6000 0885

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. 97-405
AUTHOR	G. Langstaff; S King; C Ballew; R. Liste; R. Allen
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; Rosebud Project; Newmont Gold Co; Santa Fe Pacific Gold Corp; Newmont Exploration Ltd Rosebud Joint Venture
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; geochemistry; total depth 1500'; receipt; handwritten notes; correspondence; drill hole summary 66p.

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

SS: DD 5/5/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

97-405

6000 0885
4010

6000 0885

SANTA FE PACIFIC GOLD — DRILL HOLE SUMMARY

Project: Rosebud Location: Dreamland Drill Hole No.: 97-405

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

Purpose: Deep Exploration Results:

Date Started: 8/20/97 Date Finished: 8/24/97

Grid System: state Northing: 2,207,980 Easting: 478,920 Elevation: 5762

Collar Az/Inc.: — / -90 Drill Site: RB-8 Total Depth: 1500

Geologist(s): RDL Log Date(s): 10/16/97 Laboratory: Rosebud Mine

HOLE CONSTRUCTION AND HISTORY CASING (INTERVAL): None

From	To	Hole Type/Size	Started	Completed	Contractor
0	1500	RC 155/8	8/20/97	8/24/97	Eklund - J. Welch
		/			
		/			
		/			

LITHOLOGIC SUMMARY				ALTERATION/ MINERALIZATION
From	To	Formation	Rock Type	

SIGNIFICANT ASSAYS				
From	To	Width	Au oz/st	Cutoff
0	150		anom XX ppb	
345.	395		100-200 ppb	
850	920		<100 w/spike up to 200ppb	

DOWNHOLE SURVEYS

Directional Date:

Other

Depth (ft)	Azimuth	Inclination

Water Table Depth:

Water Flow Rate:

COMMENTS

Drilled to test deep potential NW of Dreamland mine.
Results: anomalous smoke. Did not reach JTRa basement

Newmont Gold Rotary Form

Hole# 97-405
Logged by G. Langstaff
Date 3/30/99
Area Dreamland
Coords
Az/Incl -90
Total Depth 1500
Contractor

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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
											bleached chips in red mud	0	1	0	0	0	0	3		0	0	2	
											pasty-white phenos up to 2mm in some chips													
											muddy, matrix-supported conglomerate											1		
20																						0		
													most chips bleached											
40											pasty white to pale green prismatic pheno													
60			very pale and brick red																					
80																								
100		x Sed																						
120											lots of red clay			tr										
											big chips no mud — probable mmb some clastic chips							2						
			brownish red								little mud some chips with matrix(red)-supported textures											1		
140											biotite flakes in red mud			0	few chips bleached							2		
											chip with with 2mm vitreous feldspar and micro-hornblende							1						
160											common clastic textures													
											probable mmb													
180			reddish-brown + med. grey																					
200											soft mud chips > hard chips													

Newmont Gold Rotary Form

Hole# 97-405 | Az/Incl -90 | Page 2 of 8

Logged by G. Langstaff | Area Dreamland | Total Depth 1500

Date 3/30/97 | Coords | Contractor

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	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
200												0	0	0	0	0	0	1			0	0	2	
220											chip with mmb, few clastic chips													
240											4cm mmb in one chip													
											still a few mud chips with embedded sand grains													
260			reddish brown ± grey																					
280		x Sed									still several clastic chips												1	
300			very pale and pale brown								several clastic chips with bleached clasts and matrix		1					0			1			
											rare chip with vitreous feldspar										2			
											grey chip with 3mm vitreous feldspar										1		2	
																							1	
320		Fpy, Fhmb	dark red-grey								5+mm mmb with nonoriented microlites		0					tr			0		2	
											qtz phenos ~1mm, vitreous feldspar <2mm circular features in aphanitic matrix <2mm diameter												1	
											dark quartz ~.5mm												0	
											mostly clast-supported sandy conglomerate		1					0			1			
340																								
											pyrite cubes in quartz		1										1	
											unidentifiable											tr	0	
											vein calcite		0										2	
360		Sen	very pale brown																			0	0	
											possibly some pyrite after marcasite													
380																					1½			
			1+ 2 grey								relatively unaltered grey volcanic chips										1			
													2											
400			red-grey										1					tr			0			

Newmont Gold Rotary Form

Hole# 97-405 **Az/Incl** -90 **Page** 3 of 8

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

Date 3/30/99 **Coords** **Contractor**

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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
400		Sen?	red grey									0	0	0	0	0	0	tr			0	0	1	
		Fp-f(mmb)	mostly medium grey								green and white phenos and mmb — vein calcite												2	
420											4mm vitreous feldspar, loose 3mm mmb with nonoriented mineralites													
											more sandy conglomerate													
440																								
460		Sen	reddish grey								chips with green amygdales up to 2mm													
480		Fp-f(Kfs) (am)	dark brownish grey								~2% green amygdales, possibly <1% green mafic phenos <1mm													
500											white and vitreous feldspar(?) phenos ≤1mm + amygdales												2	
		Fp-f(Kfs)(mm)									white clay veins, more white feldspar phenos up to 3mm rare green amygdales, and vitreous? feldspar													
520											~1% feldspar, rare green mafic phenos? feldspar clots up to 3mm													
540											vitreous feldspar 1.5mm and white feldspar													
560											some soft green clayey chips													
		Fp-f(Qtz) (am)	grey								rare or no feldspar phenos, more green specks - some probably amygdales				1			0						
580											vitreous feldspar?				0			tr						
			dark grey ± red								complex blebby textures look almost clastic but may be primarily amygdaloidal													
600											more feldspars (white)													

Newmont Gold Rotary Form

Hole#	97-405	Az/Incl	-90	Page	
Logged by	G. Langstaff	Area	Dreamland	Total Depth	1500
Date	3/30/99	Coords		Contractor	
					4 of 8

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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
600		Fp-f(Gn)	dark reddish grey									0	0	0	0	0	0	xr			0	0	2	
											no? amygdales												3	
620		Fp-f									~1% white feldspar up to 2mm												2	
																							3	
			grey								lots of soft clay but some feldspar phenos and not obviously clastic			1-2				0						
640																								
											hard chips do look somewhat clastic			xr										
		Sor Fp-f?									prominent green biotite as well as white feldspar phenos	1									1		2	
660			greenish brown to grey																					
680											change to smooth aphanitic texture, possibly mafic phenos <1mm but no? feldspar										xr			
		Fp-b?	Fp-b?																					
		Fp-f	brown grey								~1% white feldspar		0	0				xr			0			
		Fp-b?	green-brown									xr	xr					0						
700											≤1% feldspar and <<1% biotite phenos		0	0				xr					1	
		Fp-b, f	dark red-grey																				2	
720											2mm vitreous feldspar													
740											prismatic and equant mafic phenos .5±mm white feldspar 1mm													
760																								
780		Fpg, f(Gn)	moderate grey-red								rounded quartz <1mm, 3mm max							1						
											rare feldspar ≤1mm													
		Sc	pale grey								clast-supported conglomerate			1				0						3
800																								

Newmont Gold Rotary Form

Hole# 97-405 **Logged by** G. Langstaff **Date** 3/30/99

Area Dreamland **Coords**

Az/Incl -90 **Total Depth** 1500 **Contractor**

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
800			pale grey								few clastic chips, darker grey matrix	0	1	0	0	0	0	0			0	0	3	
											biotite in red and grey chips		tr					tr					2	
											common clastic textures													
820											common fresh biotite													
		CSC	pale grey and red																					
840											fresh biotite, 1 pasty-white pheno rock unidentifiable		2					0			1			
													1											
											dominantly clastic chips													
											rare biotite												0	
860											~1% pasty-white mafic? phenos													
											pyrite/calcite vein													
												vein calcite											1	
											pasty white prismatic pheno 1mm													
880		Fp-h, δ	Very pale brown, grey, pink								pyrite/calcite + white clay vein	loose clay in sample	2										2	
											pasty white prismatic pheno 2mm		1											
900																							1	
											common pasty white phenos ≤ 1mm												0	
920																							1	
											fresh, green and pasty-white biotite?										tr		2	
940			grey red																					
											red fractures in breccia to 985												1	
											relatively fresh and pasty white biotite							tr					2	
960																							1	
			very pale grey brown								stronger brecciation, rare biotite													
980																								
											mixture of medium grey, dark red, very pale brown, orange brown chips – due to contamination?													
1000																								

Newmont Gold Rotary Form

Hole# 97-405 **Az/Incl** -90 **Page** 6 of 8

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

Date 3/30/97 **Coords** **Contractor**

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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
		Fp-Lib	pale orange brown								mixed chips	0	1	0	0	0	0	tr			1	0	1?	
											rare green to pasty white diorite <1mm													
1020		Sen	dk red gray etc.								mixture of chips suggests contamination Clast and matrix-supported sandy conglomerate		0								0		2	
			pale gray, brown etc.										1					0			tr		3	
1040											minor brecciation, apparently aphyric rock										1		2	
		b Fa (mmb)											0					tr			0			
1060			reddish grey								possible loose mmb 4mm													
1080																							3	
1100																							2	
											3mm mmb													
1120											some clastic chips - breccia?													
1140																								
1160											common brecciated chips, probable loose mmb													
1180																								
		Fg	-? v. pale green-gray				-?-				no unambiguous mmb			1	tr			0			tr			
1200																							2	

Newmont Gold Rotary Form

Hole# 97-405 **Az/Incl** -90 **Page** 7 of 8

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

Date 3/30/97 **Coords** **Contractor**

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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/[illegible]	Mineralogy: Clay
1200		Fa	mix	vi. pale green-grey							mostly less altered chips – contamination or in place?	0	0	0	0	0	0	tr			0		2	
											qphyric		tr	tr				0						
											greyer mmb in greener chip ?													
											grey feldspar < 1 mm													
1220			very pale to medium-grey ± vi. pale brown								1CM		1	0										
											1CM													
1240													tr											
1260			grey and pale grey										1	tr							tr			
1280			pale and very pale greenish grey																				3	
																							2	
1300													tr										3	
1320																					0		2	
											vein calcite, possible mmb												3	
1340		Fa (mmb)	grey and pale greenish-grey											0									2	
											possible mmb mixed chips			tr							tr			
											definite mmb in grey chips < 2mm													
1360			very pale and pale greenish-grey																					
1380											chip of marcasite + calcite vein – in place?												1	
1400											possibly clastic or breccia												2	

Newmont Gold Rotary Form

Hole# 97-405
Logged by G. Langstaff
Date 3/30/99
Area Dreamland
Coords
Az/Incl -90
Total Depth 1500
Contractor
Page 6 of 8

Footage	Lithe: Formation	Lithe: Rock type	Lithe: 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
1400		bFa, possibly Ssp	very pale greenish grey								some clastic textures	0	1	tr	0	0	0	0			tr	0	2	
1420																								
											some pale pinkish orange chips with pyrite												1	
1440											pale circular spots in greener matrix												2	
											rare caraway seed texture												1	
1460		bFa?	pale and very pale greenish grey								some clastic textures													
1480											lots of sand-size chips													
																					1			
1500											vein calcite													

Project: ROSEBUD	State: Nevada	Northing: 2207, 980	Total Depth: 1500'	Hole No. 97-405
Log'd by: RRL 10/16/97	County: Pershing	Easting: 478, 920	Bearing: —	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation: 5,762	Inclination: -90	Page 1 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	CONGLOM	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
		LITHOLOGY																			STRUCT			ALTERATION & MIINERALIZATION											DESCRIPTION	
																																			Dreamland Target Same Site as RB-8	
20	Red-orng																								3										Red clay, silic-tuff. Bedder(?) conglom.	20
40																																				40
60																																				60
80																																				80
100																																				100
120																																				120
140	Purp (Gy) DKL rd																																		Purp. Gy dark aphanitic volc. w/ tiny bladed mafics - Latit? HGL?	140
160	DKL purp Gy																																		mostly clay Hornblende Latite (?) E. G. Volcanics Intermed.	160
180																																				180

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RAK 10/18/97	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 pump Gy													/																				F.G. volc. as above	
	↓													/										1											
200	DK red													/					1/					2										-DK red clay	200
	DK vol Gray													/										1											
														/										/											
														/					1/					2											
220														/					1/					/											220
														/																					
														/																					
														/																					
														/										1											
240														/																					240
														/																					
	med.													/										2											
	Gray													/																					
260														/																					260
														/																					
														/																					
														/																					
280														/																					280
														/																					
														/																					
														/																					
	↓													/																					
300	Lt tan Gy																///										3							-Breccia, Tuff?	300
	Pink Tan																///									4	3		3					-Pyo clay	
																											2		2					Part. bleed	
																	//										3		1						
320	↓																//									2	3			3				-Silic matrix bnx	320
	DK Gy												///																					extr. f.g. aphanitic volc.	
	↓												/																					↓	
340	Lt Tan												/				//										4			3				micro breccia	340
																	//																	↓	
				//													/									3								V. felsic granular rk. F.G. Tuff?	
				//													/																	micro bnx?	
360				//													/																		360

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RJK 10/16/97	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
	Pink Gy																//										3	4			4				microbreccia – silic. matrix	
	v.Lt Gy																//										3									
																	//										3									
380																	//										4									380
																	//																			
																	//																			
																	//												2							
400	DK Lav. Gy													//											1									F.G. Volc. rk – not much alt.	400
														/																						
														/																						
														/																						
420														/																						420
														/																						
														/																						
														/																						
440	Brn Gray							//																	2										Clasts 1-2 mm – poss. lith. tuff	440
								//																	/											
								//																	/											
	DK Gy							//																												
460								//																												460
								//																												
								//																											Vesicular f.G. volcanic – Green vessicle fillings	
													//																							
480													//																							480
													//																							
													//																							
500													//																							500
													//																						white vessicles	
													//																							
													//																							
520	DK Brn												//																							520
													//																							
													//																							
													//																						Massive aphanitic dk brn rock	
540													//																							540

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. P7-405
Log'd by: RJL 10/16/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 4 of 9

DRILLING NOTES

DEPTH	COLOR	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												//																						Lithol. as above	
560													/																							560
580													/																							580
600													/																							600
620													/																							620
640	Dk Green												/																							640
660													/																							660
680													/															2 / / / 2								680
700													/															↓ 2								700
720	v.dk Gy												//																							720

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RAL 10/16/97	County: Pershing	Easting:	Bearing:	Page 5 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
740	V. dk Gy												/																						dark aph. volc. rk as above	740
760													/																							760
780	Rd brn												/												2			1								780
800	Green Gray												/												3			2							Bleached	800
													/												3			2								
													/															3		2						
													/															3		3					-avg. - soft	
820	Gray + Rd brn												/															3		4						820
													/															2		4						
													/															2		2						
840													/																							840
													/																	2						
													/																	4						
860	Gray Gy												/															3		4						860
													/														2	3		3						
													/														1	3		4						
	Tan																	1									2	4			3				mostly Silica - replacement (?) or chalced. ?	
880																		1																		880
																		1												3						
900																		1																		900

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: R2K 10/16/97	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
920	Pink-Tan																	1														4				Silicified (something). Occ'l phenos noted of plag 1-2 mm. not much py.	920
940	Lt Grn Gy																	1														3					940
960																		1											5							Bleached out aphanitic volcanic rk	960
980	Pink Tan																																				980
1000	Every Color																																			Total Contamination	1000
1020	Tan LT Grn Gy																1															4				Siliceous matrix breccia, clasts too, often	1020
1040																	1											1								(Could this be contamination?)	1040
1060	Dk red Gy												1				1											2								Unalt. aphanitic massive volc rk	1060
1080													1																								1080

Rclog02.xls

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RAIL 10/16/97	County: Pershing	Easting:	Bearing:	Page 7 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	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 rd Gy												//																						Lith as above.	
1100																																				1100
1170																																				1170
1140																																				1140
1160																																				1160
1180																																				1180
1200	Pale Grn																																		Rhyolite? Poss. tuff & z grnts	1200
1220																																				1220
1240																																				1240
1260	Med Gy																																		-Poss. Cenozoic. More mafic? -biot.	1260

