60001153

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-D356-99
AUTHOR	D. Mackerrow; 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. North Zone; Newmont Gold Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 600' receipt; handwritten notes; downhole camera images geochemistry; down hole survey 96p. 4 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: mah
Initials Date
SCANNED: NB
Initials Date

Revised: 1/22/08

RS-D356-99

356

6000 1153 4010

Hecla MINING COMPANY

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

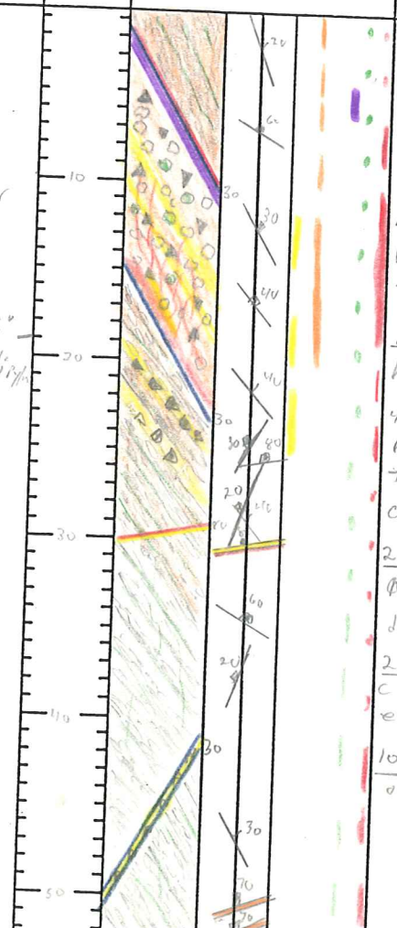
Barite INTENSITY: ~~~

6000 1153

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	RS-D356	LOCATION	North Zone X cut 1200 sec
PAGE 1 OF 9		NORTHING	
DATE	5-26-99	EASTING	
LOGGED BY	D.G. Mucherron	ELEVATION	
SCALE	1" = 10'	AZIMUTH	S62°E
TOTAL DEPTH	600	INCLINATION	+10

REMARKS: OFF SET RS-D356-99

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
LBT SPLAT	R	0-80 LBT. SPLAT. Vesicular ash tuff. Greenish brown in color. Vesicles up to 1/8" in diameter. Foliation is stained by chlorite. Large barite vein (4") and white clay is present. 16.2-80 core is greenish gray from chloritic alteration. Foliation is steepening approaching the S.R.F.	10 20 30 40 50		6-19 Fault zone with milled breccia. Breccia is tan in color. The fault plane at 6' has a 4" Barite vein. Much of the qtz has been decomposed to clay in fault. 19-80 Fracturing has 4 main orientation. 40° TCA parallel to foliation 30° TCA, 80° TCA and 20° TCA X-cutting foliation. 21-22 Silicified MUSAZ Bxa no distinct fault plane. 22.5-23.5 Silicified crackle Bxa minimal exposure. 10-80 Fracture frequency of 8-10	0-25 white clay of kaolinite/Dickite on fractures. 10-22 Bladded Marcasite on open vugs and highly fractured SPLAT. Silicification in fault begins at 11 FT. Marcasite is the dull olive colored blades. Some pyrite has begun to coat the crystals. 25-80 chlorite is present on fracture and foliation planes. 29.5 - qtz vein with micro bxa and bladed marc and pyrite. 50.3-53 white clay smear 70° TCA. 35-80 Pyrite increase relatively to marcasite

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
0	4	No	Sample			
4	5					
5	10					
10	12.6					
12.6	14.3					
14.3	16.2					
16.2	19					
19	21					
21	25					
25	29					
29	32					
32	37					
37	42					
42	45.3					
45.3	46.5					
46.5	50.3					

6090 1153

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

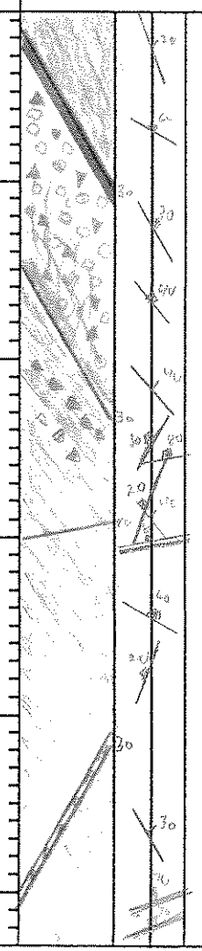
Barite INTENSITY: ooo — — —

Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

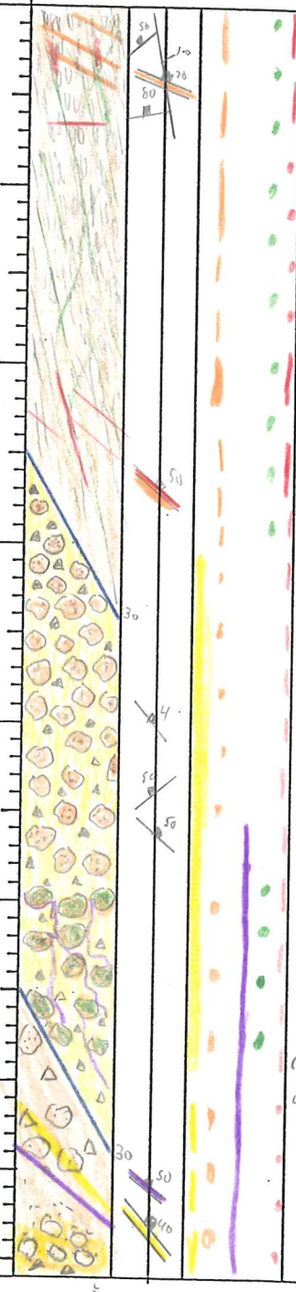
HOLE NUMBER	RS-D356	LOCATION	North Zone Kent 1700 sol
PAGE 1 OF 9		NORTHING	
DATE	5-26-99	EASTING	
LOGGED BY	D.G. Macharrow	ELEVATION	
SCALE	1" = 10'	AZIMUTH	S62°E
TOTAL DEPTH	600	INCLINATION	+10

REMARKS: OFF SET RS-D356-99

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
LBT SPLAT	R	0-80 LBT. SPLAT. Vesicular ash tuff. Greenish brown in color. Vesicles up to 1/8" in diameter. Foliation is stained by chlorite. Large barite vein (49) and white clay is present. 16.2-80 core is greenish gray from chloritic alteration. Foliation is steepening approaching the SRF.	10 20 30 40 50		6-19 Fault zone with mill & breccia. Breccia is tan in color. The fault plane at 6' has a 1/4" Barite vein. Much of the qtz has been decomposed to clay in fault. 19-80 Fracturing has 4 main orientations. 40° TCA parallel to foliation, 30° TCA, 60° TCA and 20° TCA X-cutting foliation. 21-22 Silicified Musc bxx no distinct fault plane. 22.5-23.5 Silicified crackle bxx minimal expansion. 10-80 Fracture frequency of 5-10	0-26 white clay of kaolinite/dickite on fractures. 10-22 Bladded marcasite in open vugs and highly fractured SPLAT. Silicification in fault begins at 11 FT. Marcasite is the dull olive colored blades. Some pyrite has begun to coat the crystals. 25-80 chlorite is present on fracture and foliation planes. 29.5 - qtz veins with micro bxx and bladed marc and pyrite. 50.3-53 white clay smear 70° TCA. 35-80 Pyrite increase relatively to marcasite. Marcasite is less bladed and from earlier solution

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
0	4	No	Sample		
4	5				
5	10				
10	12.6				
12.6	14.3				
14.3	16.2				
16.2	19				
19	21				
21	25				
25	29				
29	32				
32	37				
37	42				
42	45.3				
45.3	46.5				
46.5	50.3				
50.3	53				

HOLE NUMBER RS-D-356-99 PAGE 2 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
LBT SPLAT	R	0-50 L.B.T. SPLAT Vesicular ash tuff. continuous 58-63 Ground to rubble by drill 68-71.9 core began to swell when washed.	50 60 70		68-80 SHEAR from S.R.F. begins core is still hole to 71.9 71.9-80 core is rubble with high % clay surface coating 80-109.5 South Ridge Fault SILICA HEALED MILLED Breccia High expansion and rotation	50.3-76 disseminated Pyrite crystal present in small aggregations 80-81.8 Dark sulfide in silica with chloritic clast 81.8-99.1 white silica Druzy qtz in vug Bladed marcasite with Pyrite coating and dull olive colored mica 97.5 Barite in vug From 99.1 Barite veins and matrix in fault breccia 109.5-134.7 very heavy Barite mineralization. Silica and Barite heal Bxa. Bladed marcasite in the Barite and silica white clay also in numerous fracture
S.R.F.		80-109.5 S.R.F. First 1.8 feet of fault Heavy disseminate dark sulfide in silica, core is the white with qtz and fragments of L.B.T. Bladed marcasite in the qtz matrix. Clast not as silicious as matrix 106.5 First T.C.S. Breccia clast in Fault Breccia 99.1-106.5 clast are chloritic and have similar appearance to rock seen in 24 foot in D344	80 90 100			
T.C.S. S.S.		109.5-137.3 T.C.S. SANDSTONE SILTSTONE AND MUDSTONE Medium gray fine grained Sandstone Totally shattered	110 120		109.5-134.7 Various Crackle and mosaic breccia in footwall of fault, Silica and Barite form most of matrix	

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
50.3	53				
53	58				
58	63				
63	68				
68	71.9				
71.9	76				
76	80				
80	81.8				
81.8	86				
86	90				
90	93				
93	97				
97	99.1				
99.1	103				
103	106.5				
106.5	109.5				
109.5	113				
113	118				
118	123				

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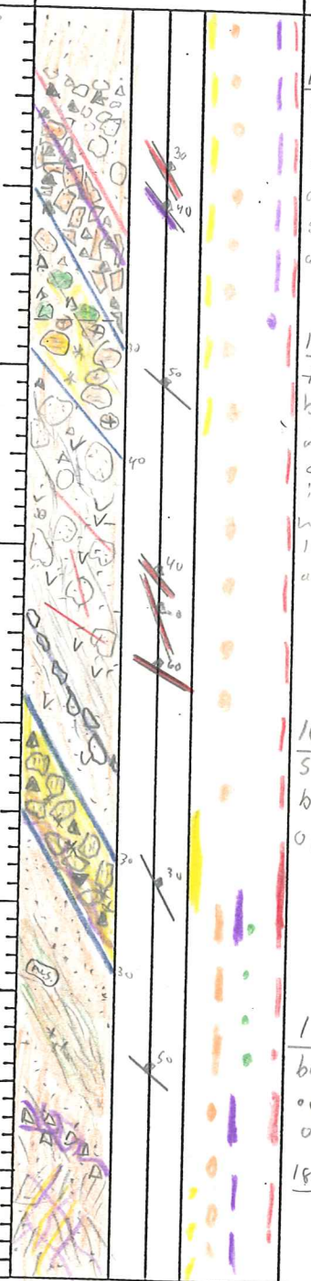
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
TCS S.S.	R	109.5-137.3 T.C.S. SANDSTONE, SILTSTONE MUDSTONES Highly Fractured and brecciated Sandstone. Breccia continue into A.L.S. shale	120 130		129 -134.7 Crackle breccia with barrite and silica matrix at 134.7 30° tca shear with chloritic alteration Fault	134.7-137.3 chloritic stained sandstone 137-142 Stibnite (*) Crystals in vugs in shale. Large white qtz masses up to 4" long
ALS SHALE		137.3-143.7 A.L.S. SHALE, MUDSTONE & INTRUSIVE Black shale and light Tan Intrusive Fragments	140		137.3-143.7 Low topo high of ALS but surrounded by breccia and breccia of ALS. could be not large boulder in TCS. Upper contact was lost at 137.3 but 143.7 is minor shearing almost depositional	137.3-142 Intrusive is weakly argillize in some clast and silicied in others 148-178 Marcasite rich veins fracture freq. H
T.C.S. S.S.		143.7-502.0 T.C.S. SANDSTONE, SILTSTONE AND MUDSTONE Highly disrupted sediment still feeling the South Ridge Fault. Disruption continues to 177' Core is sandstone clast with rock or mudstone sheared between them. 163.2-169.6 SILICA FLOODED Fault with ALS. Clast in breccia Matrix From 143.7 to 178 Tuffaceous Material poured into area This was then highly deformed	150 160 170 180 190		163.2-169.6 SILICIFIED milled breccia with clast of A.L.S. 183-200 NO bedding orientation over 6" before off set on fracture 182.5 Barite matrix crackle Bx.	163.2-169.6 SILICIFIED Breccia 163.2-169.6 * STIBNITE In A.L.S. Breccia 169 Decomposing qtz in fault 171 Trace of chloritic alteration in finer fractions of the core 178.5 Fine stibnite on fx 182-193 weak qtz and barite vein swarm

Thin section 171.5 Tuffaceous S.S.

ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
118	123				
123	126				
126	129				
129	133				
133	134.7				
134.7	137.3				
137.3	142				
142	143.7				
143.7	148				
148	152				
152	155.5				
155.5	160				
160	163.2				
163.2	166				
166	169.6				
169.6	173				
173	178				
178	183				
183	188				

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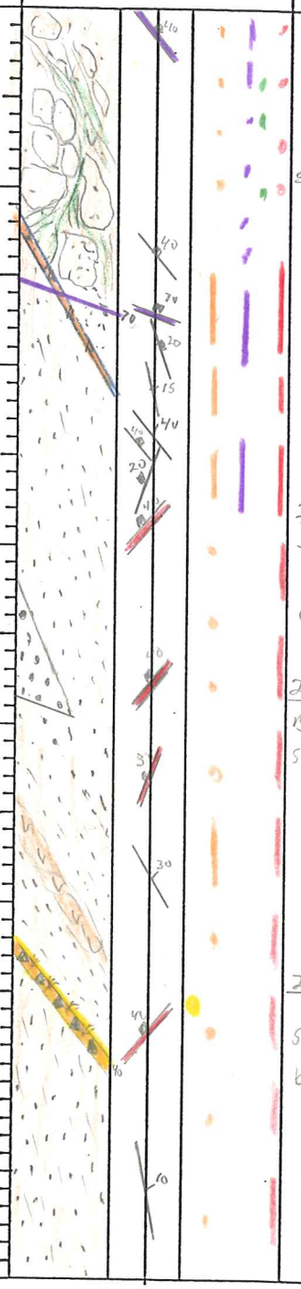
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
TCS S.S.	R	143.7-502.8 T.C.S. SANDSTONE, SILT STONES Sandstone continues with decrease in possible Tuffaceous content. What fines remain are weakly chloritized Pine 210 white clay 228.7-229.4 Small channel fill of granule size fragments rounded clast of A.L.S. and other rock. Upper contact is 20° tca and lower contact is 70° tca 235-242 MIXED ZONE OF Tuff/Tuffaceous Sediment; Possible A.L.S. fragment at 241. (Darkshale)	190 200 210 220 230 240 250 260		206.3-207 Rubble zone with sulfide and barite crystals 235-242 Fine tuff or mudstone shows a disrupted foliation. 245-246.2 MOSAIC Breccia with clast supported by matrix 250 Bedding steepens to 10° tca below 250	193 Barite with stibnite 206.3-207 Crushed zone with Barite masses 210 Heavy white clay with bladed marc. 208-212 white clays (H/D) with bladed marcasite in clays 215.5-219.8 Broken white clay fracture zone with Barite 242.5 stibnite in open 30° tca fracture 245-246.7 White qtz supporting breccia clast, stibnite crystals

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
188	193				
193	198				
198	203				
203	206.3				
206.3	208				
208	212				
212	215.5				
215.5	219.8				
219.8	223				
223	228				
228	233				
233	238				
238	242				
242	245				
245	246.7				
246.7	248.4				
248	252.9				
252.9	258				

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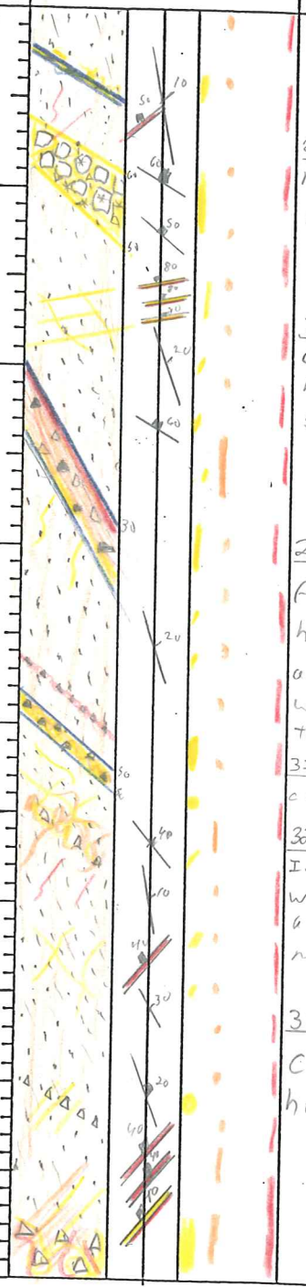
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
TCS	R	143.7–502.8 T.C.S. SANDSTONE, SILTSTONE AND MUDSTONES Fine T.C.S. Sediments continue. Bedding is steep at 10–20° tca. Light gray in color with fine black clay partings. Sediment is lightly argillized. Pinq 285 white clay	260 270 280 290 300 310 320 330		263.1–264.3 Crackle/ mosaic breccia of silica healed clast 268.6–271 Crackle Breccia healed by silica 284.5–288 – 30° tca fracture with heavy white clay and bladed marcasite weak crackle Breccia to to 288 320.6–321.5 restricted crackle BXG 326.5–328.5 Increasing fractures with white clay and bladed marcasite. 328.5–331.1 Crackle Breccia healed by silica	268.6–271 Crackle Breccia with stibnite blades in open vugs 276–278 Low angle qtz and marcasite veins 284.5–288 white clay and marcasite 298–298.5 Very heavy marcasite in silica cementing narrow breccia 300.5–301.5 SILICA healed crackle bxg 301.5–303.7 Crackle Breccia minimal expansion 328.5–331.1 Marcasite and silica

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
258	263.1				
263.1	264.3				
264.3	268.6				
268.6	271				
271	275.2				
275.2	278				
278	281				
281	284.2				
284.2	288				
288	291.5				
291.5	294.5				
294.5	298				
298	301.5				
301.5	303.7				
303.7	308.1				
308.1	313				
313	318				
318	320.6				
320.6	323				
323	326.5				
326.5	328.5				
328.5	331.1				

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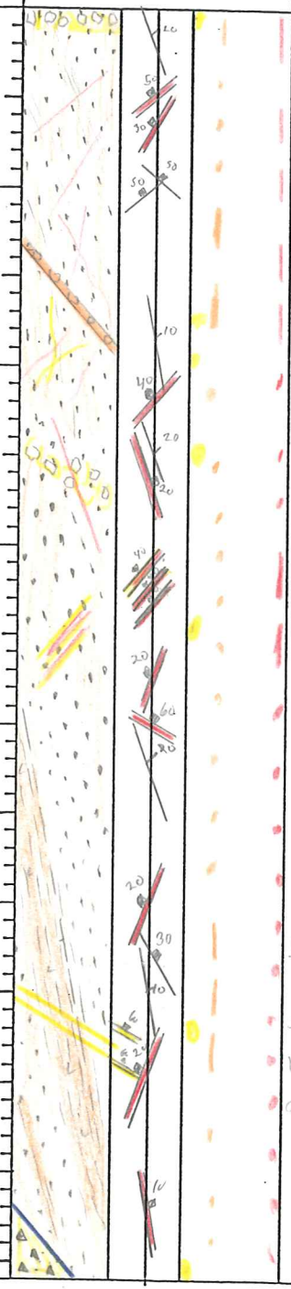
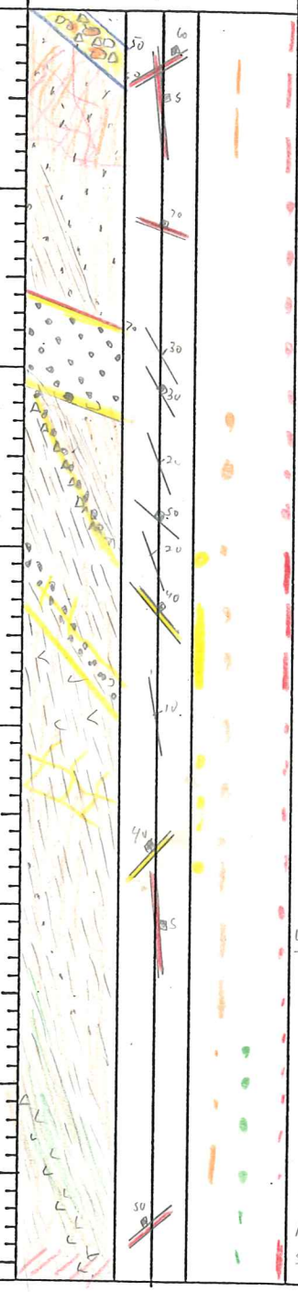
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
T.C.S	R	343.7-502.8 T.C.S SANDSTONE, SILTSTONE AND MUDSTONES Fine grained sediments continue. Fine sandstones have 2-5% interbedded clays. 361-365 medium grained sandstone with trace of volcanic material 382-390.8 Black mudstone beds with tuffaceous component. Beds are 10" tcu	330 340 350 360 370 380 390 400		333-347 INCREASED fracturing 364.4-365.6 Fracture swarm healed by qtz 386-387.4 Two 1" qtz veins with micro bxa clasts 400-402 milled breccia healed by silica the hanging wall is fractured and veined from 402 to	333-347 Pyrite after after marcasite in veinlets up to 1/8" thick 343-347.4 white clay fractures within 4" clay zone with bladded marcasite 354-355 weak stockwork of white qtz forming crackle bx. 356 - Bladded marcasite in open fractures 393-394.3 very weak white clay swarm dipping south x cutting bedding	331.1 335 339 343 347.4 353 357.1 361 364.4 365.6 369 373 378.1 382 386 387.4 390.8 393 394.4	335 339 343 347.4 353 357.1 361 364.4 365.6 369 373 378.1 382 386 387.4 390.8 393 394.4 400				

HOLE NUMBER RS-D356-99 PAGE 7 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
TCS.	R	143.7-502.8 T.C.S. SANDSTONES, MUDSTONES AND TUFF Pimo 402 white clay Fine grained sediments continue, small beds of granule size sandstones up to 6' thick. 415.9 - 422 Granule sandstone with clast up to ¼" 402 - 413 Epiclastic sediment(?) derived from tuffaceous material with a high % of plagioclase phenos 423.7 - 433 Dark gray to black mudstone. 438-458 Dark gray volcanic derived mudstone with laminii of tuffaceous beds Pimo 443.2 Tuffaceous clay 458-465 Light green gray tuffaceous mudstone 465-469 Light gray tuffaceous mudstone 469-502.8 Medium gray mudstone	400 410 420 430 440 450 460 470		402-409 Stockwork of sulfide veins and clay. Veins continue to fill but have decreased. 415.8 - Dark pyrite vein with silica. Pyrite has slicks 90° to dip axis 442.3 - 449 Fracture zone cutting high angle bedding at 40° to 452.7 5° to sulfide vein up to ⅛" thick 469-471 Fracture swarm 60° to spaced ½" apart	402-409 white clay and sulfide veins 430 - Pyrite bleeding into sediment from vein 433-434.6 Quartz veining increases 434.6-436.5 Heavy quartz veins up to 4" thick 442.3-449 moderate white clay on fractures. Pyrite often marcasite 469-471 Pyrite bleed from fractures in swarm

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
400	403				
403	408				
408	413				
413	415.9				
415.9	421				
421	423.7				
423.7	428				
428	433				
433	434.6				
434.6	436.5				
436.5	438				
438	442.3				
442.3	446				
446	449				
449	452.7				
452.7	458				
458	463				
463	468				
468	471				

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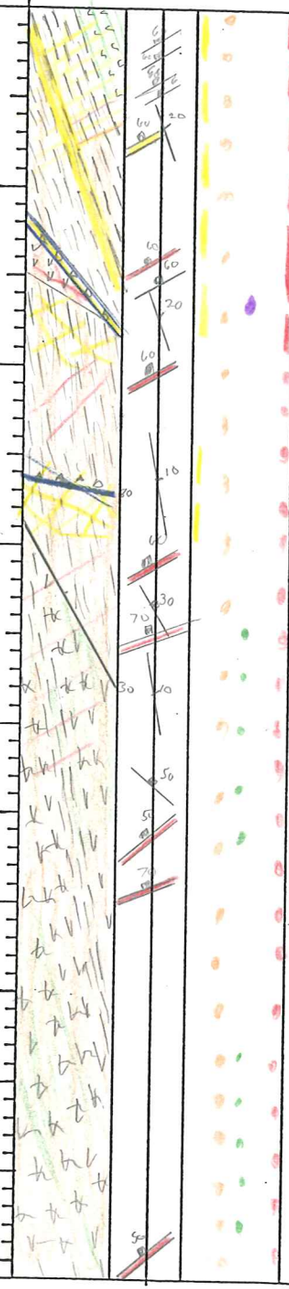
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
T.C.S.	R	143.7-502.8 T.C.S. SANDSTONES, MUDSTONES AND TUFF. Mudstone continues from 469 Traces of tuffaceous material form faint bedding. mudstone is medium to dark gray From 469 – 488 a moderate qtz vein stockwork on a 60° tca fracture pattern has form partially silicifing some of the mudstone	470 480 490 500		471-478 qtz vein x-cut bedding at 60° tca 475-475.6 vuggy qtz vein with 60° tca dip 484-486 QTZ STOCKWORK with pyrite after marcasite blads 489.5- 490 QTZ VEIN up to 1" thick 495.8- 499.6 QTZ Stockwork with crackle Breccia and 3" milled Bxx 513.5 50° tca fracture with 70° to dip of fracture slick	471-478 Pyrite present with some of the quartz veins. Dissolution cavities have "shiny" pyrite cubes and pyrite after marcasite 480 Pyrite after bladed marc. 478 – 480.5 Partial Silicification of the mudstone 485 - Pyrargyrite on FX in Crackle Bxx 485.7 Rose barite in Vugs with possible dolomite crystals 489.5-490 QTZ healed Crackle Bxx with Pyrite after marcasite in open vug 502.8-513 Sulfide vein swarm with a vein every 1-2" veins Dip 50-70° 525-543 pyrite vein up to 1/4" thick but spaced 1' apart
TCS ANDESITE		502.8-55.15 T.C.S. Andesite Flow?/TUFF minor mudstone interbeds Andesite is argillized Traces of Chloritic alteration present From 505 to 516. Core has small white feldspar phenocryst so that is why it may be andesite flow 525-538 mint green volcanic * This flow was seen in RS D357-99 and finally identified. In D357 it contain altered mica	510 520 530 540			

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
471	475				
475	478				
478	480.5				
480.5	484				
484	486.0				
486	490.8				
490.8	495.8				
495.8	499.6				
499.6	502.8				
502.8	505.6				
505.6	508				
508	513				
513	518				
518	523				
523	528				
528	533				
533	538				
538	543				

