60001148

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File – Hole No. RS-D351-99
AUTHOR	D. Macherrone; L. Macedon; C. Ballew; R. Vance; K Allen
DATE OF DOC(S)	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; Rosebud Mining Co. LLC Hecla Mining Co.; Newmont Gold Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 200' receipt; handwritten notes; downhole camera images geochemistry; down hole survey 34p. 2 down hole camera images

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

	Initials	Date
SS:	DD	5/13/08
DB:	mch	
SCANNED:	NB	

Revised: 1/22/08

RS-D351-99

351

60001148 4010

6000 1148

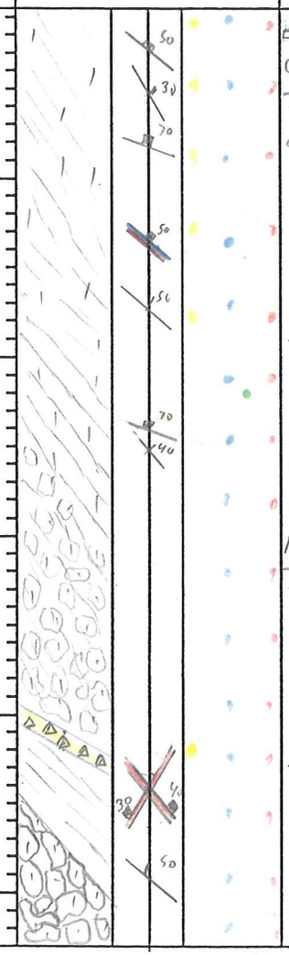
- quartz, chalcedony, silicification
- faults, fractures
- FeOx
- sulfide
- calcite, carbonate
- argillization, white clays
- propylitization
- potassic alteration
- chlorite, chloritic clays

Hecla MINING COMPANY

ROSEBUD PROJECT DIAMOND DRILL LOG

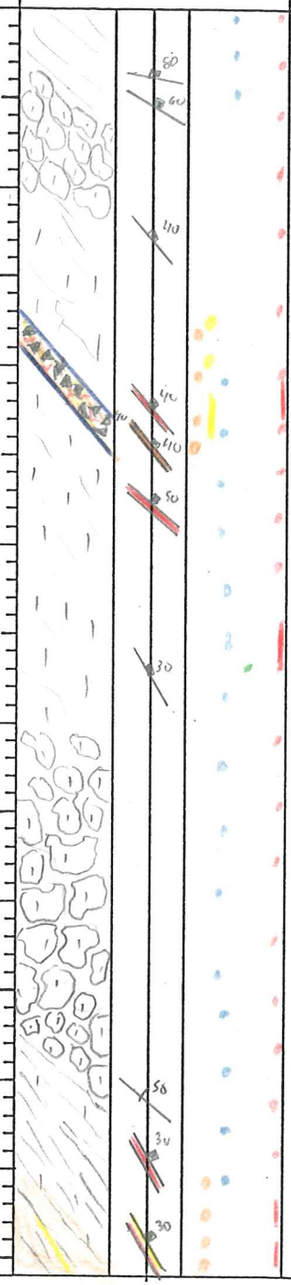
HOLE NUMBER	RS-D351-99	LOCATION	Vent Raise
PAGE 1 OF 4		NORTHING	
DATE	5-11-99	EASTING	
LOGGED BY	D.G. Mackeiran	ELEVATION	
SCALE	1" = 10'	AZIMUTH	S67°E
TOTAL DEPTH	200	INCLINATION	-21

REMARKS

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td	R	DOZER Fine grained rhyolite Flow. Pale gray white color with a trace of pink to Purticular flow laminations Rock is very hard and Probably partially silicified. "Wispy" foliation of 30°+cu 47-62.5 Autobreccia texture. Texture grades in to ohealed Fracture pattered	10 20 30 40 50		0-20 Frequency qtz vein present traces of calcite along with the qtz 14.7 calcite forms 1/4" vein 25.3-41 Autobreccia textures that appear partially absorbed. 41-42 weak crackle breccia 18-52 Low to no natural fractures 45 Two crosscutting sulfide veins do not offset each other	0-20 qtz/calcite vn with Pyrite and Marcasite. Bladed marcasite present in a calcite vein at 14.7' 0-21 Silicification has made core very hard 23- Trace of chlorite on fracture with calcite 70° tca

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
0	5					
5	10					
10	15					
15	20					
20	25					
25	30					
30	34					
34	37					
37	42					
42	47					
47	52					

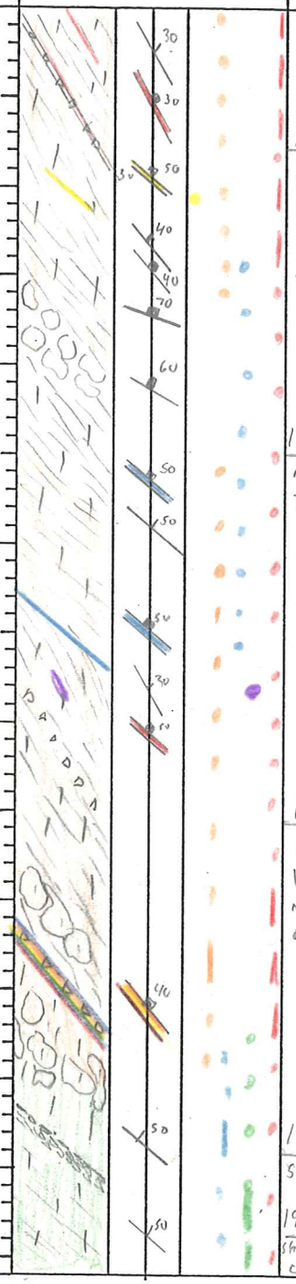
HOLE NUMBER RS-D 351-99 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-200 DOZER Fine grained rycholite flow. Laminated foliation with occasional auto breccia. Laminations distinguished by faint pink tint compared to slate gray of core. From 67 - Bleaching and variable argillization turn core a gray white color 90-110 Ghost Auto breccia textured 116-136.5 Argillization over prints weak chloritic alteration. Color of core is a light tan/brown	50 60 70 80 90 100 110 120		69.7-72.1 Fault qtz healed rubble breccia clast are subrounded 54-61 Auto breccia texture. 88.6-91.7 Fine stockwork of dark sulfide/calcite and qtz with a steep 30° ten dominant orientation 117-136.5 Slight increase in sulfide veining highest intensity 117-121.5	69.7-72.1 - white clay qtz and pyrite and bladed moreasite, Calcite fracture coating 67-74 Argillization 73 ¼" Pyrite after bladed moreasite vein 76.7 ⅛" Py after bladed moreasite vein 93-106 very low sulfide content well below <1% 116-136.5 Argillization of turns core light tan 119.9 Druzy qtz vein coating with shiny pyrite 117-121.5 Py/mura. veinl low level swarm