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RAK 10/16/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	Page 8 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
	Lt Grn Gy																																	Rhyolite (?) as above. Felsic, pass. f.g. qtz	
1280																																				1280
1300																																				1300
1320	Grn Gray																																	Salt & pepper text. - tiny biot. phrams		1320
1340																																				1340
1361	Gray Lt Green																																	Pale felsic rk, rhyolite?		1360
1380																																				1380
1400																																				1400
1420																																				1420
1440																																				1440

Project: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-405
Log'd by: RJK 10/16/97	County: Pershing	Easting:	Bearing:	Page 9 of 9
UTM# NK 11-10-06	Sec. T. N, R. E	Elevation:	Inclination:	

DRILLING NOTES

DEPTH	COLOR	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
	Pale Green															//																		as above	
1460																/																			1460
																/																			
1480																/																			1480
																/																			
1500																//																			1500
																																		TD= 1500'	

Rclog02.xls

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

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: 97-405 RECEIVED : 27 AUG 1997

No. SAMPLES : 300 REPORTED : 27 AUG 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 SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0000-0005	42		0.001		<0.5	<0.02
97-405 0005-0010	36		0.001		<0.5	<0.02
97-405 0010-0015	40		0.001		<0.5	<0.02
97-405 0015-0020	28		<0.001		<0.5	<0.02
97-405 0020-0025	25		<0.001		<0.5	<0.02
97-405 0025-0030	21		<0.001		<0.5	<0.02
97-405 0030-0035	24		<0.001		<0.5	<0.02
97-405 0035-0040	34		<0.001		<0.5	<0.02
97-405 0040-0045	36		0.001		<0.5	<0.02
97-405 0045-0050	30		<0.001		<0.5	<0.02
97-405 0050-0055	50		0.001		<0.5	<0.02
97-405 0055-0060	47		0.001		<0.5	<0.02
97-405 0060-0065	51		0.001		<0.5	<0.02
97-405 0065-0070	36		0.001		<0.5	<0.02
97-405 0070-0075	33		<0.001		<0.5	<0.02
97-405 0075-0080	56		0.002		<0.5	<0.02
97-405 0080-0085	50		0.001		<0.5	<0.02
97-405 0085-0090	21		<0.001		<0.5	<0.02
97-405 0090-0095	27		<0.001		<0.5	<0.02
97-405 0095-0100	26		<0.001		<0.5	<0.02
97-405 0100-0105	19		<0.001		<0.5	<0.02
97-405 0105-0110	25		<0.001		<0.5	<0.02
97-405 0110-0115	27		<0.001		<0.5	<0.02
97-405 0115-0120	21		<0.001		<0.5	<0.02
97-405 0120-0125	17		<0.001		<0.5	<0.02

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REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0125-0130	12	14	<0.001	<0.001	<0.5	<0.02
97-405 0130-0135	24		<0.001		<0.5	<0.02
97-405 0135-0140	8		<0.001		<0.5	<0.02
97-405 0140-0145	12		<0.001		<0.5	<0.02
97-405 0145-0150	15		<0.001		<0.5	<0.02
97-405 0150-0155	<5		<0.001		<0.5	<0.02
97-405 0155-0160	10		<0.001		<0.5	<0.02
97-405 0160-0165	5		<0.001		<0.5	<0.02
97-405 0165-0170	8		<0.001		<0.5	<0.02
97-405 0170-0175	<5		<0.001		<0.5	<0.02
97-405 0175-0180	<5		<0.001		<0.5	<0.02
97-405 0180-0185	5		<0.001		<0.5	<0.02
97-405 0185-0190	<5		<0.001		<0.5	<0.02
97-405 0190-0195	<5		<0.001		<0.5	<0.02
97-405 0195-0200	5		<0.001		<0.5	<0.02
97-405 0200-0205	<5		<0.001		<0.5	<0.02
97-405 0205-0210	<5		<0.001		<0.5	<0.02
97-405 0210-0215	<5		<0.001		<0.5	<0.02
97-405 0215-0220	<5		<0.001		<0.5	<0.02
97-405 0220-0225	14	12	<0.001	<0.001	<0.5	<0.02
97-405 0225-0230	<5		<0.001		<0.5	<0.02
97-405 0230-0235	<5		<0.001		<0.5	<0.02
97-405 0235-0240	<5		<0.001		<0.5	<0.02
97-405 0240-0245	<5		<0.001		<0.5	<0.02
97-405 0245-0250	<5		<0.001		<0.5	<0.02

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REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0250-0255	<5		<0.001		<0.5	<0.02
97-405 0255-0260	<5		<0.001		<0.5	<0.02
97-405 0260-0265	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0265-0270	<5		<0.001		<0.5	<0.02
97-405 0270-0275	<5		<0.001		<0.5	<0.02
97-405 0275-0280	<5		<0.001		<0.5	<0.02
97-405 0280-0285	<5		<0.001		<0.5	<0.02
97-405 0285-0290	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0290-0295	<5		<0.001		<0.5	<0.02
97-405 0295-0300	<5		<0.001		<0.5	<0.02
97-405 0300-0305	<5		<0.001		<0.5	<0.02
97-405 0305-0310	<5		<0.001		<0.5	<0.02
97-405 0310-0315	<5		<0.001		<0.5	<0.02
97-405 0315-0320	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0320-0325	<5		<0.001		<0.5	<0.02
97-405 0325-0330	<5		<0.001		<0.5	<0.02
97-405 0330-0335	<5		<0.001		<0.5	<0.02
97-405 0335-0340	<5		<0.001		<0.5	<0.02
97-405 0340-0345	<5		<0.001		<0.5	<0.02
97-405 0345-0350	194	216	0.006	0.006	<0.5	<0.02
97-405 0350-0355	187		0.005		<0.5	<0.02
97-405 0355-0360	111	116	0.003	0.003	1.6	0.05
97-405 0360-0365	105		0.003		1.9	0.06
97-405 0365-0370	130	130	0.004	0.004	2.5	0.07
97-405 0370-0375	116		0.003		2.6	0.08

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ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0375-0380	50		0.001		0.8	0.02
97-405 0380-0385	26		<0.001		<0.5	<0.02
97-405 0385-0390	102	114	0.003	0.003	<0.5	<0.02
97-405 0390-0395	36		0.001		<0.5	<0.02
97-405 0395-0400	5		<0.001		<0.5	<0.02
97-405 0400-0405	<5		<0.001		<0.5	<0.02
97-405 0405-0410	5		<0.001		<0.5	<0.02
97-405 0410-0415	<5		<0.001		<0.5	<0.02
97-405 0415-0420	12		<0.001		<0.5	<0.02
97-405 0420-0425	13		<0.001		<0.5	<0.02
97-405 0425-0430	<5		<0.001		<0.5	<0.02
97-405 0430-0435	<5		<0.001		<0.5	<0.02
97-405 0435-0440	<5		<0.001		<0.5	<0.02
97-405 0440-0445	<5		<0.001		<0.5	<0.02
97-405 0445-0450	<5		<0.001		<0.5	<0.02
97-405 0450-0455	<5		<0.001		<0.5	<0.02
97-405 0455-0460	<5		<0.001		<0.5	<0.02
97-405 0460-0465	<5		<0.001		<0.5	<0.02
97-405 0465-0470	<5		<0.001		<0.5	<0.02
97-405 0470-0475	<5		<0.001		<0.5	<0.02
97-405 0475-0480	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0480-0485	<5		<0.001		<0.5	<0.02
97-405 0485-0490	<5		<0.001		<0.5	<0.02
97-405 0490-0495	<5		<0.001		<0.5	<0.02
97-405 0495-0500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0500-0505	<5		<0.001		<0.5	<0.02
97-405 0505-0510	<5		<0.001		<0.5	<0.02
97-405 0510-0515	<5		<0.001		<0.5	<0.02
97-405 0515-0520	<5		<0.001		<0.5	<0.02
97-405 0520-0525	<5		<0.001		<0.5	<0.02
97-405 0525-0530	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0530-0535	<5		<0.001		<0.5	<0.02
97-405 0535-0540	<5		<0.001		<0.5	<0.02
97-405 0540-0545	<5		<0.001		<0.5	<0.02
97-405 0545-0550	<5		<0.001		<0.5	<0.02
97-405 0550-0555	<5		<0.001		<0.5	<0.02
97-405 0555-0560	<5		<0.001		<0.5	<0.02
97-405 0560-0565	<5		<0.001		<0.5	<0.02
97-405 0565-0570	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0570-0575	<5		<0.001		<0.5	<0.02
97-405 0575-0580	<5		<0.001		<0.5	<0.02
97-405 0580-0585	<5		<0.001		<0.5	<0.02
97-405 0585-0590	<5		<0.001		<0.5	<0.02
97-405 0590-0595	<5		<0.001		<0.5	<0.02
97-405 0595-0600	<5		<0.001		<0.5	<0.02
97-405 0600-0605	<5		<0.001		<0.5	<0.02
97-405 0605-0610	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0610-0615	<5		<0.001		<0.5	<0.02
97-405 0615-0620	<5		<0.001		<0.5	<0.02
97-405 0620-0625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0625-0630	<5		<0.001		<0.5	<0.02
97-405 0630-0635	<5		<0.001		<0.5	<0.02
97-405 0635-0640	<5		<0.001		<0.5	<0.02
97-405 0640-0645	<5		<0.001		<0.5	<0.02
97-405 0645-0650	<5		<0.001		<0.5	<0.02
97-405 0650-0655	<5		<0.001		<0.5	<0.02
97-405 0655-0660	<5		<0.001		<0.5	<0.02
97-405 0660-0665	<5		<0.001		<0.5	<0.02
97-405 0665-0670	<5		<0.001		<0.5	<0.02
97-405 0670-0675	<5		<0.001		<0.5	<0.02
97-405 0675-0680	<5		<0.001		<0.5	<0.02
97-405 0680-0685	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0685-0690	<5		<0.001		<0.5	<0.02
97-405 0690-0695	<5		<0.001		<0.5	<0.02
97-405 0695-0700	<5		<0.001		<0.5	<0.02
97-405 0700-0705	<5		<0.001		<0.5	<0.02
97-405 0705-0710	<5		<0.001		<0.5	<0.02
97-405 0710-0715	<5		<0.001		<0.5	<0.02
97-405 0715-0720	<5		<0.001		<0.5	<0.02
97-405 0720-0725	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0725-0730	<5		<0.001		<0.5	<0.02
97-405 0730-0735	<5		<0.001		<0.5	<0.02
97-405 0735-0740	<5		<0.001		<0.5	<0.02
97-405 0740-0745	<5		<0.001		<0.5	<0.02
97-405 0745-0750	<5		<0.001		<0.5	<0.02

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
97-405 0750-0755	<5		<0.001		<0.5	<0.02
97-405 0755-0760	<5		<0.001		<0.5	<0.02
97-405 0760-0765	<5		<0.001		<0.5	<0.02
97-405 0765-0770	<5		<0.001		<0.5	<0.02
97-405 0770-0775	<5		<0.001		<0.5	<0.02
97-405 0775-0780	<5		<0.001		<0.5	<0.02
97-405 0780-0785	<5		<0.001		<0.5	<0.02
97-405 0785-0790	<5		<0.001		<0.5	<0.02
97-405 0790-0795	<5		<0.001		<0.5	<0.02
97-405 0795-0800	<5		<0.001		<0.5	<0.02
97-405 0800-0805	<5		<0.001		<0.5	<0.02
97-405 0805-0810	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0810-0815	<5		<0.001		<0.5	<0.02
97-405 0815-0820	<5		<0.001		<0.5	<0.02
97-405 0820-0825	<5		<0.001		<0.5	<0.02
97-405 0825-0830	<5		<0.001		<0.5	<0.02
97-405 0830-0835	<5		<0.001		<0.5	<0.02
97-405 0835-0840	<5		<0.001		<0.5	<0.02
97-405 0840-0845	<5		<0.001		<0.5	<0.02
97-405 0845-0850	13		<0.001		<0.5	<0.02
97-405 0850-0855	12		<0.001		<0.5	<0.02
97-405 0855-0860	63		0.002		1.7	0.05
97-405 0860-0865	93	84	0.003	0.002	2.0	0.06
97-405 0865-0870	39		0.001		0.7	0.02
97-405 0870-0875	24		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0875-0880	18		<0.001		<0.5	<0.02
97-405 0880-0885	8		<0.001		0.5	<0.02
97-405 0885-0890	774		0.023		1.6	0.05
97-405 0890-0895	38	32	0.001	<0.001	0.6	<0.02
97-405 0895-0900	22		<0.001		0.6	<0.02
97-405 0900-0905	30		<0.001		0.7	0.02
97-405 0905-0910	28		<0.001		0.6	<0.02
97-405 0910-0915	70		0.002		<0.5	<0.02
97-405 0915-0920	87		0.003		0.8	0.02
97-405 0920-0925	30		<0.001		<0.5	<0.02
97-405 0925-0930	14	14	<0.001	<0.001	<0.5	<0.02
97-405 0930-0935	<5		<0.001		<0.5	<0.02
97-405 0935-0940	<5		<0.001		<0.5	<0.02
97-405 0940-0945	<5		<0.001		<0.5	<0.02
97-405 0945-0950	<5		<0.001		<0.5	<0.02
97-405 0950-0955	<5		<0.001		<0.5	<0.02
97-405 0955-0960	<5		<0.001		<0.5	<0.02
97-405 0960-0965	<5		<0.001		<0.5	<0.02
97-405 0965-0970	<5		<0.001		<0.5	<0.02
97-405 0970-0975	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0975-0980	<5		<0.001		<0.5	<0.02
97-405 0980-0985	<5		<0.001		<0.5	<0.02
97-405 0985-0990	<5		<0.001		<0.5	<0.02
97-405 0990-0995	10		<0.001		<0.5	<0.02
97-405 0995-1000	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
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REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 1000-1005	<5		<0.001		<0.5	<0.02
97-405 1005-1010	<5		<0.001		<0.5	<0.02
97-405 1010-1015	<5		<0.001		<0.5	<0.02
97-405 1015-1020	<5		<0.001		<0.5	<0.02
97-405 1020-1025	<5		<0.001		<0.5	<0.02
97-405 1025-1030	<5		<0.001		<0.5	<0.02
97-405 1030-1035	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1035-1040	<5		<0.001		<0.5	<0.02
97-405 1040-1045	20		<0.001		<0.5	<0.02
97-405 1045-1050	<5		<0.001		<0.5	<0.02
97-405 1050-1055	<5		<0.001		<0.5	<0.02
97-405 1055-1060	<5		<0.001		<0.5	<0.02
97-405 1060-1065	<5		<0.001		<0.5	<0.02
97-405 1065-1070	<5		<0.001		<0.5	<0.02
97-405 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1075-1080	<5		<0.001		<0.5	<0.02
97-405 1080-1085	<5		<0.001		<0.5	<0.02
97-405 1085-1090	<5		<0.001		<0.5	<0.02
97-405 1090-1095	<5		<0.001		<0.5	<0.02
97-405 1095-1100	<5		<0.001		<0.5	<0.02
97-405 1100-1105	<5		<0.001		<0.5	<0.02
97-405 1105-1110	<5		<0.001		<0.5	<0.02
97-405 1110-1115	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1115-1120	<5		<0.001		<0.5	<0.02
97-405 1120-1125	8		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 1125-1130	<5		<0.001		<0.5	<0.02
97-405 1130-1135	<5		<0.001		<0.5	<0.02
97-405 1135-1140	<5		<0.001		<0.5	<0.02
97-405 1140-1145	<5		<0.001		<0.5	<0.02
97-405 1145-1150	<5		<0.001		<0.5	<0.02
97-405 1150-1155	<5		<0.001		<0.5	<0.02
97-405 1155-1160	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1160-1165	5		<0.001		<0.5	<0.02
97-405 1165-1170	<5		<0.001		<0.5	<0.02
97-405 1170-1175	<5		<0.001		<0.5	<0.02
97-405 1175-1180	<5		<0.001		<0.5	<0.02
97-405 1180-1185	<5		<0.001		<0.5	<0.02
97-405 1185-1190	<5		<0.001		<0.5	<0.02
97-405 1190-1195	<5		<0.001		<0.5	<0.02
97-405 1195-1200	<5		<0.001		<0.5	<0.02
97-405 1200-1205	6		<0.001		<0.5	<0.02
97-405 1205-1210	8		<0.001		<0.5	<0.02
97-405 1210-1215	16		<0.001		<0.5	<0.02
97-405 1215-1220	6		<0.001		<0.5	<0.02
97-405 1220-1225	<5		<0.001		<0.5	<0.02
97-405 1225-1230	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1230-1235	<5		<0.001		<0.5	<0.02
97-405 1235-1240	<5		<0.001		<0.5	<0.02
97-405 1240-1245	<5		<0.001		<0.5	<0.02
97-405 1245-1250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 1250-1255	<5		<0.001		<0.5	<0.02
97-405 1255-1260	<5		<0.001		<0.5	<0.02
97-405 1260-1265	<5		<0.001		<0.5	<0.02
97-405 1265-1270	<5		<0.001		<0.5	<0.02
97-405 1270-1275	<5		<0.001		<0.5	<0.02
97-405 1275-1280	<5		<0.001		<0.5	<0.02
97-405 1280-1285	<5		<0.001		<0.5	<0.02
97-405 1285-1290	<5		<0.001		<0.5	<0.02
97-405 1290-1295	<5		<0.001		<0.5	<0.02
97-405 1295-1300	<5		<0.001		<0.5	<0.02
97-405 1300-1305	<5		<0.001		<0.5	<0.02
97-405 1305-1310	<5		<0.001		<0.5	<0.02
97-405 1310-1315	<5		<0.001		<0.5	<0.02
97-405 1315-1320	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1320-1325	10		<0.001		<0.5	<0.02
97-405 1325-1330	<5		<0.001		<0.5	<0.02
97-405 1330-1335	<5		<0.001		<0.5	<0.02
97-405 1335-1340	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1340-1345	<5		<0.001		<0.5	<0.02
97-405 1345-1350	<5		<0.001		<0.5	<0.02
97-405 1350-1355	<5		<0.001		<0.5	<0.02
97-405 1355-1360	<5		<0.001		<0.5	<0.02
97-405 1360-1365	<5		<0.001		<0.5	<0.02
97-405 1365-1370	<5		<0.001		<0.5	<0.02
97-405 1370-1375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