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LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
ANDESITE	R	502.8-551 T.C.S. ANDESITE ? / TUFF AND MUD STONES T.C.S. Fine tuff continues 551-552 Epiclastic Sediment. Volcanically derive sediment begins fragment consist of surrounding tuff with ≤1% ALS. shale, All Rocks are now Pale green in color to 589.4 555-558.2 Fragment volcanic returns. 562 568 Fragment volcanic sediment continues 568-577 Epiclastic course SS. to conglomerate derived from surroundin volcanics and clast of ALS	540 550 560 570 580 590 600	50 30 50 40 60 20 30 10 20 60 40	543-546.8 QTZ STOCKWORK with veins up to 1" thick. Open vugs have druzy qtz 548-552 Fracture zone with parting along steep bedding with yellow xcutting fractures. Question: was the "24" fault the stockwork seen 543-546.8 that interval looks better than the Dozer/TCS. contact 589.5 contact with Dozer is sharp There is a .1' silica sulfide vein which could be the "24" fault. .8' of of core before vein is a medium epiclastic sandstone. with a .5' clay stone before that 597.5 40° to CA Fx with 40°. to dip axis slicks	551-559 Calcite and weakly calcareous Volcanics begin 561-579 weakly calcareous with calcite veinlets 543-546.8 white pyrite Bladed Marc qtz vein heavy 560-579 sulfide decrease to <.5% Sediments are not promising looking 546.8 very "white" Pyrite seen in stock work will expect silver kick 589.4-589.5 silica with bladed marcasite in vugs no distinctive shear
Td		589.5-600 DOZER Fine grain light greyish white Rhyolite Disseminated Bladed Marcasite present at 1-2%. White clay on fractures Pine 592.5 white clay				

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
538	543				
543	546.8				
546.8	550				
550	554				
554	558				
558	563				
563	568				
568	572.9				
572.9	578				
578	583				
583	588				
588	589				
589	589.5				
589.5	592				
592	595.2				
595.2	598				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-0356-99 DATE: 5-26-99 LOGGED BY: D.G. McKerrow PAGE 1 OF 7

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	0	20	0										
5	10	74	102	44										
10	15	68	102	52										
15	21	24	100	0										
21	25	80	115	30										
25	32	71	94	13										
32	37	36	86	0										
37	47	55	94	10										
47	53	61	97	0										
53	58	100	100	0										
58	63	0	76	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 5-26-99 LOGGED BY: D.G. MacKerrow PAGE 2 OF 7

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)
63	68	72	90	0										
68	76	50	93	0										
76	80	0	100	0										
80	83	90	103	20										
83	93	100	96	67										
93	97	100	115	40										
97	103	100	100	35										
103	107.5	44	100	18										
107.5	113	100	109	36										
113	123	99	97	41										
123	133	99	100	50										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 5-27-99 LOGGED BY: D.G. Muckerrow PAGE 3 OF 7

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)
133	142	100	100	80										
142	152	98	99	74										
152	158	100	98	73										
158	168	98	101	80										
168	178	100	102	60										
178	188	100	102	76										
188	198	100	100	88										
198	208	85	102	57										
208	218	79	96	35										
218	228	100	101	81										
228	238	100	95	71										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 6-1-99 LOGGED BY: D.G. MacKenzie PAGE 4 OF 7

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)
238	248	95	100	70										
248	258	100	102	78										
258	268	98	100	75										
268	278	68	100	42	Box Dropped									
278	288	87	99	68										
288	297	91	98	73	Box Dropped									
297	303	88	97	73										
303	313	90	97	56										
313	323	97	98	61										
323	333	91	100	50										
333	343	91	100	28										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 6-1-99 LOGGED BY: D.G. Macherrow PAGE 5 OF 7

DRILL RUN		SOLD CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
343	353	100	98	38										
353	363	100	100	51										
363	373	95	100	43										
373	383	100	100	27										
383	393	90	100	52										
393	403	94	100	40										
403	413	93	98	35										
413	421	78	96	40										
421	428	96	100	53										
428	438	82	100	32										
438	448	80	100	50										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 6-2-99 LOGGED BY: D.G. MacKerrow PAGE 6 OF 7

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
448	458	97	100	8										
458	468	90	100	50										
468	478	85	100	68										
478	488	92	100	35										
488	498	98	99	13										
498	508	95	97	50										
508	518	100	100	77										
518	528	100	95	74										
528	538	100	102	25										
538	548	95	102	61										
548	558	88	101	33										

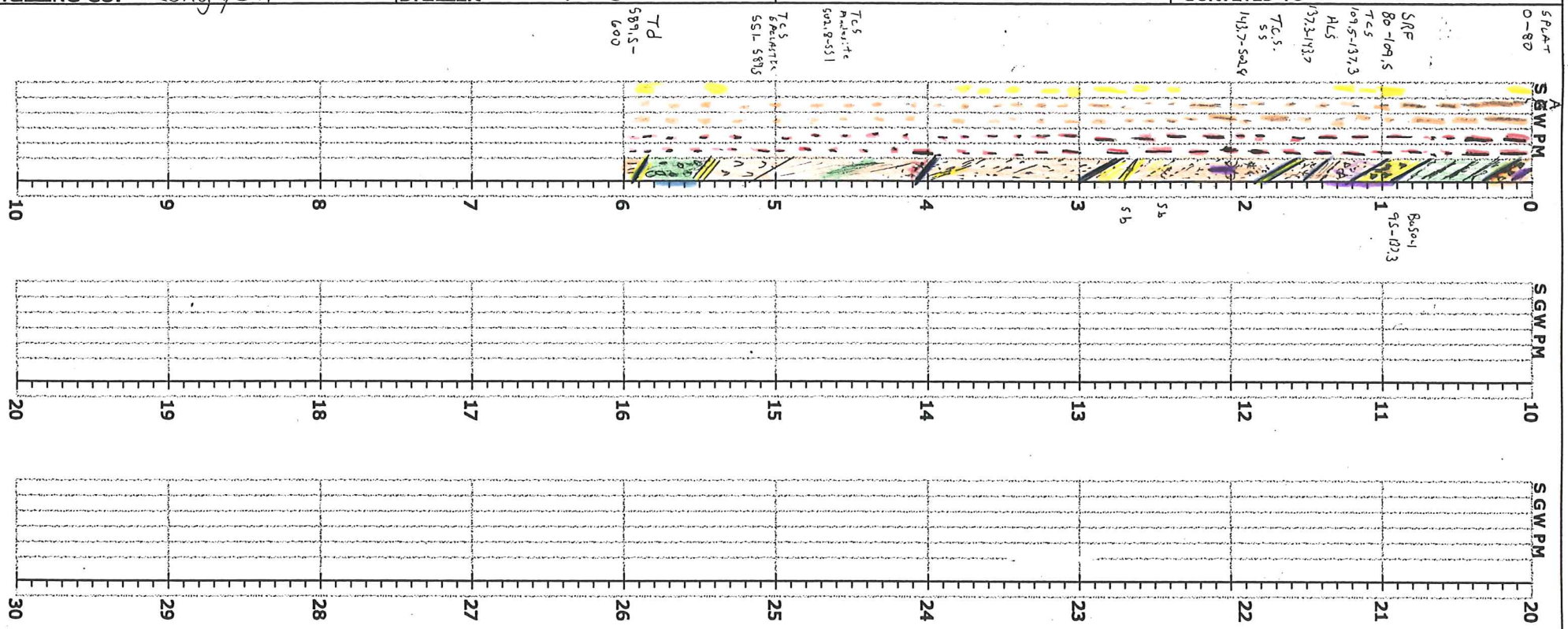
HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D356-99 DATE: 6-2-99 LOGGED BY: DG. Muckerrow PAGE 7 OF 7

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
558	568	88	100	41										
568	578	100	100	60										
578	588	73	100	82										
588	598	100	100	70										

ROSEBUD MINING COMPANY, LLC.

START HOLE: 5/17/99	FINISH HOLE: 5/22/99	HOLE #: RS-D356-99	
COLLAR COORDINATES	HOLE TYPE: Core	LOGGED BY: D.G. Mocharrow	
NORTH	BEARING: S 62°E	ANGLE: +10	T.D: 598
EAST			
ELEV			
DRILLING CO.: Longyear	DRILLER: Bonford	PAGE 1 OF 1	SURVEYED TO: 598



ALTERATION INTENSITY

1 WEAK — 2 MODERATE — 3 STRONG

VERITHIN COLOR

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

GRAPHIC LOG

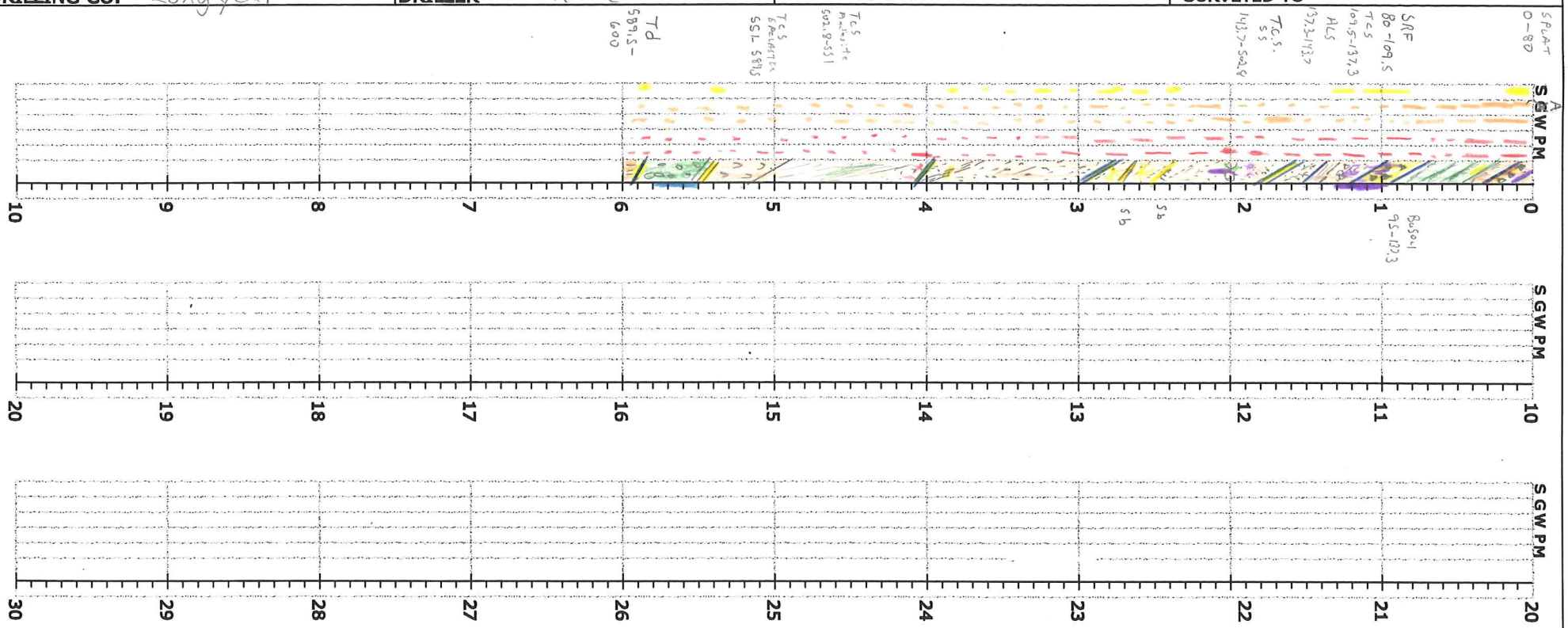
VERITHIN COLOR

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

Argillization
Silicification
Chloritization
Barite
Calcite, Carbonate
White clay
Marcasite
Pyrite

ROSEBUD MINING COMPANY, LLC.

START HOLE: 5/17/99	FINISH HOLE: 5/22/99	HOLE #: RS-D356-99	
COLLAR COORDINATES	HOLE TYPE: Core	LOGGED BY: D.G. Mocharrow	
NORTH	BEARING: S 62°E	ANGLE: +10	T.D: 598
EAST			
ELEV			
DRILLING CO.: Longyear	DRILLER: Bonford	PAGE 1 OF 1	SURVEYED TO: 598



ALTERATION INTENSITY

1 WEAK | 2 MODERATE | 3 STRONG

VERITHIN COLOR

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

GRAPHIC LOG

VERITHIN COLOR

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

Argillization
Silicification
Chloritization
Barite
Calcite, Carbonate
White clay
Marcasite
Pyrite

Newmont Gold Core Form

Hole# RS-D356-99
Logged by D.G. Mucherron
Date 5-26-99
Area North Zone X-cut sec 1700
Coords
Az/Incl S62°E / 10
Total Depth 60
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	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay	Mineralogy: Low Sol
			LBT	AT	Grn Gry									0-80 LBT SPLAT	0	1	0	0	0	1		0	0	0	1	1	0	1	0
																													3
																													0
																									3	3			
																										1			
																									1			3	
20																									2	2			
																									1	1			
																												1	
																				2									
40																													
																2													
																1													
																2												2	
																1												0	
																2													
60																													
																1									2				
																3												2	
																2				1									
																									1				
80														80-109.5 S.R.F.	3	1				0					3			1	
																									1			0	
																													1
100															2	1				1								1	
																													3
			TCS	S.S.	Brn Gr															0									
			TCS	S.S.	Brn Gy									109.5 - 137.3 T.C.S Sedements	1														
														Sandstone siltstone															
														mudstone															
120														Tuff?															
																										2			
																				1								0	1
																													0
140			ALS	Shale	Black									137.3 - 143.7 ALS.	2	0				0								1	
														Black SHALE BXA															
			TCS	SS.	Brn Gry									143.7 T.C.S	1	1													
														Same as above															
160																													
															3	0													
																												2	
															0	1				1								1	
																										1			2
180																				0									
																				1									
200																				0									