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
47	52				
52	57				
57	62				
62	67				
67	69.7				
69.7	72.1				
72.1	74				
74	77				
77	82				
82	87				
86	88.6				
88.6	91.2				
91.2	97				
97	102				
102	106				
106	111				
111	116				
116	121				

HOLE NUMBER RS-D351-99 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td	R	0-200 DOZER Fine grained rhyolite flow Variable texture from laminated to Auto brecciated 116-136.5 Argillization make rock tan to white color lamination are discontinuous and weakly Auto brecciated 136.5-146 Pale gray with tan laminations with weak fractureing and ghost auto breccia 146-177.7 Weak argillization has bleached core light tan sulfide and calcite mineralization increase 177.7-200 Chloritic alteration turns core gray green. Vesicul trains of elongated vesicul appear to be unaltered Leopard skin texture	120 130 140 150 160 170 180 190		124.5-125.1 Auto breccia with pyrite vein 130 QTZ vein with micro bxo of Dozer fragments, vein is 50° to c.a. 137-137.4 Narrow fracture zone 50° to c.a, 70° to c. 173.5-175.7 Fault breccia Volcanic clay matrix minor silicification of clast at footwall 183-184 "Leopard skin" vesicular train 193.2-196.2 Some leopard skin vesicular train steep orientation	116-136.5 Argillized interval with slightly elevated pyrite veinlets 134 - White clay on fracture 158.5 - Barite in fracture 155 - 1" calcite vein with sulfide along contact with Dozer 160 Pyrite after bladed marcasite 173.5-175.7 Pyrite after marcasite vein on footwall surface with silica 1" wide 183-184, 193.2-196.2 Vesicals in trains are filled with Calcite	FROM 121 126 130 133 136.5 142 146 149 152 156.5 160.5 165.5 169.5 173.5 175.7 177.7 182 187 192	TO 126 130 133 136.5 142 146 149 152 156.5 160.5 165.5 169.5 173.5 175.7 177.7 182 187 192				

HOLE NUMBER RS-D351-99 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td	R	0-200 DOZER Fine grained rhyolite Minimal alteration except chlorite below 177.7	190	70 40	173.2-176 Vesicular giving once spotted but foliated texture 178.7 179.7 Auto breccia with chloritic matrix	177.7-200 ENCRGSTAL Chloritic alteration	187	192				
							192	196.2				
		TD 200	200				196.2	200				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D351-99 DATE: 5-11-99 LOGGED BY: D G. Mackenzie PAGE 1 OF 3

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
0	5	52	100	0										
5	10	98	100	64										
10	15	100	98	68										
15	20	100	101	74										
20	25	100	100	92										
25	30	100	104	90										
30	37	100	96	78										
37	47	100	100	75										
47	57	100	101	79										
57	67	100	98	70										
67	77	98	102	88										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

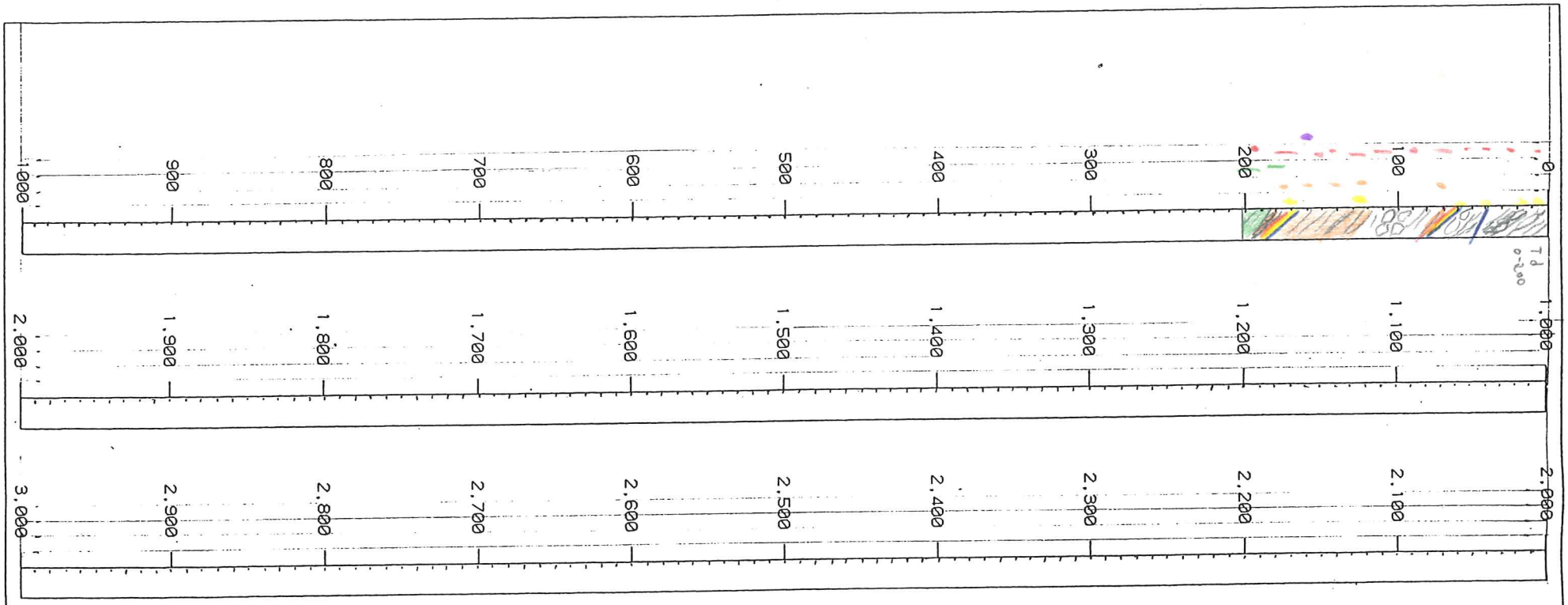
HOLE # RS-D 351-99 DATE: 5-11-99 LOGGED BY: D.G. Mucklerrow PAGE 2 OF 3

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
77	87	100	100	90										
87	97	100	100	88										
97	106	100	93	79										
106	116	100	101	79										
116	126	100	99	84										
126	132	86	88	71										
132	142	92	102	62										
142	152	98	97	60										
152	162	97	101	68										
162	172	100	100	85										
172	182	98	100	60										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D351-99 DATE: 5-11-99 LOGGED BY: D.G. MacHarrow PAGE 3 OF 3

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
182	192	100	101	93										
192	200	100	107	81										



LITHOLOGY

- PLAT/FLOW
- MASSIVE AT/FLOW
- LST -
- PMBX -
- TOS/Bud Epiclastics
- BMB - Rhyolitic Porphyry
- RHYOLITE - DOZER
- ALS - PHYLLITES

