60001145

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-D348-99
AUTHOR	D. Mackerrow; L. Mackedon; 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 400' receipt; handwritten notes; downhole camera images geochemistry; down hole survey 46 p. 3 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)

SS: DD 5/13/08
Initials Date

DB: mch
Initials Date

SCANNED: NB
Initials Date

Revised: 1/22/08

RS-D348-99

60001145 4010

348

6000 1145

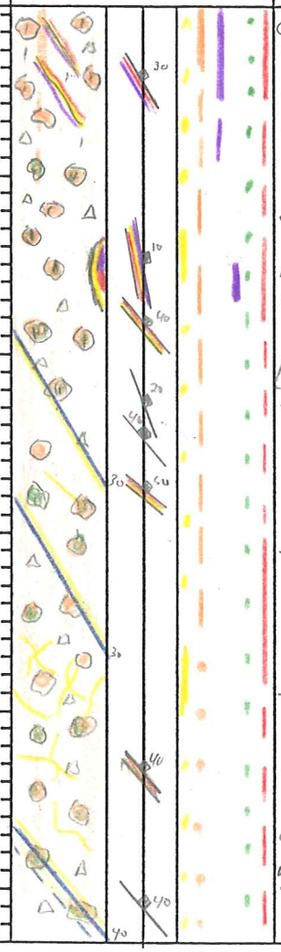
- quartz, chalcedony, silicification
- faults, fractures
- FeOx
- sulfide
- calcite, carbonate
- argillization, white clays
- propylitization
- potassic alteration
- chlorite, chloritic clays
- Barite

Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

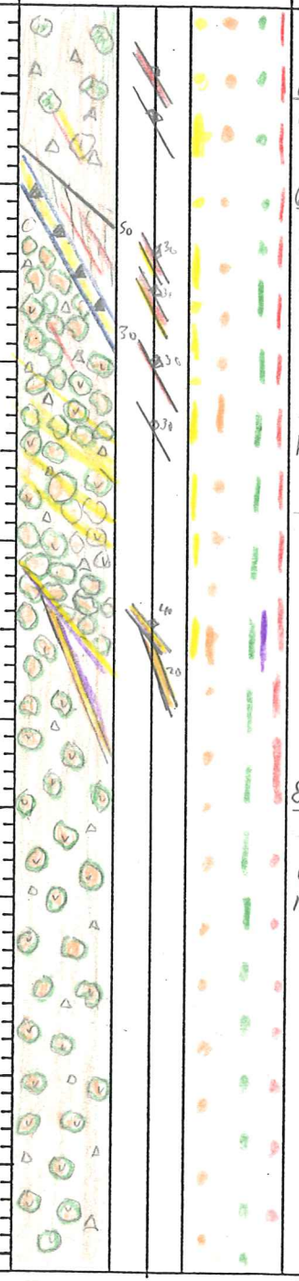
HOLE NUMBER	RS-D348-99	LOCATION	41-Mack Bay
PAGE 1 OF 6		NORTHING	
DATE	4-26-99	EASTING	
LOGGED BY	D.G. Mackerron	ELEVATION	
SCALE	1" = 10'	AZIMUTH	S 85° E 95° AZI.
TOTAL DEPTH	400	INCLINATION	+30

REMARKS

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td	R	0 - 311.1 DOZER Auto brecciated planar laminated volcanic flow. Matrix is mildly hematitic with moderate to highly argillize breccia clast. Clast are generally sub rounded in shape and very in size from sand to large cobble. There maybe a very weak overprinted chloritic alteration. With increased qtz veining Auto breccia matrix becomes silicified	10 20 30 40 50		Collar of drill hole is right in shear plane of fault in mack bay hole is slightly oblique to shear plane going int. footwall. open vugs fractures at 2' and 4.5' 30°TCA No distinct footwall plane to shear 15-17 Large open vugs with druzy qtz and 1" thick Barite 32.3-32.5 Tectonix breccia with Brown silicified clay matrix 0-65 Fracturing is silica heal. Solution channels all have druzy qtz surface coating when still open 49 - knife edge healed slip plane. Footwall maybe at 49.6 but lost to drilling	2-5 Large Barite crystals in open fractures with marcasite and Pyrite crystals. Poor marcasite blade development Druzy Qtz coat open spaces Pyrite/Marcasite veinlet. 15-17 open vug with Druzy QTZ with Barite Py/Marcasite at 10°TCA 15-20 qtz veinlets form low level stockwork 20-40 Py/Marcasite veins has a low level swarm at 50°TCA 35-39 QTZ Stockwork 50 Pyrite aggregations with ≥50° concentrations over a few inches

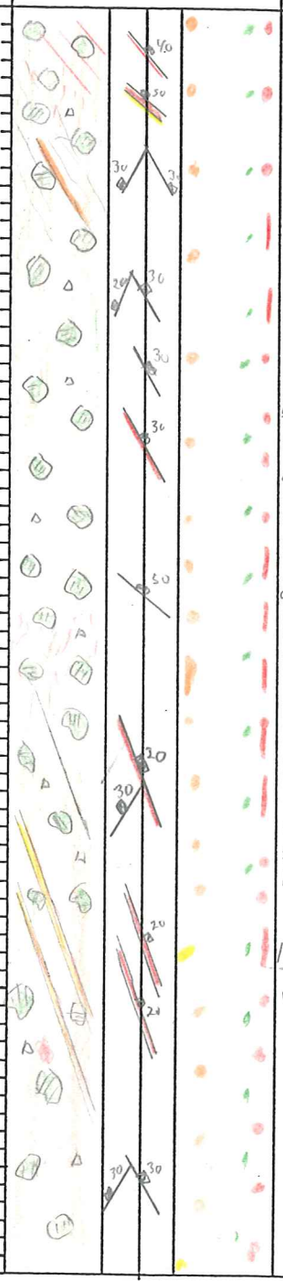
ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
0	5					
5	10					
10	15					
15	17					
17	20					
20	25					
25	30					
30	35					
35	39					
39	43					
43	45					
45	48.2					
48.2	52.2					

HOLE NUMBER RS-D348-99 PAGE 2 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td	R	0-311.1 DOZER Auto brecciated volcanic flow continues, Argillized Plunner luminated clast in a brown volcanic clay matrix. Auto brecciation Terminates at 60° 60-63.5 Plunner Foliated Volcanic Flow. Look like PLAT. but in Dozer Crossing faulted contact at 63.5 63.5-103 Auto brecciated Dozer begins. Clast are finer grained with a weak vitrophyric look to them. Locally expansion is minimal and breccia is clast supported with chlorite outlining each clast, 84.5-86.9 Destructive qtz event in fracture 20° tca. QTZ can be seen grading into a grainy white clay, Barite in vug at 84.5 110 - Auto breccia texture is less distinct with in creast matrix	50 60 70 80 90 100 110 120		60- Auto Bxa ends at 50° tca sharp boundary 63.5-64.6 silica heal - Milled - Bxa Internal to Breccia is a darker brown 1" band dipping 60° tca 69.5 Fracture with bloded marcasite 30° tca 84.5-86.9 20° tca QTZ An CLAY Filled Fracture with Small Barite crystals	52.2 Argillic alteration noticeably decrease 60-67.5 Py/Marc Vein swarm dipping 20° tca. 67.5-73 Disseminated Py after marc. blades 1-2% 69.5 Bloded Marcasite is coated by very fine dark pyrite 72-78 Silicified, bands of core up to 1' thick Pine 86' Clay from qtz vein

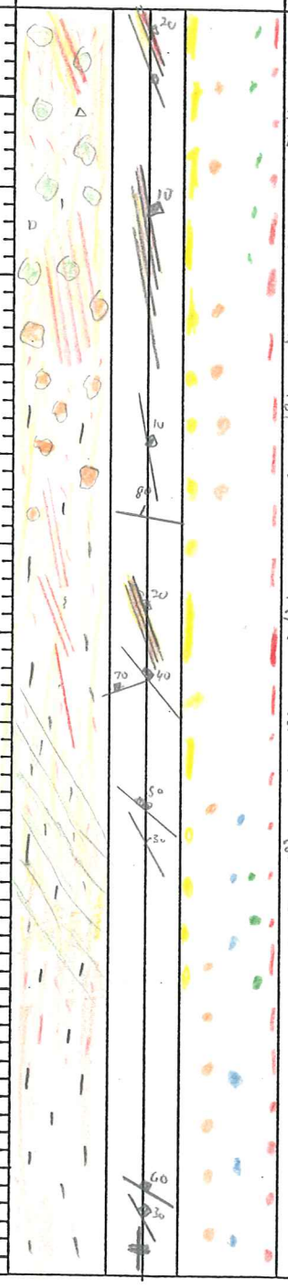
ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
48.2	52.2				
52.2	55				
55	58				
58	60				
60	63.4				
63.4	65				
65	67.5				
67.5	70				
70	75				
75	80				
80	84.3				
84.3	86.9				
86.7	90.7				
90.7	95				
95	100				
100	105				
105	110				
110	115				
115	120				

HOLE NUMBER RS-D348-99 PAGE 3 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td	R	0-311.1 DOZER Auto brecciated volcanic flow continues. 116 - Clast with more laminated Texture return in core 125-165' Auto breccia matrix has a very faint pinkish white with green gray clast	120 130 140 150 160 170 180 190		116-124 40° tca healed fracture pattern with dark Pyrite in it 137-170 Fractureing Gradually increases to a maximum between 157-164. 162 - A STRONG 20° tca fracture begins to cut core. This fracture increasingly has qtz/py/marc in it. 20° fracture is cut by a 30° fracture that has NO sulfide on it 170-174 - Fracture swarm of 2 sets of 20° tca fracture second set at 173.8 have more marc and qtz 171 - Druzy qtz fractures with Py/marc.	116-167 Dark sulfide (black) Pyrite healed small shear fractures highest concentration of bleeding from fractures is from 155-165 125.5 - 1/8" marcasite/Py/qtz vein at 40° tca From 125 Disseminated Pyrite/Pyrite after marcasite blades reach 1-3% 131.5 1/4" marcasite/qtz/Py vein 20° tca 173.5-176.5 30° tca Py/marc/qtz vein 174-175 Disseminated Shiny pyrite 5% 192-197 Disseminated Py after marc blades 2-3% 190-192.5 Greater dissemination of silica out of vein into wall rock

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	
120	125					
125	130					
130	135					
135	140					
140	145					
145	150					
150	155					
155	160					
160	165					
165	170					
170	173.5					
173.5	176.5					
176.5	180					
180	185					
185	190					

HOLE NUMBER RS-D348-99 PAGE 4 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
T1	R	0-311.1 DOZER Auto Brecciated Rylitic Flow Continues. Gray to grayish white in color. Only hint of chloritic green tint 173.5 - Chloritic alteration becomes weak and restricted to clast 217 - Auto brecciated texture has been replaced with a faint foliated texture at 80° tca. 190-243 Dozer becomes very hard with partial silicification relating to high angle healed fracture, Clast of autobxa may still be argillized to a depth of 219 235 - Calite present on micro fracture begins to be seen at 235	190 200 210 220 230 240 250 260		202.2-205.4 multiple healed fractures 10° tca with Druzy qtz/Py/Musc. There are 6 healed fractures 214 10° tca Druzy qtz Coated fracture 223.8-226.4 High angle 20° tca qtz veins 3 veins in a 2" wide zone. 231 - Fracture with Narrow 2" true thickness 243-254 very low density of fractures "stickrock" 254-260 multiple fractures with calcite cement in small crackle zone.	190-199 Disseminated Py after more Biotite 3-5% 202.2-205.4 Druzy qtz veins up to ½" wide. Sulfide content is variable with more qtz. These veins have silicified surrounding wall rock 208-250 Disseminated Py after more 2-5% 223.8-226.4 Druzy qtz veins with dark pyrite in the vein Traces of chalcopyrite at 224.3 230.7-233.8 White clay qtz/Py/Musc. Fillings in fracture 231 - Pinc white clay 241.5-242.5 Fractured rock has weak fracture coatings tinting rock green 238-244 - Chlorite altered Flow banding 236-290 Increased Concentration of black sulfide fracture coatings sulfide looks like it is disseminating out of the fracture under scope in appears to be a Pyrite mix.