Newmont Gold Core Form

Hole# RS-D356-99 **Az/Incl** S62E / +10 **Page** 2 of 3

Logged by Q.G. MacKerron **Area** North Zone X cut Sec 1700 **Total Depth** 600

Date 6-2-99 **Coords** **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		Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay	Mineralogy: Bastite
			TCS	S.S.	Gray									T.C.S. Sediment	0	1	0	0	0	0		0	0	0	1	1	0	1	2
														206.3-207 Barite vein														2	3/1
220																									2	2/1		1	0
														235-242 Clay stout/ Tuffaceous material											1				
240														242-245 stibnite	1/0														
260														268.6-271 stibnite	1/0										2				
															2/1										1				
280															0														
														284.2-288 clay filled Fx zone with minor														3/1	
300															1/0										2/1	3/1			
															0													2/1	
320																									2	2			
															2/0										1	1			
340																										2/1			
360																										2/1			
380																2/1													
400																													

Newmont Gold Core Form

Hole# RS-D356-99
Logged by D.G. MacKerron
Date 6-4-99
Area North Zone X-cut
Coords
Az/Incl S 62E / +10
Total Depth 600
Contractor Longyear
Page 3 of 3

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: Bu SO4
400			Tcs	ss / Tuff	Lt Gn / Yel Gray									T.C.S. SANDSTONE, MUDSTONE TUFF	2 / 0	0 / 1	0	0	0	0	0	0	0	1 / 2	0	0	0 / 0	1
					Med Gray																			1				
				Coarse ss										415.8 - 422 course sandstone														
420				ss Mudstone																							1 / 0	
														423.7 - 458 mudstone													1 / 0	
															1										1		1	
440															0												0 / 1	
															1 / 0 / 0													
														458 - 465 TUFF														
460														466.5 - 469 TUFF						1							0	
																				0							1	
480															1	0 / 1												
														484.5 pyrargyrite										2 / 1	2 / 1			1 / 0
500														502.8 - 589.5 TUFF, Tuffaceous epiclastic sediments						1					0		0	
520																				0								
																				1								
540																				0								
														543 - 546.8 QTZ stock work "white pyrite". "24" Fault	2 / 0										2 / 0		1 / 0	
560																								0		1		
580																								1		0		
			Td	Rhy	Gray White				60					589.5 - 600 DOZER		2								1	1		1	
600																												

xAMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP053629

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-D356-99
No. SAMPLES : 58
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 1 JUN 1999
REPORTED : 23 JUN 1999

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 SP053629

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 0-4		SAMPLE NOT RECEIVED				
RS-D356-99 4-5	68		0.002		<0.5	<0.02
RS-D356-99 5-10	4292		0.125		2.0	0.06
RS-D356-99 10.0-12.6	138		0.004		1.5	0.04
RS-D356-99 12.6-14.3	188		0.005		3.5	0.10
RS-D356-99 14.3-16.2	146		0.004		2.8	0.08
RS-D356-99 16.2-19.0	254		0.007		5.8	0.17
RS-D356-99 19-21	198		0.006		3.6	0.11
RS-D356-99 21-25	68		0.002		2.8	0.08
RS-D356-99 25-29	58		0.002		1.5	0.04
RS-D356-99 29-32	118		0.003		2.2	0.06
RS-D356-99 29-32B	7018	7270	0.205	0.212	0.8	0.02
RS-D356-99 32-37	48		0.001		<0.5	<0.02
RS-D356-99 37-42	48		0.001		0.7	0.02
RS-D356-99 42.0-45.3	122		0.004		6.8	0.20
RS-D356-99 45.3-46.5	242		0.007		30.3	0.88
RS-D356-99 46.5-50.3	126		0.004		2.5	0.07
RS-D356-99 50.3-53.0	256		0.007		3.3	0.10
RS-D356-99 53-58	90		0.003		1.4	0.04
RS-D356-99 58-63	124		0.004		4.3	0.13
RS-D356-99 63-68	74		0.002		1.9	0.06
RS-D356-99 68.0-71.9	104		0.003		2.7	0.08
RS-D356-99 71.9-76.0	1604		0.047		18.1	0.53
RS-D356-99 76-80	298		0.009		2.3	0.07
RS-D356-99 80.0-81.8	1154		0.034		47.0	1.37

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ANALYSIS REPORT SP053629

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 80.0-81.8B	14500	14900	0.423	0.435	<0.5	<0.02
RS-D356-99 81.8-86.0	726		0.021		9.2	0.27
RS-D356-99 86-90	364		0.011		1.3	0.04
RS-D356-99 90-93	88		0.003		0.6	<0.02
RS-D356-99 93-97	192		0.006		1.2	0.04
RS-D356-99 97.0-99.1	126		0.004		1.8	0.05
RS-D356-99 99.1-103.0	12700		0.370		212.0	6.18
RS-D356-99 103.0-106.5	22240		0.649		61.6	1.80
RS-D356-99 106.5-109.5	2125		0.062		9.4	0.27
RS-D356-99 109.5-113.0	2268		0.066		6.7	0.20
RS-D356-99 113-118	996		0.029		17.6	0.51
RS-D356-99 118-123	2352		0.069		10.4	0.30
RS-D356-99 123-126	3648		0.106		23.7	0.69
RS-D356-99 126-129	2774		0.081		7.5	0.22
RS-D356-99 129-133	2218		0.065		9.4	0.27
RS-D356-99 133.0-134.7	2102		0.061		11.7	0.34
RS-D356-99 134.7-137.3	1280		0.037		27.5	0.80
RS-D356-99 134.7-137.3B	7180		0.209		0.9	0.03
RS-D356-99 137.3-142.0	2592		0.076		25.5	0.74
RS-D356-99 142.0-143.7	6774		0.198		88.4	2.58
RS-D356-99 143.7-148.0	1280		0.037		157.7	4.60
RS-D356-99 148-152	5566	5432	0.162	0.158	17.3	0.50
RS-D356-99 152.0-155.5	6492	6237	0.189	0.182	45.7	1.33
RS-D356-99 155.5-160.0	5498		0.160		62.0	1.81
RS-D356-99 160.0-163.2	5312		0.155		30.9	0.90

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053629

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 163.2-166.0	1528		0.045		25.0	0.73
RS-D356-99 166.0-169.6	1578		0.046		20.2	0.59
RS-D356-99 169.6-173.0	3536		0.103		4.4	0.13
RS-D356-99 173-178	1126		0.033		6.1	0.18
RS-D356-99 178-183	3506		0.102		37.1	1.08
RS-D356-99 183-188	3242		0.095		198.6	5.79
RS-D356-99 188-193	4644	5002	0.135	0.146	51.4	1.50
RS-D356-99 193-198	2196		0.064		31.2	0.91
RS-D356-99 198-203	3086		0.090		38.9	1.13

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NEWMONT GOLD COMPANY

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

CLIENT REFERENCE No: RS-D356-99 RECEIVED : 7 JUN 1999

No. SAMPLES : 54 REPORTED : 23 JUN 1999

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
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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 SP053682

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 400-403	2700		0.079		30.8	0.90
RS-D356-99 403-408	1842		0.054		6.8	0.20
RS-D356-99 408-413	148		0.004		1.7	0.05
RS-D356-99 413.0-415.9	6844		0.200		11.7	0.34
RS-D356-99 415.9-421.0	2156		0.063		7.3	0.21
RS-D356-99 421.0-423.7	302		0.009		3.2	0.09
RS-D356-99 423.7-428.0	214		0.006		5.3	0.15
RS-D356-99 428-433	240		0.007		3.4	0.10
RS-D356-99 433.0-434.6	5030		0.147		17.5	0.51
RS-D356-99 434.6-436.5	11060		0.323		42.2	1.23
RS-D356-99 436.5-438.0	7480		0.218		8.1	0.24
RS-D356-99 438.0-442.3	514		0.015		3.6	0.11
RS-D356-99 442.3-446.0	4378		0.128		4.6	0.13
RS-D356-99 446-449	704		0.021		8.3	0.24
RS-D356-99 449.0-452.7	22		<0.001		2.6	0.08
RS-D356-99 452.7-458.0	170		0.005		2.2	0.06
RS-D356-99 458-463	144		0.004		0.5	<0.02
RS-D356-99 463-468	678		0.020		2.7	0.08
RS-D356-99 468-471	444		0.013		3.5	0.10
RS-D356-99 471-475	1390		0.041		6.1	0.18
RS-D356-99 475-478	622		0.018		8.1	0.24
RS-D356-99 478.0-480.5	582		0.017		4.3	0.13
RS-D356-99 480.5-484.0	398		0.012		46.6	1.36
RS-D356-99 480.5-484.0B	1294		0.038		<0.5	<0.02
RS-D356-99 484-486	1570		0.046		26.9	0.78

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053682

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 486.0-490.8	564		0.016		5.9	0.17
RS-D356-99 490.8-495.8	34		<0.001		2.2	0.06
RS-D356-99 495.8-499.6	934		0.027		81.3	2.37
RS-D356-99 499.6-502.8	24	36	<0.001	0.001	2.3	0.07
RS-D356-99 502.8-505.6	584		0.017		3.0	0.09
RS-D356-99 505.6-508.0	604		0.018		3.9	0.11
RS-D356-99 508-513	138		0.004		1.7	0.05
RS-D356-99 513-518	124		0.004		1.8	0.05
RS-D356-99 518-523	58		0.002		20.8	0.61
RS-D356-99 523-528	112		0.003		2.2	0.06
RS-D356-99 528-533	28		<0.001		2.5	0.07
RS-D356-99 533-538	20		<0.001		1.3	0.04
RS-D356-99 538-543	74		0.002		1.9	0.06
RS-D356-99 543.0-546.8	430		0.013		3.1	0.09
RS-D356-99 543.0-546.8B	7242		0.211		<0.5	<0.02
RS-D356-99 546.8-550.0	30		<0.001		1.0	0.03
RS-D356-99 550-554	<5		<0.001		<0.5	<0.02
RS-D356-99 554-558	6		<0.001		0.5	<0.02
RS-D356-99 558-563	438		0.013		0.8	0.02
RS-D356-99 563-568	<5		<0.001		<0.5	<0.02
RS-D356-99 568.0-572.9	38		0.001		<0.5	<0.02
RS-D356-99 572.9-578.0	<5		<0.001		<0.5	<0.02
RS-D356-99 578-583	<5		<0.001		0.9	0.03
RS-D356-99 583-588	<5		<0.001		<0.5	<0.02
RS-D356-99 588-589	46		0.001		1.9	0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053682

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 589.0-589.5	58	56	0.002	0.002	1.7	0.05
RS-D356-99 589.5-592.0	10	8	<0.001	<0.001	0.7	0.02
RS-D356-99 592.0-595.2	14		<0.001		1.0	0.03
RS-D356-99 595.2-598.0	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP053669

American Assay Laboratories

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Ph.(775) 356-0606, Fax.(775) 356-1413

NEWMONT GOLD COMPANY

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

CLIENT REFERENCE No: RS-D356-99 RECEIVED : 7 JUN 1999

No. SAMPLES : 59 REPORTED : 23 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
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053669

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 203.0-206.3	1406		0.041		478.0	13.94
RS-D356-99 206.3-208.0	1534		0.045		984.0	28.70
RS-D356-99 208-212	512		0.015		141.0	4.11
RS-D356-99 212.0-215.5	2400		0.070		27.3	0.80
RS-D356-99 215.5-219.8	2542		0.074		22.6	0.66
RS-D356-99 219.8-223.0	306		0.009		15.9	0.46
RS-D356-99 223-228	260		0.008		37.0	1.08
RS-D356-99 228-233	256		0.007		11.8	0.34
RS-D356-99 233-238	202		0.006		7.6	0.22
RS-D356-99 238-242	374		0.011		8.4	0.25
RS-D356-99 242-245	3572		0.104		11.7	0.34
RS-D356-99 245.0-246.7	3092		0.090		220.0	6.42
RS-D356-99 246.7-248.4	1192		0.035		30.0	0.88
RS-D356-99 248.4-252.9	3994		0.117		7.6	0.22
RS-D356-99 252.9-258.0	812		0.024		7.3	0.21
RS-D356-99 258.0-263.1	4376		0.128		11.8	0.34
RS-D356-99 258.0-263.1B	3212		~~0.094~~		<0.5	<0.02
RS-D356-99 263.1-264.3	17340	16661	0.506	0.486	13.4	0.39
RS-D356-99 264.3-268.6	3028		0.088		8.9	0.26
RS-D356-99 268.6-271.0	22380	22695	0.653	0.662	125.6	3.66
RS-D356-99 271.0-275.2	6900		0.201		17.0	0.50
RS-D356-99 275.2-278.0	8050		0.235		26.9	0.78
RS-D356-99 278-281	21300		0.621		36.4	1.06
RS-D356-99 281.0-284.2	15720		0.459		67.4	1.97
RS-D356-99 284.2-288.0	11960		0.349		630.8	18.40

