																						
													//																						
													//																						
480													//																						480
													//																						
													//																						
													//																						
500													//																						500
													//																						
	Dk Grn Gy												//																						
													//																						
520													//																						520
													//																						
													//																						
	Nearly Black												//																						
540													//																						540

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAL 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 4 of 9

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Nearly Black												//																					DK volc. rk as above. Less Vesicular	
560													/																						560
580													/																						580
600													//																						600
620													/																						620
640	Rd brn												/	//										3	1									Salt & Pepper Hbl.-bear Volcanic RK (Contam ?)	640
660														/																					660
680														/																					680
700														/																					700
720	DK Gy												//	/										2 /										Massive aphanitic Volc. rk, dk Gy	720

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RBK 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 5 of 9

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	DK Gy												//																						Dark nondescript aphanitic Volc. rk	
740													/																							740
													/																							
760													/																							760
	DK Pink Gy													//											1										F.G. salt & Pepper aphanitic Volc. rk mottled appearance - poss. due to slight bleaching?	
780														//																						780
														//																						
800														//																						800
														//																						
820														//																						820
														//																						
840														//																						840
														//																						
860	DK Gy												//																						DK f.g. - massive rk	860
													//																							
880													//																							880
													//																							
900	Lt Grn Gy												//																	2						900

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAL 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 6 of 9

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Dk brn Gy												1/1																						DK brn Gy massive aphanitic RK	
	Dk Grn													1/																					Grn Gy Salt & Pepper intermed. Vole. sl. bleaching causing green color (?)	
920														1/																						920
														1/																						
														1/																						
														1/																						
940														1/																						940
														1/																						
														1/																						
														1/																						
960														1/																						960
														1/																						
														1/																						
														1/																						
980														1/																						980
	Lt Grn Gy													1/															2						F. G. Massive Lt Grn MC - poss. bleched? (in places)	
														1/																						
														1/																						
														1/																						
1000														1/																						1000
														1/																						
														1/																						
														1/																						
1020														1/																						1020
														1/																						
														1/																						
														1/																						
1040														1/																						1040
														1/																						
														1/																						
														1/																						
	Dk Or. Brn													1/											3											
1060	Lav. Gy													1/											1											1060
														1/											1											
														1/											1											
														1/											1											
														1/											1											
1080														1/											1											1080

Rclog02 xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RAK 10/17/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 7 of 9

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH	
	Lav, Gy																																		Lith as above. Massive F.G. Volcanic.		
	↓																																				
	Ol. Grn																										1	4							Bleached massive argillitic rk		
1100																												4							scattered lenoxene	1100	
																											2								grains throughout.		
1120																																				1120	
																											1								vesicular		
	↓																										1	↓							"		
	Gray																											2									
1140	LT. Ol. Grn																										1	4								1140	
																											1										
																								2			3								bleached sulf-Marc?		
																											2									
1160																											2									1160	
																											1										
																											1										
1180																																				1180	
																												↓									
	Gy																											1									
	Brn Gy																											1									0
1200	Ol. Grn																											4								1200	0
	V. Pale Grn																										1										
																											4								Disseminated		46
																											5								-bleached marc.,		50
1220																											4								tiny	1220	106
																											3										64
																											2										83
																											1										0
1240																																				1240	0
																								2			3								-marc.,		
																								3			2								tiny		
1260																								2			2									1260	

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: 10/17/97 RJK	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 8 of 9

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	V. Pale Grn																							3			2	4							alt'd RK as above -marcasite, Tiny pyrite	
																								2			2									
																								2			2									
1280	Tan																							1												1280
	"																														3					
	Lt Grn																										1				2					
																											1									
1300	Dk. Grn																											2	3				3		Part. blch. aphanitic vol/c. rk	1300
																																			Green Salt & Pepper biot/hbl porphyritic volcanic rk	
1320																																				1320
1340																																				1340
1360	Dark Dk. Grn																																			1360
1380																																				1380
	Dk. Grn																											2								
1400																												2								1400
																																			mixed blk shale & Green volcanic rk	
	Black																																		"	
1420																																			Gray siltstone & Shale some volc. chips	1420
																																			"	
																																			Blk platy shale "	
1440																																				1440