TEXTURES

- LITHIC FRAGMENTS
- CRYSTALS
- LAPILLI
- AMYGDULES
- SPHERULITE
- SHARDS

STRUCTURES

- BRECCIA
- FAULT
- CLAY OR GOUGE
- FRACTURE ZONE
- VEINS Qtz
- VEINLETS
- VEINS CALC

CONTACTS

- LOST, GRADATIONAL OR INFERRED
- 80 SHARP (WITH ANGLE TO CORE)
- WAVY
- ROUGH OR JAGGED
- Barite
- PYRITIZATION
- CHLORITIZATION
- ARGILLIZATION
- SILICIFICATION
- GRAPHIC LOG
- Intensity: • • • — —

LOCATION ON GRID: 41 Much Boy	FINAL COLLAR COORDINATES	START 5/2/99	FINISH 5/4/99	LOGGED BY D.G Matheson
LAB American	NORTH	HOLE TYPE Core	SURVEYED TO 190	
JOB #	EAST	BEARING S 67°E	ANGLE -21	T. D. 200
DRILLING COMPANY Longyear	ELEV			
	DRILLER Pat Bamford			

The Rosebud Mining Company LLC

PAGE 1 OF 1

HOLE # RS-0351-99

Newmont Gold Core Form

Hole# RS-D351-99 **Az/Incl** S67E/-21 **Page** 1 of 1

Logged by D.G. Mackerron **Area** Vent Raise **Total Depth** 200

Date 5-11-99 **Coords** **Contractor** Longyear

Footage	% Rec	RQD	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	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	Mineralogy: Iron Ox
0			Td	Rhyo	Gray white									0-200 DOZER	1	0	0	0	0	0	0	0	0	1	1	1	0	
														Fine grained rhyolite flow														
20															0													
40																												
60																										0		
																1												
									40						0									2 1	2 1	1	1	
														Fault		0												
80														69.7 - 72.1														
															1									2				
															0									1				
100																										0		
120					Tan white																							
140					Gray									158.5 Barite in fracture												1	0	
					Tan white																					0		
160														183-184 "Leopard skin" vesicular train													1	0	
														193.2 - 196.2 "Leopard skin" vesicular train										2	2			
180					Gray white / Gray				40											2				1	1	1		
																										2 1		
																										2		
200														TD 200												1		

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053496

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW
: R. VANCE
: K. ALLEN
:

CLIENT REFERENCE No: RS-D351-99 RECEIVED : 19 MAY 1999

No. SAMPLES : 50 REPORTED : 7 JUN 1999

MAIN SAMPLE TYPE : DRILL CORE

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
Au	RESPLIT	15%	ppb	5
AuII	FA30	15%	ppb	5
AuIII	FA30	15%	ppb	5
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053496

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Au RESPLIT ppb	AuII FA30 ppb
RS-D351-99 00-05	180		0.005			
RS-D351-99 05-10	60		0.002			
RS-D351-99 10-15	25		<0.001			
RS-D351-99 15-20	63		0.002			
RS-D351-99 20-25	44		0.001			
RS-D351-99 25-30	29		<0.001			
RS-D351-99 30-34	35		0.001			
RS-D351-99 34-37	29		<0.001			
RS-D351-99 37-42	57		0.002			
RS-D351-99 42-47	129		0.004			
RS-D351-99 47-52	46		0.001			
RS-D351-99 52-57	539		0.016			
RS-D351-99 57-62	430		0.013			
RS-D351-99 62-67	527		0.015			
RS-D351-99 67.0-69.7	4066		0.119			
RS-D351-99 69.7-72.1	68291		1.992		24654	31690
RS-D351-99 69.7-72.1B	1106		0.032			
RS-D351-99 72.1-74.0	1680	1562	0.049			
RS-D351-99 74-77	245		0.007			
RS-D351-99 77-82	49		0.001			
RS-D351-99 82-87	30		<0.001			
RS-D351-99 87.0-88.6	26		<0.001			
RS-D351-99 88.6-91.2	42		0.001			
RS-D351-99 91.2-97.0	15		<0.001			
RS-D351-99 97-102	<5		<0.001			

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ANALYSIS REPORT SP053496

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Au RESPLIT ppb	AuII FA30 ppb
RS-D351-99 102-106	<5		<0.001			
RS-D351-99 106-111	32		<0.001			
RS-D351-99 111-116	<5		<0.001			
RS-D351-99 116-121	32		<0.001			
RS-D351-99 121-126	60		0.002			
RS-D351-99 126-130	46		0.001			
RS-D351-99 130-133	89		0.003			
RS-D351-99 133.0-136.5	52		0.002			
RS-D351-99 136.5-142.0	18		<0.001			
RS-D351-99 142-146	<5		<0.001			
RS-D351-99 146-149	22	16	<0.001			
RS-D351-99 149-152	197		0.006			
RS-D351-99 152.0-156.5	34		<0.001			
RS-D351-99 156.5-160.5	103		0.003			
RS-D351-99 160.5-165.5	58		0.002			
RS-D351-99 165.5-169.5	59		0.002			
RS-D351-99 169.5-173.5	187		0.005			
RS-D351-99 173.5-175.7	42		0.001			
RS-D351-99 175.7-177.7	<5		<0.001			
RS-D351-99 177.7-182.0	48		0.001			
RS-D351-99 177.7-182.0B	1039		0.030			
RS-D351-99 182-187	<5		<0.001			
RS-D351-99 187-192	6		<0.001			
RS-D351-99 192.0-196.2	<5		<0.001			
RS-D351-99 196.2-200.0	<5		<0.001			

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ANALYSIS REPORT SP053496

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	AuIII FA30 ppb	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D351-99 00-05		1.0	0.03
RS-D351-99 05-10		0.6	<0.02
RS-D351-99 10-15		0.6	<0.02
RS-D351-99 15-20		0.5	<0.02
RS-D351-99 20-25		0.5	<0.02
RS-D351-99 25-30		<0.5	<0.02
RS-D351-99 30-34		<0.5	<0.02
RS-D351-99 34-37		<0.5	<0.02
RS-D351-99 37-42		0.5	<0.02
RS-D351-99 42-47		0.9	0.03
RS-D351-99 47-52		0.5	<0.02
RS-D351-99 52-57		0.8	0.02
RS-D351-99 57-62		2.0	0.06
RS-D351-99 62-67		0.8	0.02
RS-D351-99 67.0-69.7		8.7	0.25
RS-D351-99 69.7-72.1	29490	73.2	2.14
RS-D351-99 69.7-72.1B		0.6	<0.02
RS-D351-99 72.1-74.0		2.3	0.07
RS-D351-99 74-77		1.3	0.04
RS-D351-99 77-82		0.8	0.02
RS-D351-99 82-87		0.5	<0.02
RS-D351-99 87.0-88.6		<0.5	<0.02
RS-D351-99 88.6-91.2		0.6	<0.02
RS-D351-99 91.2-97.0		<0.5	<0.02
RS-D351-99 97-102		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053496