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
190	192.5				
192.5	195				
195	199				
199	202.2				
202.2	205.4				
205.4	210				
210	215				
215	219				
219	221.1				
221.1	223.8				
223.8	226.4				
226.4	230.7				
230.7	233.8				
233.8	237.5				
237.5	241.5				
241.5	243				
243	245				
245	250				
250	255				
255	260				

HOLE NUMBER RS-D348-97 PAGE 5 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td	R	0-311.1 DOZER Weakly laminated Rhyolitic flow continues. 281.5-290 Auto brecciated texture Clast are angular to subrounded in shape, matrix is not the volcanically derived clay but just flow. Clast are Partially silicified 290-311.5 Flow texture with occasional Absorbed remanent Auto bxx clast 243-311.1 Possible change in fractures From Py/marc/qtz to Py/CaCO3 ± chlorite Sharp contact with TOS 50° tca	260 270 280 290 300 310 320 330		267.2-270 Pyrite healed crackle breccia from 267.2-268 Pyrite fracture coatings on 20° tca fracture 275 Py on 80° tca fx very sharp clean break 275-282 Fracture zone with 20° tca and 40° tca 294.3-297.2 High angle fracture 20° tca with py/and Calcite 308 Steep 10° tca flow band can not be trace fur. local disruption 311.1 Sharp depositional contact basal lag gravel of Dozer derived clasts 317 - Graded bedding fine down the hole So normal	260-290 Argillization decrease to trace levels 267.2-268 Py after Marcasite fracture coating Low level breccia healed by pyrite. Pyrite is a higher % to marca. 279.6 Fracture with moderate chlorite on the fracture surface. 285 Pyrite vein with Chlorite bleeding from fracture (60° tca) 280-calcite vein 0° tca 294.2-297.2 High angle fracture is pyrite and calcite with low to no qtz 292-294 sulfide rich clasts in weak autobxx 311.1 - weak chloritic alteration present Hematite stain matrix locally makes cure Tan Calcite as veinlets and in conglomerate matrix 316-317 Ash fall tuff moderately argillized 311.1 Pyrite is very restricted in TOS ≤1%
TOS	R	311.1-400 TOS. EPICLASTIC SEDIMENT AND ASH FALL TUFFS Dozer derived basal gravel From 311.1 to 314.7'. Minimal Matrix to gravel From 314.7 Interbedded Sandstones Conglomerates and ash fall tuffs Bedding at 314.7' 20° tca				

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
260	265				
265	267.2				
267.2	270				
270	275				
275	280				
280	285				
285	290				
290	294.3				
294.3	297.2				
297.2	300				
300	305				
305	310				
310	311.1				
311.1	315				
315	320				
320	325				
325	330				

HOLE NUMBER RS-D 348-94 PAGE 6 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
TOS	R	TOS EPICLASTIC SEDIMENT AND ASHFALL TUFFS ..	330			Sulfide content <1% Hematitically stain TOS 0% pyrite	330	335				
		318 – 334 Clast supported cobble Conglomerate with Dozer and A.I.S. clast A.I.S. ≤1% clast vary in texture from laminated to aphantic. Chloritization varies from clast	340		TOS is poorly fractures rock breaks only on Clay beds in sediment	TOS is weakly colored and has calcite veins	335	340				
							340	345				
			350				345	350				
		334 – 341 Transitional zone of reduced clast size and increased volcanic clay matrix			355 ↳ calcite vein 5° tca		350	355				
			360			362 - Begining of Hematite influence Purple coloration over print chloritic alteration	355	360				
		341 – 349 Grandle to small pebble Sandstone. Imbrication of clast present with dips of 80° tca. Grain size continues to fine down the hole giving normal grading.					360	365				
			370		374 Pitthics found in tuffs increase in size		365	370				
		349 – 360.5 Ash fall tuff Flow foliation during deopition present. Rock has moderate chloritization and weak to moderate argillization					370	375				
			380				375	380				
		362 First traces of Hematite stained TOS Rock changes from green to Purple color. Transition zone where color change back and for 362 – 342					380	385				
			390				385	390				
		368 – 374 SANDSTONE dominate lithology				341 - Argillization restricted to matrix with much less alt. in Clast	390	395				
		391 – 400 Conglomerate bed (Purple)	400				395	400				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D348-99 DATE: 4-26-99 LOGGED BY: D.G. MacKerron PAGE 1 OF 4

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
0	5	46	92	44										
5	10	66	94	52										
10	15	88	98	82										
15	20	96	100	86										
20	25	100	106	82										
25	35	100	96	88										
35	45	100	100	99										
45	55	100	104	85										
55	65	100	100	87										
65	75	100	104	84										
75	85	100	99	94										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D348-99 DATE: 4-26-99 LOGGED BY: D.G. Mackerrow PAGE 2 OF 4

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)
85	95	100	101	87										
95	105	100	99	88										
105	115	88	97	67										
115	125	100	104	94										
125	135	93	99	73										
135	145	65	96	52										
145	155	79	98	30										
155	165	37	99	24										
165	175	87	94	43										
175	185	75	92	32										
185	195	77	92	50										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

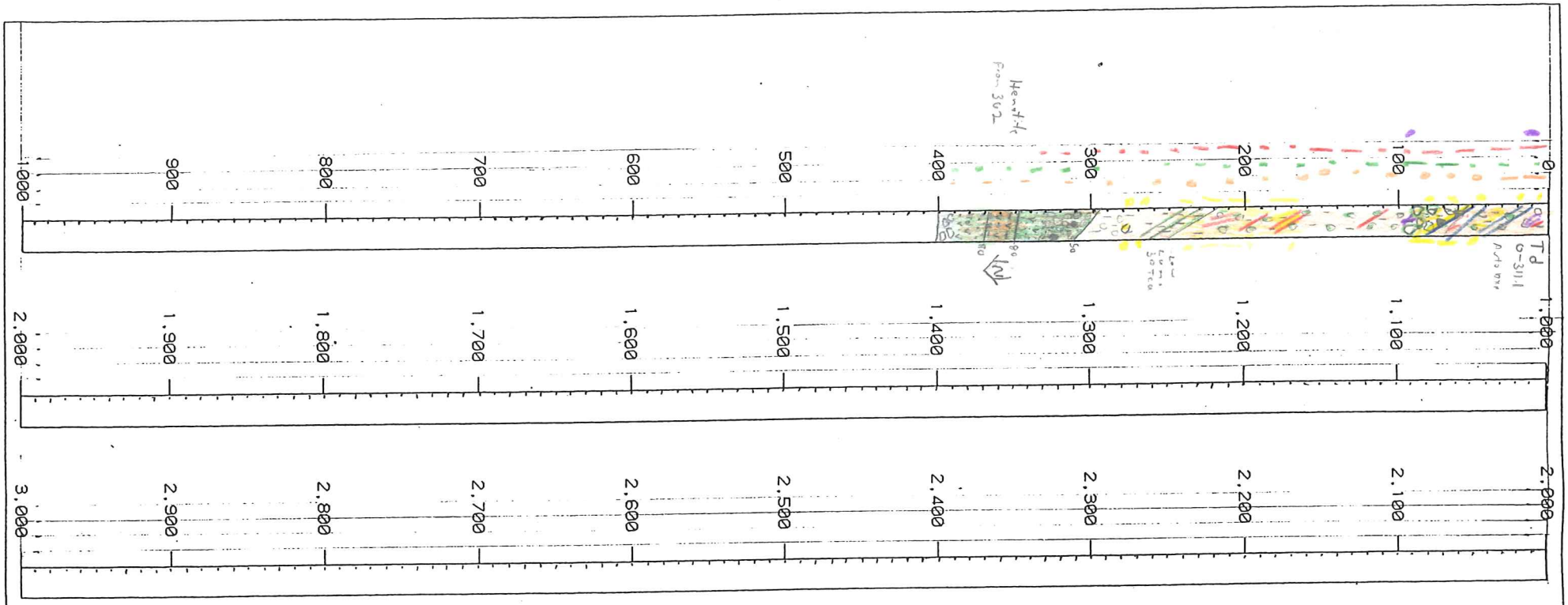
HOLE # RS-D348-99 DATE: 4-26-99 LOGGED BY: D.G. Muckerron PAGE 3 OF 4

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)
19.5	20.5	100	96	55										
20.5	21.5	55	102	50										
21.5	22.5	74	94	40										
22.5	23.5	84	95	38										
23.5	24.5	71	94	59										
24.5	25.5	91	94	76										
25.5	26.5	63	95	54										
26.5	27.5	85	96	52										
27.5	28.0	38	90	0										
28.0	29.0	81	98	64										
29.0	30.0	100	105	81										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D348-99 DATE: 4-27-99 LOGGED BY: D.G. Mackerrow PAGE 4 OF 4

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)
300	310	100	99	89										
310	320	89	93	64										
320	330	100	101	89										
330	340	97	101	76										
340	350	94	101	96										
350	360	84	96	77										
360	370	100	100	99										
370	380	89	98	73										
380	390	98	100	82										
390	400	100	97	76										



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 BAY	FINAL COLLAR COORDINATES	START	FINISH 4/25/9	LOGGED BY D.G.M ACHERROW
LAB AMERICAN	NORTH	HOLE TYPE Core		SURVEYED TO 400
JOB #	EAST	BEARING S 85 E	ANGLE +30	T. D. 400
DRILLING COMPANY Longyear	ELEV			
	DRILLER Pat Bonford			

The Rosebud Mining Company LLC

PAGE 1 OF 1

HOLE # RS-D348-99

Newmont Gold Core Form

Hole# RS-D348-99
Logged by DG Mackerrow
Date 4-26-99
Area
Coords
Az/Incl N 85°E / +30
Total Depth 400
Contractor Long year

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	Alteration:	Met.: FeOX Hem	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay	Mineralogy: Bn Sph
			Td	Rhy Auto Bxx	Wh/Gr Tan									0-311.1 DOZER	1	3	0	0	0	1		1	0	0	3	3	0	0	3
																2									1	1			2
														Auto brecciated Texture															0
															2										3	3			2
															1										1	1			0
20																													
																									2	2			
40															2	1													
															1										1	1			
60																									2	2			
																									1	1			
80																													
															2							0			2	2		3	2
															0										1	1			0
100																													
120																													
																												0	
140																													
160																													
180																													
															1														
															0														
200																													

Newmont Gold Core Form

Hole# RS-D348-99
Logged by D.G. Mackerron
Date 4-27-99
Area
Coords
Az/Incl
Total Depth
Contractor
Page 2 of 2

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: OBoSOx
200			Td	Rhy	Gry Wh									0-311.1 DOZER	0	1	0	0	0	1	0	0	0	1	1	0	0	0
															2	0								2	2			
														Auto brecciated texture	0	1								1	1			
																				0								
220															1	0				1				2	2			
																1								1	1			
																0								2	2			
																1								1	1			
240																				0								
															0													
260																												
																								2	2			
																								1	1			
280																				1								
300																												
			Tos	Conq S.S. AFT					So					311.1 TOS EPICLASTIC SEDS AND ASH FALL TUFF								1		Tr	0	1	0	2
320																												
340																												
360																					Tr							
380																					1							
400														T.D. 400														

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP053318
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-D348-99 00-20	1.5	0.55	64	< 3	66	< 3	0.14	0.2	1	6	4	1.48	457	0.3	40	0.02	127	2	0.01	5	0.006	22	4	12.6	17	9	< .01	< 8	1	< 2	188
RS-D348-99 20-39	1.8	0.54	83	< 3	21	< 3	0.17	< .2	1	5	4	1.61	616	0.3	45	0.02	141	3	0.01	3	0.005	21	< 3	13.7	18	11	< .01	< 8	< 1	< 2	75
RS-D348-99 39-60	1.3	0.45	59	< 3	25	< 3	0.15	< .2	< 1	9	5	1.6	25	0.27	49	0.02	157	2	0.02	2	0.006	21	3	9	16	11	< .01	< 8	< 1	< 2	56
RS-D348-99 60-80	2	0.43	63	< 3	29	< 3	0.13	< .2	< 1	9	6	1.7	< 5	0.24	50	0.02	179	3	0.03	2	0.006	19	6	9	15	11	< .01	< 8	1	< 2	39
RS-D348-99 80-95	1.8	0.47	51	< 3	75	< 3	0.13	< .2	< 1	7	5	1.58	10	0.24	50	0.02	147	3	0.02	2	0.006	17	5	7.4	23	11	< .01	< 8	< 1	< 2	84
RS-D348-99 95-115	0.5	0.59	14	< 3	25	< 3	0.15	< .2	< 1	8	5	1.38	16	0.28	63	0.03	962	3	0.03	2	0.008	25	5	0.4	16	14	< .01	< 8	1	< 2	81
RS-D348-99 115-135	2.8	0.49	42	< 3	32	< 3	0.12	< .2	1	9	5	2.01	19	0.24	56	0.02	1020	4	0.04	3	0.008	22	6	6.2	13	12	< .01	< 8	1	< 2	87
RS-D348-99 135-155	1.2	0.37	24	< 3	31	3	0.09	0.3	< 1	11	6	1.38	8	0.2	56	0.01	168	2	0.04	3	0.008	21	5	4.1	13	13	< .01	< 8	1	< 2	36
RS-D348-99 155-170	0.7	0.39	11	< 3	21	< 3	0.1	0.2	< 1	8	5	1.43	7	0.22	59	0.01	172	2	0.03	2	0.008	21	< 3	2.3	14	13	< .01	< 8	1	< 2	51
RS-D348-99 170-180	1	0.38	26	< 3	89	< 3	0.12	< .2	< 1	9	7	1.66	< 5	0.2	54	0.01	140	1	0.03	3	0.008	20	3	6.2	17	11	< .01	< 8	< 1	< 2	32
RS-D348-99 180.0-192.5	1.6	0.38	36	< 3	40	< 3	0.11	< .2	1	13	9	2.2	9	0.21	51	0.01	172	2	0.04	5	0.008	20	3	7.4	14	11	< .01	< 8	1	< 2	30
RS-D348-99 192.5-202.2	2.3	0.64	59	< 3	62	< 3	0.14	< .2	1	18	11	3.18	8	0.31	52	0.03	185	4	0.05	6	0.009	19	5	11	15	11	< .01	< 8	4	< 2	58
RS-D348-99 202.2-205.4	3.3	0.78	87	< 3	77	< 3	0.07	< .2	1	25	16	2.64	12	0.38	45	0.02	202	6	0.06	8	0.006	20	5	13.3	12	10	< .01	< 8	2	< 2	39
RS-D348-99 205.4-223.8	1.9	0.52	74	4	40	< 3	0.1	0.2	1	14	9	1.87	7	0.27	52	0.02	174	5	0.06	5	0.007	24	4	9.9	14	11	< .01	< 8	1	< 2	52
RS-D348-99 223.8-226.4	1.9	0.5	73	< 3	53	< 3	0.06	0.6	1	27	41	2.88	16	0.3	48	0.01	243	8	0.08	10	0.006	21	4	12.4	10	9	< .01	< 8	3	< 2	58
RS-D348-99 226.4-243.0	2.3	0.51	80	< 3	102	< 3	0.14	0.2	1	20	11	2.25	6	0.3	56	0.01	330	5	0.07	7	0.009	18	< 3	10	16	11	< .01	< 8	1	< 2	52
RS-D348-99 243-265	0.6	0.49	42	< 3	41	< 3	0.51	0.2	1	11	7	1.77	6	0.28	62	0.02	708	3	0.06	4	0.01	22	< 3	4.5	25	12	< .01	< 8	1	< 2	33
RS-D348-99 265-285	1.1	0.41	16	< 3	36	< 3	0.25	0.3	1	20	14	2.17	11	0.28	61	0.01	577	4	0.05	7	0.009	22	< 3	5.9	22	12	< .01	< 8	1	< 2	54
RS-D348-99 285.0-311.1	1	0.5	10	< 3	26	< 3	1.15	0.4	< 1	7	5	1.79	10	0.25	51	0.03	902	3	0.03	2	0.007	27	< 3	4.7	67	10	< .01	< 8	1	< 2	44
RS-D348-99 311.1-325.0	0.6	0.86	7	< 3	42	< 3	1.46	0.2	2	12	10	2.22	14	0.32	42	0.06	751	2	0.03	6	0.017	25	< 3	0.7	92	9	< .01	< 8	6	< 2	50
RS-D348-99 325-340	0.5	0.78	5	< 3	103	< 3	2.13	0.7	2	21	16	1.8	14	0.32	42	0.07	1122	2	0.03	9	0.046	16	< 3	0.8	93	8	< .01	< 8	13	< 2	45
RS-D348-99 340-360	0.6	0.59	< 2	< 3	62	< 3	2.53	0.4	1	8	8	0.53	11	0.34	44	0.06	815	1	0.02	3	0.02	19	< 3	< .1	163	8	< .01	< 8	2	< 2	28
RS-D348-99 360-380	0.5	0.54	2	< 3	62	< 3	1.24	0.3	1	11	8	0.98	30	0.34	42	0.04	610	2	0.03	5	0.018	26	< 3	0.4	117	9	< .01	< 8	1	< 2	28
RS-D348-99 380-400	< .3	0.56	2	< 3	88	< 3	1.42	0.5	1	8	7	1.1	23	0.34	40	0.04	686	1	0.03	3	0.032	20	< 3	0.3	137	7	0.01	< 8	4	< 2	33
STANDARD C3/DS2	5.1	1.8	58	16	145	19	0.54	22.2	12	169	64	3.24	242	0.16	18	0.56	795	24	0.04	34	0.084	36	13	2.4	28	20	0.08	23	78	14	154
STANDARD G-2	< .3	0.94	< 2	< 3	230	< 3	0.64	0.2	4	79	4	1.95	< 5	0.48	8	0.58	570	1	0.07	8	0.083	< 3	< 3	0.1	71	4	0.12	< 8	40	2	39