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053669

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 288.0-291.5	1162		0.034		11.5	0.34
RS-D356-99 291.5-294.5	844		0.025		75.6	2.21
RS-D356-99 294.5-298.0	648		0.019		15.9	0.46
RS-D356-99 298.0-301.5	2260		0.066		57.3	1.67
RS-D356-99 301.5-303.7	5312	5720	0.155	0.167	48.4	1.41
RS-D356-99 303.7-308.1	1126		0.033		13.7	0.40
RS-D356-99 308.1-313.0	1460		0.043		7.0	0.20
RS-D356-99 313-318	226		0.007		6.1	0.18
RS-D356-99 318.0-320.6	126		0.004		5.4	0.16
RS-D356-99 320.6-323.0	1286		0.038		6.8	0.20
RS-D356-99 320.6-323.0B	13700	13096	0.400	0.382	<0.5	<0.02
RS-D356-99 323.0-326.5	336		0.010		4.9	0.14
RS-D356-99 326.5-328.5	1042		0.030		13.0	0.38
RS-D356-99 328.5-331.1	5494		0.160		48.3	1.41
RS-D356-99 331.1-335.0	2806		0.082		8.5	0.25
RS-D356-99 335-339	230		0.007		4.7	0.14
RS-D356-99 339-343	5006		0.146		23.3	0.68
RS-D356-99 343.0-347.4	1052		0.031		13.6	0.40
RS-D356-99 347.4-353.0	138		0.004		2.5	0.07
RS-D356-99 353.0-357.1	1700		0.050		42.9	1.25
RS-D356-99 357.1-361.0	68		0.002		1.9	0.06
RS-D356-99 361.0-364.4	128		0.004		2.0	0.06
RS-D356-99 361.0-364.4B	12460	12380	0.363	0.361	<0.5	<0.02
RS-D356-99 364.4-365.6	9942		0.290		57.9	1.69
RS-D356-99 365.6-369.0	64		0.002		2.5	0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053669

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 23 JUN 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-D356-99 369-373	190		0.006		1.9	0.06
RS-D356-99 373.0-378.1	100		0.003		1.7	0.05
RS-D356-99 378.1-382.0	190		0.006		1.5	0.04
RS-D356-99 382-386	90		0.003		3.3	0.10
RS-D356-99 386.0-387.4	344		0.010		13.1	0.38
RS-D356-99 387.4-390.8	74		0.002		5.0	0.15
RS-D356-99 390.8-393.0	14		<0.001		2.8	0.08
RS-D356-99 393.0-394.4	10		<0.001		1.8	0.05
RS-D356-99 394.4-400.0	134		0.004		2.4	0.07

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold

Address: Winnemucca Office

City Winnemucca State NV Zip 89445

Telephone Number: ( ) Fax Number: ( )

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 6-5-99 Number of Samples: 52 + 2 pulps

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-D356-99	Core	* Au Ag Rosebud Mine Grade control protocol
		AA 1-2 ICP + Se
		composite as shown on attachment
Standards: 484.0B, 546.8B	Pulps	AU Ag Only
NO ICP		
RS-D356-99 G03-176		
G03-176 546.8B		
RS-D356-99 MS-3 (RMG1) 484.0B		

PEEL HERE

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
Kent Allen Rosebud Mine
Winnemucca

Comments:

* Use Rosebud Gold Mine Grade control protocol

CLIENT FILE COPY

RS-D356-99 **LAB COPY**

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
400	403	3	x	x			1	
403	408	5	x	x			2	
408	413	5	x	x			3	
413	415.9	2.9	x	x			4	
415.9	421	5.1	x	x	x	21	5	
421	423.7	2.7	x	x			6	
423.7	428	4.3	x	x			7	
428	433	5	x	x			8	
433	434.6	1.6	x	x			9	
434.6	436.5	1.9	x	x			10	
436.5	438	1.5	x	x			11	
438	442.3	4.3	x	x	x	21.3	12	
442.3	446	3.7	x	x			13	
446	449	3	x	x			14	
449	452.7	3.7	x	x			15	
452.7	458	5.3	x	x			16	
458	463	5	x	x	x	20.7	17	
463	468	5	x	x			18	
468	471	3	x	x			19	
471	475	4	x	x			20	
475	478	3	x	x			21	
478	480.5	2.5	x	x			22	
480.5	484	3.5	x	x	x	21	23	484.0B
484	486	2	x	x			24	
486	490.8	4.8	x	x			25	
490.8	495.8	5	x	x			26	
495.8	499.6	3.8	x	x			27	
499.6	502.8	3.2	x	x	x	18.8	28	
502.8	505.6	2.8	x	x			29	
505.6	508	2.4	x	x			30	
508	513	5	x	x			31	
513	518	5	x	x			32	
518	523	5	x	x	x	20.2	33	
523	528	5	x	x			34	
528	533	5	x	x			35	
533	538	5	x	x			36	
538	543	5	x	x	x	20	37	
543	546.8	3.8	x	x	x	3.8	38	546.8B

546.8	550	3.2	x	x			39
550	554	4	x	x			40
554	558	4	x	x			41
558	563	5	x	x			42
563	568	5	x	x	x	21.2	43
568	572.9	4.9	x	x			44
572.9	578	5.1	x	x			45
578	583	5	x	x			46
583	588	5	x	x			47
588	589	1	x	x			48
589	589.5	0.5	x	x	x	21.5	49
589.5	592	2.5	x	x			50
592	595.2	3.2	x	x			51
595.2	598	2.8	x	x	x	8.5	52

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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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: 5-28-99 Number of Samples: 54 + 3 pulps

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-D356-99	Core	* AU, Ag Rosebud Mine ~~Protocol~~
		Grade Control Protocol
		AA 1-2 ICP + Se
		composite as shown on attachment
STANDARDS: 32.0B, 81.8B, 137.3B	Pulps	Au Ag Only
NO ICP		
PEEL HERE RS-D356-99 G03-176 G03-176 32.0B		
PEEL HERE RS-D356-99 G01-52 G01-52 81.8B		
PEEL HERE RS-D356-99 G03-176 G03-176 137.3B		

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
Winnemucca

Comments:

* USE ROSEBUD GOLD MINE ~~Protocol~~ Grade control protocol

CLIENT FILE COPY

RS-D356-99 **LAB COPY**

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
0	4	4			NO SAMPLE			
4	5	1	x	x			1	
5	10	5	x	x	x	6	2	
10	12.6	2.6	x	x			3	
12.6	14.3	1.7	x	x			4	
14.3	16.2	1.9	x	x			5	
16.2	19	2.8	x	x	x	9	6	
19	21	2	x	x			7	
21	25	4	x	x			8	
25	29	4	x	x			9	
29	32	3	x	x	x	13	10	32.0B
32	37	5	x	x			11	
37	42	5	x	x			12	
42	45.3	3.3	x	x			13	
45.3	46.5	1.2	x	x			14	
46.5	50.3	3.8	x	x			15	
50.3	53	2.7	x	x	x	21	16	
53	58	5	x	x			17	
58	63	5	x	x			18	
63	68	5	x	x			19	
68	71.9	3.9	x	x	x	18.9	20	
71.9	76	4.1	x	x			21	
76	80	4	x	x	x	8.1	22	
80	81.8	1.8	x	x	x	1.8	23	81.8B
81.8	86	4.2	x	x			24	
86	90	4	x	x			25	
90	93	3	x	x			26	
93	97	4	x	x			27	
97	99.1	2.1	x	x	x	17.3	28	
99.1	103	3.9	x	x			29	
103	106.5	3.5	x	x			30	
106.5	109.5	3	x	x	x	10.4	31	
109.5	113	3.5	x	x			32	
113	118	5	x	x			33	
118	123	5	x	x			34	
123	126	3	x	x	x	16.5	35	
126	129	3	x	x			36	
129	133	4	x	x			37	
133	134.7	1.7	x	x			38	
134.7	137.3	2.6	x	x	x	11.3	39	137.3B

137.3	142	4.7	x	x			40
142	143.7	1.7	x	x	x	6.4	41
143.7	148	4.3	x	x			42
148	152	4	x	x			43
152	155.5	3.5	x	x			44
155.5	160	4.5	x	x			45
160	163.2	3.2	x	x	x	19.5	46
163.2	166	2.8	x	x			47
166	173	7	x	x			48
173	178	5	x	x			49
178	183	5	x	x	x	19.8	50
183	188	5	x	x			51
188	193	5	x	x			52
193	198	5	x	x			53
198	203	5	x	x	x	20	54

SP

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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: 6-3-99 Number of Samples: 56 + 3 pulps

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-0356-99	Core	* Au Ag Rosebud Mine ~~Sample~~ Grade control protocol
		AA 1-2 ICP + Sc
		composite as shown on attachment
Standards: 263.1B, 323.0B, 364.4B NO ICP	Pulp	Au Ag only
PEEL HERE RS-0356-99 G03 - 176 G03 - 176 263.1B	PEEL HERE RS-0356-99 G01 - 52 G01 - 52 323.0B	PEEL HERE RS-0356-99 G01 - 52 G01 - 52 364.4B

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 Bellew
Winnemucca Office

Results to:

Randy Vance Newmont Winnemucca
Kurt Allan Rosebud Mine
Winnemucca

Comments:

* Use Rosebud Gold Mine Grade control protocol ~~Sample protocol~~

CLIENT FILE COPY

RS-D356-99 **LAB COPY**

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
203	206.3	3.3	x	x			1	
206.3	208	1.7	x	x			2	
206.3	212	5.7	x	x			3	
212	215.5	3.5	x	x			4	
215.5	219.8	4.3	x	x			5	
219.8	223	3.2	x	x	x	21.7	6	
223	228	5	x	x			7	
228	233	5	x	x			8	
233	238	5	x	x			9	
238	242	4	x	x	x	19	10	
242	245	3	x	x			11	
245	246.7	1.7	x	x			12	
246.7	248.4	1.7	x	x			13	
248.4	252.9	4.5	x	x			14	
252.9	258	5.1	x	x			15	
258	263.1	5.1	x	x	x	21.1	16	263.1B
263.1	264.3	1.2	x	x			17	
264.3	268.6	4.3	x	x			18	
268.6	271	2.4	x	x			19	
271	275.2	4.2	x	x			20	
275.2	278	2.8	x	x			21	
278	281	3	x	x			22	
281	284.2	3.2	x	x	x	21.1	23	
284.2	288	3.8	x	x			24	
288	291.5	3.5	x	x			25	
291.5	294.5	3	x	x			26	
294.5	298	3.5	x	x			27	
298	301.5	3.5	x	x			28	
301.5	303.7	2.2	x	x	x	19.5	29	
303.7	308.1	4.4	x	x			30	
308.1	313	4.9	x	x			31	
313	318	5	x	x			32	
318	320.6	2.6	x	x			33	
320.6	323	2.4	x	x	x	19.3	34	323.0B
323	326.5	3.5	x	x			35	
326.5	328.5	2	x	x			36	
328.5	331.1	2.6	x	x			37	
331.1	335	3.9	x	x			38	
335	339	4	x	x			39	
339	343	4	x	x	x	20	40	

343	347.4	4.4	x	x			41	
347.4	353	5.6	x	x			42	
353	357.1	4.1	x	x			43	
357.1	361	3.9	x	x			44	
361	364.4	3.4	x	x	x	21.4	45	364.4B
364.4	365.6	1.2	x	x			46	
365.6	369	3.4	x	x			47	
369	373	4	x	x			48	
373	378.1	5.1	x	x			49	
378.1	382	3.9	x	x			50	
382	386	4	x	x	x	21.6	51	
386	387.4	1.4	x	x			52	
387.4	390.8	3.4	x	x			53	
390.8	393	2.2	x	x			54	
393	394.4	1.4	x	x			55	
394.4	400	5.6	x	x			56	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053682

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-D356-99 RECEIVED : 7 JUN 1999

No. SAMPLES : 54 REPORTED : 18 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
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053629

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PROJECT : ROSEBUD
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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 0-4	SAMPLE NOT RECEIVED					
RS-D356-99 4-5	68		0.002		<0.5	<0.02
RS-D356-99 5-10	4292		0.125		2.0	0.06
RS-D356-99 10.0-12.6	138		0.004		1.5	0.04
RS-D356-99 12.6-14.3	188		0.005		3.5	0.10
RS-D356-99 14.3-16.2	146		0.004		2.8	0.08
RS-D356-99 16.2-19.0	254		0.007		5.8	0.17
RS-D356-99 19-21	198		0.006		3.6	0.11
RS-D356-99 21-25	68		0.002		2.8	0.08
RS-D356-99 25-29	58		0.002		1.5	0.04
RS-D356-99 29-32	118		0.003		2.2	0.06
~~RS-D356-99 29-32B~~	~~7018~~	~~7270~~	~~0.205~~	~~0.212~~	~~0.8~~	~~0.02~~
RS-D356-99 32-37	48		0.001		<0.5	<0.02
RS-D356-99 37-42	48		0.001		0.7	0.02
RS-D356-99 42.0-45.3	122		0.004		6.8	0.20
RS-D356-99 45.3-46.5	242		0.007		30.3	0.88
RS-D356-99 46.5-50.3	126		0.004		2.5	0.07
RS-D356-99 50.3-53.0	256		0.007		3.3	0.10
RS-D356-99 53-58	90		0.003		1.4	0.04
RS-D356-99 58-63	124		0.004		4.3	0.13
RS-D356-99 63-68	74		0.002		1.9	0.06
RS-D356-99 68.0-71.9	104		0.003		2.7	0.08
RS-D356-99 71.9-76.0	1604		0.047		18.1	0.53
RS-D356-99 76-80	298		0.009		2.3	0.07
RS-D356-99 80.0-81.8	1154		0.034		47.0	1.37