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	AuIII FA30 ppb	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D351-99 102-106		<0.5	<0.02
RS-D351-99 106-111		<0.5	<0.02
RS-D351-99 111-116		0.8	0.02
RS-D351-99 116-121		0.9	0.03
RS-D351-99 121-126		0.9	0.03
RS-D351-99 126-130		0.9	0.03
RS-D351-99 130-133		1.8	0.05
RS-D351-99 133.0-136.5		0.8	0.02
RS-D351-99 136.5-142.0		<0.5	<0.02
RS-D351-99 142-146		<0.5	<0.02
RS-D351-99 146-149		0.6	<0.02
RS-D351-99 149-152		0.7	0.02
RS-D351-99 152.0-156.5		0.6	<0.02
RS-D351-99 156.5-160.5		1.8	0.05
RS-D351-99 160.5-165.5		0.8	0.02
RS-D351-99 165.5-169.5		0.7	0.02
RS-D351-99 169.5-173.5		1.7	0.05
RS-D351-99 173.5-175.7		1.8	0.05
RS-D351-99 175.7-177.7		<0.5	<0.02
RS-D351-99 177.7-182.0		<0.5	<0.02
RS-D351-99 177.7-182.0B		<0.5	<0.02
RS-D351-99 182-187		<0.5	<0.02
RS-D351-99 187-192		<0.5	<0.02
RS-D351-99 192.0-196.2		<0.5	<0.02
RS-D351-99 196.2-200.0		<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	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	3	0.01	0.2	1	1	1	0.01	10	0.01	1	0.01	2	1	0.01	1	0.001	3	3	0.1	1	2	0.01	8	1	2	1

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

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP053496
METHOD:	AAL 01-2 + Se

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

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	Se ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
RS-D351-99 00-20	0.4	0.61	52	< 3	40	< 3	0.35	< .2	1	28	25	2.9	47	0.25	39	0.06	328	5	0.03	10	0.006	19	< 3	6.52	26	9	< .01	< 8	2	< 2	81
RS-D351-99 20-42	< .3	0.69	37	< 3	39	< 3	0.66	< .2	1	23	14	2.44	28	0.3	44	0.06	426	6	0.04	8	0.006	21	< 3	3.48	38	10	< .01	< 8	1	< 2	74
RS-D351-99 42-62	0.8	0.68	29	< 3	78	< 3	0.28	< .2	1	22	12	2.33	21	0.32	43	0.05	258	5	0.03	7	0.006	23	< 3	6.21	28	10	< .01	< 8	1	< 2	79
RS-D351-99 62.0-72.1	22.9	0.71	55	< 3	40	< 3	1.08	< .2	1	20	36	2.8	93	0.36	33	0.04	238	7	0.03	6	0.006	31	5	20.2	80	8	< .01	< 8	1	< 2	95
RS-D351-99 72.1-87.0	0.8	0.6	22	< 3	185	< 3	0.43	< .2	1	18	11	2.12	19	0.29	43	0.03	286	5	0.03	6	0.008	21	< 3	5.24	33	10	< .01	< 8	1	< 2	87
RS-D351-99 87-102	0.3	0.64	18	< 3	42	< 3	0.78	< .2	1	20	9	2.08	12	0.32	43	0.04	387	6	0.04	5	0.007	24	< 3	3.11	45	10	< .01	< 8	1	< 2	76
RS-D351-99 102-121	< .3	0.63	17	< 3	25	< 3	0.94	< .2	1	15	7	1.88	26	0.32	38	0.03	390	6	0.03	4	0.007	24	< 3	2.65	46	9	< .01	< 8	1	< 2	69
RS-D351-99 121-142	0.7	0.52	72	< 3	24	< 3	0.27	< .2	1	15	8	1.94	98	0.3	41	0.03	234	4	0.02	5	0.007	22	< 3	8.71	28	10	< .01	< 8	1	< 2	89
RS-D351-99 142.0-160.5	0.7	0.62	33	< 3	171	< 3	0.83	< .2	1	12	6	1.93	47	0.31	42	0.04	609	6	0.02	3	0.007	23	< 3	5.62	45	10	< .01	< 8	1	< 2	82
RS-D351-99 160.5-182.0	0.7	0.47	29	< 3	20	< 3	0.28	< .2	1	8	5	1.71	37	0.26	38	0.03	257	6	0.01	2	0.006	20	< 3	6.57	30	8	< .01	< 8	1	< 2	74
RS-D351-99 182-200	< .3	0.81	6	< 3	27	4	1.18	< .2	1	12	7	2.42	13	0.31	56	0.04	1025	5	0.04	3	0.007	25	< 3	0.84	62	11	< .01	< 8	1	< 2	83
STANDARD C3/DS2	5.4	1.79	59	20	141	19	0.55	22.7	12	161	61	3.23	286	0.16	17	0.57	780	23	0.04	34	0.084	36	12	2.43	28	19	0.08	24	76	13	154
STANDARD G-2	< .3	0.91	< 2	< 3	216	< 3	0.63	< .2	5	78	3	1.98	12	0.46	8	0.56	548	1	0.07	8	0.091	3	< 3	0.04	69	4	0.12	< 8	39	2	39

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053496

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW
: R. VANCE
: K. ALLEN
:

CLIENT REFERENCE No: RS-D351-99 RECEIVED : 19 MAY 1999

No. SAMPLES : 50 REPORTED : 7 JUN 1999

MAIN SAMPLE TYPE : DRILL CORE

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
Au	RESPLIT	15%	ppb	5
AuII	FA30	15%	ppb	5
AuIII	FA30	15%	ppb	5
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

06/07/1999 12:07 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053496

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Au	AuTT
RS-D351-99 00-05	180		0.005			
RS-D351-99 05-10	60		0.002			
RS-D351-99 10-15	25		<0.001			
RS-D351-99 15-20	63		0.002			
RS-D351-99 20-25	44		0.001			
RS-D351-99 25-30	29		<0.001			
RS-D351-99 30-34	35		0.001			
RS-D351-99 34-37	29		<0.001			
RS-D351-99 37-42	57		0.002			
RS-D351-99 42-47	129		0.004			
RS-D351-99 47-52	46		0.001			
RS-D351-99 52-57	539		0.016			
RS-D351-99 57-62	430		0.013			
RS-D351-99 62-67	527		0.015			
RS-D351-99 67.0-69.7	4066		0.119	Ave = 1.125 Au		
RS-D351-99 69.7-72.1	68291		1.992		24654	31690
RS-D351-99 69.7-72.1B	1106		0.032			
RS-D351-99 72.1-74.0	1680	1562	0.049			
RS-D351-99 74-77	245		0.007			
RS-D351-99 77-82	49		0.001			
RS-D351-99 82-87	30		<0.001			
RS-D351-99 87.0-88.6	26		<0.001			
RS-D351-99 88.6-91.2	42		0.001			
RS-D351-99 91.2-97.0	15		<0.001			
RS-D351-99 97-102	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053496