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ANALYSIS REPORT SP053318

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-D348-99 RECEIVED : 4 MAY 1999

No. SAMPLES : 99 REPORTED : 18 MAY 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
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053318

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D348-99

REPORTED : 18 MAY 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D348-99 00-05	122		0.004		1.7	0.05
RS-D348-99 05-10	142		0.004		1.6	0.05
RS-D348-99 10-15	46		0.001		1.4	0.04
RS-D348-99 15-17	252		0.007		2.3	0.07
RS-D348-99 17-20	66		0.002		1.7	0.05
RS-D348-99 20-25	77		0.002		1.9	0.06
RS-D348-99 25-30	60		0.002		1.3	0.04
RS-D348-99 30-35	65		0.002		1.7	0.05
RS-D348-99 35-39	78		0.002		1.6	0.05
RS-D348-99 39-43	117		0.003		1.1	0.03
RS-D348-99 43-45	61		0.002		1.1	0.03
RS-D348-99 45.0-48.2	119		0.003		1.5	0.04
RS-D348-99 48.2-52.2	108		0.003		1.3	0.04
RS-D348-99 52.2-55.0	25		<0.001		1.1	0.03
RS-D348-99 55-58	109		0.003		2.2	0.06
RS-D348-99 58-60	24		<0.001		1.5	0.04
RS-D348-99 60.0-63.4	66		0.002		1.7	0.05
RS-D348-99 63.4-65.0	300		0.009		2.4	0.07
RS-D348-99 65.0-67.5	315	388	0.009	0.011	2.2	0.06
RS-D348-99 67.5-70.0	44		0.001		0.9	0.03
RS-D348-99 70-75	19		<0.001		0.7	0.02
RS-D348-99 75-80	24		<0.001		1.0	0.03
RS-D348-99 80.0-84.3	28		<0.001		3.0	0.09
RS-D348-99 84.3-86.9	277		0.008		2.1	0.06
RS-D348-99 86.9-90.7	74		0.002		0.9	0.03

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
RS-D348-99 90.7-95.0	26		<0.001		0.5	<0.02
RS-D348-99 95-100	17		<0.001		0.5	<0.02
RS-D348-99 100-105	<5		<0.001		<0.5	<0.02
RS-D348-99 105-110	<5		<0.001		<0.5	<0.02
RS-D348-99 110-115	16		<0.001		<0.5	<0.02
RS-D348-99 115-120	17		<0.001		<0.5	<0.02
RS-D348-99 120-125	62		0.002		1.3	0.04
RS-D348-99 125-130	353		0.010		5.4	0.16
RS-D348-99 130-135	180		0.005		2.1	0.06
RS-D348-99 135-140	24		<0.001		0.5	<0.02
RS-D348-99 140-145	24		<0.001		0.6	<0.02
RS-D348-99 145-150	20		<0.001		<0.5	<0.02
RS-D348-99 150-155	13		<0.001		<0.5	<0.02
RS-D348-99 155-160	5		<0.001		<0.5	<0.02
RS-D348-99 160-165	16		<0.001		<0.5	<0.02
RS-D348-99 165-170	6		<0.001		0.5	<0.02
RS-D348-99 170.0-173.5	11		<0.001		0.6	<0.02
RS-D348-99 173.5-176.5	460		0.013		1.5	0.04
RS-D348-99 176.5-180.0	22		<0.001		0.9	0.03
RS-D348-99 180-185	16		<0.001		0.7	0.02
RS-D348-99 185-190	22		<0.001		1.5	0.04
RS-D348-99 190.0-192.5	134		0.004		1.7	0.05
RS-D348-99 192.5-195.0	53		0.002		1.8	0.05
RS-D348-99 195-199	64		0.002		1.8	0.05
RS-D348-99 199.0-202.2	52		0.002		1.2	0.04

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ANALYSIS REPORT SP053318

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REFERENCE : RS-D348-99

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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
RS-D348-99 202.2-205.4	893	912	0.026	0.027	5.9	0.17
RS-D348-99 205.4-210.0	48	48	0.001	0.001	1.6	0.05
RS-D348-99 210-215	65		0.002		1.3	0.04
RS-D348-99 215-219	69		0.002		1.2	0.04
RS-D348-99 219.0-221.1	108		0.003		1.8	0.05
RS-D348-99 221.1-223.8	138		0.004		1.1	0.03
RS-D348-99 223.8-226.4	491		0.014		2.2	0.06
RS-D348-99 223.8-226.4B	1119	1130	0.033	0.033	0.5	<0.02
RS-D348-99 226.4-230.7	164		0.005		1.4	0.04
RS-D348-99 230.7-233.8	1289	1382	0.038	0.040	7.5	0.22
RS-D348-99 233.8-237.5	39		0.001		1.5	0.04
RS-D348-99 237.5-241.5	77		0.002		1.1	0.03
RS-D348-99 241.5-243.0	78		0.002		0.6	<0.02
RS-D348-99 243-245	35		0.001		0.7	0.02
RS-D348-99 245-250	17		<0.001		0.5	<0.02
RS-D348-99 250-255	10		<0.001		<0.5	<0.02
RS-D348-99 255-260	12		<0.001		0.5	<0.02
RS-D348-99 260-265	26		<0.001		0.5	<0.02
RS-D348-99 265.0-267.2	54		0.002		1.1	0.03
RS-D348-99 267.2-270.0	118		0.003		0.8	0.02
RS-D348-99 270-275	23		<0.001		0.7	0.02
RS-D348-99 275-280	105		0.003		0.6	<0.02
RS-D348-99 280-285	<5		<0.001		0.5	<0.02
RS-D348-99 285-290	12		<0.001		<0.5	<0.02
RS-D348-99 290.0-294.3	16		<0.001		0.6	<0.02

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ANALYSIS REPORT SP053318

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D348-99

REPORTED : 18 MAY 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D348-99 294.3-297.2	5260		0.153		11.6	0.34
RS-D348-99 297.2-300.0	15		<0.001		0.5	<0.02
RS-D348-99 300-305	383		0.011		1.0	0.03
RS-D348-99 305-310	<5		<0.001		<0.5	<0.02
RS-D348-99 310.0-311.1	185		0.005		0.5	<0.02
RS-D348-99 311.1-315.0	<5		<0.001		<0.5	<0.02
RS-D348-99 315-320	23		<0.001		<0.5	<0.02
RS-D348-99 320-325	<5		<0.001		<0.5	<0.02
RS-D348-99 320-325B	96		0.003		<0.5	<0.02
RS-D348-99 325-330	<5		<0.001		<0.5	<0.02
RS-D348-99 330-335	<5		<0.001		<0.5	<0.02
RS-D348-99 335-340	10		<0.001		<0.5	<0.02
RS-D348-99 340-345	<5		<0.001		0.7	0.02
RS-D348-99 345-350	<5		<0.001		<0.5	<0.02
RS-D348-99 350-355	<5		<0.001		<0.5	<0.02
RS-D348-99 355-360	<5		<0.001		<0.5	<0.02
RS-D348-99 360-365	<5		<0.001		<0.5	<0.02
RS-D348-99 365-370	<5		<0.001		<0.5	<0.02
RS-D348-99 370-375	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-D348-99 375-380	<5		<0.001		<0.5	<0.02
RS-D348-99 380-385	<5		<0.001		<0.5	<0.02
RS-D348-99 385-390	<5		<0.001		<0.5	<0.02
RS-D348-99 390-395	<5		<0.001		<0.5	<0.02
RS-D348-99 395-400	<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	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:	SP053318
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-D348-99 00-20	1.5	0.55	64	< 3	66	< 3	0.14	0.2	1	6	4	1.48	457	0.3	40	0.02	127	2	0.01	5	0.006	22	4	12.6	17	9	< .01	< 8	1	< 2	138
RS-D348-99 20-39	1.8	0.54	83	< 3	21	< 3	0.17	< .2	1	5	4	1.61	616	0.3	45	0.02	141	3	0.01	3	0.005	21	< 3	13.7	18	11	< .01	< 8	< 1	< 2	75
RS-D348-99 39-60	1.3	0.45	59	< 3	25	< 3	0.15	< .2	< 1	9	5	1.6	25	0.27	49	0.02	157	2	0.02	2	0.006	21	3	9	16	11	< .01	< 8	< 1	< 2	56
RS-D348-99 60-80	2	0.43	63	< 3	29	< 3	0.13	< .2	< 1	9	6	1.7	< 5	0.24	50	0.02	179	3	0.03	2	0.006	19	6	9	15	11	< .01	< 8	1	< 2	39
RS-D348-99 80-95	1.8	0.47	51	< 3	75	< 3	0.13	< .2	< 1	7	5	1.58	10	0.24	50	0.02	147	3	0.02	2	0.006	17	5	7.4	23	11	< .01	< 8	< 1	< 2	44
RS-D348-99 95-115	0.5	0.59	14	< 3	25	< 3	0.15	< .2	< 1	8	5	1.38	16	0.28	63	0.03	962	3	0.03	2	0.008	25	5	0.4	16	14	< .01	< 8	1	< 2	41
RS-D348-99 115-135	2.8	0.49	42	< 3	32	< 3	0.12	< .2	1	9	5	2.01	19	0.24	56	0.02	1020	4	0.04	3	0.008	22	6	6.2	13	12	< .01	< 8	1	< 2	47
RS-D348-99 135-155	1.2	0.37	24	< 3	31	3	0.09	0.3	< 1	11	6	1.38	8	0.2	56	0.01	168	2	0.04	3	0.008	21	5	4.1	13	13	< .01	< 8	1	< 2	36
RS-D348-99 155-170	0.7	0.39	11	< 3	21	< 3	0.1	0.2	< 1	8	5	1.43	7	0.22	59	0.01	172	2	0.03	2	0.008	21	< 3	2.3	14	13	< .01	< 8	1	< 2	51
RS-D348-99 170-180	1	0.38	26	< 3	99	< 3	0.12	< .2	< 1	9	7	1.66	< 5	0.2	54	0.01	140	1	0.03	3	0.008	20	3	6.2	17	11	< .01	< 8	< 1	< 2	62
RS-D348-99 180.0-192.5	1.6	0.38	36	< 3	40	< 3	0.11	< .2	1	13	9	2.2	9	0.21	51	0.01	172	2	0.04	5	0.008	20	3	7.4	14	11	< .01	< 8	1	< 2	60
RS-D348-99 192.5-202.2	2.3	0.64	59	< 3	62	< 3	0.14	< .2	1	18	11	3.18	8	0.31	52	0.03	185	4	0.05	6	0.009	19	5	11	15	11	< .01	< 8	4	< 2	58
RS-D348-99 202.2-205.4	3.3	0.78	87	< 3	77	< 3	0.07	< .2	1	25	16	2.64	12	0.38	45	0.02	202	6	0.06	8	0.006	20	5	13.3	12	10	< .01	< 8	2	< 2	39
RS-D348-99 205.4-223.8	1.9	0.52	74	4	40	< 3	0.1	0.2	1	14	9	1.87	7	0.27	52	0.02	174	5	0.06	5	0.007	24	4	9.9	14	11	< .01	< 8	1	< 2	52
RS-D348-99 223.8-226.4	1.9	0.5	73	< 3	53	< 3	0.06	0.6	1	27	41	2.88	16	0.3	48	0.01	243	8	0.08	10	0.006	21	4	12.4	10	9	< .01	< 8	3	< 2	58
RS-D348-99 226.4-243.0	2.3	0.51	80	< 3	102	< 3	0.14	0.2	1	20	11	2.25	6	0.3	56	0.01	330	5	0.07	7	0.009	18	< 3	10	16	11	< .01	< 8	1	< 2	52
RS-D348-99 243-265	0.6	0.49	42	< 3	41	< 3	0.51	0.2	1	11	7	1.77	6	0.28	62	0.02	708	3	0.06	4	0.01	22	< 3	4.5	25	12	< .01	< 8	1	< 2	53
RS-D348-99 265-285	1.1	0.41	16	< 3	36	< 3	0.25	0.3	1	20	14	2.17	11	0.28	61	0.01	577	4	0.05	7	0.009	22	< 3	5.9	22	12	< .01	< 8	1	< 2	54
RS-D348-99 285.0-311.1	1	0.5	10	< 3	26	< 3	1.15	0.4	< 1	7	5	1.79	10	0.25	51	0.03	902	3	0.03	2	0.007	27	< 3	4.7	67	10	< .01	< 8	1	< 2	44
RS-D348-99 311.1-325.0	0.6	0.86	7	< 3	42	< 3	1.46	0.2	2	12	10	2.22	14	0.32	42	0.06	751	2	0.03	6	0.017	25	< 3	0.7	92	9	< .01	< 8	6	< 2	50
RS-D348-99 325-340	0.5	0.78	5	< 3	103	< 3	2.13	0.7	2	21	16	1.8	14	0.32	42	0.07	1122	2	0.03	9	0.046	16	< 3	0.8	93	8	< .01	< 8	13	< 2	45
RS-D348-99 340-360	0.6	0.59	< 2	< 3	62	< 3	2.53	0.4	1	8	8	0.53	11	0.34	44	0.06	815	1	0.02	3	0.02	19	< 3	< .1	163	8	< .01	< 8	2	< 2	28
RS-D348-99 360-380	0.5	0.54	2	< 3	62	< 3	1.24	0.3	1	11	8	0.98	30	0.34	42	0.04	610	2	0.03	5	0.018	26	< 3	0.4	117	9	< .01	< 8	1	< 2	28
RS-D348-99 380-400	< .3	0.56	2	< 3	88	< 3	1.42	0.5	1	8	7	1.1	23	0.34	40	0.04	686	1	0.03	3	0.032	20	< 3	0.3	137	7	0.01	< 8	4	< 2	33
STANDARD C3/DS2	5.1	1.8	58	16	145	19	0.54	22.2	12	169	64	3.24	242	0.16	18	0.56	795	24	0.04	34	0.084	36	13	2.4	28	20	0.08	23	78	14	154
STANDARD G-2	< .3	0.94	< 2	< 3	230	< 3	0.64	0.2	4	79	4	1.95	< 5	0.48	8	0.56	570	1	0.07	8	0.093	< 3	< 3	0.1	71	4	0.12	< 8	40	2	39