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REFERENCE : 97-405

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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
97-405 1375-1380	<5		<0.001		<0.5	<0.02
97-405 1380-1385	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1385-1390	<5		<0.001		<0.5	<0.02
97-405 1390-1395	<5		<0.001		<0.5	<0.02
97-405 1395-1400	<5		<0.001		<0.5	<0.02
97-405 1400-1405	<5		<0.001		<0.5	<0.02
97-405 1405-1410	<5		<0.001		<0.5	<0.02
97-405 1410-1415	<5		<0.001		<0.5	<0.02
97-405 1415-1420	<5		<0.001		<0.5	<0.02
97-405 1420-1425	<5		<0.001		<0.5	<0.02
97-405 1425-1430	<5		<0.001		<0.5	<0.02
97-405 1430-1435	12	14	<0.001	<0.001	<0.5	<0.02
97-405 1435-1440	27		<0.001		<0.5	<0.02
97-405 1440-1445	21		<0.001		<0.5	<0.02
97-405 1445-1450	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1450-1455	<5		<0.001		<0.5	<0.02
97-405 1455-1460	<5		<0.001		<0.5	<0.02
97-405 1460-1465	<5		<0.001		<0.5	<0.02
97-405 1465-1470	<5		<0.001		<0.5	<0.02
97-405 1470-1475	<5		<0.001		<0.5	<0.02
97-405 1475-1480	<5		<0.001		<0.5	<0.02
97-405 1480-1485	<5		<0.001		<0.5	<0.02
97-405 1485-1490	<5		<0.001		<0.5	<0.02
97-405 1490-1495	<5		<0.001		<0.5	<0.02
97-405 1495-1500	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046134

American Assay Laboratories

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NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW

: RICK LISLE

: RANDY VANCE

: KURT ALLEN

CLIENT REFERENCE No: 97-405 RECEIVED : 27 AUG 1997

No. SAMPLES : 300 REPORTED : 27 AUG 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 SP046134

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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
97-405 0000-0005	42		0.001		<0.5	<0.02
97-405 0005-0010	36		0.001		<0.5	<0.02
97-405 0010-0015	40		0.001		<0.5	<0.02
97-405 0015-0020	28		<0.001		<0.5	<0.02
97-405 0020-0025	25		<0.001		<0.5	<0.02
97-405 0025-0030	21		<0.001		<0.5	<0.02
97-405 0030-0035	24		<0.001		<0.5	<0.02
97-405 0035-0040	34		<0.001		<0.5	<0.02
97-405 0040-0045	36		0.001		<0.5	<0.02
97-405 0045-0050	30		<0.001		<0.5	<0.02
97-405 0050-0055	50		0.001		<0.5	<0.02
97-405 0055-0060	47		0.001		<0.5	<0.02
97-405 0060-0065	51		0.001		<0.5	<0.02
97-405 0065-0070	36		0.001		<0.5	<0.02
97-405 0070-0075	33		<0.001		<0.5	<0.02
97-405 0075-0080	56		0.002		<0.5	<0.02
97-405 0080-0085	50		0.001		<0.5	<0.02
97-405 0085-0090	21		<0.001		<0.5	<0.02
97-405 0090-0095	27		<0.001		<0.5	<0.02
97-405 0095-0100	26		<0.001		<0.5	<0.02
97-405 0100-0105	19		<0.001		<0.5	<0.02
97-405 0105-0110	25		<0.001		<0.5	<0.02
97-405 0110-0115	27		<0.001		<0.5	<0.02
97-405 0115-0120	21		<0.001		<0.5	<0.02
97-405 0120-0125	17		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

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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
97-405 0125-0130	12	14	<0.001	<0.001	<0.5	<0.02
97-405 0130-0135	24		<0.001		<0.5	<0.02
97-405 0135-0140	8		<0.001		<0.5	<0.02
97-405 0140-0145	12		<0.001		<0.5	<0.02
97-405 0145-0150	15		<0.001		<0.5	<0.02
97-405 0150-0155	<5		<0.001		<0.5	<0.02
97-405 0155-0160	10		<0.001		<0.5	<0.02
97-405 0160-0165	5		<0.001		<0.5	<0.02
97-405 0165-0170	8		<0.001		<0.5	<0.02
97-405 0170-0175	<5		<0.001		<0.5	<0.02
97-405 0175-0180	<5		<0.001		<0.5	<0.02
97-405 0180-0185	5		<0.001		<0.5	<0.02
97-405 0185-0190	<5		<0.001		<0.5	<0.02
97-405 0190-0195	<5		<0.001		<0.5	<0.02
97-405 0195-0200	5		<0.001		<0.5	<0.02
97-405 0200-0205	<5		<0.001		<0.5	<0.02
97-405 0205-0210	<5		<0.001		<0.5	<0.02
97-405 0210-0215	<5		<0.001		<0.5	<0.02
97-405 0215-0220	<5		<0.001		<0.5	<0.02
97-405 0220-0225	14	12	<0.001	<0.001	<0.5	<0.02
97-405 0225-0230	<5		<0.001		<0.5	<0.02
97-405 0230-0235	<5		<0.001		<0.5	<0.02
97-405 0235-0240	<5		<0.001		<0.5	<0.02
97-405 0240-0245	<5		<0.001		<0.5	<0.02
97-405 0245-0250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

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REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0250-0255	<5		<0.001		<0.5	<0.02
97-405 0255-0260	<5		<0.001		<0.5	<0.02
97-405 0260-0265	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0265-0270	<5		<0.001		<0.5	<0.02
97-405 0270-0275	<5		<0.001		<0.5	<0.02
97-405 0275-0280	<5		<0.001		<0.5	<0.02
97-405 0280-0285	<5		<0.001		<0.5	<0.02
97-405 0285-0290	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0290-0295	<5		<0.001		<0.5	<0.02
97-405 0295-0300	<5		<0.001		<0.5	<0.02
97-405 0300-0305	<5		<0.001		<0.5	<0.02
97-405 0305-0310	<5		<0.001		<0.5	<0.02
97-405 0310-0315	<5		<0.001		<0.5	<0.02
97-405 0315-0320	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0320-0325	<5		<0.001		<0.5	<0.02
97-405 0325-0330	<5		<0.001		<0.5	<0.02
97-405 0330-0335	<5		<0.001		<0.5	<0.02
97-405 0335-0340	<5		<0.001		<0.5	<0.02
97-405 0340-0345	<5		<0.001		<0.5	<0.02
97-405 0345-0350	194	216	0.006	0.006	<0.5	<0.02
97-405 0350-0355	187		0.005		<0.5	<0.02
97-405 0355-0360	111	116	0.003	0.003	1.6	0.05
97-405 0360-0365	105		0.003		1.9	0.06
97-405 0365-0370	130	130	0.004	0.004	2.5	0.07
97-405 0370-0375	116		0.003		2.6	0.08

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

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REFERENCE : 97-405

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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
97-405 0375-0380	50		0.001		0.8	0.02
97-405 0380-0385	26		<0.001		<0.5	<0.02
97-405 0385-0390	102	114	0.003	0.003	<0.5	<0.02
97-405 0390-0395	36		0.001		<0.5	<0.02
97-405 0395-0400	5		<0.001		<0.5	<0.02
97-405 0400-0405	<5		<0.001		<0.5	<0.02
97-405 0405-0410	5		<0.001		<0.5	<0.02
97-405 0410-0415	<5		<0.001		<0.5	<0.02
97-405 0415-0420	12		<0.001		<0.5	<0.02
97-405 0420-0425	13		<0.001		<0.5	<0.02
97-405 0425-0430	<5		<0.001		<0.5	<0.02
97-405 0430-0435	<5		<0.001		<0.5	<0.02
97-405 0435-0440	<5		<0.001		<0.5	<0.02
97-405 0440-0445	<5		<0.001		<0.5	<0.02
97-405 0445-0450	<5		<0.001		<0.5	<0.02
97-405 0450-0455	<5		<0.001		<0.5	<0.02
97-405 0455-0460	<5		<0.001		<0.5	<0.02
97-405 0460-0465	<5		<0.001		<0.5	<0.02
97-405 0465-0470	<5		<0.001		<0.5	<0.02
97-405 0470-0475	<5		<0.001		<0.5	<0.02
97-405 0475-0480	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0480-0485	<5		<0.001		<0.5	<0.02
97-405 0485-0490	<5		<0.001		<0.5	<0.02
97-405 0490-0495	<5		<0.001		<0.5	<0.02
97-405 0495-0500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0500-0505	<5		<0.001		<0.5	<0.02
97-405 0505-0510	<5		<0.001		<0.5	<0.02
97-405 0510-0515	<5		<0.001		<0.5	<0.02
97-405 0515-0520	<5		<0.001		<0.5	<0.02
97-405 0520-0525	<5		<0.001		<0.5	<0.02
97-405 0525-0530	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0530-0535	<5		<0.001		<0.5	<0.02
97-405 0535-0540	<5		<0.001		<0.5	<0.02
97-405 0540-0545	<5		<0.001		<0.5	<0.02
97-405 0545-0550	<5		<0.001		<0.5	<0.02
97-405 0550-0555	<5		<0.001		<0.5	<0.02
97-405 0555-0560	<5		<0.001		<0.5	<0.02
97-405 0560-0565	<5		<0.001		<0.5	<0.02
97-405 0565-0570	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0570-0575	<5		<0.001		<0.5	<0.02
97-405 0575-0580	<5		<0.001		<0.5	<0.02
97-405 0580-0585	<5		<0.001		<0.5	<0.02
97-405 0585-0590	<5		<0.001		<0.5	<0.02
97-405 0590-0595	<5		<0.001		<0.5	<0.02
97-405 0595-0600	<5		<0.001		<0.5	<0.02
97-405 0600-0605	<5		<0.001		<0.5	<0.02
97-405 0605-0610	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0610-0615	<5		<0.001		<0.5	<0.02
97-405 0615-0620	<5		<0.001		<0.5	<0.02
97-405 0620-0625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0625-0630	<5		<0.001		<0.5	<0.02
97-405 0630-0635	<5		<0.001		<0.5	<0.02
97-405 0635-0640	<5		<0.001		<0.5	<0.02
97-405 0640-0645	<5		<0.001		<0.5	<0.02
97-405 0645-0650	<5		<0.001		<0.5	<0.02
97-405 0650-0655	<5		<0.001		<0.5	<0.02
97-405 0655-0660	<5		<0.001		<0.5	<0.02
97-405 0660-0665	<5		<0.001		<0.5	<0.02
97-405 0665-0670	<5		<0.001		<0.5	<0.02
97-405 0670-0675	<5		<0.001		<0.5	<0.02
97-405 0675-0680	<5		<0.001		<0.5	<0.02
97-405 0680-0685	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0685-0690	<5		<0.001		<0.5	<0.02
97-405 0690-0695	<5		<0.001		<0.5	<0.02
97-405 0695-0700	<5		<0.001		<0.5	<0.02
97-405 0700-0705	<5		<0.001		<0.5	<0.02
97-405 0705-0710	<5		<0.001		<0.5	<0.02
97-405 0710-0715	<5		<0.001		<0.5	<0.02
97-405 0715-0720	<5		<0.001		<0.5	<0.02
97-405 0720-0725	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0725-0730	<5		<0.001		<0.5	<0.02
97-405 0730-0735	<5		<0.001		<0.5	<0.02
97-405 0735-0740	<5		<0.001		<0.5	<0.02
97-405 0740-0745	<5		<0.001		<0.5	<0.02
97-405 0745-0750	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0750-0755	<5		<0.001		<0.5	<0.02
97-405 0755-0760	<5		<0.001		<0.5	<0.02
97-405 0760-0765	<5		<0.001		<0.5	<0.02
97-405 0765-0770	<5		<0.001		<0.5	<0.02
97-405 0770-0775	<5		<0.001		<0.5	<0.02
97-405 0775-0780	<5		<0.001		<0.5	<0.02
97-405 0780-0785	<5		<0.001		<0.5	<0.02
97-405 0785-0790	<5		<0.001		<0.5	<0.02
97-405 0790-0795	<5		<0.001		<0.5	<0.02
97-405 0795-0800	<5		<0.001		<0.5	<0.02
97-405 0800-0805	<5		<0.001		<0.5	<0.02
97-405 0805-0810	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0810-0815	<5		<0.001		<0.5	<0.02
97-405 0815-0820	<5		<0.001		<0.5	<0.02
97-405 0820-0825	<5		<0.001		<0.5	<0.02
97-405 0825-0830	<5		<0.001		<0.5	<0.02
97-405 0830-0835	<5		<0.001		<0.5	<0.02
97-405 0835-0840	<5		<0.001		<0.5	<0.02
97-405 0840-0845	<5		<0.001		<0.5	<0.02
97-405 0845-0850	13		<0.001		<0.5	<0.02
97-405 0850-0855	12		<0.001		<0.5	<0.02
97-405 0855-0860	63		0.002		1.7	0.05
97-405 0860-0865	93	84	0.003	0.002	2.0	0.06
97-405 0865-0870	39		0.001		0.7	0.02
97-405 0870-0875	24		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 0875-0880	18		<0.001		<0.5	<0.02
97-405 0880-0885	8		<0.001		0.5	<0.02
97-405 0885-0890	774		0.023		1.6	0.05
97-405 0890-0895	38	32	0.001	<0.001	0.6	<0.02
97-405 0895-0900	22		<0.001		0.6	<0.02
97-405 0900-0905	30		<0.001		0.7	0.02
97-405 0905-0910	28		<0.001		0.6	<0.02
97-405 0910-0915	70		0.002		<0.5	<0.02
97-405 0915-0920	87		0.003		0.8	0.02
97-405 0920-0925	30		<0.001		<0.5	<0.02
97-405 0925-0930	14	14	<0.001	<0.001	<0.5	<0.02
97-405 0930-0935	<5		<0.001		<0.5	<0.02
97-405 0935-0940	<5		<0.001		<0.5	<0.02
97-405 0940-0945	<5		<0.001		<0.5	<0.02
97-405 0945-0950	<5		<0.001		<0.5	<0.02
97-405 0950-0955	<5		<0.001		<0.5	<0.02
97-405 0955-0960	<5		<0.001		<0.5	<0.02
97-405 0960-0965	<5		<0.001		<0.5	<0.02
97-405 0965-0970	<5		<0.001		<0.5	<0.02
97-405 0970-0975	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 0975-0980	<5		<0.001		<0.5	<0.02
97-405 0980-0985	<5		<0.001		<0.5	<0.02
97-405 0985-0990	<5		<0.001		<0.5	<0.02
97-405 0990-0995	10		<0.001		<0.5	<0.02
97-405 0995-1000	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 1000-1005	<5		<0.001		<0.5	<0.02
97-405 1005-1010	<5		<0.001		<0.5	<0.02
97-405 1010-1015	<5		<0.001		<0.5	<0.02
97-405 1015-1020	<5		<0.001		<0.5	<0.02
97-405 1020-1025	<5		<0.001		<0.5	<0.02
97-405 1025-1030	<5		<0.001		<0.5	<0.02
97-405 1030-1035	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1035-1040	<5		<0.001		<0.5	<0.02
97-405 1040-1045	20		<0.001		<0.5	<0.02
97-405 1045-1050	<5		<0.001		<0.5	<0.02
97-405 1050-1055	<5		<0.001		<0.5	<0.02
97-405 1055-1060	<5		<0.001		<0.5	<0.02
97-405 1060-1065	<5		<0.001		<0.5	<0.02
97-405 1065-1070	<5		<0.001		<0.5	<0.02
97-405 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1075-1080	<5		<0.001		<0.5	<0.02
97-405 1080-1085	<5		<0.001		<0.5	<0.02
97-405 1085-1090	<5		<0.001		<0.5	<0.02
97-405 1090-1095	<5		<0.001		<0.5	<0.02
97-405 1095-1100	<5		<0.001		<0.5	<0.02
97-405 1100-1105	<5		<0.001		<0.5	<0.02
97-405 1105-1110	<5		<0.001		<0.5	<0.02
97-405 1110-1115	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1115-1120	<5		<0.001		<0.5	<0.02
97-405 1120-1125	8		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-405