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 80.0-81.8B	14500	14900	0.423	0.435	<0.5	<0.02
RS-D356-99 81.8-86.0	726		0.021		9.2	0.27
RS-D356-99 86-90	364		0.011		1.3	0.04
RS-D356-99 90-93	88		0.003		0.6	<0.02
RS-D356-99 93-97	192		0.006	99.1-106.5 =	1.2	0.04
RS-D356-99 97.0-99.1	126		0.004	7.4' @	1.8	0.05
RS-D356-99 99.1-103.0 3.9	12700		0.370	0.502 Au	212.0	6.18
RS-D356-99 103.0-106.5 3.5	22240		0.649	4.11 Ag	61.6	1.80
RS-D356-99 106.5-109.5	2125		0.062		9.4	0.27
RS-D356-99 109.5-113.0	2268		0.066		6.7	0.20
RS-D356-99 113-118	996		0.029		17.6	0.51
RS-D356-99 118-123	2352		0.069		10.4	0.30
RS-D356-99 123-126	3648		0.106		23.7	0.69
RS-D356-99 126-129	2774		0.081		7.5	0.22
RS-D356-99 129-133	2218		0.065		9.4	0.27
RS-D356-99 133.0-134.7	2102		0.061		11.7	0.34
RS-D356-99 134.7-137.3	1280		0.037		27.5	0.80
RS-D356-99 134.7-137.3B	7180		0.209		0.9	0.03
RS-D356-99 137.3-142.0	2592		0.076		25.5	0.74
RS-D356-99 142.0-143.7	6774		0.198		88.4	2.58
RS-D356-99 143.7-148.0	1280		0.037		157.7	4.60
RS-D356-99 148-152	5566	5432	0.162	0.158	17.3	0.50
RS-D356-99 152.0-155.5	6492	6237	0.189	0.182	45.7	1.33
RS-D356-99 155.5-160.0	5498		0.160		62.0	1.81
RS-D356-99 160.0-163.2	5312		0.155		30.9	0.90

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 163.2-166.0	1528		0.045		25.0	0.73
RS-D356-99 166.0-169.6	1578		0.046		20.2	0.59
RS-D356-99 169.6-173.0	3536		0.103		4.4	0.13
RS-D356-99 173-178	1126		0.033		6.1	0.18
RS-D356-99 178-183	3506		0.102		37.1	1.08
RS-D356-99 183-188	3242		0.095		198.6	5.79
RS-D356-99 188-193	4644	5002	0.135	0.146	51.4	1.50
RS-D356-99 193-198	2196		0.064		31.2	0.91
RS-D356-99 198-203	3086		0.090		38.9	1.13

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 203.0-206.3	1406		0.041		478.0	13.94
RS-D356-99 206.3-208.0	1534		0.045		984.0	28.70
RS-D356-99 208-212	512		0.015		141.0	4.11
RS-D356-99 212.0-215.5	2400		0.070		27.3	0.80
RS-D356-99 215.5-219.8	2542		0.074		22.6	0.66
RS-D356-99 219.8-223.0	306		0.009		15.9	0.46
RS-D356-99 223-228	260		0.008		37.0	1.08
RS-D356-99 228-233	256		0.007		11.8	0.34
RS-D356-99 233-238	202		0.006		7.6	0.22
RS-D356-99 238-242	374		0.011		8.4	0.25
RS-D356-99 242-245	3572		0.104		11.7	0.34
RS-D356-99 245.0-246.7	3092		0.090		220.0	6.42
RS-D356-99 246.7-248.4	1192		0.035		30.0	0.88
RS-D356-99 248.4-252.9	3994		0.117		7.6	0.22
RS-D356-99 252.9-258.0	812		0.024		7.3	0.21
RS-D356-99 258.0-263.1	4376		0.128	263.1-288	11.8	0.34
RS-D356-99 258.0-263.1B	3212		0.094	=24.9' @	<0.5	<0.02
RS-D356-99 263.1-264.3 1.2	17340	16661	0.506	0.486	13.4	0.39
RS-D356-99 264.3-268.6 4.3	3028		0.088		8.9	0.26
RS-D356-99 268.6-271.0 2.4	22380	22695	0.653	0.662	125.6	3.66
RS-D356-99 271.0-275.2 4.2	6900		0.201	0.350 Au	17.0	0.50
RS-D356-99 275.2-278.0 2.8	8050		0.235	3.77 Ag	26.9	0.78
RS-D356-99 278-281 3.0	21300		0.621		36.4	1.06
RS-D356-99 281.0-284.2 3.2	15720		0.459		67.4	1.97
RS-D356-99 284.2-288.0 3.8	11960		0.349		630.8	18.40

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 288.0-291.5	1162		0.034		11.5	0.34
RS-D356-99 291.5-294.5	844		0.025		75.6	2.21
RS-D356-99 294.5-298.0	648		0.019		15.9	0.46
RS-D356-99 298.0-301.5	2260		0.066		57.3	1.67
RS-D356-99 301.5-303.7	5312	5720	0.155	0.167	48.4	1.41
RS-D356-99 303.7-308.1	1126		0.033		13.7	0.40
RS-D356-99 308.1-313.0	1460		0.043		7.0	0.20
RS-D356-99 313-318	226		0.007		6.1	0.18
RS-D356-99 318.0-320.6	126		0.004		5.4	0.16
RS-D356-99 320.6-323.0	1286		0.038		6.8	0.20
RS-D356-99 320.6-323.0B	13700	13096	0.400	0.382	<0.5	<0.02
RS-D356-99 323.0-326.5	336		0.010		4.9	0.14
RS-D356-99 326.5-328.5	1042		0.030		13.0	0.38
RS-D356-99 328.5-331.1	5494		0.160		48.3	1.41
RS-D356-99 331.1-335.0	2806		0.082		8.5	0.25
RS-D356-99 335-339	230		0.007		4.7	0.14
RS-D356-99 339-343	5006		0.146		23.3	0.68
RS-D356-99 343.0-347.4	1052		0.031		13.6	0.40
RS-D356-99 347.4-353.0	138		0.004		2.5	0.07
RS-D356-99 353.0-357.1	1700		0.050		42.9	1.25
RS-D356-99 357.1-361.0	68		0.002		1.9	0.06
RS-D356-99 361.0-364.4	128		0.004		2.0	0.06
RS-D356-99 361.0-364.4B	12460	12380	0.363	0.361	<0.5	<0.02
RS-D356-99 364.4-365.6	9942		0.290		57.9	1.69
RS-D356-99 365.6-369.0	64		0.002		2.5	0.07

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 369-373	190		0.006		1.9	0.06
RS-D356-99 373.0-378.1	100		0.003		1.7	0.05
RS-D356-99 378.1-382.0	190		0.006		1.5	0.04
RS-D356-99 382-386	90		0.003		3.3	0.10
RS-D356-99 386.0-387.4	344		0.010		13.1	0.38
RS-D356-99 387.4-390.8	74		0.002		5.0	0.15
RS-D356-99 390.8-393.0	14		<0.001		2.8	0.08
RS-D356-99 393.0-394.4	10		<0.001		1.8	0.05
RS-D356-99 394.4-400.0	134		0.004		2.4	0.07

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REPORTED : 18 JUN 1999

SAMPLES		Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 400-403		2700		0.079		30.8	0.90
RS-D356-99 403-408		1842		0.054		6.8	0.20
RS-D356-99 408-413		148		0.004		1.7	0.05
RS-D356-99 413.0-415.9		6844		0.200		11.7	0.34
RS-D356-99 415.9-421.0		2156		0.063		7.3	0.21
RS-D356-99 421.0-423.7		302		0.009		3.2	0.09
RS-D356-99 423.7-428.0		214		0.006		5.3	0.15
RS-D356-99 428-433		240		0.007	434.6-438	3.4	0.10
RS-D356-99 433.0-434.6		5030		0.147	= 3.4' @	17.5	0.51
RS-D356-99 434.6-436.5	1.9'	11060		0.323	0.277 Au	42.2	1.23
RS-D356-99 436.5-438.0	1.5	7480		0.218	0.79 Ag	8.1	0.24
RS-D356-99 438.0-442.3		514		0.015		3.6	0.11
RS-D356-99 442.3-446.0		4378		0.138		4.6	0.13
RS-D356-99 446-449		704		0.021		8.3	0.24
RS-D356-99 449.0-452.7		22		<0.001		2.6	0.08
RS-D356-99 452.7-458.0		170		0.005		2.2	0.06
RS-D356-99 458-463		144		0.004		0.5	<0.02
RS-D356-99 463-468		678		0.020		2.7	0.08
RS-D356-99 468-471		444		0.013		3.5	0.10
RS-D356-99 471-475		1390		0.041		6.1	0.18
RS-D356-99 475-478		622		0.018		8.1	0.24
RS-D356-99 478.0-480.5		582		0.017		4.3	0.13
RS-D356-99 480.5-484.0		398		0.012		46.6	1.36
RS-D356-99 480.5-484.0B		1294		0.038		<0.5	<0.02
RS-D356-99 484-486		1570		0.046		26.9	0.78

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 486.0-490.8	564		0.016		5.9	0.17
RS-D356-99 490.8-495.8	34		<0.001		2.2	0.06
RS-D356-99 495.8-499.6	934		0.027		81.3	2.37
RS-D356-99 499.6-502.8	19	30	<0.001	0.001	2.3	0.01
RS-D356-99 502.8-505.6	584		0.017		3.0	0.09
RS-D356-99 505.6-508.0	604		0.018		3.9	0.11
RS-D356-99 508-513	138		0.004		1.7	0.05
RS-D356-99 513-518	124		0.004		1.8	0.05
RS-D356-99 518-523	58		0.002		20.8	0.61
RS-D356-99 523-528	112		0.003		2.2	0.06
RS-D356-99 528-533	28		<0.001		2.5	0.07
RS-D356-99 533-538	20		<0.001		1.3	0.04
RS-D356-99 538-543	74		0.002		1.9	0.06
RS-D356-99 543.0-546.8	430		0.013		3.1	0.09
RS-D356-99 543.0-546.8B	7242		0.211		<0.5	<0.02
RS-D356-99 546.8-550.0	30		<0.001		1.0	0.03
RS-D356-99 550-554	<5		<0.001		<0.5	<0.02
RS-D356-99 554-558	6		<0.001		0.5	<0.02
RS-D356-99 558-563	438		0.013		0.8	0.02
RS-D356-99 563-568	<5		<0.001		<0.5	<0.02
RS-D356-99 568.0-572.9	38		0.001		<0.5	<0.02
RS-D356-99 572.9-578.0	<5		<0.001		<0.5	<0.02
RS-D356-99 578-583	<5		<0.001		0.9	0.03
RS-D356-99 583-588	<5		<0.001		<0.5	<0.02
RS-D356-99 588-589	46		0.001		1.9	0.06

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 589.0-589.5	58	56	0.002	0.002	1.7	0.05
RS-D356-99 589.5-592.0	10	8	<0.001	<0.001	0.7	0.02
RS-D356-99 592.0-595.2	14		<0.001		1.0	0.03
RS-D356-99 595.2-598.0	<5		<0.001		<0.5	<0.02

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PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 0-4	SAMPLE NOT RECEIVED				0-80 SPLAT	
RS-D356-99 4-5	68		0.002			
RS-D356-99 5-10	DTF		DTF	Fault		
RS-D356-99 10.0-12.6	138		0.004			
RS-D356-99 12.6-14.3	188		0.005			
RS-D356-99 14.3-16.2	146		0.004			
RS-D356-99 16.2-19.0	254		0.007			
RS-D356-99 19-21	198		0.006			
RS-D356-99 21-25	68		0.002			
RS-D356-99 25-29	58		0.002			
RS-D356-99 29-32	118		0.003			
~~RS-D356-99 29-32B~~	~~7018~~	~~7270~~	~~0.205~~	~~0.212~~	~~standard~~	
RS-D356-99 32-37	48		0.001			
RS-D356-99 37-42	48		0.001			
RS-D356-99 42.0-45.3	122		0.004			
RS-D356-99 45.3-46.5	242		0.007			
RS-D356-99 46.5-50.3	126		0.004			
RS-D356-99 50.3-53.0	256		0.007			
RS-D356-99 53-58	90		0.003			
RS-D356-99 58-63	124		0.004			
RS-D356-99 63-68	74		0.002			
RS-D356-99 68.0-71.9	104		0.003			
RS-D356-99 71.9-76.0	1604		0.047			
RS-D356-99 76-80	298		0.009			
RS-D356-99 80.0-81.8	1154		0.034	80-109.5	SRF	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053629

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 80.0-81.8B	14500	14900	0.423	0.435	80 - 109.5 S.R.F.	
RS-D356-99 81.8-86.0	726		0.021			
RS-D356-99 86-90	364		0.011			
RS-D356-99 90-93	88		0.003			
RS-D356-99 93-97	192		0.006			
RS-D356-99 97.0-99.1	126		0.004			
RS-D356-99 99.1-103.0	12700		0.370			
RS-D356-99 103.0-106.5	DTF		DTF			
RS-D356-99 106.5-109.5	2125		0.062			
RS-D356-99 109.5-113.0	2268		0.066		109.5 - 137.3 TCS S.S.	
RS-D356-99 113-118	996		0.029			
RS-D356-99 118-123	2352		0.069			
RS-D356-99 123-126	3648		0.106			
RS-D356-99 126-129	2774		0.081			
RS-D356-99 129-133	2218		0.065			
RS-D356-99 133.0-134.7	2102		0.061			
RS-D356-99 134.7-137.3	1280		0.037			
RS-D356-99 134.7-137.3B	7180		0.209			
RS-D356-99 137.3-142.0	2592		0.076		137.3 - 143.7 ALS.	
RS-D356-99 142.0-143.7	6774		0.198			
RS-D356-99 143.7-148.0	1280		0.037		143.7 - 502.8 TCS S.S	
RS-D356-99 148-152	5566	5432	0.162	0.158		
RS-D356-99 152.0-155.5	6492	6237	0.189	0.182		
RS-D356-99 155.5-160.0	5498		0.160			
RS-D356-99 160.0-163.2	5312		0.155			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053629

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 163.2-166.0	1528		0.045			
RS-D356-99 166.0-169.6	1578		0.046			
RS-D356-99 169.6-173.0	3536		0.103			
RS-D356-99 173-178	1126		0.033			
RS-D356-99 178-183	3506		0.102			
RS-D356-99 183-188	3242		0.095			
RS-D356-99 188-193	4644	5002	0.135	0.146		
RS-D356-99 193-198	2196		0.064			
RS-D356-99 198-203	3086		0.090			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053669