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053318

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

:

151

CLIENT REFERENCE No: RS-D348-99 RECEIVED : 4 MAY 1999

No. SAMPLES : 99 REPORTED : 12 MAY 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
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

01/01/1996 01:09 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053318

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D348-99

REPORTED : 12 MAY 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D348-99 00-05	122		0.004		1.7	0.05
RS-D348-99 05-10	142		0.004		1.6	0.05
RS-D348-99 10-15	46		0.001		1.4	0.04
RS-D348-99 15-17	252		0.007		2.3	0.07
RS-D348-99 17-20	66		0.002		1.7	0.05
RS-D348-99 20-25	77		0.002		1.9	0.06
RS-D348-99 25-30	60		0.002		1.3	0.04
RS-D348-99 30-35	65		0.002		1.7	0.05
RS-D348-99 35-39	78		0.002		1.6	0.05
RS-D348-99 39-43	117		0.003		1.1	0.03
RS-D348-99 43-45	61		0.002		1.1	0.03
RS-D348-99 45.0-48.2	119		0.003		1.5	0.04
RS-D348-99 48.2-52.2	108		0.003		1.3	0.04
RS-D348-99 52.2-55.0	25		<0.001		1.1	0.03
RS-D348-99 55-58	109		0.003		2.2	0.06
RS-D348-99 58-60	24		<0.001		1.5	0.04
RS-D348-99 60.0-63.4	66		0.002		1.7	0.05
RS-D348-99 63.4-65.0	300		0.009		2.4	0.07
RS-D348-99 65.0-67.5	315	388	0.009	0.011	2.2	0.06
RS-D348-99 67.5-70.0	44		0.001		0.9	0.03
RS-D348-99 70-75	19		<0.001		0.7	0.02
RS-D348-99 75-80	24		<0.001		1.0	0.03
RS-D348-99 80.0-84.3	28		<0.001		3.0	0.09
RS-D348-99 84.3-86.9	277		0.008		2.1	0.06
RS-D348-99 86.9-90.7	74		0.002		0.9	0.03

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053318

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PROJECT : ROSEBUD
REFERENCE : RS-D348-99

REPORTED : 12 MAY 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D348-99 90.7-95.0	26		<0.001		0.5	<0.02
RS-D348-99 95-100	17		<0.001		0.5	<0.02
RS-D348-99 100-105	<5		<0.001		<0.5	<0.02
RS-D348-99 105-110	<5		<0.001		<0.5	<0.02
RS-D348-99 110-115	16		<0.001		<0.5	<0.02
RS-D348-99 115-120	17		<0.001		<0.5	<0.02
RS-D348-99 120-125	62		0.002		1.3	0.04
RS-D348-99 125-130	353		0.010		5.4	0.16
RS-D348-99 130-135	180		0.005		2.1	0.06
RS-D348-99 135-140	24		<0.001		0.5	<0.02
RS-D348-99 140-145	24		<0.001		0.6	<0.02
RS-D348-99 145-150	20		<0.001		<0.5	<0.02
RS-D348-99 150-155	13		<0.001		<0.5	<0.02
RS-D348-99 155-160	5		<0.001		<0.5	<0.02
RS-D348-99 160-165	16		<0.001		<0.5	<0.02
RS-D348-99 165-170	6		<0.001		0.5	<0.02
RS-D348-99 170.0-173.5	11		<0.001		0.6	<0.02
RS-D348-99 173.5-176.5	460		0.013		1.5	0.04
RS-D348-99 176.5-180.0	22		<0.001		0.9	0.03
RS-D348-99 180-185	16		<0.001		0.7	0.02
RS-D348-99 185-190	22		<0.001		1.5	0.04
RS-D348-99 190.0-192.5	134		0.004		1.7	0.05
RS-D348-99 192.5-195.0	53		0.002		1.8	0.05
RS-D348-99 195-199	64		0.002		1.8	0.05
RS-D348-99 199.0-202.2	52		0.002		1.2	0.04

AMERICAN ASSAY LABORATORIES

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REFERENCE : RS-D348-99

REPORTED : 12 MAY 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D348-99 202.2-205.4	893	912	0.026	0.027	5.9	0.17
RS-D348-99 205.4-210.0	48	48	0.001	0.001	1.6	0.05
RS-D348-99 210-215	65		0.002		1.3	0.04
RS-D348-99 215-219	69		0.002		1.2	0.04
RS-D348-99 219.0-221.1	108		0.003		1.8	0.05
RS-D348-99 221.1-223.8	138		0.004		1.1	0.03
RS-D348-99 223.8-226.4	491		0.014		2.2	0.06
RS-D348-99 223.8-226.4B	1119	1130	0.033	0.033	0.5	<0.02
RS-D348-99 226.4-230.7	164		0.005		1.4	0.04
RS-D348-99 230.7-233.8	1289	1382	0.038	0.040	7.5	0.22
RS-D348-99 233.8-237.5	39		0.001		1.5	0.04
RS-D348-99 237.5-241.5	77		0.002		1.1	0.03
RS-D348-99 241.5-243.0	78		0.002		0.6	<0.02
RS-D348-99 243-245	35		0.001		0.7	0.02
RS-D348-99 245-250	17		<0.001		0.5	<0.02
RS-D348-99 250-255	10		<0.001		<0.5	<0.02
RS-D348-99 255-260	12		<0.001		0.5	<0.02
RS-D348-99 260-265	26		<0.001		0.5	<0.02
RS-D348-99 265.0-267.2	54		0.002		1.1	0.03
RS-D348-99 267.2-270.0	118		0.003		0.8	0.02
RS-D348-99 270-275	23		<0.001		0.7	0.02
RS-D348-99 275-280	105		0.003		0.6	<0.02
RS-D348-99 280-285	<5		<0.001		0.5	<0.02
RS-D348-99 285-290	12		<0.001		<0.5	<0.02
RS-D348-99 290.0-294.3	16		<0.001		0.6	<0.02

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053318

CLIENT : NEWMONT GOLD COMPANY
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REFERENCE : RS-D348-99

REPORTED : 12 MAY 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D348-99 294.3-297.2	5260		0.153		11.6	0.34
RS-D348-99 297.2-300.0	15		<0.001		0.5	<0.02
RS-D348-99 300-305	383		0.011		1.0	0.03
RS-D348-99 305-310	<5		<0.001		<0.5	<0.02
RS-D348-99 310.0-311.1	185		0.005		0.5	<0.02
RS-D348-99 311.1-315.0	<5		<0.001		<0.5	<0.02
RS-D348-99 315-320	23		<0.001		<0.5	<0.02
RS-D348-99 320-325	<5		<0.001		<0.5	<0.02
RS-D348-99 320-325B	96		0.003		<0.5	<0.02
RS-D348-99 325-330	<5		<0.001		<0.5	<0.02
RS-D348-99 330-335	<5		<0.001		<0.5	<0.02
RS-D348-99 335-340	10		<0.001		<0.5	<0.02
RS-D348-99 340-345	<5		<0.001		0.7	0.02
RS-D348-99 345-350	<5		<0.001		<0.5	<0.02
RS-D348-99 350-355	<5		<0.001		<0.5	<0.02
RS-D348-99 355-360	<5		<0.001		<0.5	<0.02
RS-D348-99 360-365	<5		<0.001		<0.5	<0.02
RS-D348-99 365-370	<5		<0.001		<0.5	<0.02
RS-D348-99 370-375	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-D348-99 375-380	<5		<0.001		<0.5	<0.02
RS-D348-99 380-385	<5		<0.001		<0.5	<0.02
RS-D348-99 385-390	<5		<0.001		<0.5	<0.02
RS-D348-99 390-395	<5		<0.001		<0.5	<0.02
RS-D348-99 395-400	<5		<0.001		<0.5	<0.02

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold

Address: Winnemucca Office

City Winnemucca State NV Zip 89445

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

Project Name: Rosebud Exploration Purchase Order Number: _____

Date Submitted: _____ Number of Samples: 97 + 2 Pulps

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS D348-99	core	FA 30 Au, Ag D210
		AA 1-2 ICP + Se
		composited as shown on attachment
STANDARDS: 226.413, (NO ICP)	Pulp	Au Ag Only
RS-D348-99 MS-3 (RMG1) 226.413 PEEL HERE RS-D348-99 325.0B MS-1 (RMG1)		

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 Sullivan
Newmont

Results to:

Rod Vance Newmont Winnemucca

Hurd Allen Rosebud Mine
Winnemucca

Comments:

Newmont Rosebud standard Rep

CLIENT FILE COPY

RS-D348-99 **LAB COPY**

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulp
0	5	5	x	x			1	
5	10	5	x	x			2	
10	15	5	x	x			3	
15	17	2	x	x			4	
17	20	3	x	x	x	20	5	
20	25	5	x	x			6	
25	30	5	x	x			7	
30	35	5	x	x			8	
35	39	4	x	x	x	19	9	
39	43	4	x	x			10	
43	45	2	x	x			11	
45	48.2	3.2	x	x			12	
48.2	52.2	4	x	x			13	
52.2	55	2.8	x	x			14	
55	58	3	x	x			15	
58	60	2	x	x	x	21	16	
60	63.4	3.4	x	x			17	
63.4	65	1.6	x	x			18	
65	67.5	2.5	x	x			19	
67.5	70	2.5	x	x			20	
70	75	5	x	x			21	
75	80	5	x	x	x	20	22	
80	84.3	4.3	x	x			23	
84.3	86.9	2.6	x	x			24	
86.9	90.7	3.8	x	x			25	
90.7	95	4.3	x	x	x	15	26	
95	100	5	x	x			27	
100	105	5	x	x			28	
105	110	5	x	x			29	
110	115	5	x	x	x	20	30	
115	120	5	x	x			31	
120	125	5	x	x			32	
125	130	5	x	x			33	
130	135	5	x	x	x	20	34	
135	140	5	x	x			35	
140	145	5	x	x			36	
145	150	5	x	x			37	
150	155	5	x	x	x	20	38	