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. RS-407
Log'd by: RJK 10/17/97	County: Pershing	Easting:	Bearing:	Page 9 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA FLOW	AUTOBXA	INTRUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	BRECCIA	CHALCEDNY	CLAY		FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Black										//																								Platy shale as above	
	↓										//																1									
1460	Gray													((//														3					2		– bleached vole. HK	1460
	Black										//																					2				
											//																					2				
1480											//																									1480
											//																					2				
											//																									
											//																					3				
1500											//																					3				1500
																																			TD 1500'	

Rclog02.xls

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

(702) 356-0606

INVOICE NO: SP 0046573-IN
INVOICE DATE: 10/17/97

INVOICE TO:
NEWMONT EXPLORATION
ROSEBUD MINE
P.O. BOX 2610
WINNEMUCCA NV 89446

NEWMONT EXPLORATION
ROSEBUD MINE
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.	PROJECT	TERMS
97-407	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
300	SAMPLES RECEIVED	.00	.00
300	DRYING	1.00	300.00
300	JAW CRUSHING CHARGE	1.30	390.00
300	SPLITTING CHARGE	1.20	360.00
300	FINE MILLING CHARGE	2.00	600.00
300	Au (1 A.T. FIRE ASSAY)	8.00	2,400.00
300	HYDROCHLORIC/NITRIC DIGESTION	2.00	600.00
300	Ag ANALYSES	1.00	300.00
300	COMPOSITE CHARGE	1.00	300.00
75	MULTI-ELEMENT ICP PACKAGE	9.80	735.00

NET INVOICE:	5,985.00
LESS DISCOUNT:	1,197.00
FREIGHT:	.00
INVOICE TOTAL:	4,788.00

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Exploration - Rosebud Mine

Address: P.O. Box 2610

City Winnemucca State NV Zip 89446

Telephone Number: (702) 623-6912 Fax Number: (702) 623-6967

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 9/30/97 Number of Samples: 300

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-407	RC	Au/Ag FA/AA each sample (5')
0 - 1500' T.D.		
		and
		ICP pkg on 4-sample composites (20')
		and
		Hg by AA on 4-sample composites (20')

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Bob Kastelic / Randy Vance
Rosebud Mine

Results to:

Rick Lisle - Newmont Exploration
Winnemucca

Randy Vance } Rosebud Mine
Kurt Allen }

Comments:

CLIENT FILE COPY

NEWMONT GOLD COMPANY
ROSEBUD J.V.

To: Whomever Date: November 23, 1998

From: George Langstaff

Subject: **GL's Descriptive Rock Nomenclature for Rosebud Logging**

Rocks are identified as felsic volcanic rock (F), mafic volcanic rock (M), tuff (T), breccia (B), or sedimentary rock (S) as follows:

A. **Volcanic Rocks** (dominantly aphanitic)

1. Root Name – Composition
   - **F** – felsic, few mafic minerals (e.g., trachyte, dacite)
   - **M** – mafic, more mafic minerals (e.g., andesite, trachyte)
2. Prefix - Structure
   - **b** – brecciated (includes flow breccia as well as strongly fractured rock)
   - **s** – pseudobreccia (formed by alteration along fractures)
3. 1st Suffix – Texture
   - **a** – aphyric (no phenocrysts >=1 mm)
   - **p** – porphyritic
     - distinctive varieties:
     - **sp** – sparsely porphyritic (=<1% phenocrysts)
     - **cp** – coarsely porphyritic (some phenocrysts >4 mm)
   - a. 2nd Suffix – Minerals (precede with dash; if more than one, list from least to most abundant, left to right, e.g., Fp-q,p,k)

q – quartz	**b** - biotite
f – feldspar	**h** - hornblende
p – plagioclase	**y** - pyroxene
k - K-feldspar	**o** - olivine