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	AU	AU(R)	AU(OZ)	AU(R/)	Ag	Ag(OZ)
RS-D356-99 203.0-206.3	1406		0.041			
RS-D356-99 206.3-208.0	1534		0.045			
RS-D356-99 208-212	512		0.015			
RS-D356-99 212.0-215.5	2400		0.070			
RS-D356-99 215.5-219.8	2542		0.074			
RS-D356-99 219.8-223.0	306		0.009			
RS-D356-99 223-228	260		0.008			
RS-D356-99 228-233	256		0.007			
RS-D356-99 233-238	202		0.006			
RS-D356-99 238-242	374		0.011			
RS-D356-99 242-245	3572		0.104			
RS-D356-99 245.0-246.7	3092		0.090			
RS-D356-99 246.7-248.4	1192		0.035			
RS-D356-99 248.4-252.9	3994		0.117			
RS-D356-99 252.9-258.0	812		0.024			
RS-D356-99 258.0-263.1	4376		0.128			
RS-D356-99 258.0-263.1B	3212		0.094			
RS-D356-99 263.1-264.3	17340	16661	0.506	0.486		
RS-D356-99 264.3-268.6	3028		0.088			
RS-D356-99 268.6-271.0	22380	22695	0.653	0.662		
RS-D356-99 271.0-275.2	6900		0.201			
RS-D356-99 275.2-278.0	8050		0.235			
RS-D356-99 278-281	21300		0.621			
RS-D356-99 281.0-284.2	15720		0.459			
RS-D356-99 284.2-288.0	11960		0.349			

263.1 - 288' = 24.9'
@

0.350 Au

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053669

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 288.0-291.5	1162		0.034			
RS-D356-99 291.5-294.5	844		0.025			
RS-D356-99 294.5-298.0	648		0.019			
RS-D356-99 298.0-301.5	2260		0.066			
RS-D356-99 301.5-303.7	5312	5720	0.155	0.167		
RS-D356-99 303.7-308.1	1126		0.033			
RS-D356-99 308.1-313.0	1460		0.043			
RS-D356-99 313-318	226		0.007			
RS-D356-99 318.0-320.6	126		0.004			
RS-D356-99 320.6-323.0	1286		0.038			
RS-D356-99 320.6-323.0B	13700	13096	0.400	0.382		
RS-D356-99 323.0-326.5	336		0.010			
RS-D356-99 326.5-328.5	1042		0.030			
RS-D356-99 328.5-331.1	5494		0.160			
RS-D356-99 331.1-335.0	2806		0.082			
RS-D356-99 335-339	230		0.007			
RS-D356-99 339-343	5006		0.146			
RS-D356-99 343.0-347.4	1052		0.031			
RS-D356-99 347.4-353.0	138		0.004			
RS-D356-99 353.0-357.1	1700		0.050			
RS-D356-99 357.1-361.0	68		0.002			
RS-D356-99 361.0-364.4	128		0.004			
RS-D356-99 361.0-364.4B	12460	12380	0.363	0.361		
RS-D356-99 364.4-365.6	9942		0.290			
RS-D356-99 365.6-369.0	64		0.002			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053669

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 369-373	190		0.006			
RS-D356-99 373.0-378.1	100		0.003			
RS-D356-99 378.1-382.0	190		0.006			
RS-D356-99 382-386	90		0.003			
RS-D356-99 386.0-387.4	344		0.010			
RS-D356-99 387.4-390.8	74		0.002			
RS-D356-99 390.8-393.0	14		<0.001			
RS-D356-99 393.0-394.4	10		<0.001			
RS-D356-99 394.4-400.0	134		0.004			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053682

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 400-403	2700		0.079			
RS-D356-99 403-408	1842		0.054			
RS-D356-99 408-413	148		0.004			
RS-D356-99 413.0-415.9	6844		0.200			
RS-D356-99 415.9-421.0	2156		0.063			
RS-D356-99 421.0-423.7	302		0.009			
RS-D356-99 423.7-428.0	214		0.006			
RS-D356-99 428-433	240		0.007	434.6 - 438'		
RS-D356-99 433.0-434.6	5030		0.147	= 3.4' @		
RS-D356-99 434.6-436.5 1.9'	11060		0.323	0.277 Au		
RS-D356-99 436.5-438.0 1.5	7480		0.218			
RS-D356-99 438.0-442.3	514		0.015			
RS-D356-99 442.3-446.0	4378		0.128			
RS-D356-99 446-449	704		0.021			
RS-D356-99 449.0-452.7	22		<0.001			
RS-D356-99 452.7-458.0	170		0.005			
RS-D356-99 458-463	144		0.004			
RS-D356-99 463-468	678		0.020			
RS-D356-99 468-471	444		0.013			
RS-D356-99 471-475	1390		0.041			
RS-D356-99 475-478	622		0.018			
RS-D356-99 478.0-480.5	582		0.017			
RS-D356-99 480.5-484.0	398		0.012			
RS-D356-99 480.5-484.0B	1294		0.038			
RS-D356-99 484-486	1570		0.046			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053682

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
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REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 486.0-490.8	564		0.016			
RS-D356-99 490.8-495.8	34		<0.001			
RS-D356-99 495.8-499.6	934		0.027			
RS-D356-99 499.6-502.8	24	36	<0.001	0.001		
RS-D356-99 502.8-505.6	584		0.017			
RS-D356-99 505.6-508.0	604		0.018			
RS-D356-99 508-513	138		0.004			
RS-D356-99 513-518	124		0.004			
RS-D356-99 518-523	58		0.002			
RS-D356-99 523-528	112		0.003			
RS-D356-99 528-533	28		<0.001			
RS-D356-99 533-538	20		<0.001			
RS-D356-99 538-543	74		0.002			
RS-D356-99 543.0-546.8	430		0.013			
RS-D356-99 543.0-546.8B	7242		0.211			
RS-D356-99 546.8-550.0	30		<0.001			
RS-D356-99 550-554	<5		<0.001	TCS EPICLASTIC 502.8-551		
RS-D356-99 554-558	6		<0.001			
RS-D356-99 558-563	438		0.013			
RS-D356-99 563-568	<5		<0.001			
RS-D356-99 568.0-572.9	38		0.001			
RS-D356-99 572.9-578.0	<5		<0.001			
RS-D356-99 578-583	<5		<0.001			
RS-D356-99 583-588	<5		<0.001			
RS-D356-99 588-589	46		0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053682

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D356-99

REPORTED : 15 JUN 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D356-99 589.0-589.5	58	56	0.002	0.002		
RS-D356-99 589.5-592.0	10	8	<0.001	<0.001	Td	
RS-D356-99 592.0-595.2	14		<0.001			
RS-D356-99 595.2-598.0	<5		<0.001			

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:	SP053682
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-D356-99 400-421	12.4	0.94	114	< 3	62	< 3	0.37	< .2	19	39	66	5.13	65	0.25	13	0.09	122	4	0.02	107	0.069	12	36	27.5	43	3	< .01	< 8	29	< 2	85
RS-D356-99 421.0-442.3	11.4	0.69	177	< 3	57	< 3	0.34	< .2	17	27	43	4.53	89	0.22	7	0.06	52	5	0.02	73	0.065	15	53	23.7	40	3	< .01	< 8	17	3	80
RS-D356-99 442.3-463.0	4.4	1.31	124	< 3	64	< 3	0.46	0.7	28	43	48	5.04	42	0.2	15	0.48	701	4	0.02	159	0.093	10	37	16.4	49	3	< .01	< 8	42	2	114
RS-D356-99 463-484	14.7	0.62	167	3	44	< 3	0.35	< .2	21	31	49	4.94	99	0.19	6	0.05	82	10	0.02	87	0.068	16	64	27.1	42	2	< .01	< 8	26	2	84
RS-D356-99 484.0-502.8	22.9	0.64	174	< 3	36	< 3	0.34	< .2	16	33	51	4.88	90	0.23	5	0.05	296	8	0.02	53	0.06	12	58	29.6	43	2	< .01	< 8	18	2	96
RS-D356-99 502.8-523.0	3.8	0.91	59	< 3	64	< 3	0.52	< .2	18	24	38	4.35	51	0.26	26	0.14	151	2	0.02	70	0.123	16	14	18.4	60	4	0.01	< 8	28	2	87
RS-D356-99 523-543	1.9	0.88	25	< 3	94	< 3	0.43	< .2	9	5	6	2.84	54	0.33	27	0.12	98	1	0.02	16	0.064	16	12	15.7	60	6	0.01	< 8	8	< 2	56
RS-D356-99 543.0-546.8	4.8	0.52	22	3	53	< 3	0.24	< .2	4	27	7	1.51	67	0.22	16	0.04	133	4	0.01	12	0.035	11	10	10.4	31	4	< .01	< 8	5	< 2	39
RS-D356-99 546.8-568.0	0.8	1.25	18	< 3	94	< 3	1.94	0.2	12	20	36	3.71	22	0.36	15	0.35	1245	< 1	0.02	68	0.081	15	5	4	125	2	< .01	< 8	22	< 2	71
RS-D356-99 568.0-589.5	0.7	0.87	21	< 3	118	< 3	1.04	0.4	6	14	22	2.22	40	0.33	8	0.18	558	< 1	0.02	33	0.041	24	8	4.2	93	2	< .01	< 8	11	< 2	51
RS-D356-99 589.5-598.0	1	0.56	23	< 3	150	< 3	0.21	< .2	1	7	3	1.35	42	0.29	49	0.04	76	3	0.01	2	0.007	23	8	10.5	46	14	< .01	< 8	1	< 2	58
STANDARD C3/DS2	5.4	1.67	58	20	142	19	0.53	24.7	12	182	58	3.46	270	0.15	20	0.61	820	27	0.04	39	0.089	37	16	2.6	26	20	0.09	24	86	21	173
STANDARD G-2	< .3	1.19	< 2	< 3	266	< 3	0.71	< .2	5	93	3	2.2	< 5	0.56	9	0.65	613	2	0.17	9	0.1	3	< 3	0.1	90	5	0.15	< 8	46	3	46

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:	SP053669
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-D356-99 203-223	262	0.53	292	< 3	39	< 3	0.16	1.2	19	20	39	2.68	4193	0.17	4	0.03	37	7	0.01	45	0.028	11	397	129.6	143	< 2	< .01	< 8	6	< 2	650
RS-D356-99 223-242	16.9	0.56	157	< 3	79	< 3	0.21	0.4	13	14	65	2.52	98	0.21	5	0.04	47	2	0.01	59	0.026	9	103	28.3	87	< 2	< .01	< 8	8	2	96
RS-D356-99 242.0-263.1	45.8	0.6	223	< 3	51	< 3	0.24	0.3	10	20	34	2.83	86	0.21	6	0.04	50	2	0.01	30	0.037	11	247	57.9	65	2	< .01	< 8	9	2	79
RS-D356-99 263.1-284.2	37.6	0.65	272	< 3	52	< 3	0.33	0.3	10	25	64	2.96	103	0.23	7	0.05	57	3	0.01	29	0.058	9	102	43.5	46	2	< .01	< 8	10	< 2	64
RS-D356-99 284.2-303.7	133.9	0.57	375	< 3	59	< 3	0.32	0.2	10	19	49	3.12	116	0.2	5	0.04	48	3	0.01	25	0.044	12	1076	99	41	2	< .01	< 8	9	2	62
RS-D356-99 303.7-323.0	10.5	0.74	136	< 3	65	< 3	0.42	0.2	14	14	36	3.32	66	0.27	6	0.05	67	4	0.02	29	0.064	16	43	30.3	47	3	< .01	< 8	10	2	72
RS-D356-99 323-343	14.3	0.61	195	3	58	< 3	0.37	< .2	12	23	30	3.84	54	0.22	4	0.05	67	3	0.02	37	0.052	12	49	35.8	43	2	< .01	< 8	11	2	67
RS-D356-99 343.0-364.4	5.6	0.7	107	< 3	69	< 3	0.47	0.2	16	14	34	3.3	60	0.24	5	0.05	130	3	0.02	72	0.071	16	29	23	54	2	< .01	< 8	17	2	75
RS-D356-99 364.4-386.0	7.2	0.72	108	< 3	79	< 3	0.47	< .2	16	17	37	2.83	41	0.24	5	0.07	118	4	0.02	72	0.068	15	19	14.8	68	3	< .01	< 8	13	< 2	86