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PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Au	AuII
RS-D351-99 102-106	<5		<0.001			
RS-D351-99 106-111	32		<0.001			
RS-D351-99 111-116	<5		<0.001			
RS-D351-99 116-121	32		<0.001			
RS-D351-99 121-126	60		0.002			
RS-D351-99 126-130	46		0.001			
RS-D351-99 130-133	89		0.003			
RS-D351-99 133.0-136.5	52		0.002			
RS-D351-99 136.5-142.0	18		<0.001			
RS-D351-99 142-146	<5		<0.001			
RS-D351-99 146-149	22	16	<0.001			
RS-D351-99 149-152	197		0.006			
RS-D351-99 152.0-156.5	34		<0.001			
RS-D351-99 156.5-160.5	103		0.003			
RS-D351-99 160.5-165.5	58		0.002			
RS-D351-99 165.5-169.5	59		0.002			
RS-D351-99 169.5-173.5	187		0.005			
RS-D351-99 173.5-175.7	42		0.001			
RS-D351-99 175.7-177.7	<5		<0.001			
RS-D351-99 177.7-182.0	48		0.001			
RS-D351-99 177.7-182.0B	1039		0.030			
RS-D351-99 182-187	<5		<0.001			
RS-D351-99 187-192	6		<0.001			
RS-D351-99 192.0-196.2	<5		<0.001			
RS-D351-99 196.2-200.0	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053496

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REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	AuIII	Ag	Ag(OZ)
RS-D351-99 00-05		1.0	0.03
RS-D351-99 05-10		0.6	<0.02
RS-D351-99 10-15		0.6	<0.02
RS-D351-99 15-20		0.5	<0.02
RS-D351-99 20-25		0.5	<0.02
RS-D351-99 25-30		<0.5	<0.02
RS-D351-99 30-34		<0.5	<0.02
RS-D351-99 34-37		<0.5	<0.02
RS-D351-99 37-42		0.5	<0.02
RS-D351-99 42-47		0.9	0.03
RS-D351-99 47-52		0.5	<0.02
RS-D351-99 52-57		0.8	0.02
RS-D351-99 57-62		2.0	0.06
RS-D351-99 62-67		0.8	0.02
RS-D351-99 67.0-69.7		8.7	0.25
RS-D351-99 69.7-72.1	29490	73.2	2.14
RS-D351-99 69.7-72.1B		0.6	<0.02
RS-D351-99 72.1-74.0		2.3	0.07
RS-D351-99 74-77		1.3	0.04
RS-D351-99 77-82		0.8	0.02
RS-D351-99 82-87		0.5	<0.02
RS-D351-99 87.0-88.6		<0.5	<0.02
RS-D351-99 88.6-91.2		0.6	<0.02
RS-D351-99 91.2-97.0		<0.5	<0.02
RS-D351-99 97-102		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053496

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D351-99

REPORTED : 7 JUN 1999

SAMPLES	AuFII	Ag	Ag(OZ)
RS-D351-99 102-106		<0.5	<0.02
RS-D351-99 106-111		<0.5	<0.02
RS-D351-99 111-116		0.8	0.02
RS-D351-99 116-121		0.9	0.03
RS-D351-99 121-126		0.9	0.03
RS-D351-99 126-130		0.9	0.03
RS-D351-99 130-133		1.8	0.05
RS-D351-99 133.0-136.5		0.8	0.02
RS-D351-99 136.5-142.0		<0.5	<0.02
RS-D351-99 142-146		<0.5	<0.02
RS-D351-99 146-149		0.6	<0.02
RS-D351-99 149-152		0.7	0.02
RS-D351-99 152.0-156.5		0.6	<0.02
RS-D351-99 156.5-160.5		1.8	0.05
RS-D351-99 160.5-165.5		0.8	0.02
RS-D351-99 165.5-169.5		0.7	0.02
RS-D351-99 169.5-173.5		1.7	0.05
RS-D351-99 173.5-175.7		1.8	0.05
RS-D351-99 175.7-177.7		<0.5	<0.02
RS-D351-99 177.7-182.0		<0.5	<0.02
RS-D351-99 177.7-182.0B		<0.5	<0.02
RS-D351-99 182-187		<0.5	<0.02
RS-D351-99 187-192		<0.5	<0.02
RS-D351-99 192.0-196.2		<0.5	<0.02
RS-D351-99 196.2-200.0		<0.5	<0.02

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

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP053496
METHOD: AAL 01-2 + Se

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	Se ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
RS-D351-99 00-20	0.4	0.61	52	< 3	40	< 3	0.35	< .2	1	28	25	2.9	47	0.25	39	0.06	328	5	0.03	10	0.006	19	< 3	6.52	26	9	< .01	< 8	2	< 2	81
RS-D351-99 20-42	< .3	0.69	37	< 3	39	< 3	0.66	< .2	1	23	14	2.44	28	0.3	44	0.06	426	6	0.04	8	0.006	21	< 3	3.48	38	10	< .01	< 8	1	< 2	74
RS-D351-99 42-62	0.8	0.68	29	< 3	78	< 3	0.28	< .2	1	22	12	2.33	21	0.32	43	0.05	258	5	0.03	7	0.006	23	< 3	6.21	28	10	< .01	< 8	1	< 2	79
RS-D351-99 62.0-72.1	22.9	0.71	55	< 3	40	< 3	1.08	< .2	1	20	36	2.8	93	0.36	33	0.04	238	7	0.03	6	0.006	31	5	20.2	80	8	< .01	< 8	1	< 2	95
RS-D351-99 72.1-87.0	0.8	0.6	22	< 3	185	< 3	0.43	< .2	1	18	11	2.12	19	0.29	43	0.03	286	5	0.03	6	0.008	21	< 3	5.24	33	10	< .01	< 8	1	< 2	87
RS-D351-99 87-102	0.3	0.64	18	< 3	42	< 3	0.78	< .2	1	20	9	2.08	12	0.32	43	0.04	387	6	0.04	5	0.007	24	< 3	3.11	45	10	< .01	< 8	1	< 2	76
RS-D351-99 102-121	< .3	0.63	17	< 3	25	< 3	0.94	< .2	1	15	7	1.88	26	0.32	38	0.03	380	6	0.03	4	0.007	24	< 3	2.65	46	9	< .01	< 8	1	< 2	69
RS-D351-99 121-142	0.7	0.52	72	< 3	24	< 3	0.27	< .2	1	15	8	1.94	98	0.3	41	0.03	234	4	0.02	5	0.007	22	< 3	8.71	28	10	< .01	< 8	1	< 2	89
RS-D351-99 142.0-160.5	0.7	0.62	33	< 3	171	< 3	0.83	< .2	1	12	6	1.93	47	0.31	42	0.04	609	6	0.02	3	0.007	23	< 3	5.62	45	10	< .01	< 8	1	< 2	82
RS-D351-99 160.5-182.0	0.7	0.47	29	< 3	20	< 3	0.28	< .2	1	8	5	1.71	37	0.26	38	0.03	257	6	0.01	2	0.006	20	< 3	6.57	30	8	< .01	< 8	1	< 2	74
RS-D351-99 182-200	< .3	0.81	6	< 3	27	4	1.18	< .2	1	12	7	2.42	13	0.31	56	0.04	1025	5	0.04	3	0.007	25	< 3	0.84	62	11	< .01	< 8	1	< 2	83
STANDARD C3/DS2	5.4	1.79	59	20	141	19	0.55	22.7	12	161	61	3.23	286	0.16	17	0.57	780	23	0.04	34	0.084	36	12	2.43	28	19	0.08	24	76	13	154
STANDARD G-2	< .3	0.91	< 2	< 3	216	< 3	0.63	< .2	5	78	3	1.98	12	0.46	8	0.56	548	1	0.07	8	0.091	3	< 3	0.04	69	4	0.12	< 8	39	2	39