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-405 1125-1130	<5		<0.001		<0.5	<0.02
97-405 1130-1135	<5		<0.001		<0.5	<0.02
97-405 1135-1140	<5		<0.001		<0.5	<0.02
97-405 1140-1145	<5		<0.001		<0.5	<0.02
97-405 1145-1150	<5		<0.001		<0.5	<0.02
97-405 1150-1155	<5		<0.001		<0.5	<0.02
97-405 1155-1160	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1160-1165	5		<0.001		<0.5	<0.02
97-405 1165-1170	<5		<0.001		<0.5	<0.02
97-405 1170-1175	<5		<0.001		<0.5	<0.02
97-405 1175-1180	<5		<0.001		<0.5	<0.02
97-405 1180-1185	<5		<0.001		<0.5	<0.02
97-405 1185-1190	<5		<0.001		<0.5	<0.02
97-405 1190-1195	<5		<0.001		<0.5	<0.02
97-405 1195-1200	<5		<0.001		<0.5	<0.02
97-405 1200-1205	6		<0.001		<0.5	<0.02
97-405 1205-1210	8		<0.001		<0.5	<0.02
97-405 1210-1215	16		<0.001		<0.5	<0.02
97-405 1215-1220	6		<0.001		<0.5	<0.02
97-405 1220-1225	<5		<0.001		<0.5	<0.02
97-405 1225-1230	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1230-1235	<5		<0.001		<0.5	<0.02
97-405 1235-1240	<5		<0.001		<0.5	<0.02
97-405 1240-1245	<5		<0.001		<0.5	<0.02
97-405 1245-1250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

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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
97-405 1250-1255	<5		<0.001		<0.5	<0.02
97-405 1255-1260	<5		<0.001		<0.5	<0.02
97-405 1260-1265	<5		<0.001		<0.5	<0.02
97-405 1265-1270	<5		<0.001		<0.5	<0.02
97-405 1270-1275	<5		<0.001		<0.5	<0.02
97-405 1275-1280	<5		<0.001		<0.5	<0.02
97-405 1280-1285	<5		<0.001		<0.5	<0.02
97-405 1285-1290	<5		<0.001		<0.5	<0.02
97-405 1290-1295	<5		<0.001		<0.5	<0.02
97-405 1295-1300	<5		<0.001		<0.5	<0.02
97-405 1300-1305	<5		<0.001		<0.5	<0.02
97-405 1305-1310	<5		<0.001		<0.5	<0.02
97-405 1310-1315	<5		<0.001		<0.5	<0.02
97-405 1315-1320	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1320-1325	10		<0.001		<0.5	<0.02
97-405 1325-1330	<5		<0.001		<0.5	<0.02
97-405 1330-1335	<5		<0.001		<0.5	<0.02
97-405 1335-1340	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1340-1345	<5		<0.001		<0.5	<0.02
97-405 1345-1350	<5		<0.001		<0.5	<0.02
97-405 1350-1355	<5		<0.001		<0.5	<0.02
97-405 1355-1360	<5		<0.001		<0.5	<0.02
97-405 1360-1365	<5		<0.001		<0.5	<0.02
97-405 1365-1370	<5		<0.001		<0.5	<0.02
97-405 1370-1375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046134

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REFERENCE : 97-405

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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
97-405 1375-1380	<5		<0.001		<0.5	<0.02
97-405 1380-1385	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1385-1390	<5		<0.001		<0.5	<0.02
97-405 1390-1395	<5		<0.001		<0.5	<0.02
97-405 1395-1400	<5		<0.001		<0.5	<0.02
97-405 1400-1405	<5		<0.001		<0.5	<0.02
97-405 1405-1410	<5		<0.001		<0.5	<0.02
97-405 1410-1415	<5		<0.001		<0.5	<0.02
97-405 1415-1420	<5		<0.001		<0.5	<0.02
97-405 1420-1425	<5		<0.001		<0.5	<0.02
97-405 1425-1430	<5		<0.001		<0.5	<0.02
97-405 1430-1435	12	14	<0.001	<0.001	<0.5	<0.02
97-405 1435-1440	27		<0.001		<0.5	<0.02
97-405 1440-1445	21		<0.001		<0.5	<0.02
97-405 1445-1450	<5	<5	<0.001	<0.001	<0.5	<0.02
97-405 1450-1455	<5		<0.001		<0.5	<0.02
97-405 1455-1460	<5		<0.001		<0.5	<0.02
97-405 1460-1465	<5		<0.001		<0.5	<0.02
97-405 1465-1470	<5		<0.001		<0.5	<0.02
97-405 1470-1475	<5		<0.001		<0.5	<0.02
97-405 1475-1480	<5		<0.001		<0.5	<0.02
97-405 1480-1485	<5		<0.001		<0.5	<0.02
97-405 1485-1490	<5		<0.001		<0.5	<0.02
97-405 1490-1495	<5		<0.001		<0.5	<0.02
97-405 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 Ltd.*
CLIENT REF: ROSEBUD EXPLOARTION]
AAL REF: SP046134
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
97-405 0000-0020	1.1	1.01	34	13	162	7	0.5	< .2	2	8	14	3	255	0.19	22	0.17	104	2	0.22	4	0.023	22	23	74	8	0.01	< 8	22	< 2	47
97-405 0020-0040	< .3	0.76	26	3	128	< 3	0.11	< .2	1	9	9	3.61	365	0.12	11	0.06	81	2	0.02	3	0.013	18	35	50	5	0.01	< 8	29	4	25
97-405 0040-0060	< .3	0.65	37	< 3	141	< 3	0.08	< .2	1	12	14	2.99	535	0.14	19	0.05	153	3	0.01	5	0.01	9	27	49	8	0.01	9	15	2	23
97-405 0060-0080	< .3	0.69	30	4	134	< 3	0.07	< .2	2	11	13	2.48	905	0.14	19	0.05	122	4	0.01	7	0.011	5	25	60	7	0.01	< 8	10	< 2	18
97-405 0080-0100	< .3	0.68	26	< 3	109	< 3	0.08	< .2	2	6	15	2.82	485	0.14	13	0.04	707	2	0.01	3	0.012	38	20	50	8	0.01	< 8	16	< 2	49
97-405 0100-0120	< .3	0.66	14	< 3	95	< 3	0.15	< .2	6	5	11	2.58	880	0.16	17	0.07	2268	2	0.02	3	0.013	39	16	50	9	0.01	8	15	< 2	106
97-405 0120-0140	< .3	0.75	10	3	196	4	0.23	< .2	10	4	17	2.63	1010	0.16	22	0.09	2177	2	0.02	6	0.011	31	7	64	10	0.02	< 8	17	< 2	204
97-405 0140-0160	< .3	1.2	2	3	169	4	1.19	0.6	6	5	12	2.67	225	0.16	22	0.15	1194	1	0.04	2	0.029	20	4	129	9	0.02	< 8	29	< 2	168
97-405 0160-0180	< .3	0.72	< 2	3	131	< 3	0.9	< .2	3	4	6	2.74	20	0.13	20	0.07	430	1	0.04	< 1	0.032	16	< 3	115	9	0.03	< 8	23	< 2	86
97-405 0180-0200	< .3	1.68	< 2	3	205	< 3	1.14	< .2	7	8	14	3.32	< 10	0.18	19	0.1	470	1	0.05	5	0.028	18	< 3	226	9	0.01	< 8	50	< 2	94
97-405 0200-0220	< .3	1.55	2	< 3	132	4	1.19	< .2	5	6	8	2.97	10	0.17	22	0.09	626	1	0.04	1	0.02	29	4	190	10	0.01	< 8	38	< 2	70
97-405 0220-0240	< .3	1.61	< 2	< 3	150	< 3	1.24	0.5	2	3	3	2.36	15	0.17	18	0.08	624	1	0.04	< 1	0.031	33	4	194	10	0.01	< 8	20	< 2	98
97-405 0240-0260	< .3	1.67	< 2	< 3	117	7	0.79	< .2	3	3	7	2.6	15	0.16	17	0.07	423	2	0.04	< 1	0.015	35	4	186	11	0.01	< 8	17	< 2	89
97-405 0260-0280	< .3	1.3	< 2	< 3	63	4	0.62	< .2	1	3	4	2.59	20	0.16	14	0.05	301	1	0.04	1	0.013	27	5	162	13	0.01	< 8	15	2	71
97-405 0280-0300	< .3	1.19	3	< 3	206	< 3	0.45	< .2	1	2	3	2.29	115	0.19	13	0.04	470	1	0.03	< 1	0.006	25	4	159	12	0.01	< 8	12	< 2	88
97-405 0300-0320	0.3	0.82	10	3	92	< 3	0.29	0.3	2	2	6	2.43	350	0.18	16	0.04	1232	1	0.03	2	0.007	29	11	90	11	< .01	< 8	6	< 2	119
97-405 0320-0340	< .3	0.55	3	< 3	108	< 3	0.37	0.4	1	3	9	2.25	105	0.21	20	0.05	770	1	0.05	1	0.013	25	6	108	10	0.01	< 8	6	2	82
97-405 0340-0360	0.7	0.27	38	< 3	30	< 3	0.6	< .2	1	2	4	2.29	525	0.09	21	0.01	642	4	0.01	< 1	0.006	16	18	33	7	< .01	< 8	2	< 2	75
97-405 0360-0380	2	0.26	96	< 3	30	3	0.72	< .2	2	3	8	2.61	535	0.07	20	0.01	776	40	0.01	< 1	0.006	30	17	31	5	< .01	< 8	2	< 2	66
97-405 0380-0400	0.5	0.58	22	< 3	66	3	0.17	0.2	2	2	6	2.47	660	0.13	25	0.04	616	6	0.02	< 1	0.015	40	13	80	9	0.01	< 8	2	2	98
97-405 0400-0420	< .3	1.59	6	< 3	246	< 3	1.93	< .2	1	1	6	2.36	145	0.18	37	0.08	1097	2	0.05	< 1	0.031	34	5	392	11	0.01	< 8	6	< 2	78
97-405 0420-0440	< .3	1.65	7	< 3	141	< 3	1.86	0.5	1	3	4	2.02	25	0.2	34	0.12	655	2	0.07	< 1	0.029	30	4	472	9	< .01	< 8	7	< 2	49
97-405 0440-0460	< .3	1.34	3	4	78	< 3	1.86	0.6	3	6	4	1.89	30	0.19	14	0.13	598	1	0.06	1	0.027	26	3	335	7	0.01	< 8	15	< 2	44
97-405 0460-0480	0.5	1.44	< 2	< 3	86	< 3	2.35	0.2	3	5	9	2.2	20	0.18	18	0.19	984	1	0.06	2	0.052	25	4	446	5	0.01	< 8	14	< 2	50
97-405 0480-0500	0.3	1.1	< 2	4	112	10	1.72	< .2	5	5	11	3.29	35	0.14	25	0.18	772	1	0.06	2	0.093	15	4	389	5	0.03	< 8	20	< 2	67
97-405 0500-0520	0.3	0.68	2	6	76	8	1.37	0.2	6	8	15	4.15	< 10	0.17	27	0.12	648	3	0.05	2	0.105	22	5	152	8	0.06	< 8	23	< 2	59
97-405 0520-0540	0.4	0.5	< 2	< 3	64	4	1.39	< .2	6	7	13	4.11	< 10	0.17	27	0.1	785	2	0.05	< 1	0.112	20	5	115	8	0.07	< 8	25	< 2	61
97-405 0540-0560	0.3	0.58	2	< 3	100	5	1.31	< .2	5	8	11	3.99	25	0.17	28	0.09	664	2	0.05	< 1	0.097	15	3	137	8	0.05	< 8	25	< 2	57
97-405 0560-0580	< .3	1.68	< 2	< 3	138	8	2.34	0.2	7	6	11	3.74	< 10	0.25	31	0.26	701	1	0.1	1	0.115	25	3	507	6	0.02	< 8	22	< 2	70
97-405 0580-0600	< .3	1.31	2	< 3	148	4	2.66	< .2	4	5	12	3.44	< 10	0.21	30	0.21	811	1	0.09	< 1	0.106	26	3	430	7	0.03	8	17	< 2	68
97-405 0600-0620	0.3	0.66	2	< 3	68	6	3.47	< .2	5	4	6	3.5	< 10	0.17	29	0.11	998	< 1	0.05	3	0.11	20	4	253	8	0.06	< 8	16	< 2	72
97-405 0620-0640	< .3	1.45	2	< 3	114	4	2.6	< .2	6	4	7	3.61	< 10	0.18	26	0.28	897	1	0.08	< 1	0.106	24	4	388	6	0.02	< 8	22	< 2	81
97-405 0640-0660	< .3	1.22	9	< 3	339	< 3	2.91	< .2	5	2	5	2.45	100	0.14	19	0.18	679	< 1	0.06	< 1	0.1	24	4	425	6	0.01	< 8	19	< 2	115
97-405 0660-0680	< .3	1.34	21	< 3	32	6	0.75	0.3	14	2	8	3.67	815	0.26	26	0.18	815	1	0.05	< 1	0.126	26	7	224	7	0.01	< 8	17	< 2	180
STANDARD C3	5.3	1.83	53	21	148	20	0.56	21.2	12	168	63	3.38	935	0.15	18	0.59	726	25	0.04	38	0.087	35	19	28	17	0.1	26	80	24	157