155	160	5	x	x			39	
160	165	5	x	x			40	
165	170	5	x	x	x	15	41	
170	173.5	3.5	x	x			42	
173.5	176.5	3	x	x			43	
176.5	180	3.5	x	x	x	10	44	
180	185	5	x	x			45	
185	190	5	x	x			46	
190	192.5	2.5	x	x	x	12.5	47	
192.5	195	2.5	x	x			48	
195	199	4	x	x			49	
199	202.2	3.2	x	x	x	9.7	50	
202.2	205.4	3.2	x	x	x	3.2	51	
205.4	210	4.6	x	x			52	
210	215	5	x	x			53	
215	219	4	x	x			54	
219	221.1	2.1	x	x			55	
221.1	223.8	2.7	x	x	x	18.4	56	
223.8	226.4	2.6	x	x	x	2.6	57	226.4B
226.4	230.7	4.3	x	x			58	
230.7	233.8	3.1	x	x			59	
233.8	237.5	3.7	x	x			60	
237.5	241.5	4	x	x			61	
241.5	243	1.5	x	x	x	19.2	62	
243	245	2	x	x			63	
245	250	5	x	x			64	
250	255	5	x	x			65	
255	260	5	x	x			66	
260	265	5	x	x	x	22	67	
265	267.2	2.2	x	x			68	
267.2	270	2.8	x	x			69	
270	275	5	x	x			70	
275	280	5	x	x			71	
280	285	5	x	x	x	20	72	
285	290	5	x	x			73	
290	294.3	4.3	x	x			74	
294.3	297.2	2.9	x	x			75	
297.2	300	2.8	x	x			76	
300	305	5	x	x			77	
305	310	5	x	x			78	
310	311.1	1.1	x	x	x	26.1	79	
311.1	315	3.9	x	x			80	
315	320	5	x	x			81	
320	325	5	x	x	x	13.9	82	325.0B

325	330	5	x	x			83
330	335	5	x	x			84
335	340	5	x	x	x	15	85
340	345	5	x	x			86
345	350	5	x	x			87
350	355	5	x	x			88
355	360	5	x	x	x	20	89
360	365	5	x	x			90
365	370	5	x	x			91
370	375	5	x	x			92
375	380	5	x	x	x	20	93
380	385	5	x	x			94
385	390	5	x	x			95
390	395	5	x	x			96
395	400	5	x	x	x	20	97

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-D348-99

Footage	Measured Bearing	Corrected Azimuth -15.66	Measured Inclination	Calculated Dip
50	79.75	95.4	118	28.0
200	79	94.7	118	28.0
400	76.5	92.2	119	29.0

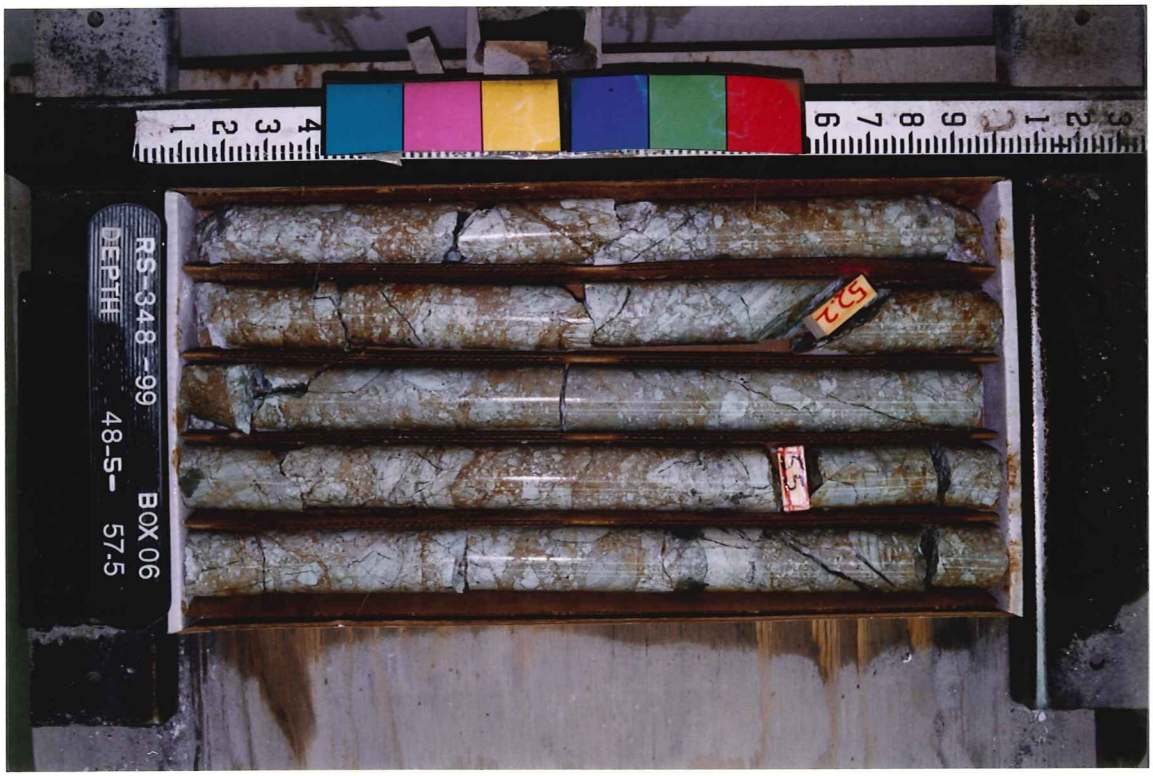
RS-348 -99
BOX 02
DEPTH
10-0- 20-0

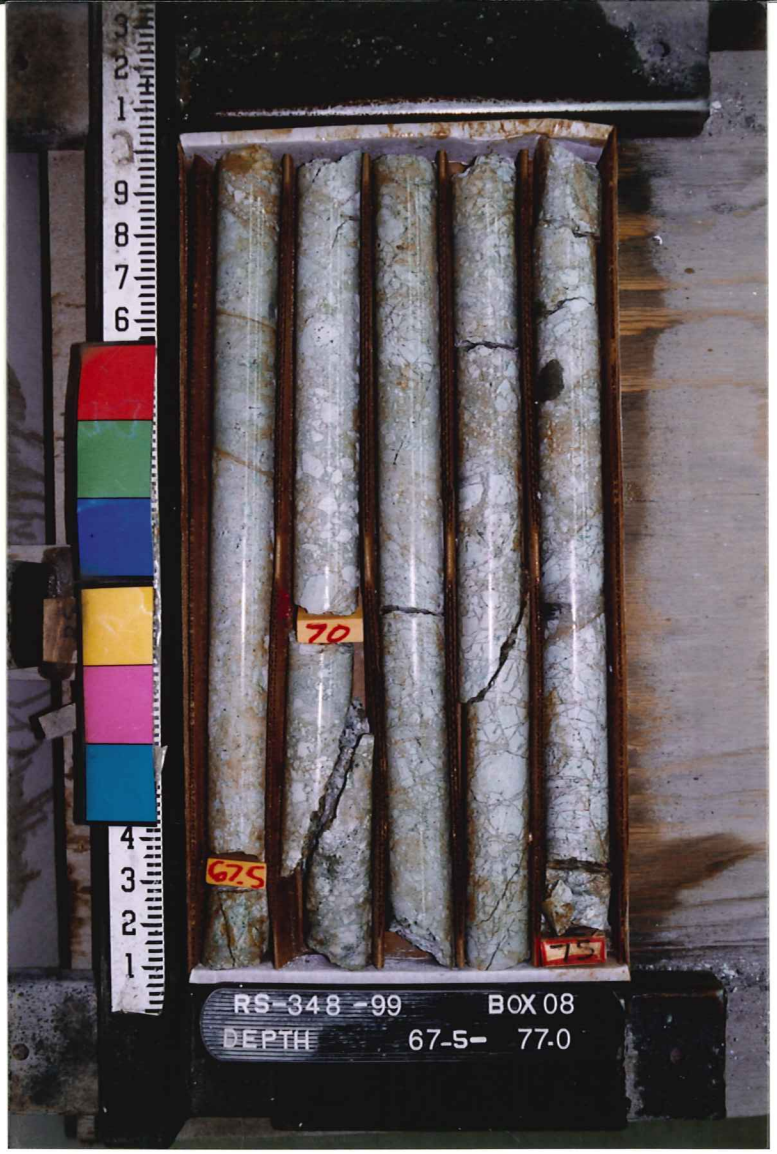
RS-348 -99
BOX 01
DEPTH
0-0- 10-0

RS-348 -99
BOX 03
DEPTH
20-0- 29-0

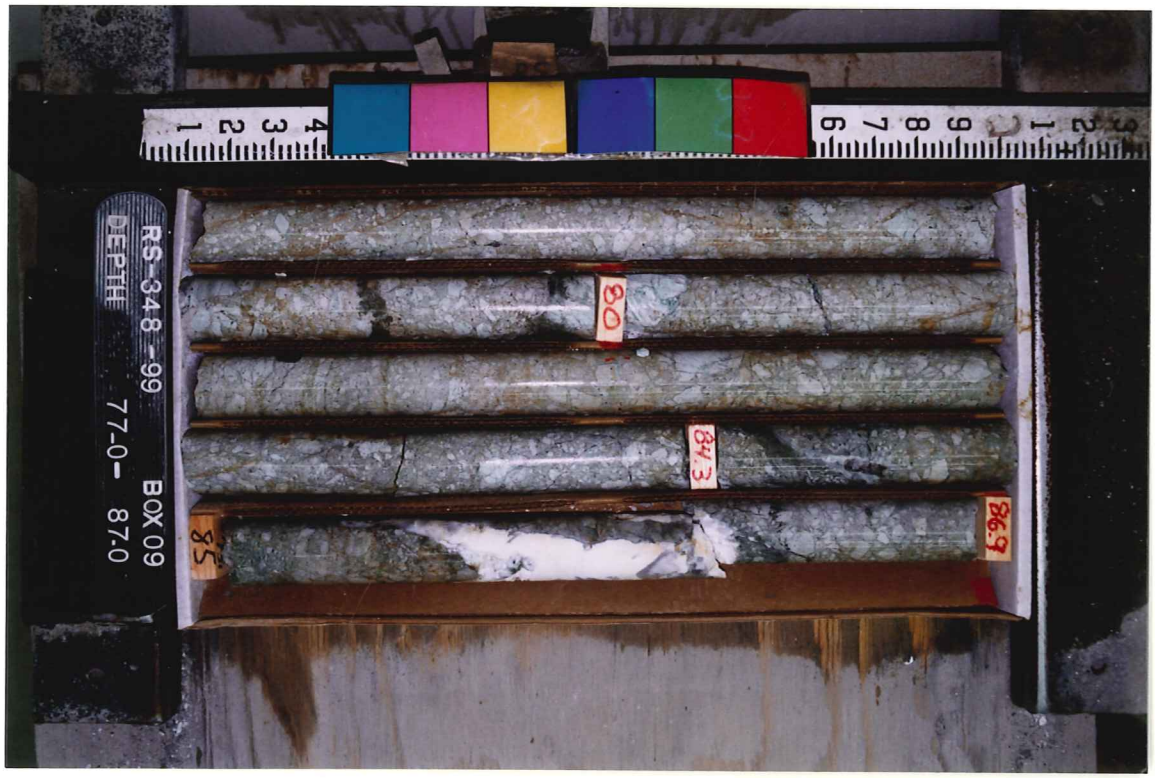
43
48.2
45
37
RS-348 -99
BOX 05
DEPTH
39-0- 48.5