RS-D351-99

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
0	5	5	x	x			1	
5	10	5	x	x			2	
10	15	5	x	x			3	
15	20	5	x	x	x	20	4	
20	25	5	x	x			5	
25	30	5	x	x			6	
30	34	4	x	x			7	
34	37	3	x	x			8	
37	42	5	x	x	x	22	9	
42	47	5	x	x			10	
47	52	5	x	x			11	
52	57	5	x	x			12	
57	62	5	x	x	x	20	13	
62	67	5	x	x			14	
67	69.7	2.7	x	x			15	
69.7	72.1	2.4	x	x	x	10.1	16	72.1B
72.1	74	1.9	x	x			17	
74	77	3	x	x			18	
77	82	5	x	x			19	
82	87	5	x	x	x	14.9	20	
87	88.6	1.6	x	x			21	
88.6	91.2	2.6	x	x			22	
91.2	97	5.8	x	x			23	
97	102	5	x	x	x	20	24	
102	106	4	x	x			25	
106	111	5	x	x			26	
111	116	5	x	x			27	
116	121	5	x	x	x	19	28	
121	126	5	x	x			29	
126	130	4	x	x			30	
130	133	3	x	x			31	
133	136.5	3.5	x	x			32	
136.5	142	5.5	x	x	x	21	33	
142	146	4	x	x			34	
146	149	3	x	x			35	
149	152	3	x	x			36	
152	156.5	4.5	x	x			37	
156.5	160.5	4	x	x	x	18.5	38	

160.5	165.5	5	x	x			39	
165.5	169.5	4	x	x			40	
169.5	173.5	4	x	x			41	
173.5	175.7	2.2	x	x			42	
175.7	177.7	2	x	x			43	
177.7	182	4.3	x	x	x	21.5	44	182.0B
182	187	5	x	x			45	
187	192	5	x	x			46	
192	196.2	4.2	x	x			47	
196.2	200	3.8	x	x	x	18	48	

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold

Address: Winnemucca

City _____ State NV Zip 89445

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Exploration Purchase Order Number: _____

Date Submitted: 5-15-99 Number of Samples: 48

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-D351-99	core	FA 30 Au, Ag D210
		AA 1-2 ICP + Se
		composite as shown on attachment
Standards: 72.1B, 182.0B	Pulps	Au, Ag Only
NO ICP		
RS-D351-99 MS-3 (RMG1) 72.1B		
RS-D351-99 MS-3 (RMG1) 182.0B		

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[X] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Bullen
Winnemucca Office

Results to:

Randy Vance: Newmont
Winnemucca

Kurt Allen Rosebud Mine

Comments:

Newmont Rosebud Standard Pulp

CLIENT FILE COPY

LAB COPY

RS-D351-99

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
0	5	5	x	x			1	
5	10	5	x	x			2	
10	15	5	x	x			3	
15	20	5	x	x	x	20	4	
20	25	5	x	x			5	
25	30	5	x	x			6	
30	34	4	x	x			7	
34	37	3	x	x			8	
37	42	5	x	x	x	22	9	
42	47	5	x	x			10	
47	52	5	x	x			11	
52	57	5	x	x			12	
57	62	5	x	x	x	20	13	
62	67	5	x	x			14	
67	69.7	2.7	x	x			15	
69.7	72.1	2.4	x	x	x	10.1	16	72.1B
72.1	74	1.9	x	x			17	
74	77	3	x	x			18	
77	82	5	x	x			19	
82	87	5	x	x	x	14.9	20	
87	88.6	1.6	x	x			21	
88.6	91.2	2.6	x	x			22	
91.2	97	5.8	x	x			23	
97	102	5	x	x	x	20	24	
102	106	4	x	x			25	
106	111	5	x	x			26	
111	116	5	x	x			27	
116	121	5	x	x	x	19	28	
121	126	5	x	x			29	
126	130	4	x	x			30	
130	133	3	x	x			31	
133	136.5	3.5	x	x			32	
136.5	142	5.5	x	x	x	21	33	
142	146	4	x	x			34	
146	149	3	x	x			35	
149	152	3	x	x			36	
152	156.5	4.5	x	x			37	
156.5	160.5	4	x	x	x	18.5	38	

160.5	165.5	5	x	x			39	
165.5	169.5	4	x	x			40	
169.5	173.5	4	x	x			41	
173.5	175.7	2.2	x	x			42	
175.7	177.7	2	x	x			43	
177.7	182	4.3	x	x	x	21.5	44	182.0B
182	187	5	x	x			45	
187	192	5	x	x			46	
192	196.2	4.2	x	x			47	
196.2	200	3.8	x	x	x	18	48	

STP41DHS.CR5 05/04/99 11:48:27

Point	Northing	Easting	Elevation	Description
1	2,203,651.1210	483,267.4530	4,756.37	D347
23	2,203,651.7966	483,272.3170	4,753.37	D348
24	2,203,652.5251	483,273.4820	4,750.38	D349
25	2,203,648.1846	483,267.4532	4,743.57	D350