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CLIENT REF: ROSEBUD EXPLOARTION]
AAL REF: SP046134
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
97-405 0680-0700	0.4	0.77	69	< 3	32	< 3	1.07	< .2	9	3	7	3.49	255	0.17	19	0.18	1073	1	0.02	< 1	0.104	22	7	95	7	0.02	< 8	20	< 2	97
97-405 0700-0720	0.3	0.68	5	< 3	42	< 3	1.19	< .2	7	4	8	3.7	70	0.14	18	0.21	676	2	0.03	< 1	0.095	16	4	108	6	0.04	< 8	36	< 2	85
97-405 0720-0740	< .3	0.58	4	3	49	< 3	1.45	< .2	7	5	13	3.98	< 10	0.11	15	0.27	674	2	0.05	1	0.094	10	3	161	6	0.05	< 8	39	< 2	91
97-405 0740-0760	0.3	0.71	5	4	44	< 3	1.36	< .2	7	6	14	3.89	< 10	0.13	16	0.27	654	2	0.06	2	0.092	13	< 3	153	6	0.06	< 8	35	< 2	89
97-405 0760-0780	< .3	0.72	5	< 3	55	< 3	1.74	0.2	5	7	10	3.56	50	0.19	17	0.15	781	2	0.06	2	0.087	14	3	204	5	0.06	< 8	31	< 2	84
97-405 0780-0800	0.3	1.32	< 2	< 3	116	< 3	2.22	< .2	2	3	4	1.6	< 10	0.27	16	0.24	559	1	0.07	< 1	0.036	18	4	452	5	0.01	< 8	10	< 2	43
97-405 0800-0820	0.3	1.35	8	< 3	110	< 3	1.48	0.4	1	1	3	1.68	< 10	0.28	16	0.2	351	1	0.06	< 1	0.034	25	< 3	437	5	0.01	< 8	8	< 2	61
97-405 0820-0840	< .3	0.97	6	< 3	143	< 3	1.88	0.7	2	2	6	1.47	15	0.26	14	0.09	413	1	0.05	< 1	0.04	34	3	335	4	0.01	< 8	6	< 2	60
97-405 0840-0860	0.6	1.36	45	5	108	26	0.9	< .2	3	2	6	2.35	300	0.37	12	0.12	203	1	0.04	< 1	0.045	36	10	286	4	< .01	< 8	6	< 2	74
97-405 0860-0880	1.1	0.66	37	< 3	43	4	0.55	< .2	2	3	7	2.56	405	0.21	20	0.04	408	2	0.02	< 1	0.046	28	12	171	7	< .01	< 8	3	< 2	70
97-405 0880-0900	0.7	1.07	30	< 3	40	< 3	0.67	< .2	4	2	7	2.13	360	0.33	17	0.06	440	2	0.03	1	0.042	32	8	222	7	< .01	< 8	4	< 2	85
97-405 0900-0920	0.8	0.62	25	< 3	36	< 3	0.57	0.6	2	3	5	2.33	1245	0.2	18	0.05	417	2	0.02	< 1	0.038	23	8	178	7	< .01	< 8	2	< 2	99
97-405 0920-0940	0.7	0.98	26	< 3	77	< 3	1.01	0.3	3	4	8	2.4	840	0.29	21	0.08	628	2	0.03	1	0.041	25	7	201	8	< .01	< 8	4	< 2	82
97-405 0940-0960	< .3	1.18	18	< 3	53	< 3	0.92	< .2	2	2	9	2.39	780	0.31	20	0.07	733	2	0.03	< 1	0.043	25	6	175	9	< .01	< 8	6	< 2	75
97-405 0960-0980	0.3	0.93	33	< 3	130	< 3	0.77	0.3	2	1	6	1.76	380	0.26	16	0.07	778	1	0.03	< 1	0.036	30	5	202	9	< .01	< 8	3	< 2	78
97-405 0980-1000	0.3	1.25	38	4	133	< 3	0.69	< .2	4	16	11	2.33	440	0.26	21	0.12	871	4	0.06	1	0.03	33	8	205	10	< .01	< 8	11	< 2	114
97-405 1000-1020	0.4	1.02	42	< 3	207	6	0.63	0.2	2	4	5	1.74	165	0.29	22	0.07	387	2	0.03	< 1	0.036	28	7	261	8	< .01	< 8	5	< 2	56
97-405 1020-1040	< .3	0.94	21	< 3	295	5	1.5	0.5	2	4	6	1.58	125	0.37	33	0.07	692	1	0.03	< 1	0.032	23	6	300	7	< .01	< 8	3	< 2	68
97-405 1040-1060	< .3	0.65	11	< 3	102	< 3	1.44	< .2	2	5	6	2.42	15	0.31	23	0.04	543	2	0.04	< 1	0.02	27	6	221	7	0.01	< 8	2	< 2	43
97-405 1060-1080	< .3	0.51	4	< 3	73	< 3	1.48	0.2	< 1	5	6	1.57	15	0.26	25	0.03	620	1	0.04	< 1	0.021	39	< 3	178	10	0.01	< 8	2	< 2	18
97-405 1080-1100	0.3	0.47	4	< 3	172	< 3	1.49	< .2	1	6	12	2.19	15	0.26	29	0.02	405	2	0.05	1	0.021	17	< 3	166	11	0.02	< 8	2	< 2	22
97-405 1100-1120	0.3	0.9	12	< 3	347	3	0.98	0.2	3	7	9	2.39	210	0.25	23	0.07	617	2	0.04	1	0.023	20	5	192	9	0.01	< 8	7	< 2	64
97-405 1120-1140	< .3	0.45	12	< 3	187	< 3	1.02	< .2	1	12	8	1.97	80	0.22	23	0.03	345	3	0.05	3	0.033	18	3	166	8	0.01	< 8	2	< 2	30
97-405 1140-1160	< .3	0.4	8	< 3	120	3	1.33	< .2	< 1	14	9	1.89	50	0.22	24	0.02	387	3	0.04	2	0.024	20	< 3	159	8	0.01	< 8	2	< 2	20
97-405 1160-1180	< .3	0.48	6	< 3	154	< 3	1	< .2	1	14	5	1.66	35	0.22	29	0.03	347	3	0.05	1	0.031	22	< 3	172	9	0.01	< 8	2	< 2	17
97-405 1180-1200	< .3	0.48	9	< 3	139	< 3	1.02	< .2	1	7	5	1.59	20	0.25	30	0.02	426	2	0.05	3	0.019	21	3	154	9	0.01	< 8	1	< 2	13
97-405 1200-1220	0.3	0.81	11	< 3	88	4	0.94	< .2	2	17	9	2.1	100	0.29	25	0.06	465	4	0.04	3	0.029	27	3	193	8	< .01	< 8	3	< 2	60
97-405 1220-1240	0.3	0.82	9	< 3	206	5	1.04	< .2	2	9	7	1.56	90	0.3	27	0.07	542	2	0.07	3	0.032	24	3	191	9	< .01	< 8	5	< 2	58
97-405 1240-1260	< .3	0.75	< 2	< 3	240	5	1.61	< .2	1	3	5	1.96	10	0.32	31	0.03	910	1	0.05	< 1	0.028	22	< 3	154	10	< .01	< 8	1	< 2	56
97-405 1260-1280	< .3	0.7	2	< 3	230	6	1.42	< .2	1	2	5	1.55	10	0.33	32	0.02	680	1	0.05	2	0.028	20	< 3	151	10	< .01	< 8	< 1	< 2	44
97-405 1280-1300	< .3	0.78	< 2	< 3	115	< 3	1.49	0.2	1	1	11	1.92	10	0.32	31	0.02	770	1	0.04	1	0.025	38	3	141	9	< .01	< 8	1	< 2	68
97-405 1300-1320	< .3	0.75	11	< 3	219	3	1.63	< .2	1	5	6	2.04	70	0.28	25	0.04	784	2	0.04	< 1	0.026	23	< 3	193	7	< .01	< 8	2	< 2	62
97-405 1320-1340	< .3	0.77	3	< 3	205	< 3	2.14	0.5	1	6	5	2.16	25	0.3	28	0.03	867	2	0.04	< 1	0.028	24	< 3	175	8	0.01	< 8	1	< 2	61
97-405 1340-1360	< .3	0.74	9	< 3	122	< 3	1.33	< .2	1	4	7	2.08	50	0.31	34	0.03	713	2	0.04	1	0.026	24	< 3	164	9	0.01	< 8	2	< 2	60
STANDARD C3	5.7	1.83	55	17	145	27	0.56	23.4	11	165	66	3.42	930	0.16	18	0.61	724	26	0.04	34	0.087	32	20	28	18	0.1	22	80	24	159

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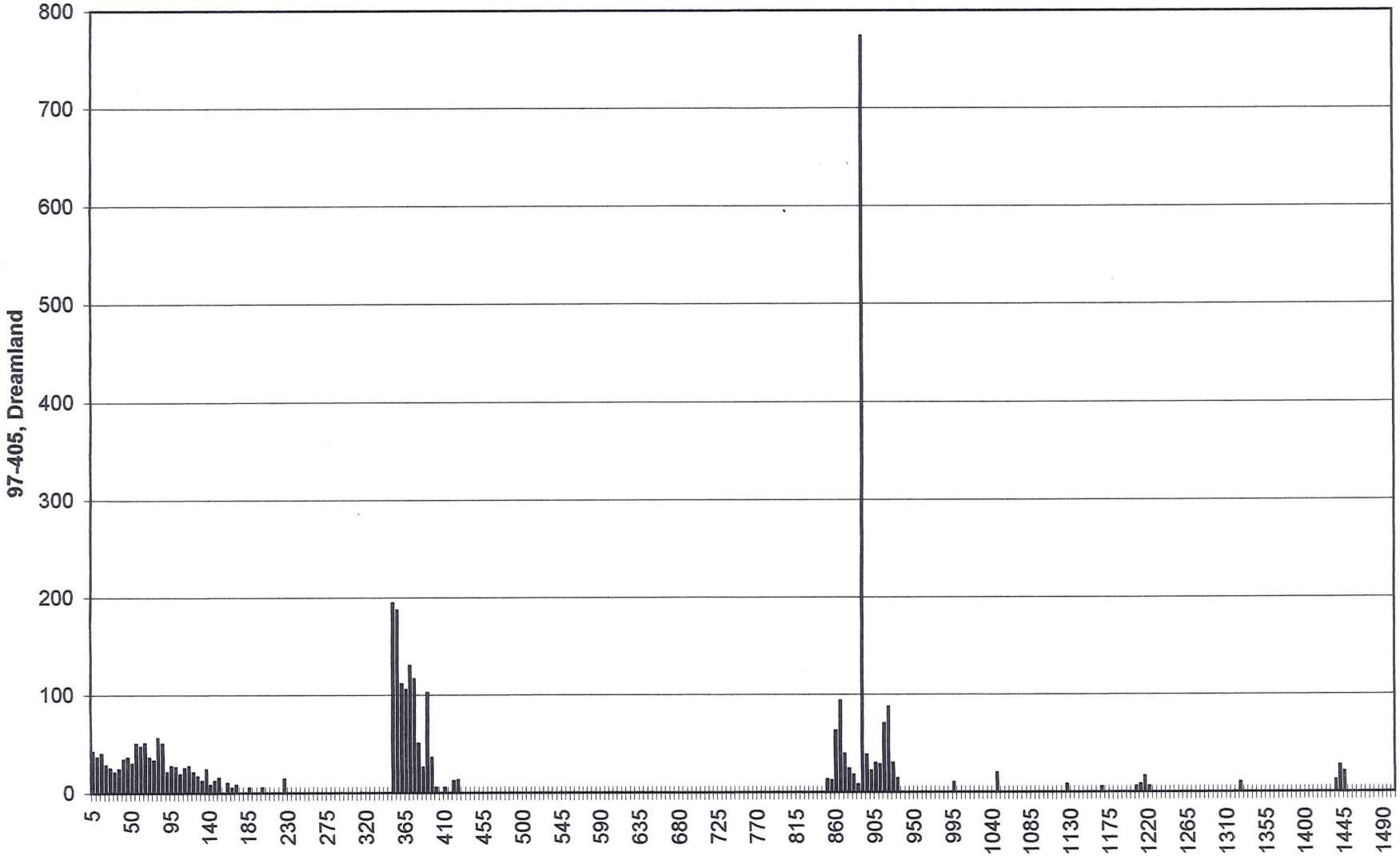
ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-405 1360-1380	< .3	0.79	6	3	76	< 3	1.22	0.4	2	9	11	2	80	0.34	54	0.05	1003	2	0.05	5	0.026	28	< 3	159	13	< .01	< 8	8	< 2	67
97-405 1380-1400	< .3	0.87	43	< 3	92	< 3	0.47	< .2	2	9	9	2.14	255	0.32	37	0.05	983	2	0.04	5	0.025	25	< 3	154	11	< .01	< 8	3	< 2	79
97-405 1400-1420	< .3	0.66	15	< 3	40	3	0.98	0.2	1	13	6	1.6	95	0.3	48	0.03	973	2	0.04	2	0.016	23	3	141	13	< .01	< 8	2	< 2	52
97-405 1420-1440	< .3	0.91	24	< 3	58	4	0.68	< .2	2	27	12	2.29	170	0.32	33	0.04	684	5	0.04	7	0.029	29	< 3	162	9	< .01	< 8	3	< 2	65
97-405 1440-1460	< .3	0.81	14	4	238	4	0.35	< .2	2	15	9	2.23	90	0.28	42	0.04	525	3	0.04	7	0.019	22	< 3	157	11	< .01	< 8	2	< 2	73
97-405 1460-1480	< .3	0.86	4	4	102	< 3	0.11	< .2	< 1	6	7	2.18	50	0.35	64	0.03	718	2	0.05	5	0.008	25	< 3	106	16	< .01	< 8	1	< 2	80
97-405 1480-1500	< .3	0.77	7	< 3	91	< 3	0.13	< .2	< 1	6	4	2.09	15	0.33	62	0.03	777	1	0.05	4	0.008	25	< 3	113	16	< .01	< 8	1	< 2	61

Au, ppb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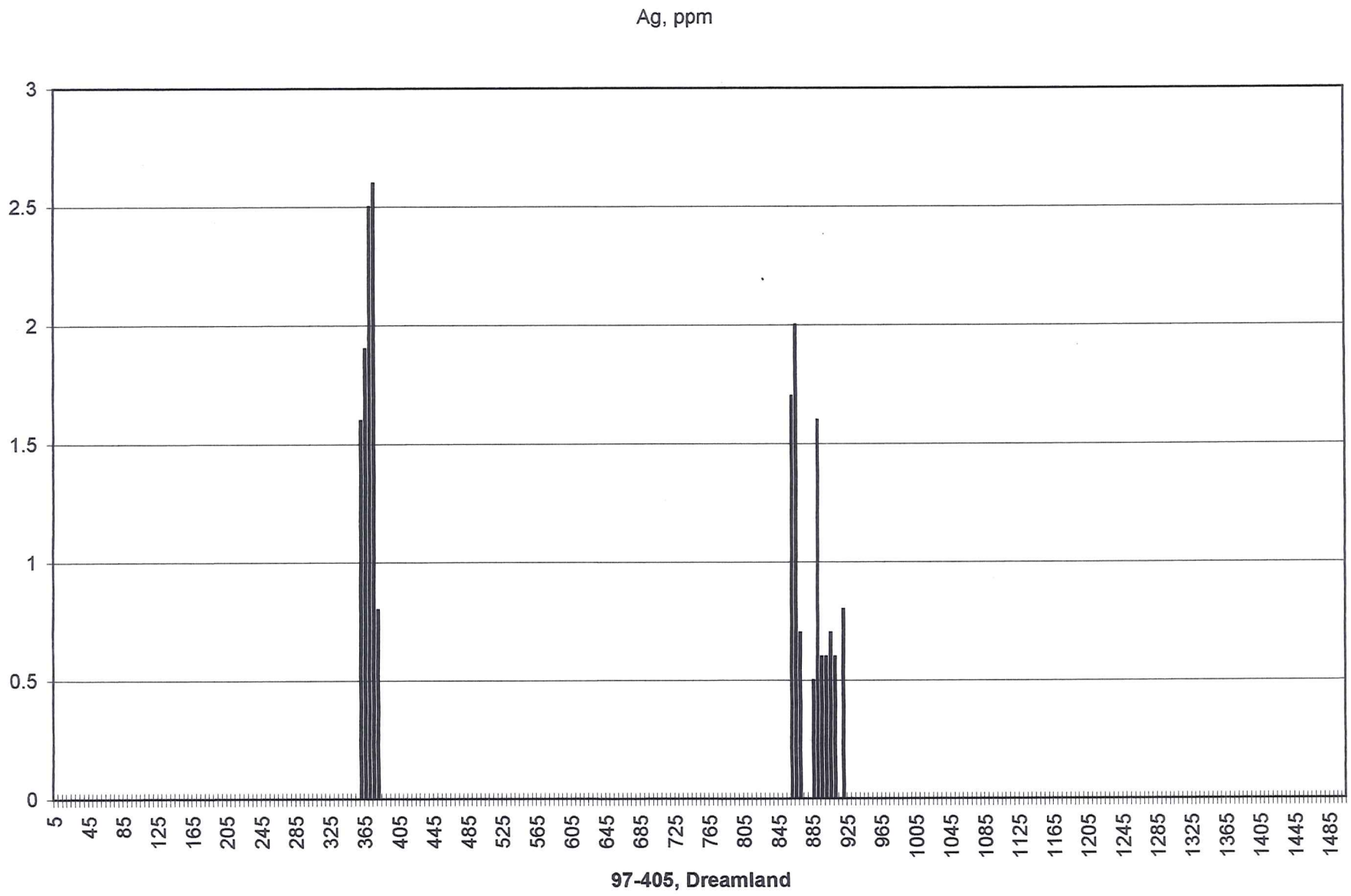
1490