35
30
RS-348 -99
BOX 04
DEPTH
29-0- 39.0

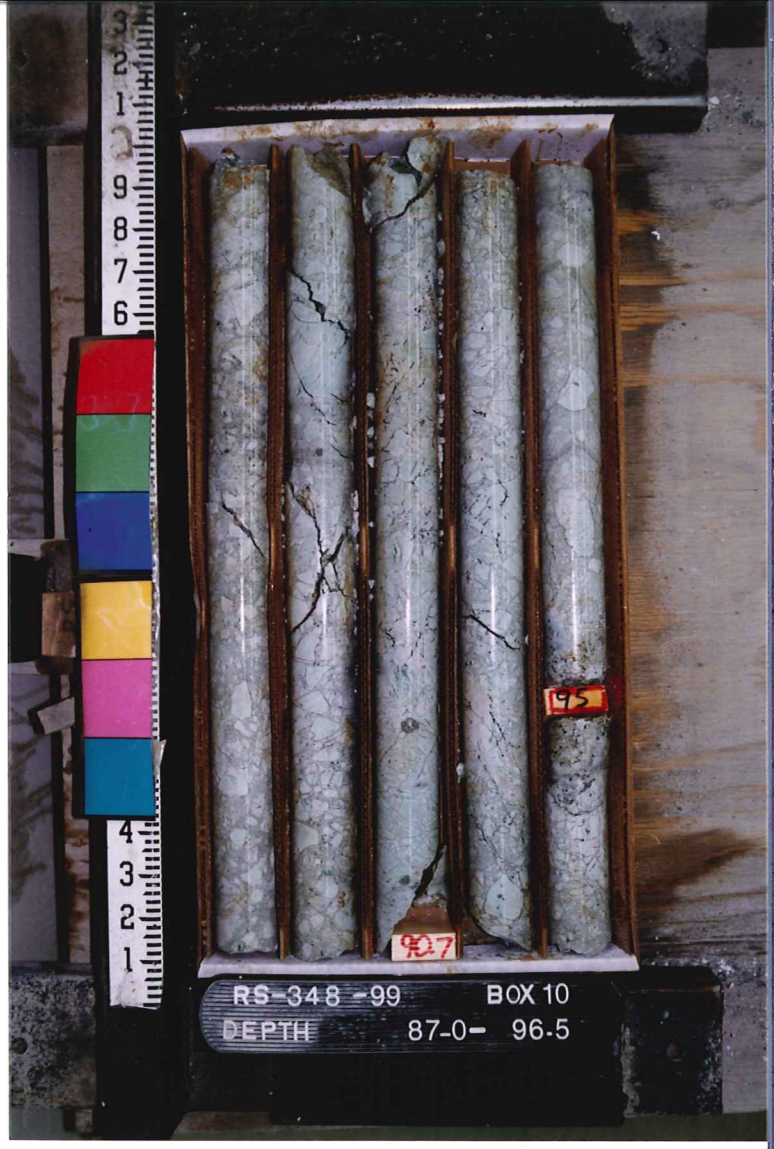

RS-348 -99
DEPTH
48-5- 57.5
BOX 06
52
55


70
67.5
75
RS-348 -99
BOX 08
DEPTH
67-5- 77.0

63.4
65
58
60
RS-348 -99
BOX 07
DEPTH
57-5- 67.5


80
84.3
85
86.9
RS-348 -99
BOX 09
DEPTH
77-0- 87.0

RS-348 -99
BOX 11
DEPTH
96-5- 106-0


RS-348 -99
BOX 10
DEPTH
87-0- 96-5

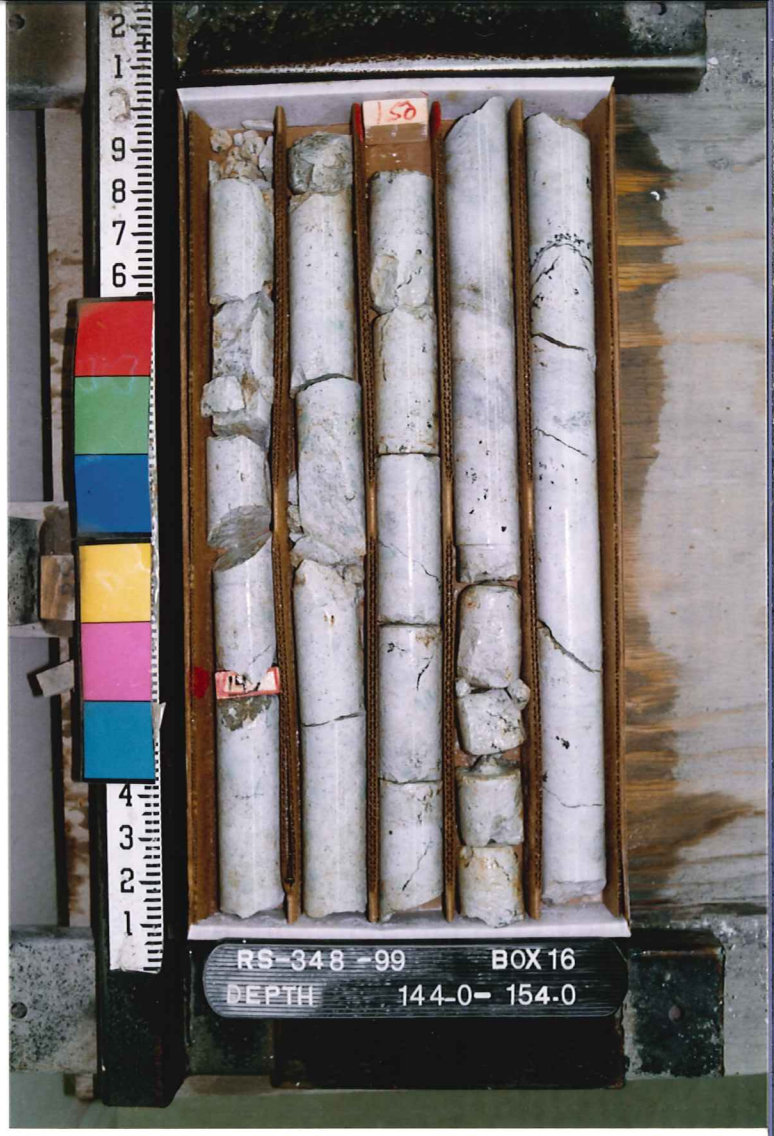
RS-348 -99
BOX 12
DEPTH
106-0- 116-0

130
RS-348 -99 BOX 14
DEPTH 125-5- 134-5

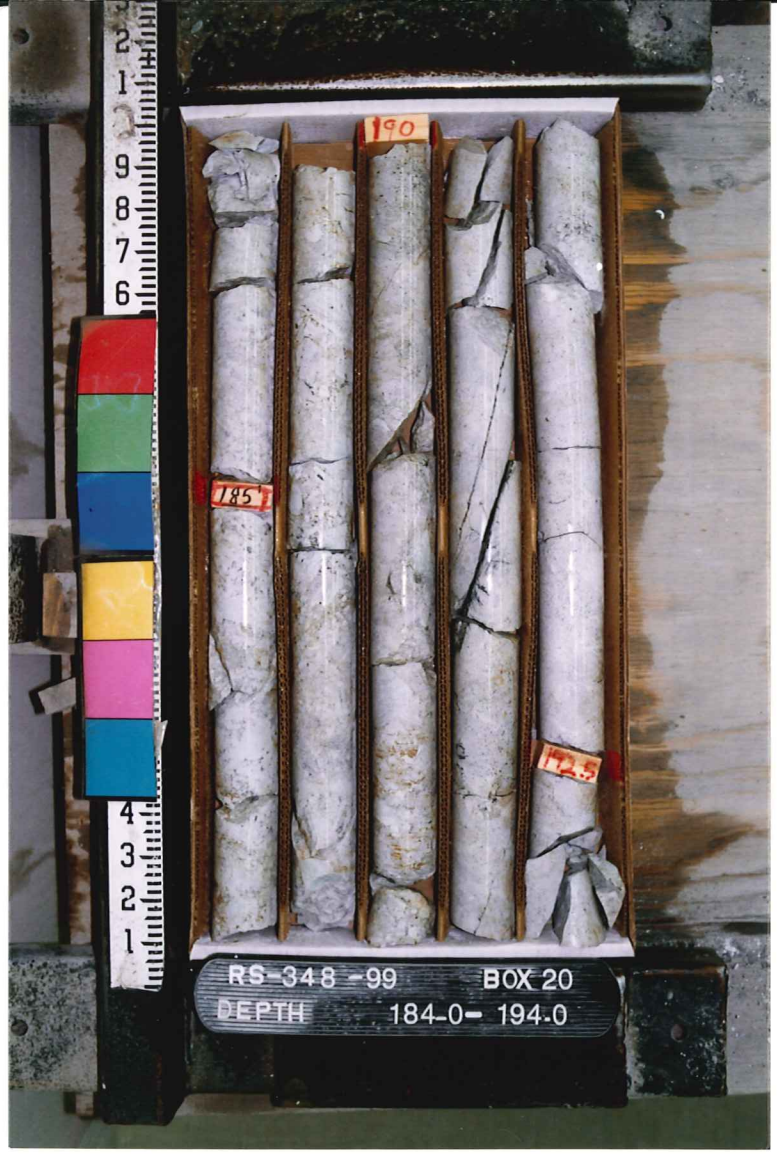
125
120
RS-348 -99 BOX 13
DEPTH 116-0- 125-5

135
140
RS-348 -99 BOX 15
DEPTH 134-5- 144-0

160
153.5
RS-348 -99 BOX 17
DEPTH 154-0- 164-0


150
RS-348 -99 BOX 16
DEPTH 144-0- 154-0

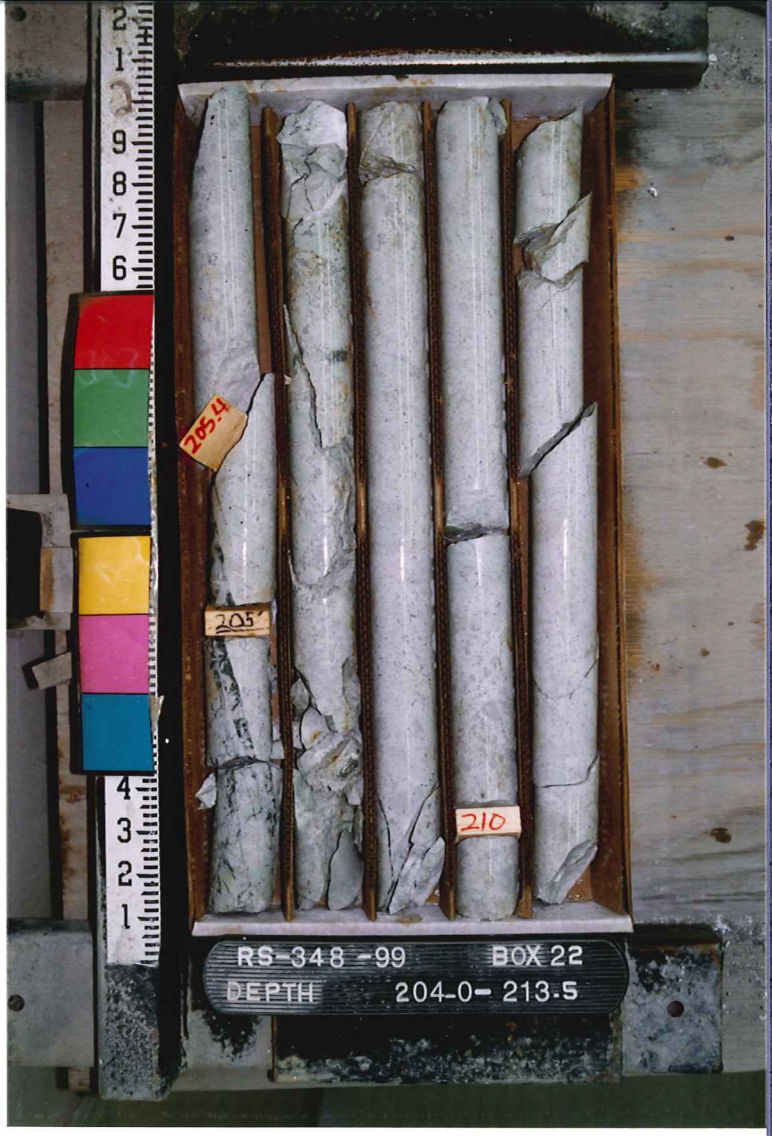
165
170
173.5
RS-348 -99 BOX 18
DEPTH 164-0- 174-0


190
185
182.5
RS-348-99 BOX 20
DEPTH 184-0- 194-0

180
175
176.5
RS-348-99 BOX 19
DEPTH 174-0- 184-0

195
198
202.5
RS-348-99 BOX 21
DEPTH 194-0- 204-0

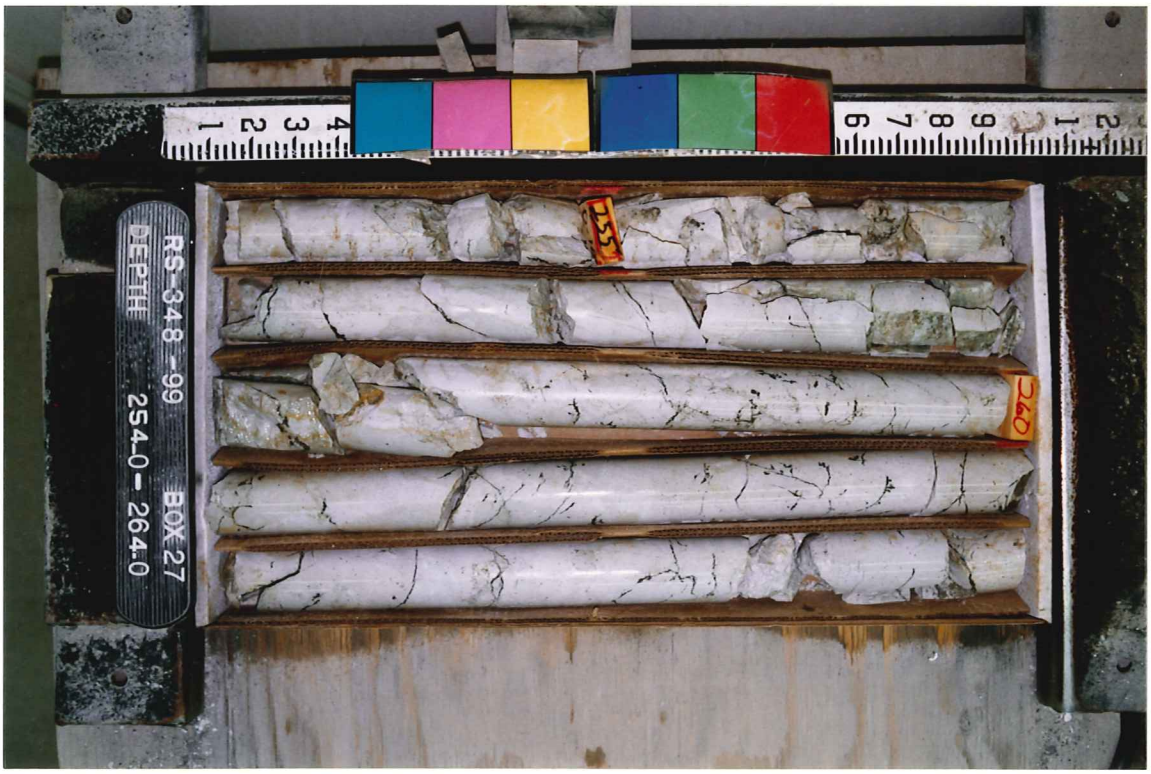
221.1
219
215.1
RS-348 -99 BOX 23
DEPTH 213-5- 223-5