Stone 41

VTBORE~1.CR5 05/13/99 13:18:03

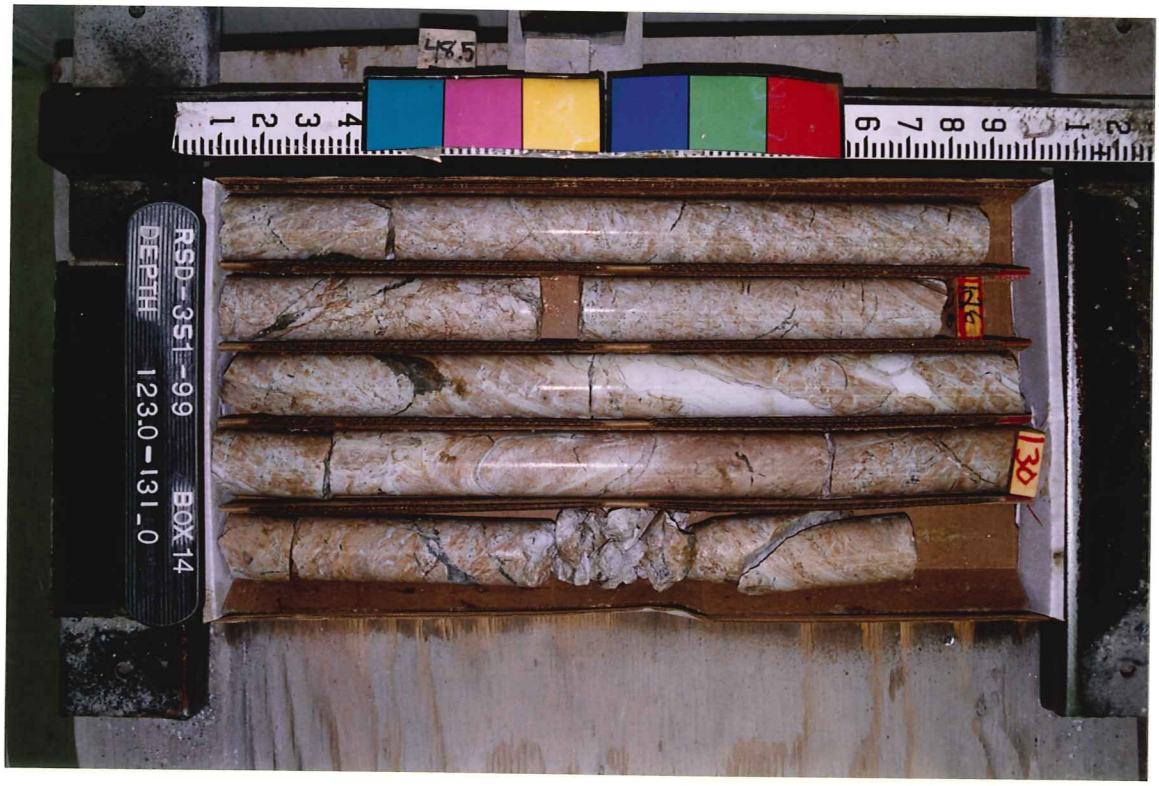
Point	Northing	Easting	Elevation	Description
1	2,203,794.1530	482,609.1790	4,649.69	VENT
2	2,203,826.1480	482,595.4780	4,646.23	ED-6BS
3	2,203,775.6550	482,621.3442	4,635.91	D353
4	2,203,772.1657	482,622.2298	4,636.56	D352
5	2,203,770.0147	482,626.4114	4,637.34	D351

Down Hole Survey Data
RS-D351-99

Footage	Measured Bearing	Corrected Azimuth -15.66	Measured Inclination	Calculated Dip
40	86.5	109.2	69.5	-20.5
190	88.5	104.2	69	-21.0

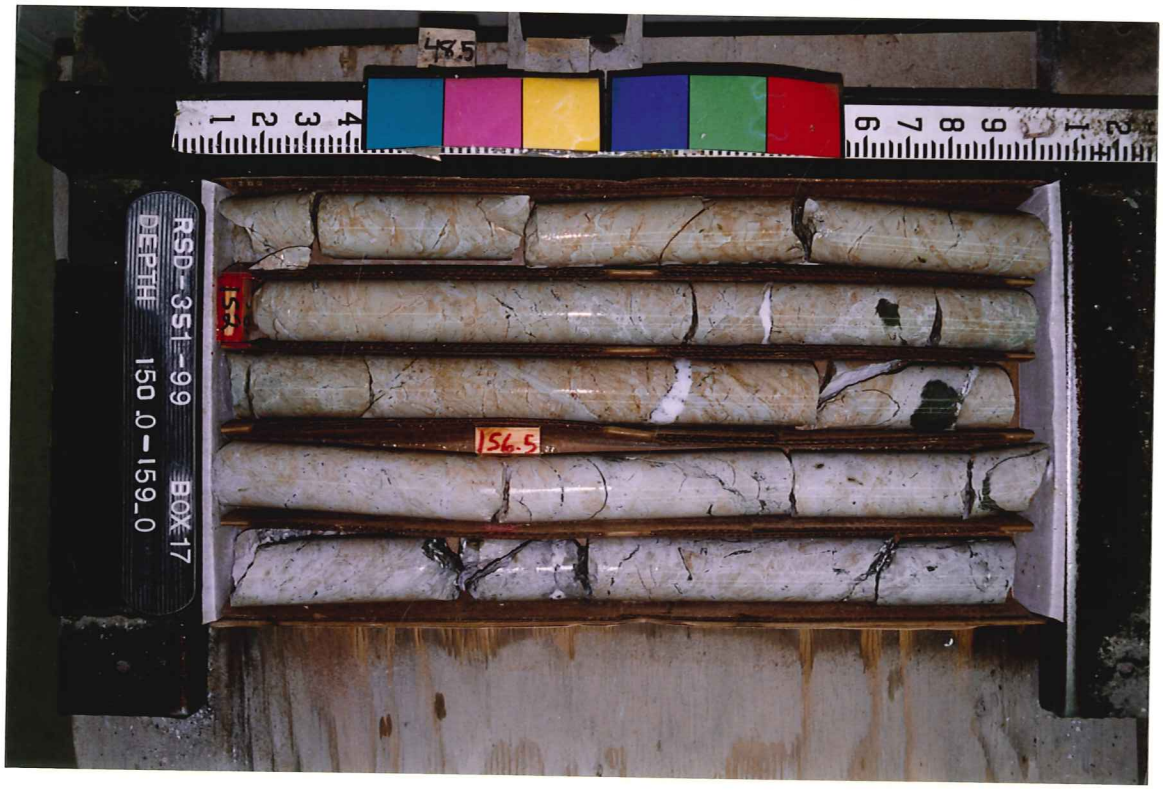
RSD-351-99 BOX 13
DEPTH 113.0-123_0
119
121
48.5