Ag


Ag, ppm
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2
1.5
1
0.5
0
5
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85
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165
205
245
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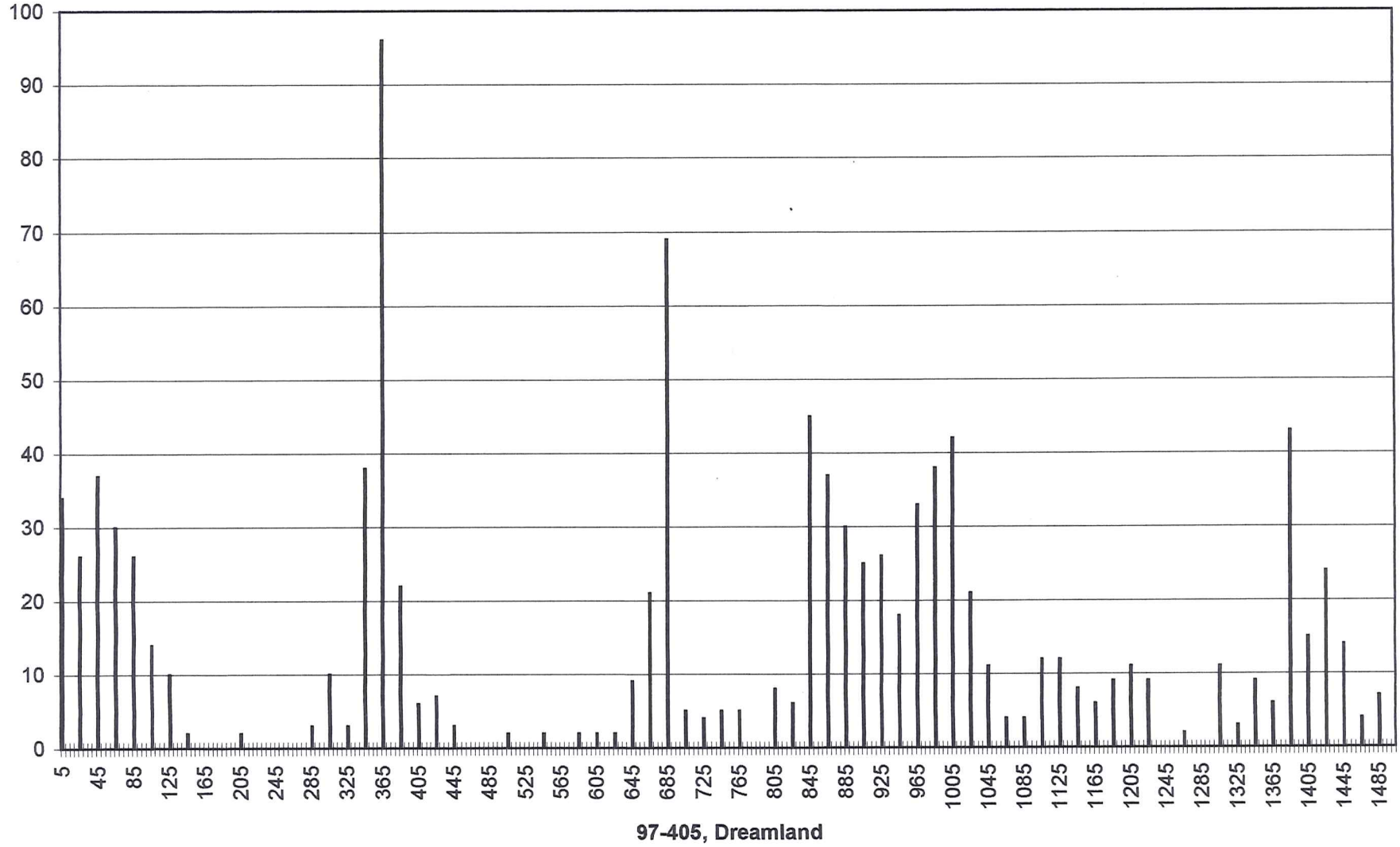
445
485
525
565
605
645
685
725
765
805
845
885
925
965
1005
1045
1085
1125
1165
1205
1245
1285
1325
1365
1405
1445
1485
97-405, Dreamland

As

As, ppm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70
60
50
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20
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5
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85
125
165
205
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405
445
485
525
565
605
645
685
725
765
805
845
885
925
965
1005
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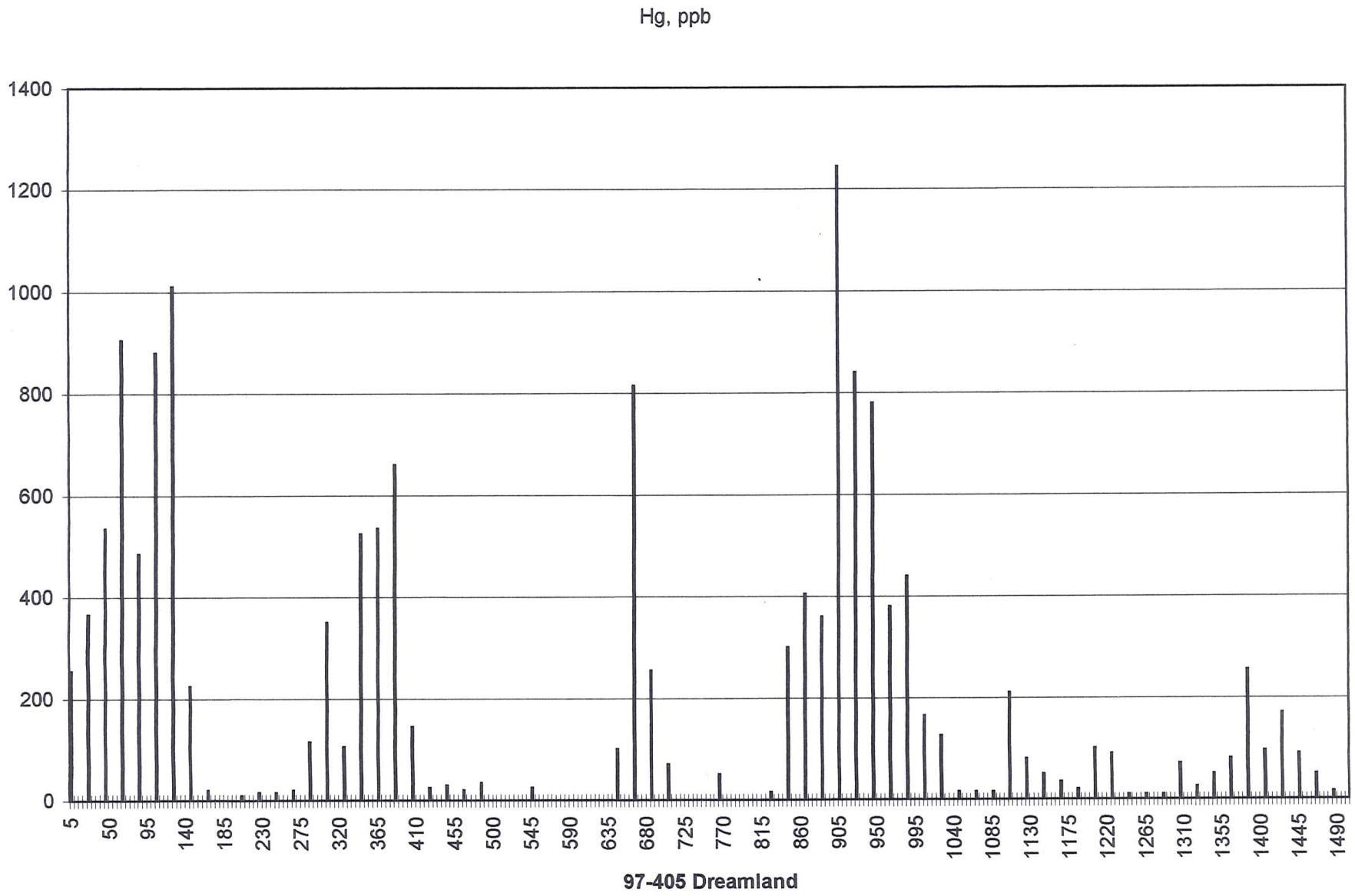
1085
1125
1165
1205
1245
1285
1325
1365
1405
1445
1485
97-405, Dreamland

Hg


Hg, ppb
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1200
1000
800
600
400
200
0
5
50
95
140
185
230
275
320
365
410
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500
545
590
635
680
725
770
815
860
905
950
995
1040
1085
1130
1175
1220
1265
1310
1355
1400
1445
1490
97-405 Dreamland

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 Ltd.*
CLIENT REF: ROSEBUD EXPLOARTION]
AAL REF: SP046134
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
97-405 0000-0020	1.1	1.01	34	13	162	7	0.5	< .2	2	8	14	3	255	0.19	22	0.17	104	2	0.22	4	0.023	22	23	74	8	0.01	< 8	22	< 2	47
97-405 0020-0040	< .3	0.76	26	3	128	< 3	0.11	< .2	1	9	9	3.61	365	0.12	11	0.06	81	2	0.02	3	0.013	18	35	50	5	0.01	< 8	29	4	25
97-405 0040-0060	< .3	0.65	37	< 3	141	< 3	0.08	< .2	1	12	14	2.99	535	0.14	19	0.05	153	3	0.01	5	0.01	9	27	49	8	0.01	9	15	2	23
97-405 0060-0080	< .3	0.69	30	4	134	< 3	0.07	< .2	2	11	13	2.48	905	0.14	19	0.05	122	4	0.01	7	0.011	5	25	60	7	0.01	< 8	10	< 2	18
97-405 0080-0100	< .3	0.68	26	< 3	109	< 3	0.08	< .2	2	6	15	2.82	485	0.14	13	0.04	707	2	0.01	3	0.012	38	20	50	8	0.01	< 8	16	< 2	49
97-405 0100-0120	< .3	0.66	14	< 3	95	< 3	0.15	< .2	6	5	11	2.58	880	0.16	17	0.07	2268	2	0.02	3	0.013	39	16	50	9	0.01	8	15	< 2	106
97-405 0120-0140	< .3	0.75	10	3	196	4	0.23	< .2	10	4	17	2.63	1010	0.16	22	0.09	2177	2	0.02	6	0.011	31	7	64	10	0.02	< 8	17	< 2	204
97-405 0140-0160	< .3	1.2	2	3	169	4	1.19	0.6	6	5	12	2.67	225	0.16	22	0.15	1194	1	0.04	2	0.029	20	4	129	9	0.02	< 8	29	< 2	168
97-405 0160-0180	< .3	0.72	< 2	3	131	< 3	0.9	< .2	3	4	6	2.74	20	0.13	20	0.07	430	1	0.04	< 1	0.032	16	< 3	115	9	0.03	< 8	23	< 2	86
97-405 0180-0200	< .3	1.68	< 2	3	205	< 3	1.14	< .2	7	8	14	3.32	< 10	0.18	19	0.1	470	1	0.05	5	0.028	18	< 3	226	9	0.01	< 8	50	< 2	94
97-405 0200-0220	< .3	1.55	2	< 3	132	4	1.19	< .2	5	6	8	2.97	10	0.17	22	0.09	626	1	0.04	1	0.02	29	4	190	10	0.01	< 8	38	< 2	70
97-405 0220-0240	< .3	1.61	< 2	< 3	150	< 3	1.24	0.5	2	3	3	2.36	15	0.17	18	0.08	624	1	0.04	< 1	0.031	33	4	194	10	0.01	< 8	20	< 2	98
97-405 0240-0260	< .3	1.67	< 2	< 3	117	7	0.79	< .2	3	3	7	2.6	15	0.16	17	0.07	423	2	0.04	< 1	0.015	35	4	186	11	0.01	< 8	17	< 2	89
97-405 0260-0280	< .3	1.3	< 2	< 3	63	4	0.62	< .2	1	3	4	2.59	20	0.16	14	0.05	301	1	0.04	1	0.013	27	5	162	13	0.01	< 8	15	2	71
97-405 0280-0300	< .3	1.19	3	< 3	206	< 3	0.45	< .2	1	2	3	2.29	115	0.19	13	0.04	470	1	0.03	< 1	0.006	25	4	159	12	0.01	< 8	12	< 2	88
97-405 0300-0320	0.3	0.82	10	3	92	< 3	0.29	0.3	2	2	6	2.43	350	0.18	16	0.04	1232	1	0.03	2	0.007	29	11	90	11	< .01	< 8	6	< 2	119
97-405 0320-0340	< .3	0.55	3	< 3	108	< 3	0.37	0.4	1	3	9	2.25	105	0.21	20	0.05	770	1	0.05	1	0.013	25	6	108	10	0.01	< 8	6	2	82
97-405 0340-0360	0.7	0.27	38	< 3	30	< 3	0.6	< .2	1	2	4	2.29	525	0.09	21	0.01	642	4	0.01	< 1	0.006	16	18	33	7	< .01	< 8	2	< 2	75
97-405 0360-0380	2	0.26	96	< 3	30	3	0.72	< .2	2	3	8	2.61	535	0.07	20	0.01	776	40	0.01	< 1	0.006	30	17	31	5	< .01	< 8	2	< 2	66
97-405 0380-0400	0.5	0.58	22	< 3	66	3	0.17	0.2	2	2	6	2.47	660	0.13	25	0.04	616	6	0.02	< 1	0.015	40	13	80	9	0.01	< 8	2	2	98
97-405 0400-0420	< .3	1.59	6	< 3	246	< 3	1.93	< .2	1	1	6	2.36	145	0.18	37	0.08	1097	2	0.05	< 1	0.031	34	5	392	11	0.01	< 8	6	< 2	78
97-405 0420-0440	< .3	1.65	7	< 3	141	< 3	1.86	0.5	1	3	4	2.02	25	0.2	34	0.12	655	2	0.07	< 1	0.029	30	4	472	9	< .01	< 8	7	< 2	49
97-405 0440-0460	< .3	1.34	3	4	78	< 3	1.86	0.6	3	6	4	1.89	30	0.19	14	0.13	598	1	0.06	1	0.027	26	3	335	7	0.01	< 8	15	< 2	44
97-405 0460-0480	0.5	1.44	< 2	< 3	86	< 3	2.35	0.2	3	5	9	2.2	20	0.18	18	0.19	984	1	0.06	2	0.052	25	4	446	5	0.01	< 8	14	< 2	50
97-405 0480-0500	0.3	1.1	< 2	4	112	10	1.72	< .2	5	5	11	3.29	35	0.14	25	0.18	772	1	0.06	2	0.093	15	4	389	5	0.03	< 8	20	< 2	67
97-405 0500-0520	0.3	0.68	2	6	76	8	1.37	0.2	6	8	15	4.15	< 10	0.17	27	0.12	648	3	0.05	2	0.105	22	5	152	8	0.06	< 8	23	< 2	59
97-405 0520-0540	0.4	0.5	< 2	< 3	64	4	1.39	< .2	6	7	13	4.11	< 10	0.17	27	0.1	785	2	0.05	< 1	0.112	20	5	115	8	0.07	< 8	25	< 2	61
97-405 0540-0560	0.3	0.58	2	< 3	100	5	1.31	< .2	5	8	11	3.99	25	0.17	28	0.09	664	2	0.05	< 1	0.097	15	3	137	8	0.05	< 8	25	< 2	57
97-405 0560-0580	< .3	1.68	< 2	< 3	138	8	2.34	0.2	7	6	11	3.74	< 10	0.25	31	0.26	701	1	0.1	1	0.115	25	3	507	6	0.02	< 8	22	< 2	70
97-405 0580-0600	< .3	1.31	2	< 3	148	4	2.66	< .2	4	5	12	3.44	< 10	0.21	30	0.21	811	1	0.09	< 1	0.106	26	3	430	7	0.03	8	17	< 2	68
97-405 0600-0620	0.3	0.66	2	< 3	68	6	3.47	< .2	5	4	6	3.5	< 10	0.17	29	0.11	998	< 1	0.05	3	0.11	20	4	253	8	0.06	< 8	16	< 2	72
97-405 0620-0640	< .3	1.45	2	< 3	114	4	2.6	< .2	6	4	7	3.61	< 10	0.18	26	0.28	897	1	0.08	< 1	0.106	24	4	388	6	0.02	< 8	22	< 2	81
97-405 0640-0660	< .3	1.22	9	< 3	339	< 3	2.91	< .2	5	2	5	2.45	100	0.14	19	0.18	679	< 1	0.06	< 1	0.1	24	4	425	6	0.01	< 8	19	< 2	115
97-405 0660-0680	< .3	1.34	21	< 3	32	6	0.75	0.3	14	2	8	3.67	815	0.26	26	0.18	815	1	0.05	< 1	0.126	26	7	224	7	0.01	< 8	17	< 2	180
STANDARD C3	5.3	1.83	53	21	148	20	0.56	21.2	12	168	63	3.38	935	0.15	18	0.59	726	25	0.04	38	0.087	35	19	28	17	0.1	26	80	24	157