205.4
205
210
RS-348 -99 BOX 22
DEPTH 204-0- 213-5

223.8
225
228.4
230.7
233.8
RS-348 -99 BOX 24
DEPTH 223-5- 233-5

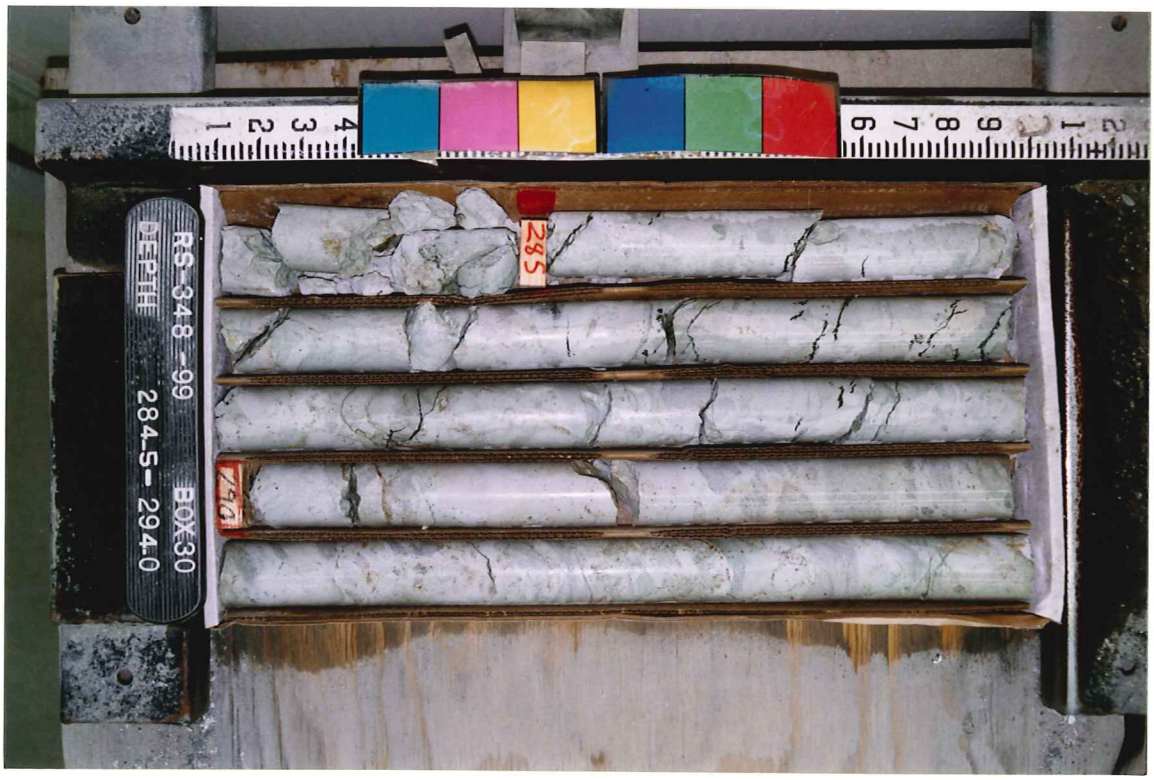
245
250
RS-348-99 BOX 26
DEPTH 243.5- 254.0

237.5
241.5
235
243
RS-348-99 BOX 25
DEPTH 233.5- 243.5


255
260
RS-348-99 BOX 27
DEPTH 254.0- 264.0

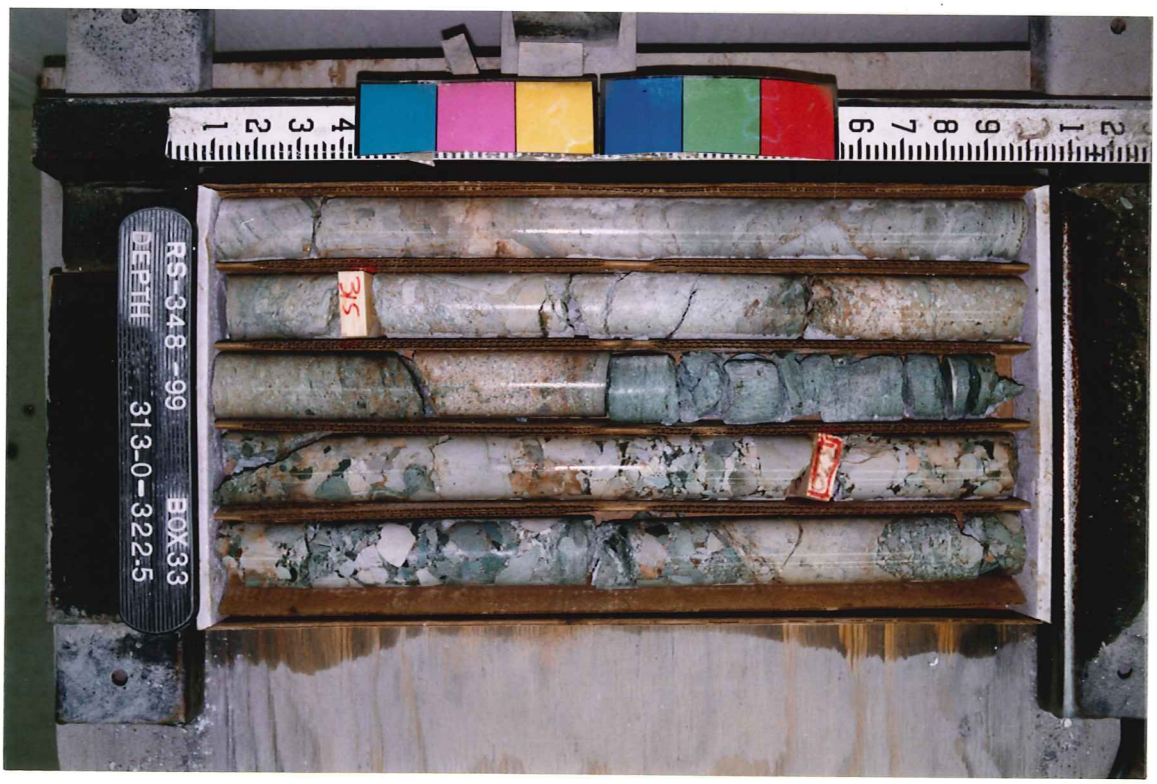
280
275
RS-348-99 BOX 29
DEPTH 274.0-284.5

270
267
265
RS-348-99 BOX 28
DEPTH 264.0-274.0


285
RS-348-99 BOX 30
DEPTH 284.5-294.0

RS-348 -99 BOX32
DEPTH 303-0-313-0

RS-348 -99 BOX31
DEPTH 294-0-303-0


RS-348 -99 BOX33
DEPTH 313-0-322-5

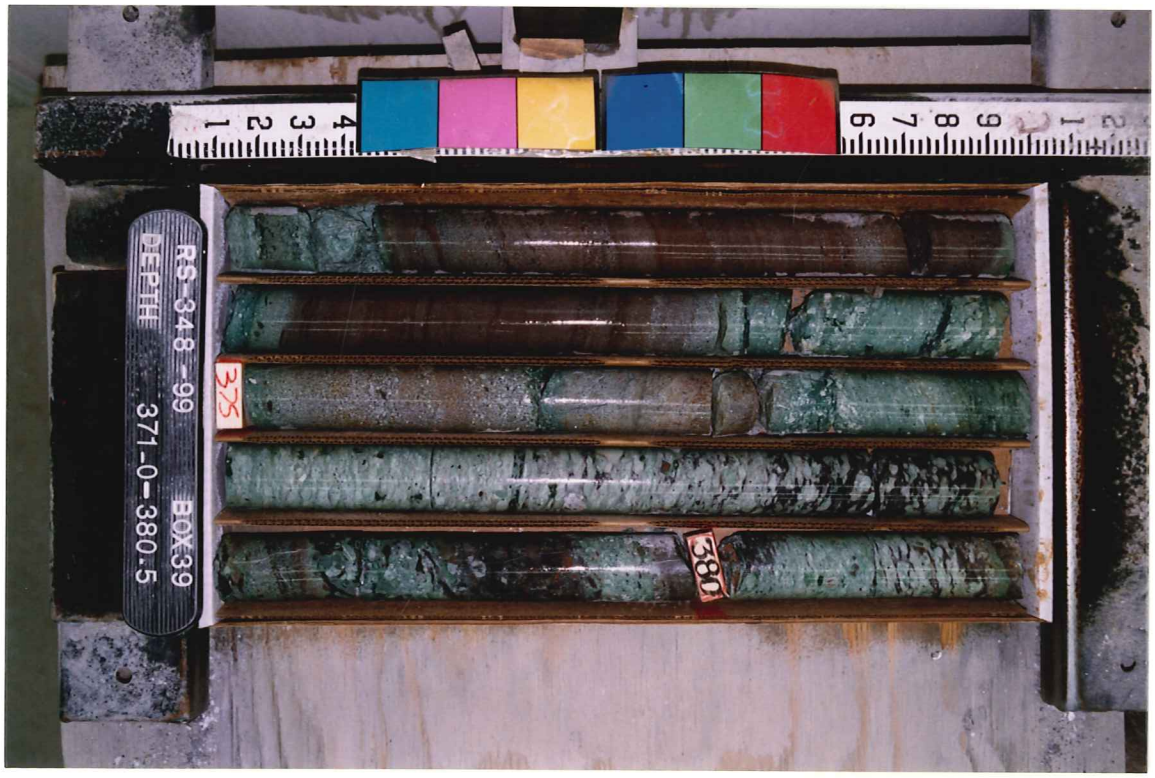
335
RS-348 -99 BOX35
DEPTH 332-0-341.5

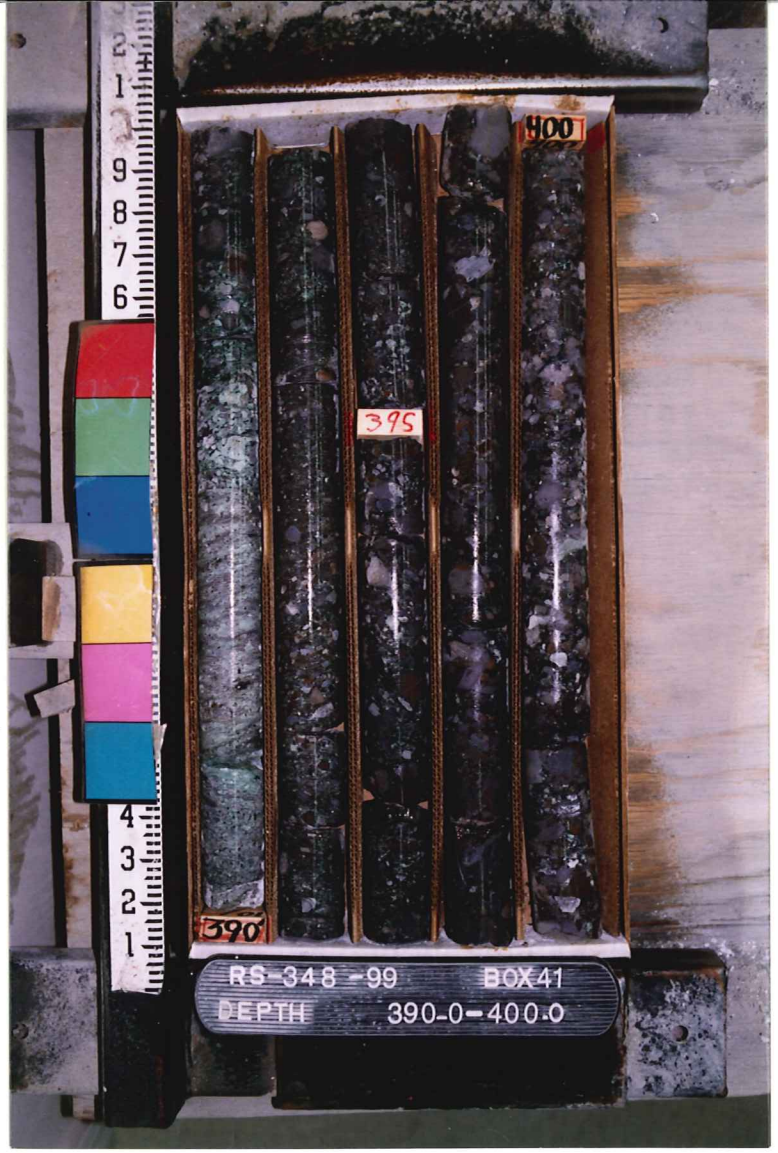
330
325
RS-348 -99 BOX34
DEPTH 322-5-332.0