RSD-351-99 BOX 12
DEPTH 103.0-113_0
106
111
48.5


RSD-351-99 BOX 14
DEPTH 123.0-131_0
48.5
121
130

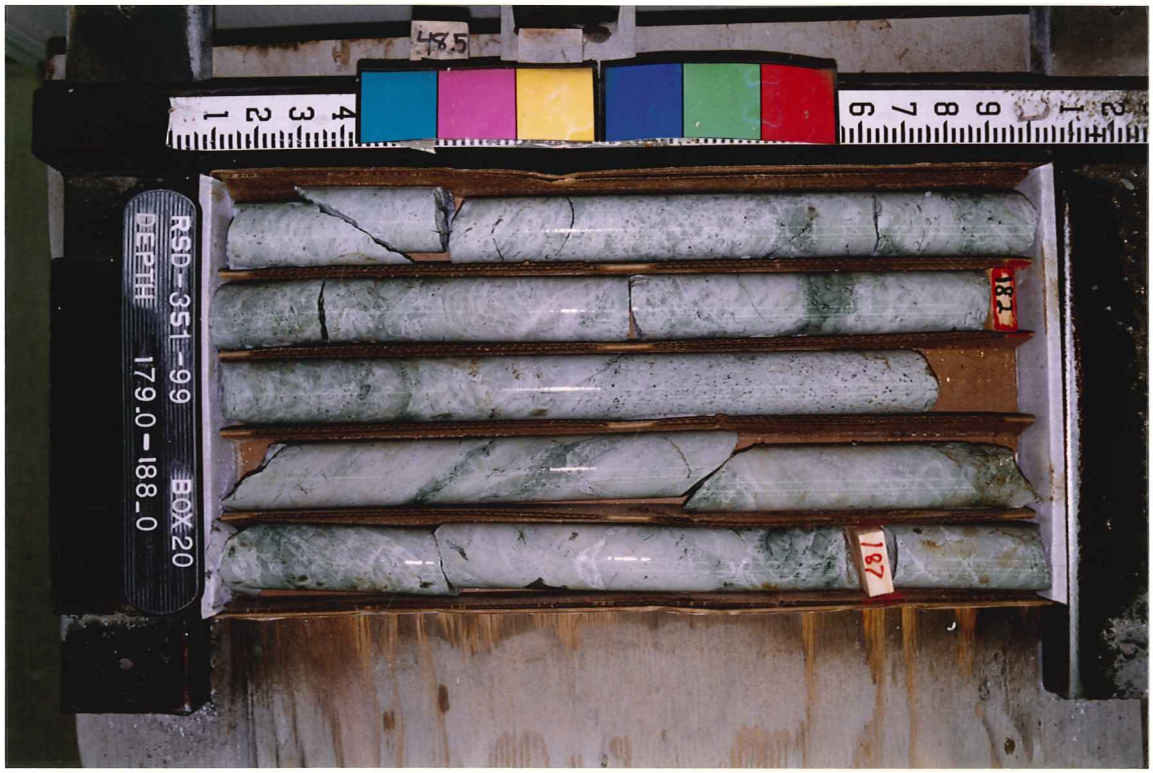
145
146
149
RSD-351-99 BOX 16
DEPTH 140.0-150_0

133
136.5
132
RSD-351-99 BOX 15
DEPTH 131.0-140_0


48.5
156.5
RSD-351-99 BOX 17
DEPTH 150.0-159_0

RSD-351-99 BOX 19
DEPTH 169.0-179.0
172
177.7
175.7
173.5
169.5

RSD-351-99 BOX 18
DEPTH 159.0-169.0
160.5
162
165.5


RSD-351-99 BOX 20
DEPTH 179.0-188.0
182
187

RSD-351-99 BOX 22
DEPTH 197.0-200.0

RSD-351-99 BOX 21
DEPTH 188.0-197.0

WELL RSD351

DEPTH

PICTURE NO. 40

INCLINATION 6.5

OBS. DIR. N 86.5 E

COR. DIR. -21

TOOL FACE

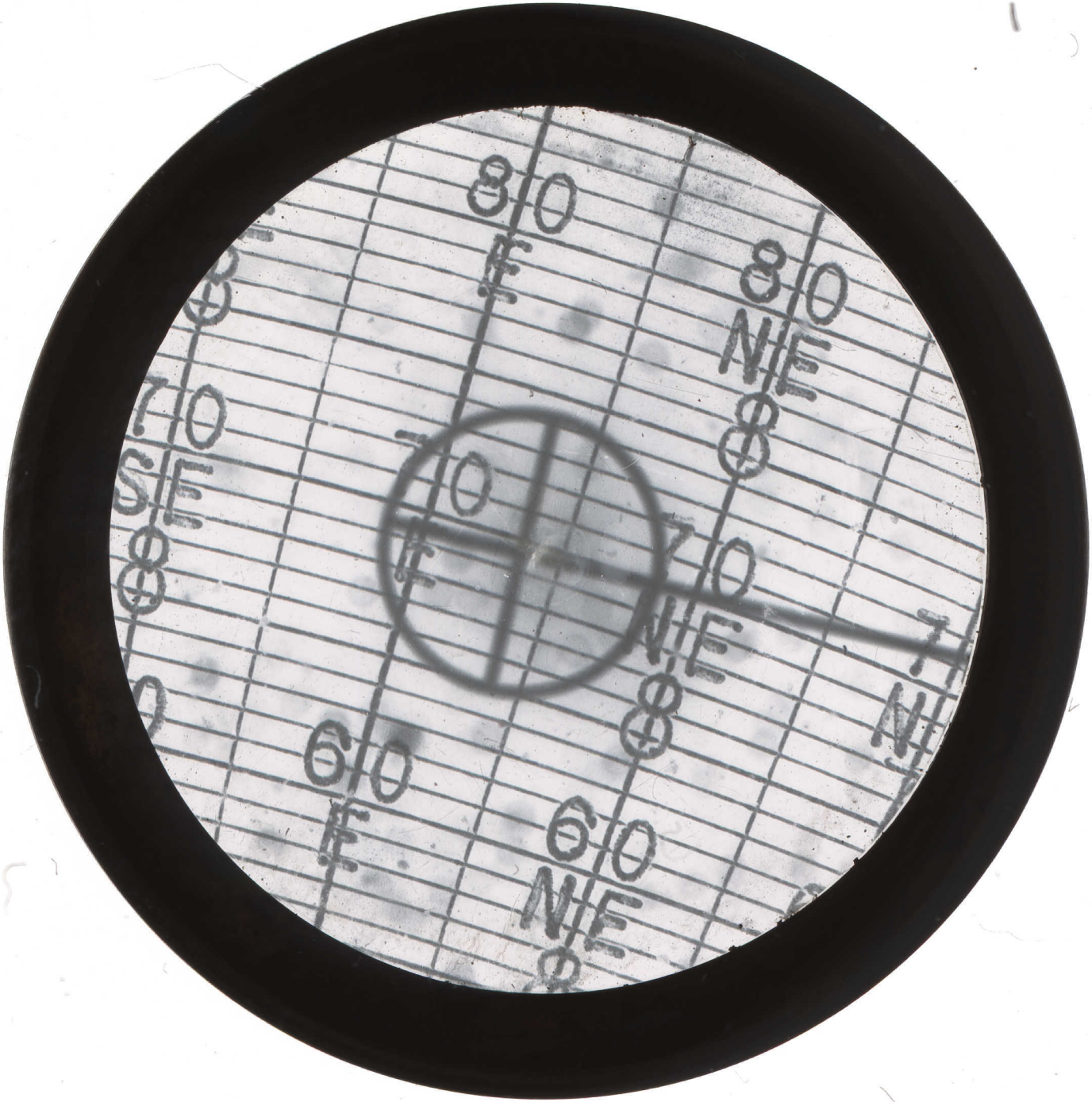
RUN BY

DATE

CHECKED BY

sperry-sun

DRILLING SERVICES


810
F
810
NE
8
710
F
710
NE
8
610
F
610
NE
8
710
SE
8
710
F
710
NE
8

WELL ASD 351

DEPTH

PICTURE NO. 2190

INCLINATION

OBS. DIR. S 88.5°E

COR. DIR. -21

TOOL FACE

RUN BY

DATE

CHECKED BY

sperry-sun

DRILLING SERVICES

NE
80
70
NE
80
60
NE
70
60
SE
80
70
SE
80
60
SE
80