4. Parentheses – Descriptive Features

am – amygdaloidal	**sp** - spherulitic
bd – banded	**ve** - vesicular
gl - glassy	
lm – laminated (planar features =<2 mm)	
mmb – contains mafic magma blobs	

Examples: Mcp-y,p – coarsely porphyritic pyroxene < plagioclase-phyric basalt
bFa – brecciated, aphyric rhyolite
Fsp-f(mmb) – sparsely porphyritic, feldspar(can't be identified)-phyric latite with mafic magma blobs

Note: Alteration can eliminate mafic phenocrysts, can make K-feldspar and plagioclase indistinguishable, and can make porphyritic rocks appear to be aphyric.

The abundance of phenocrysts can vary within the same unit and some types of phenocrysts (e.g., quartz) may not be present everywhere.

B. **Pyroclastic Rocks**

1. Root Name
   T - Tuff
2. 1st Suffix – Fragment Type (if more than one, list from least to most abundant left to right and separate by slashes, e.g., Tv/c)
   a – ash (=<2 mm by definition but more useful to identify pyroclasts >=1 mm as lithic, vitric, or crystal)
   b - blocks ± lapilli ± ash (>6.4 cm)
   l - lithic lapilli ± ash
   v - vitric lapilli ± ash (icludes shards and pumice)
   c - crystal lapilli ± ash
   a. 2nd Suffix – Minerals
   see A.3.a. above
3. Parentheses – Descriptive Features
   lp - lithophysal
   sw - strongly welded
   ww - weakly welded
   and see A.4. above

Examples: Ta – ash tuff
Tl/c-q,k – lithic < crystal lapilli-ash tuff with quartz < sanidine phenocrysts

C. **Breccias** – if extrusive, pyroclastic, or sedimentary origin is uncertain; otherwise use protolith root name; can include fault breccias if protolith is uncertain

1. Root Name
   B - Breccia
2. 1st Suffix – Number of Clast Types
   m – monomict
   p - polymict
3. 2nd Suffix – Support
   c – clast-supported
   x – matrix-supported
4. 3rd Suffix – Rounding of Clasts
   r – rounded
   s – subrounded to subangular
   a – angular

Examples: Bmca – monomict, clast-supported breccia with dominantly angular clasts
Bpxa/s – polymict, matrix-supported breccia with subrounded clasts more abundant than angular clasts

D. Sedimentary Rocks

1. Root Name
   - **S** – clastic sedimentary rock
2. 1st Suffix – Dominant Clast Size
   - **c** – conglomerate (>2 mm)
   - a. Prefix – Support
     - **c** – clast-supported
     - **x** – matrix-supported
   - **s** – sandstone (.0625 to 2 mm)
   - **m** – mudstone (<.0625 mm, includes silt and clay)
3. 2nd Suffix – Secondary Clast Size (if more than one, list from least to most abundant and separate by slashes, e.g., Sst/p)
   - **p** – pebbly, conglomeratic
   - **n** - sandy
   - **d** - muddy
   - **t** - tuffaceous
4. 3rd Suffix – Structure
   - **1** - massive (beds >10 m thick)
   - **2** - thick-bedded (.05-10 m thick)
   - **3** - medium-bedded (.01-.05 m thick)
   - **4** - thin-bedded (1-10 cm thick)
   - **5** - laminated (<1 cm thick)
5. Parentheses – Descriptive Features
   - **bt** - bioturbated
   - **cs** - cross stratification
   - **fs** - fossils
   - **gn** - normally graded bedding
   - **gr** - reversely graded bedding
   - **sf** - syn-sedimentary folds

Examples:

xSct1 – tuffaceous, matrix-supported conglomerate without apparent bedding

Ssd4(gn) – thin-bedded, muddy sandstone with normally graded bedding

Sm – massive mudstone