RS-348 -99 BOX36
DEPTH 341-5-351.0
345
350

365
370
RS-348-99 BOX38
DEPTH 361-0-371.0

355
360
RS-348-99 BOX37
DEPTH 351-0-361.0


375
380
RS-348-99 BOX39
DEPTH 371-0-380.5


400
395
390
RS-348 -99 BOX41
DEPTH 390-0-400.0

385
RS-348 -99 BOX40
DEPTH 380-5-390.0

WELL RS-D348-99

DEPTH 50'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

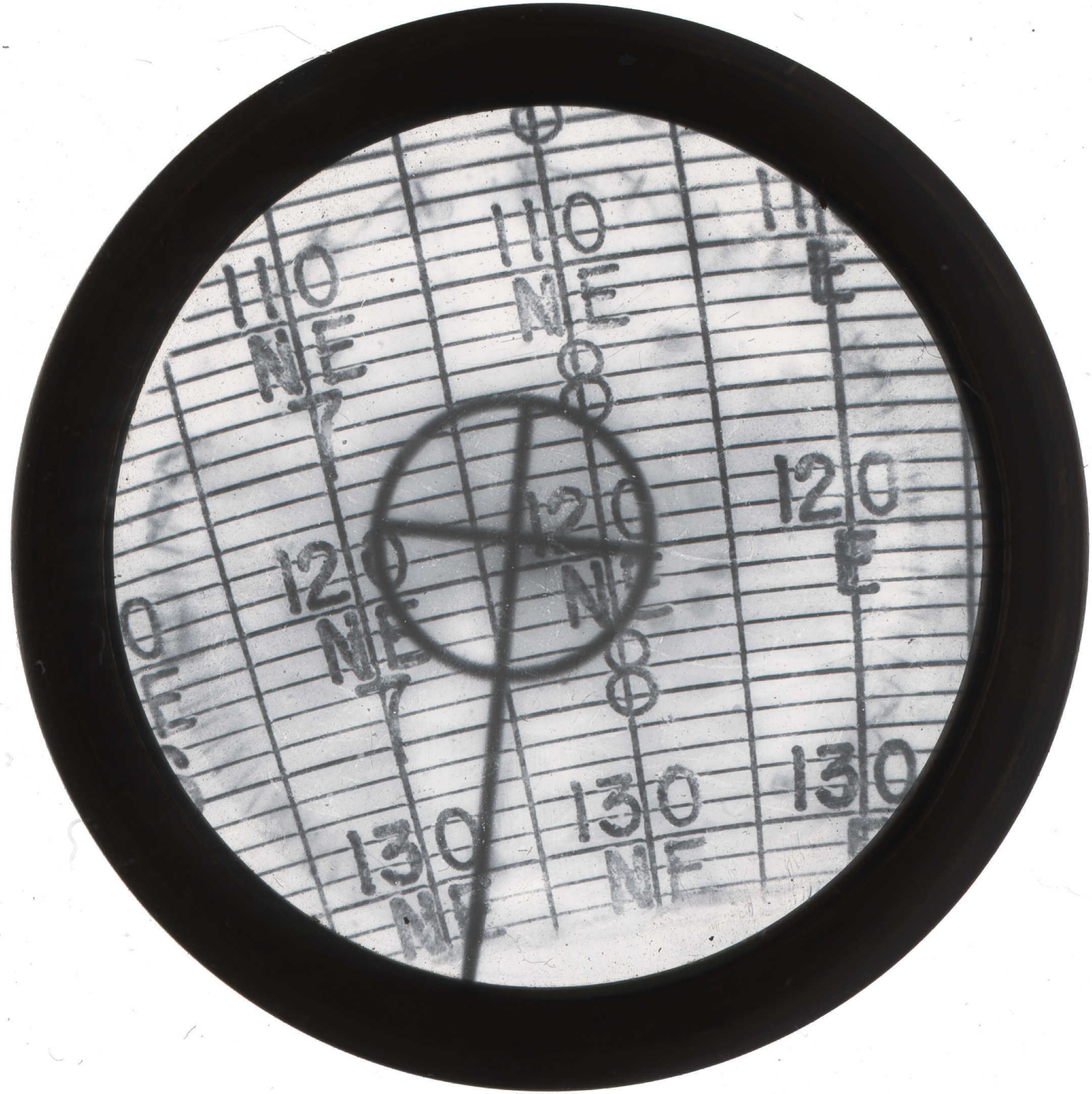
RUN BY Darryl

DATE 4-25-99

CHECKED BY

sperry-sun

DRILLING SERVICES


110
NE
120
NE
130
NE
110
NE
120
NE
130
NE
110
E
120
E
130

WELL RS-D348-99

DEPTH 400'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

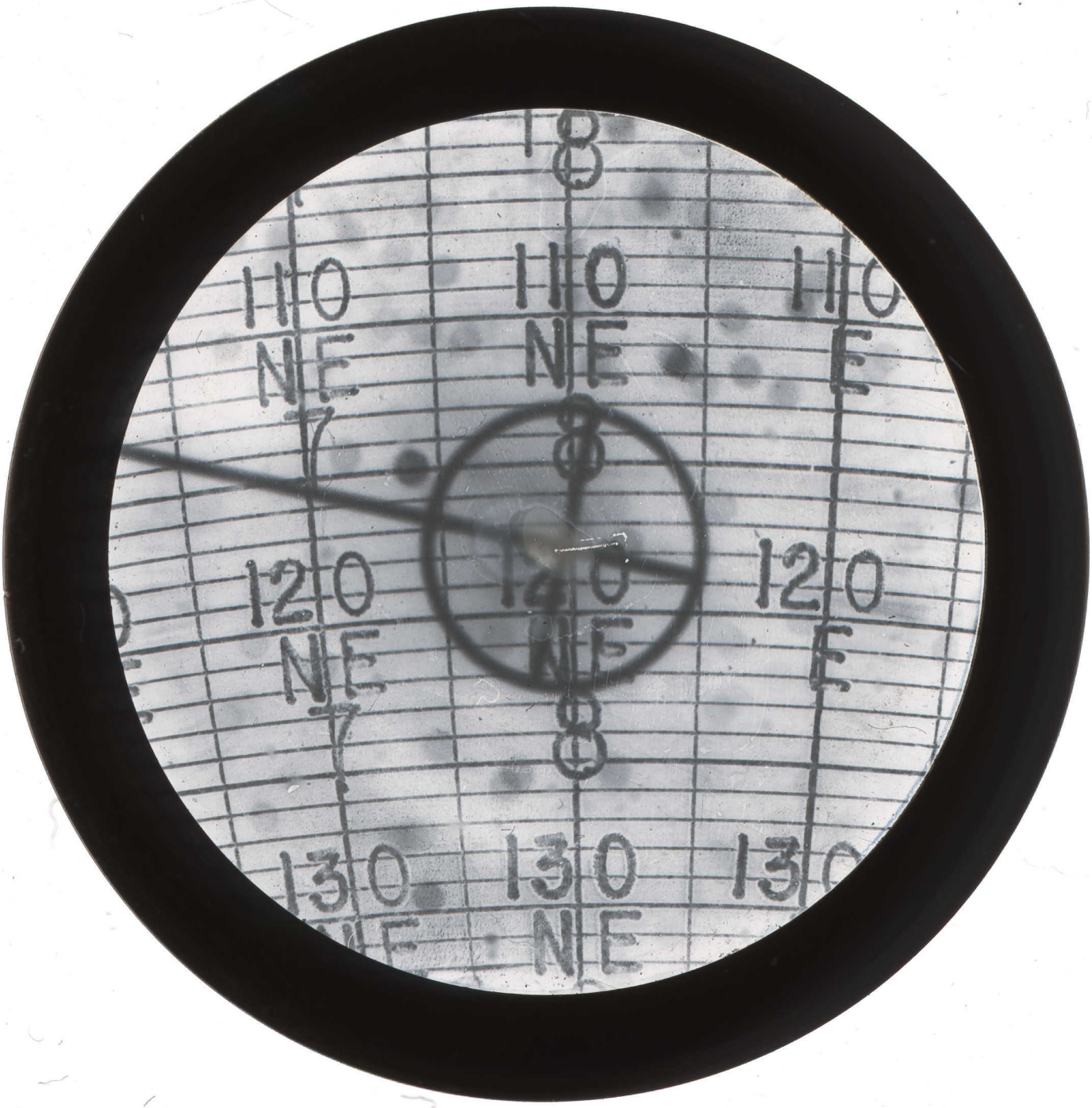
RUN BY Darryl

DATE 4-25-99

CHECKED BY

sperry-sun

DRILLING SERVICES


110
NE
110
NE
110
E
120
NE
120
NE
120
E
130
NE
130
NE

WELL RS-D348-99

DEPTH 200'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

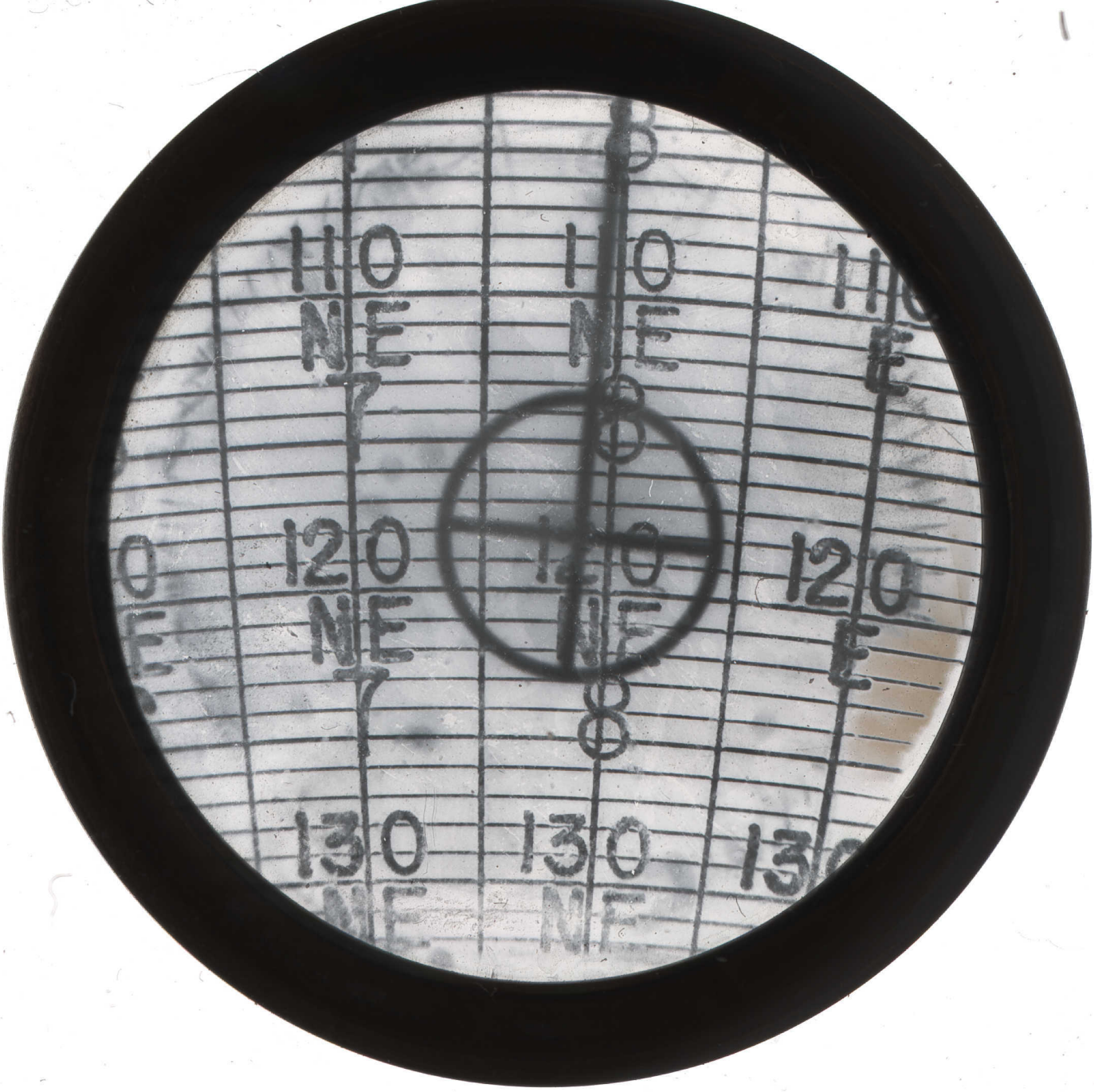
RUN BY Darryl

DATE 4-25-99

CHECKED BY

sperry-sun

DRILLING SERVICES


110
NE
7
8
120
NE
7
8
130
NE
110
NE
8
120
NE
8
130
NE
110
E
120
E
130