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CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLOARTION]
AAL REF: SP046134
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
97-405 0680-0700	0.4	0.77	69	< 3	32	< 3	1.07	< .2	9	3	7	3.49	255	0.17	19	0.18	1073	1	0.02	< 1	0.104	22	7	95	7	0.02	< 8	20	< 2	97
97-405 0700-0720	0.3	0.68	5	< 3	42	< 3	1.19	< .2	7	4	8	3.7	70	0.14	18	0.21	676	2	0.03	< 1	0.095	16	4	108	6	0.04	< 8	36	< 2	85
97-405 0720-0740	< .3	0.58	4	3	49	< 3	1.45	< .2	7	5	13	3.98	< 10	0.11	15	0.27	674	2	0.05	1	0.094	10	3	161	6	0.05	< 8	39	< 2	91
97-405 0740-0760	0.3	0.71	5	4	44	< 3	1.36	< .2	7	6	14	3.89	< 10	0.13	16	0.27	654	2	0.06	2	0.092	13	< 3	153	6	0.06	< 8	35	< 2	89
97-405 0760-0780	< .3	0.72	5	< 3	55	< 3	1.74	0.2	5	7	10	3.56	50	0.19	17	0.15	781	2	0.06	2	0.087	14	3	204	5	0.06	< 8	31	< 2	84
97-405 0780-0800	0.3	1.32	< 2	< 3	116	< 3	2.22	< .2	2	3	4	1.6	< 10	0.27	16	0.24	559	1	0.07	< 1	0.036	18	4	452	5	0.01	< 8	10	< 2	43
97-405 0800-0820	0.3	1.35	8	< 3	110	< 3	1.48	0.4	1	1	3	1.68	< 10	0.28	16	0.2	351	1	0.06	< 1	0.034	25	< 3	437	5	0.01	< 8	8	< 2	61
97-405 0820-0840	< .3	0.97	6	< 3	143	< 3	1.88	0.7	2	2	6	1.47	15	0.26	14	0.09	413	1	0.05	< 1	0.04	34	3	335	4	0.01	< 8	6	< 2	60
97-405 0840-0860	0.6	1.36	45	5	108	26	0.9	< .2	3	2	6	2.35	300	0.37	12	0.12	203	1	0.04	< 1	0.045	36	10	286	4	< .01	< 8	6	< 2	74
97-405 0860-0880	1.1	0.66	37	< 3	43	4	0.55	< .2	2	3	7	2.56	405	0.21	20	0.04	408	2	0.02	< 1	0.046	28	12	171	7	< .01	< 8	3	< 2	70
97-405 0880-0900	0.7	1.07	30	< 3	40	< 3	0.67	< .2	4	2	7	2.13	360	0.33	17	0.06	440	2	0.03	1	0.042	32	8	222	7	< .01	< 8	4	< 2	85
97-405 0900-0920	0.8	0.62	25	< 3	36	< 3	0.57	0.6	2	3	5	2.33	1245	0.2	18	0.05	417	2	0.02	< 1	0.038	23	8	178	7	< .01	< 8	2	< 2	99
97-405 0920-0940	0.7	0.98	26	< 3	77	< 3	1.01	0.3	3	4	8	2.4	840	0.29	21	0.08	628	2	0.03	1	0.041	25	7	201	8	< .01	< 8	4	< 2	82
97-405 0940-0960	< .3	1.18	18	< 3	53	< 3	0.92	< .2	2	2	9	2.39	780	0.31	20	0.07	733	2	0.03	< 1	0.043	25	6	175	9	< .01	< 8	6	< 2	75
97-405 0960-0980	0.3	0.93	33	< 3	130	< 3	0.77	0.3	2	1	6	1.76	380	0.26	16	0.07	778	1	0.03	< 1	0.036	30	5	202	9	< .01	< 8	3	< 2	78
97-405 0980-1000	0.3	1.25	38	4	133	< 3	0.69	< .2	4	16	11	2.33	440	0.26	21	0.12	871	4	0.06	1	0.03	33	8	205	10	< .01	< 8	11	< 2	114
97-405 1000-1020	0.4	1.02	42	< 3	207	6	0.63	0.2	2	4	5	1.74	165	0.29	22	0.07	387	2	0.03	< 1	0.036	28	7	261	8	< .01	< 8	5	< 2	56
97-405 1020-1040	< .3	0.94	21	< 3	295	5	1.5	0.5	2	4	6	1.58	125	0.37	33	0.07	692	1	0.03	< 1	0.032	23	6	300	7	< .01	< 8	3	< 2	68
97-405 1040-1060	< .3	0.65	11	< 3	102	< 3	1.44	< .2	2	5	6	2.42	15	0.31	23	0.04	543	2	0.04	< 1	0.02	27	6	221	7	0.01	< 8	2	< 2	43
97-405 1060-1080	< .3	0.51	4	< 3	73	< 3	1.48	0.2	< 1	5	6	1.57	15	0.26	25	0.03	620	1	0.04	< 1	0.021	39	< 3	178	10	0.01	< 8	2	< 2	18
97-405 1080-1100	0.3	0.47	4	< 3	172	< 3	1.49	< .2	1	6	12	2.19	15	0.26	29	0.02	405	2	0.05	1	0.021	17	< 3	166	11	0.02	< 8	2	< 2	22
97-405 1100-1120	0.3	0.9	12	< 3	347	3	0.98	0.2	3	7	9	2.39	210	0.25	23	0.07	617	2	0.04	1	0.023	20	5	192	9	0.01	< 8	7	< 2	64
97-405 1120-1140	< .3	0.45	12	< 3	187	< 3	1.02	< .2	1	12	8	1.97	80	0.22	23	0.03	345	3	0.05	3	0.033	18	3	166	8	0.01	< 8	2	< 2	30
97-405 1140-1160	< .3	0.4	8	< 3	120	3	1.33	< .2	< 1	14	9	1.89	50	0.22	24	0.02	387	3	0.04	2	0.024	20	< 3	159	8	0.01	< 8	2	< 2	20
97-405 1160-1180	< .3	0.48	6	< 3	154	< 3	1	< .2	1	14	5	1.66	35	0.22	29	0.03	347	3	0.05	1	0.031	22	< 3	172	9	0.01	< 8	2	< 2	17
97-405 1180-1200	< .3	0.48	9	< 3	139	< 3	1.02	< .2	1	7	5	1.59	20	0.25	30	0.02	426	2	0.05	3	0.019	21	3	154	9	0.01	< 8	1	< 2	13
97-405 1200-1220	0.3	0.81	11	< 3	88	4	0.94	< .2	2	17	9	2.1	100	0.29	25	0.06	465	4	0.04	3	0.029	27	3	193	8	< .01	< 8	3	< 2	60
97-405 1220-1240	0.3	0.82	9	< 3	206	5	1.04	< .2	2	9	7	1.56	90	0.3	27	0.07	542	2	0.07	3	0.032	24	3	191	9	< .01	< 8	5	< 2	58
97-405 1240-1260	< .3	0.75	< 2	< 3	240	5	1.61	< .2	1	3	5	1.96	10	0.32	31	0.03	910	1	0.05	< 1	0.028	22	< 3	154	10	< .01	< 8	1	< 2	56
97-405 1260-1280	< .3	0.7	2	< 3	230	6	1.42	< .2	1	2	5	1.55	10	0.33	32	0.02	680	1	0.05	2	0.028	20	< 3	151	10	< .01	< 8	< 1	< 2	44
97-405 1280-1300	< .3	0.78	< 2	< 3	115	< 3	1.49	0.2	1	1	11	1.92	10	0.32	31	0.02	770	1	0.04	1	0.025	38	3	141	9	< .01	< 8	1	< 2	68
97-405 1300-1320	< .3	0.75	11	< 3	219	3	1.63	< .2	1	5	6	2.04	70	0.28	25	0.04	784	2	0.04	< 1	0.026	23	< 3	193	7	< .01	< 8	2	< 2	62
97-405 1320-1340	< .3	0.77	3	< 3	205	< 3	2.14	0.5	1	6	5	2.16	25	0.3	28	0.03	867	2	0.04	< 1	0.028	24	< 3	175	8	0.01	< 8	1	< 2	61
97-405 1340-1360	< .3	0.74	9	< 3	122	< 3	1.33	< .2	1	4	7	2.08	50	0.31	34	0.03	713	2	0.04	1	0.026	24	< 3	164	9	0.01	< 8	2	< 2	60
STANDARD C3	5.7	1.83	55	17	145	27	0.56	23.4	11	165	66	3.42	930	0.16	18	0.61	724	26	0.04	34	0.087	32	20	28	18	0.1	22	80	24	159

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
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CLIENT:	*NEWMONT EXPLORATION Ltd.*
CLIENT REF:	ROSEBUD EXPLOARTION]
AAL REF:	SP046134
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
97-405 1360-1380	< .3	0.79	6	3	76	< 3	1.22	0.4	2	9	11	2	80	0.34	54	0.05	1003	2	0.05	5	0.026	28	< 3	159	13	< .01	< 8	8	< 2	67
97-405 1380-1400	< .3	0.87	43	< 3	92	< 3	0.47	< .2	2	9	9	2.14	255	0.32	37	0.05	983	2	0.04	5	0.025	25	< 3	154	11	< .01	< 8	3	< 2	79
97-405 1400-1420	< .3	0.66	15	< 3	40	3	0.98	0.2	1	13	6	1.6	95	0.3	48	0.03	973	2	0.04	2	0.016	23	3	141	13	< .01	< 8	2	< 2	52
97-405 1420-1440	< .3	0.91	24	< 3	58	4	0.68	< .2	2	27	12	2.29	170	0.32	33	0.04	684	5	0.04	7	0.029	29	< 3	162	9	< .01	< 8	3	< 2	65
97-405 1440-1460	< .3	0.81	14	4	238	4	0.35	< .2	2	15	9	2.23	90	0.28	42	0.04	525	3	0.04	7	0.019	22	< 3	157	11	< .01	< 8	2	< 2	73
97-405 1460-1480	< .3	0.86	4	4	102	< 3	0.11	< .2	< 1	6	7	2.18	50	0.35	64	0.03	718	2	0.05	5	0.008	25	< 3	106	16	< .01	< 8	1	< 2	80
97-405 1480-1500	< .3	0.77	7	< 3	91	< 3	0.13	< .2	< 1	6	4	2.09	15	0.33	62	0.03	777	1	0.05	4	0.008	25	< 3	113	16	< .01	< 8	1	< 2	61

SP

SUBMITTAL FORM

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Santiago, Chile
Mendoza, Argentina

Company: Newmont Exploration Ltd

Address: 861 W. 6th St

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 623-1052

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 8/25/97 Number of Samples: 300

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-405	RC	Au, Ag FA-AA, each Sample
0 – 1500 TD		
		And
		ICP Pkg on 4-Sample Composites
		And:
		Hg-AA on the composites

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:

~~Randy Vance~~ N.E.L. - Winnemucca
Charlotte Ballew

Results to:

Rick Lisle
Randy Vance } Newmont, Winnemucca

Kurt Allen - Rosebud Mine

Comments:

Please fax prelim. results to Rosebud at 623-6967

CLIENT FILE COPY

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
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CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLOARTION
AAL REF: SP046134
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
97-405 0000-0020	1.1	1.01	34	13	162	7	0.5	< .2	2	8	14	3	255	0.19	22	0.17	104	2	0.22	4	0.023	22	23	74	8	0.01	< 8	22	< 2	47
97-405 0020-0040	< .3	0.76	26	3	128	< 3	0.11	< .2	1	9	9	3.61	365	0.12	11	0.06	81	2	0.02	3	0.013	18	35	50	5	0.01	< 8	29	4	25
97-405 0040-0060	< .3	0.65	37	< 3	141	< 3	0.08	< .2	1	12	14	2.99	535	0.14	19	0.05	153	3	0.01	5	0.01	9	27	49	8	0.01	9	15	2	23
97-405 0060-0080	< .3	0.69	30	4	134	< 3	0.07	< .2	2	11	13	2.48	905	0.14	19	0.05	122	4	0.01	7	0.011	5	25	60	7	0.01	< 8	10	< 2	18
97-405 0080-0100	< .3	0.68	26	< 3	109	< 3	0.08	< .2	2	6	15	2.82	485	0.14	13	0.04	707	2	0.01	3	0.012	38	20	50	8	0.01	< 8	16	< 2	49
97-405 0100-0120	< .3	0.66	14	< 3	95	< 3	0.15	< .2	6	5	11	2.58	880	0.16	17	0.07	2268	2	0.02	3	0.013	39	16	50	9	0.01	8	15	< 2	106
97-405 0120-0140	< .3	0.75	10	3	186	4	0.23	< .2	10	4	17	2.63	1010	0.16	22	0.09	2177	2	0.02	6	0.011	31	7	64	10	0.02	< 8	17	< 2	204
97-405 0140-0160	< .3	1.2	2	3	169	4	1.19	0.6	6	5	12	2.67	225	0.16	22	0.15	1194	1	0.04	2	0.029	20	4	129	9	0.02	< 8	29	< 2	168
97-405 0160-0180	< .3	0.72	< 2	3	131	< 3	0.9	< .2	3	4	6	2.74	20	0.13	20	0.07	430	1	0.04	< 1	0.032	16	< 3	115	9	0.03	< 8	23	< 2	86
97-405 0180-0200	< .3	1.68	< 2	3	205	< 3	1.14	< .2	7	8	14	3.32	< 10	0.18	19	0.1	470	1	0.05	5	0.028	18	< 3	226	9	0.01	< 8	50	< 2	94
97-405 0200-0220	< .3	1.55	2	< 3	132	4	1.19	< .2	5	6	8	2.97	10	0.17	22	0.09	626	1	0.04	1	0.02	29	4	190	10	0.01	< 8	38	< 2	70
97-405 0220-0240	< .3	1.61	< 2	< 3	150	< 3	1.24	0.5	2	3	3	2.36	15	0.17	18	0.08	624	1	0.04	< 1	0.031	33	4	194	10	0.01	< 8	20	< 2	98
97-405 0240-0260	< .3	1.67	< 2	< 3	117	7	0.79	< .2	3	3	7	2.6	15	0.16	17	0.07	423	2	0.04	< 1	0.015	35	4	186	11	0.01	< 8	17	< 2	89
97-405 0260-0280	< .3	1.3	< 2	< 3	63	4	0.62	< .2	1	3	4	2.59	20	0.16	14	0.05	301	1	0.04	1	0.013	27	5	162	13	0.01	< 8	15	2	71
97-405 0280-0300	< .3	1.19	3	< 3	206	< 3	0.45	< .2	1	2	3	2.29	115	0.19	13	0.04	470	1	0.03	< 1	0.006	25	4	159	12	0.01	< 8	12	< 2	88
97-405 0300-0320	0.3	0.82	10	3	92	< 3	0.29	0.3	2	2	6	2.43	350	0.18	16	0.04	1232	1	0.03	2	0.007	29	11	90	11	< .01	< 8	6	< 2	119
97-405 0320-0340	< .3	0.55	3	< 3	108	< 3	0.37	0.4	1	3	9	2.25	105	0.21	20	0.05	770	1	0.05	1	0.013	25	6	108	10	0.01	< 8	6	2	82
97-405 0340-0360	0.7	0.27	38	< 3	30	< 3	0.6	< .2	1	2	4	2.29	525	0.09	21	0.01	642	4	0.01	< 1	0.006	16	18	33	7	< .01	< 8	2	< 2	75
97-405 0360-0380	2	0.26	96	< 3	30	3	0.72	< .2	2	3	8	2.61	535	0.07	20	0.01	776	40	0.01	< 1	0.006	30	17	31	5	< .01	< 8	2	< 2	66
97-405 0380-0400	0.5	0.58	22	< 3	66	3	0.17	0.2	2	2	6	2.47	660	0.13	25	0.04	616	6	0.02	< 1	0.015	40	13	80	9	0.01	< 8	2	2	98
97-405 0400-0420	< .3	1.59	6	< 3	246	< 3	1.93	< .2	1	1	6	2.36	145	0.18	37	0.08	1097	2	0.05	< 1	0.031	34	5	392	11	0.01	< 8	6	< 2	78
97-405 0420-0440	< .3	1.65	7	< 3	141	< 3	1.86	0.5	1	3	4	2.02	25	0.2	34	0.12	655	2	0.07	< 1	0.029	30	4	472	9	< .01	< 8	7	< 2	49
97-405 0440-0460	< .3	1.34	3	4	78	< 3	1.86	0.6	3	6	4	1.89	30	0.19	14	0.13	598	1	0.06	1	0.027	26	3	335	7	0.01	< 8	15	< 2	44
97-405 0460-0480	0.5	1.44	< 2	< 3	86	< 3	2.35	0.2	3	5	9	2.2	20	0.18	18	0.19	984	1	0.06	2	0.052	25	4	446	5	0.01	< 8	14	< 2	50
97-405 0480-0500	0.3	1.1	< 2	4	112	10	1.72	< .2	5	5	11	3.29	35	0.14	25	0.18	772	1	0.06	2	0.093	15	4	389	5	0.03	< 8	20	< 2	67
97-405 0500-0520	0.3	0.68	2	6	76	8	1.37	0.2	6	8	15	4.15	< 10	0.17	27	0.12	648	3	0.05	2	0.105	22	5	152	8	0.06	< 8	23	< 2	59
97-405 0520-0540	0.4	0.5	< 2	< 3	64	4	1.39	< .2	6	7	13	4.11	< 10	0.17	27	0.1	785	2	0.05	< 1	0.112	20	5	115	8	0.07	< 8	25	< 2	61
97-405 0540-0560	0.3	0.58	2	< 3	100	5	1.31	< .2	5	8	11	3.98	25	0.17	28	0.09	664	2	0.05	< 1	0.097	15	3	137	8	0.05	< 8	25	< 2	57
97-405 0560-0580	< .3	1.68	< 2	< 3	138	8	2.34	0.2	7	6	11	3.74	< 10	0.25	31	0.26	701	1	0.1	1	0.115	25	3	507	6	0.02	< 8	22	< 2	70
97-405 0580-0600	< .3	1.31	2	< 3	148	4	2.66	< .2	4	5	12	3.44	< 10	0.21	30	0.21	811	1	0.09	< 1	0.106	25	3	430	7	0.03	8	17	< 2	68
97-405 0600-0620	0.3	0.86	2	< 3	68	6	3.47	< .2	5	4	6	3.5	< 10	0.17	29	0.11	998	< 1	0.05	3	0.11	20	4	253	8	0.06	< 8	16	< 2	72
97-405 0620-0640	< .3	1.45	2	< 3	114	4	2.6	< .2	6	4	7	3.61	< 10	0.18	26	0.28	897	1	0.08	< 1	0.106	24	4	388	6	0.02	< 8	22	< 2	81
97-405 0640-0660	< .3	1.22	9	< 3	339	< 3	2.91	< .2	5	2	5	2.45	100	0.14	19	0.18	679	< 1	0.06	< 1	0.1	24	4	425	6	0.01	< 8	19	< 2	115
97-405 0660-0680	< .3	1.34	21	< 3	32	6	0.75	0.3	14	2	8	3.67	815	0.26	26	0.18	815	1	0.05	< 1	0.126	26	7	224	7	0.01	< 8	17	< 2	180
STANDARD C3	5.3	1.83	53	21	148	20	0.56	21.2	12	168	63	3.38	935	0.15	18	0.59	726	25	0.04	38	0.087	35	19	28	17	0.1	26	80	24	157

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CLIENT REF: ROSEBUD EXPLOARTION]
AAL REF: SP046134
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
97-405 0680-0700	0.4	0.77	69	< 3	32	< 3	1.07	< .2	9	3	7	3.49	255	0.17	19	0.18	1073	1	0.02	< 1	0.104	22	7	95	7	0.02	< 8	20	< 2	97
97-405 0700-0720	0.3	0.68	5	< 3	42	< 3	1.19	< .2	7	4	8	3.7	70	0.14	18	0.21	676	2	0.03	< 1	0.095	16	4	108	6	0.04	< 8	36	< 2	85
97-405 0720-0740	< .3	0.58	4	3	49	< 3	1.45	< .2	7	5	13	3.98	< 10	0.11	15	0.27	674	2	0.05	1	0.094	10	3	161	6	0.05	< 8	39	< 2	91
97-405 0740-0760	0.3	0.71	5	4	44	< 3	1.36	< .2	7	6	14	3.89	< 10	0.13	16	0.27	654	2	0.06	2	0.092	13	< 3	153	6	0.06	< 8	35	< 2	89
97-405 0760-0780	< .3	0.72	5	< 3	55	< 3	1.74	0.2	5	7	10	3.56	50	0.19	17	0.15	781	2	0.06	2	0.097	14	3	204	5	0.06	< 8	31	< 2	84
97-405 0780-0800	0.3	1.32	< 2	< 3	116	< 3	2.22	< .2	2	3	4	1.5	< 10	0.27	16	0.24	559	1	0.07	< 1	0.036	18	4	452	5	0.01	< 8	10	< 2	43
97-405 0800-0820	0.3	1.35	8	< 3	110	< 3	1.48	0.4	1	1	3	1.68	< 10	0.28	16	0.2	351	1	0.06	< 1	0.034	25	< 3	437	5	0.01	< 8	8	< 2	61
97-405 0820-0840	< .3	0.97	6	< 3	143	< 3	1.88	0.7	2	2	6	1.47	15	0.26	14	0.09	413	1	0.05	< 1	0.04	34	3	335	4	0.01	< 8	6	< 2	60
97-405 0840-0860	0.6	1.36	45	5	108	26	0.9	< .2	3	2	6	2.35	300	0.37	12	0.12	203	1	0.04	< 1	0.045	36	10	286	4	< .01	< 8	6	< 2	74
97-405 0860-0880	1.1	0.66	37	< 3	43	4	0.55	< .2	2	3	7	2.56	405	0.21	20	0.04	408	2	0.02	< 1	0.046	28	12	171	7	< .01	< 8	3	< 2	70
97-405 0880-0900	0.7	1.07	30	< 3	40	< 3	0.67	< .2	4	2	7	2.13	360	0.33	17	0.06	440	2	0.03	1	0.042	32	8	222	7	< .01	< 8	4	< 2	85
97-405 0900-0920	0.8	0.62	25	< 3	36	< 3	0.57	0.6	2	3	5	2.33	1245	0.2	18	0.05	417	2	0.02	< 1	0.038	23	8	178	7	< .01	< 8	2	< 2	99
97-405 0920-0940	0.7	0.98	26	< 3	77	< 3	1.01	0.3	3	4	8	2.4	840	0.29	21	0.08	628	2	0.03	1	0.041	25	7	201	8	< .01	< 8	4	< 2	82
97-405 0940-0960	< .3	1.18	18	< 3	53	< 3	0.92	< .2	2	2	9	2.39	780	0.31	20	0.07	733	2	0.03	< 1	0.043	25	6	175	9	< .01	< 8	6	< 2	75
97-405 0960-0980	0.3	0.93	33	< 3	130	< 3	0.77	0.3	2	1	6	1.76	380	0.26	16	0.07	778	1	0.03	< 1	0.036	30	5	202	9	< .01	< 8	3	< 2	78
97-405 0980-1000	0.3	1.25	38	4	133	< 3	0.69	< .2	4	16	11	2.33	440	0.26	21	0.12	871	4	0.06	1	0.03	33	8	205	10	< .01	< 8	11	< 2	114
97-405 1000-1020	0.4	1.02	42	< 3	207	6	0.63	0.2	2	4	5	1.74	165	0.29	22	0.07	387	2	0.03	< 1	0.036	28	7	261	8	< .01	< 8	5	< 2	56
97-405 1020-1040	< .3	0.94	21	< 3	295	5	1.5	0.5	2	4	6	1.58	125	0.37	33	0.07	692	1	0.03	< 1	0.032	23	6	300	7	< .01	< 8	3	< 2	68
97-405 1040-1060	< .3	0.65	11	< 3	102	< 3	1.44	< .2	2	5	6	2.42	15	0.31	23	0.04	543	2	0.04	< 1	0.02	27	6	221	7	0.01	< 8	2	< 2	43
97-405 1060-1080	< .3	0.51	4	< 3	73	< 3	1.48	0.2	< 1	5	6	1.57	15	0.26	25	0.03	620	1	0.04	< 1	0.021	39	< 3	178	10	0.01	< 8	2	< 2	18
97-405 1080-1100	0.3	0.47	4	< 3	172	< 3	1.49	< .2	1	6	12	2.19	15	0.26	29	0.02	405	2	0.05	1	0.021	17	< 3	166	11	0.02	< 8	2	< 2	22
97-405 1100-1120	0.3	0.9	12	< 3	347	3	0.98	0.2	3	7	9	2.39	210	0.25	23	0.07	617	2	0.04	1	0.023	20	5	192	9	0.01	< 8	7	< 2	64
97-405 1120-1140	< .3	0.45	12	< 3	187	< 3	1.02	< .2	1	12	8	1.97	80	0.22	23	0.03	345	3	0.05	3	0.033	18	3	166	8	0.01	< 8	2	< 2	30
97-405 1140-1160	< .3	0.4	8	< 3	120	3	1.33	< .2	< 1	14	9	1.89	50	0.22	24	0.02	387	3	0.04	2	0.024	20	< 3	159	8	0.01	< 8	2	< 2	20
97-405 1160-1180	< .3	0.48	6	< 3	154	< 3	1	< .2	1	14	5	1.66	35	0.22	29	0.03	347	3	0.05	1	0.031	22	< 3	172	9	0.01	< 8	2	< 2	17
97-405 1180-1200	< .3	0.48	9	< 3	139	< 3	1.02	< .2	1	7	5	1.59	20	0.25	30	0.02	426	2	0.05	3	0.019	21	3	154	9	0.01	< 8	1	< 2	13
97-405 1200-1220	0.3	0.81	11	< 3	88	4	0.94	< .2	2	17	9	2.1	100	0.29	25	0.06	465	4	0.04	3	0.029	27	3	193	8	< .01	< 8	3	< 2	60
97-405 1220-1240	0.3	0.82	9	< 3	206	5	1.04	< .2	2	9	7	1.56	90	0.3	27	0.07	542	2	0.07	3	0.032	24	3	191	9	< .01	< 8	5	< 2	58
97-405 1240-1260	< .3	0.75	< 2	< 3	240	5	1.61	< .2	1	3	5	1.96	10	0.32	31	0.03	910	1	0.05	< 1	0.028	22	< 3	154	10	< .01	< 8	1	< 2	56
97-405 1260-1280	< .3	0.7	2	< 3	230	6	1.42	< .2	1	2	5	1.55	10	0.33	32	0.02	680	1	0.05	2	0.028	20	< 3	151	10	< .01	< 8	< 1	< 2	44
97-405 1280-1300	< .3	0.78	< 2	< 3	115	< 3	1.49	0.2	1	1	11	1.92	10	0.32	31	0.02	770	1	0.04	1	0.025	38	3	141	9	< .01	< 8	1	< 2	68
97-405 1300-1320	< .3	0.75	11	< 3	219	3	1.63	< .2	1	5	6	2.04	70	0.28	25	0.04	784	2	0.04	< 1	0.026	23	< 3	193	7	< .01	< 8	2	< 2	62
97-405 1320-1340	< .3	0.77	3	< 3	205	< 3	2.14	0.5	1	6	5	2.16	25	0.3	28	0.03	867	2	0.04	< 1	0.028	24	< 3	175	8	0.01	< 8	1	< 2	61
97-405 1340-1360	< .3	0.74	9	< 3	122	< 3	1.33	< .2	1	4	7	2.08	50	0.31	34	0.03	713	2	0.04	1	0.026	24	< 3	164	9	0.01	< 8	2	< 2	60
STANDARD C3	5.7	1.83	55	17	145	27	0.56	23.4	11	165	66	3.42	930	0.16	18	0.61	724	26	0.04	34	0.087	32	20	28	18	0.1	22	80	24	159

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CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLOARTION
AAL REF: SP046134
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
97-405 1360-1380	<.3	0.79	6	3	76	<3	1.22	0.4	2	9	11	2	80	0.34	54	0.05	1003	2	0.05	5	0.026	28	<3	159	13	<.01	<8	8	<2	67
97-405 1380-1400	<.3	0.87	43	<3	92	<3	0.47	<.2	2	9	9	2.14	255	0.32	37	0.05	983	2	0.04	5	0.025	25	<3	154	11	<.01	<8	3	<2	79
97-405 1400-1420	<.3	0.66	15	<3	40	3	0.98	0.2	1	13	6	1.6	95	0.3	48	0.03	973	2	0.04	2	0.016	23	3	141	13	<.01	<8	2	<2	52
97-405 1420-1440	<.3	0.91	24	<3	58	4	0.68	<.2	2	27	12	2.29	170	0.32	33	0.04	684	5	0.04	7	0.029	29	<3	162	9	<.01	<8	3	<2	65
97-405 1440-1460	<.3	0.81	14	4	238	4	0.35	<.2	2	15	9	2.23	90	0.28	42	0.04	525	3	0.04	7	0.019	22	<3	157	11	<.01	<8	2	<2	73
97-405 1460-1480	<.3	0.86	4	4	102	<3	0.11	<.2	<1	6	7	2.18	50	0.35	64	0.03	718	2	0.05	5	0.008	25	<3	106	16	<.01	<8	1	<2	80
97-405 1480-1500	<.3	0.77	7	<3	91	<3	0.13	<.2	<1	6	4	2.09	15	0.33	62	0.03	777	1	0.05	4	0.008	25	<3	113	16	<.01	<8	1	<2	61

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
     - **f** – feldspar
     - **p** – plagioclase
     - **k** - K-feldspar
     - **b** - biotite
     - **h** - hornblende
     - **y** - pyroxene
     - **o** - olivine
4. Parentheses – Descriptive Features
   - **am** – amygdaloidal
   - **bd** – banded
   - **gl** - glassy
   - **lm** – laminated (planar features =<2 mm)
   - **mmb** – contains mafic magma blobs
   - **sp** - spherulitic
   - **ve** - vesicular

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