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:	SP053629
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-D356-99 4-10	1.3	0.88	61	< 3	48	< 3	1.08	0.2	3	8	14	2.38	104	0.33	14	0.1	331	3	0.02	3	0.059	23	6	6.4	78	3	< .01	< 8	5	< 2	46
RS-D356-99 10-19	3.4	0.72	79	< 3	51	< 3	0.29	0.2	6	30	15	3.27	222	0.24	12	0.05	106	5	0.01	7	0.048	23	14	18.2	93	3	< .01	< 8	3	< 2	65
RS-D356-99 19-32	2.4	0.78	54	< 3	63	< 3	0.31	0.2	5	27	8	2.46	192	0.33	16	0.05	79	5	0.01	5	0.058	26	8	10.2	78	4	< .01	< 8	3	< 2	49
RS-D356-99 32-53	5.2	0.8	38	< 3	55	< 3	0.27	0.3	4	15	7	2.34	141	0.34	16	0.07	1036	4	0.02	4	0.047	24	12	12.4	102	3	< .01	< 8	4	< 2	76
RS-D356-99 53.0-71.9	2.4	0.65	40	< 3	38	< 3	0.2	0.3	4	13	7	2.78	128	0.33	13	0.04	68	3	0.02	8	0.031	21	14	11.7	129	3	< .01	< 8	3	2	112
RS-D356-99 71.9-80.0	10.2	0.65	70	< 3	25	< 3	0.14	0.3	9	34	13	2.71	678	0.3	9	0.04	73	4	0.01	25	0.019	13	19	15.5	106	2	< .01	< 8	2	2	1665
RS-D356-99 80.0-81.8	29	0.38	71	< 3	38	< 3	0.07	0.5	4	84	37	2.79	178	0.16	6	0.03	130	9	0.01	13	0.009	9	29	8	158	< 2	< .01	< 8	3	< 2	110
RS-D356-99 81.8-99.1	2.6	0.24	13	< 3	192	< 3	0.07	0.4	2	57	20	1.69	50	0.1	3	0.02	103	5	0.01	10	0.008	< 3	6	3.4	72	< 2	< .01	< 8	2	< 2	75
RS-D356-99 99.1-109.5	91.2	0.36	91	< 3	46	< 3	0.07	0.7	6	53	57	2.08	633	0.12	3	0.02	83	6	0.01	19	0.009	6	84	28.6	113	< 2	< .01	< 8	4	< 2	153
RS-D356-99 109.5-126.0	8.8	0.43	98	< 3	32	< 3	0.12	0.4	9	33	52	2.29	503	0.14	3	0.03	76	5	0.01	27	0.013	6	26	19.4	122	< 2	< .01	< 8	6	2	57
RS-D356-99 126.0-137.3	9.9	0.4	134	< 3	30	< 3	0.12	0.3	10	39	80	2.51	404	0.14	3	0.03	79	5	0.01	34	0.013	7	43	28.2	102	< 2	< .01	< 8	6	2	59
RS-D356-99 137.3-143.7	41.1	0.3	138	3	71	< 3	0.05	1.2	7	61	73	2.17	68	0.13	4	0.02	100	8	< .01	36	0.014	11	636	97.9	93	< 2	< .01	< 8	7	7	110
RS-D356-99 143.7-163.2	61.3	0.41	221	< 3	28	< 3	0.13	0.2	14	38	97	2.89	136	0.17	5	0.03	60	3	0.01	56	0.015	8	499	80.9	100	< 2	< .01	< 8	8	3	58
RS-D356-99 163.2-183.0	16.1	0.44	152	< 3	28	< 3	0.13	0.3	12	40	68	2.24	76	0.17	3	0.03	65	4	0.01	49	0.02	6	460	76.5	101	< 2	< .01	< 8	8	2	52
RS-D356-99 183-203	68.4	0.52	183	< 3	29	< 3	0.17	0.4	11	30	58	2.32	89	0.19	5	0.03	71	4	0.01	37	0.027	7	184	42.6	103	< 2	< .01	< 8	8	< 2	55
STANDARD C3/DS2	5.9	1.84	57	21	151	22	0.58	23.5	13	170	63	3.44	245	0.16	19	0.63	791	26	0.04	37	0.088	36	15	2.5	29	19	0.09	21	82	20	165
STANDARD G-2	< .3	0.94	< 2	< 3	222	< 3	0.65	< .2	5	76	2	2.01	< 5	0.46	7	0.61	546	2	0.08	8	0.093	< 3	< 3	0.1	71	4	0.13	< 8	40	3	40

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP053629
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-D356-99 4-10	1.3	0.88	61	< 3	48	< 3	1.08	0.2	3	8	14	2.31	104	0.33	14	0.1	331	3	0.02	3	0.059	23	6	6.4	78	3	< .01	< 8	5	< 2	46
RS-D356-99 10-19	3.4	0.72	79	< 3	51	< 3	0.29	0.2	6	30	15	3.27	222	0.24	12	0.05	106	5	0.01	7	0.048	23	14	18.2	93	3	< .01	< 8	3	< 2	65
RS-D356-99 19-32	2.4	0.78	54	< 3	63	< 3	0.31	0.2	5	27	8	2.46	192	0.33	16	0.05	79	5	0.01	5	0.058	26	8	10.2	78	4	< .01	< 8	3	< 2	49
RS-D356-99 32-53	5.2	0.8	38	< 3	55	< 3	0.27	0.3	4	15	7	2.34	141	0.34	16	0.07	1036	4	0.02	4	0.047	24	12	12.4	102	3	< .01	< 8	4	< 2	76
RS-D356-99 53.0-71.9	2.4	0.65	40	< 3	38	< 3	0.2	0.3	4	13	7	2.78	128	0.33	13	0.04	68	3	0.02	8	0.031	21	14	11.7	129	3	< .01	< 8	3	2	112
RS-D356-99 71.9-80.0	10.2	0.65	70	< 3	25	< 3	0.14	0.3	9	34	13	2.71	678	0.3	9	0.04	73	4	0.01	25	0.019	13	19	15.5	105	2	< .01	< 8	2	2	1665
RS-D356-99 80.0-81.8	29	0.38	71	< 3	38	< 3	0.07	0.5	4	84	37	2.79	178	0.16	6	0.03	130	9	0.01	13	0.009	9	29	8	153	< 2	< .01	< 8	3	< 2	110
RS-D356-99 81.8-99.1	2.6	0.24	13	< 3	192	< 3	0.07	0.4	2	57	20	1.69	50	0.1	3	0.02	103	5	0.01	10	0.008	< 3	6	3.4	72	< 2	< .01	< 8	2	< 2	75
RS-D356-99 99.1-109.5	91.2	0.36	91	< 3	46	< 3	0.07	0.7	6	53	57	2.08	633	0.12	3	0.02	83	6	0.01	19	0.009	6	84	28.6	118	< 2	< .01	< 8	4	< 2	153
RS-D356-99 109.5-126.0	3.8	0.43	98	< 3	32	< 3	0.12	0.4	9	33	52	2.29	503	0.14	3	0.03	76	5	0.01	27	0.013	6	26	19.4	122	< 2	< .01	< 8	6	2	57
RS-D356-99 126.0-137.3	3.9	0.4	134	< 3	30	< 3	0.12	0.3	10	39	80	2.51	404	0.14	3	0.03	79	5	0.01	34	0.013	7	43	28.2	102	< 2	< .01	< 8	6	2	59
RS-D356-99 137.3-143.7	41.1	0.3	138	3	71	< 3	0.05	1.2	7	61	73	2.17	68	0.13	4	0.02	100	8	< .01	36	0.014	11	636	97.9	93	< 2	< .01	< 8	7	7	110
RS-D356-99 143.7-163.2	61.3	0.41	221	< 3	28	< 3	0.13	0.2	14	38	97	2.89	136	0.17	5	0.03	60	3	0.01	56	0.015	8	499	80.9	100	< 2	< .01	< 8	8	3	58
RS-D356-99 163.2-183.0	15.1	0.44	152	< 3	28	< 3	0.13	0.3	12	40	68	2.24	76	0.17	3	0.03	65	4	0.01	49	0.02	6	460	76.5	101	< 2	< .01	< 8	8	2	52
RS-D356-99 183-203	68.4	0.52	183	< 3	29	< 3	0.17	0.4	11	30	58	2.32	89	0.19	5	0.03	71	4	0.01	37	0.027	7	184	42.6	103	< 2	< .01	< 8	8	< 2	55
STANDARD C3/DS2	5.9	1.84	57	21	151	22	0.58	23.5	13	170	63	3.44	245	0.16	19	0.63	791	28	0.04	37	0.088	36	15	2.5	29	19	0.09	21	82	20	165
STANDARD G-2	< .3	0.94	< 2	< 3	222	< 3	0.65	< .2	5	76	2	2.01	< 5	0.46	7	0.61	546	2	0.08	8	0.093	< 3	< 3	0.1	71	4	0.13	< 8	40	3	40

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP053669
METHOD: AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 358-0606
FAX: (775) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	=	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
RS-D356-99 203-223	262	0.53	292	< 3	39	< 3	0.16	1.2	19	20	39	=	193	0.17	4	0.03	37	7	0.01	45	0.028	11	397	129.6	143	< 2	< .01	< 8	6	< 2	650
RS-D356-99 223-242	16.9	0.56	157	< 3	79	< 3	0.21	0.4	13	14	65	=	98	0.21	5	0.04	47	2	0.01	53	0.026	9	103	28.3	87	< 2	< .01	< 8	6	2	96
RS-D356-99 242.0-263.1	45.8	0.6	223	< 3	51	< 3	0.24	0.3	10	20	34	=	86	0.21	6	0.04	50	2	0.01	33	0.037	11	247	57.9	65	2	< .01	< 8	9	2	79
RS-D356-99 263.1-284.2	37.6	0.65	272	< 3	52	< 3	0.33	0.3	10	25	64	=	103	0.23	7	0.05	57	3	0.01	29	0.058	9	102	43.5	46	2	< .01	< 8	10	< 2	64
RS-D356-99 284.2-303.7	133.9	0.57	375	< 3	59	< 3	0.32	0.2	10	19	49	=	116	0.2	5	0.04	48	3	0.01	25	0.044	12	1076	99	41	2	< .01	< 8	9	2	62
RS-D356-99 303.7-323.0	10.5	0.74	136	< 3	65	< 3	0.42	0.2	14	14	36	=	66	0.27	6	0.05	67	4	0.02	29	0.064	16	43	30.3	47	3	< .01	< 8	10	2	72
RS-D356-99 323-343	14.3	0.61	195	3	58	< 3	0.37	< .2	12	23	30	=	54	0.22	4	0.05	67	3	0.02	37	0.052	12	49	35.8	43	2	< .01	< 8	11	2	67
RS-D356-99 343.0-364.4	5.6	0.7	107	< 3	69	< 3	0.47	0.2	16	14	34		60	0.24	5	0.05	130	3	0.02	72	0.071	16	29	23	54	2	< .01	< 8	17	2	75
RS-D356-99 364.4-386.0	7.2	0.72	108	< 3	79	< 3	0.47	< .2	16	17	37	=	41	0.24	5	0.07	118	4	0.02	72	0.068	15	19	14.8	68	3	< .01	< 8	13	< 2	86

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP053682
METHOD: AAL 31-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 356-0606
FAX: (775) 356-4113

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-D356-99 400-421	12.4	0.94	114	< 3	62	< 3	0.37	< .2	19	39	66	5.13	65	0.25	13	0.09	122	4	0.02	107	0.069	12	36	27.5	43	3	< .01	< 8	23	< 2	85
RS-D356-99 421.0-442.3	11.4	0.69	177	< 3	57	< 3	0.34	< .2	17	27	43	4.53	89	0.22	7	0.06	52	5	0.02	73	0.065	15	53	23.7	40	3	< .01	< 8	17	3	80
RS-D356-99 442.3-463.0	4.4	1.31	124	< 3	64	< 3	0.46	0.7	28	43	48	5.04	42	0.2	15	0.48	708	4	0.02	159	0.093	10	37	16.4	49	3	< .01	< 8	42	2	114
RS-D356-99 463-484	14.7	0.62	167	3	44	< 3	0.35	< .2	21	31	49	4.94	99	0.19	6	0.05	82	10	0.02	87	0.068	16	64	27.1	42	2	< .01	< 8	26	2	84
RS-D356-99 484.0-502.8	22.9	0.64	174	< 3	36	< 3	0.34	< .2	16	33	51	4.88	90	0.23	5	0.05	296	8	0.02	53	0.06	12	58	29.6	43	2	< .01	< 8	18	2	96
RS-D356-99 502.8-523.0	3.8	0.91	59	< 3	64	< 3	0.52	< .2	18	24	38	4.35	51	0.26	26	0.14	151	2	0.02	70	0.123	16	14	18.4	60	4	0.01	< 8	28	2	87
RS-D356-99 523-543	1.9	0.88	25	< 3	94	< 3	0.43	< .2	9	5	6	2.84	54	0.33	27	0.12	94	1	0.02	16	0.064	16	12	15.7	60	6	0.01	< 8	8	< 2	56
RS-D356-99 543.0-546.8	4.8	0.52	22	3	53	< 3	0.24	< .2	4	27	7	1.51	67	0.22	16	0.04	133	4	0.01	12	0.035	11	10	10.4	31	4	< .01	< 8	5	< 2	39
RS-D356-99 546.8-568.0	0.8	1.25	18	< 3	94	< 3	1.94	0.2	12	20	36	3.71	22	0.36	15	0.35	1249	< 1	0.02	68	0.081	15	5	4	125	2	< .01	< 8	22	< 2	71
RS-D356-99 568.0-589.5	0.7	0.87	21	< 3	118	< 3	1.04	0.4	6	14	22	2.22	40	0.33	8	0.18	551	< 1	0.02	33	0.041	24	8	4.2	93	2	< .01	< 8	17	< 2	51
RS-D356-99 589.5-598.0	1	0.56	23	< 3	150	< 3	0.21	< .2	1	7	3	1.35	42	0.29	49	0.04	70	3	0.01	2	0.007	23	8	10.5	46	14	< .01	< 8	1	< 2	58
STANDARD C3/DS2	5.4	1.67	58	20	142	19	0.53	24.7	12	182	58	3.46	270	0.15	20	0.61	820	27	0.04	39	0.089	37	16	2.6	26	20	0.09	24	86	21	173
STANDARD G-2	< .3	1.19	< 2	< 3	256	< 3	0.71	< .2	5	83	3	2.2	< 5	0.56	9	0.65	613	2	0.17	9	0.1	3	< 3	0.1	90	5	0.15	< 8	46	3	46

RS-D356-99

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Pulps
0	4	4			NO SAMPLE			
4	5	1	x	x			1	
5	10	5	x	x	x	6	2	
10	12.6	2.6	x	x			3	
12.6	14.3	1.7	x	x			4	
14.3	16.2	1.9	x	x			5	
16.2	19	2.8	x	x	x	9	6	
19	21	2	x	x			7	
21	25	4	x	x			8	
25	29	4	x	x			9	
29	32	3	x	x	x	13	10	32.0B
32	37	5	x	x			11	
37	42	5	x	x			12	
42	45.3	3.3	x	x			13	
45.3	46.5	1.2	x	x			14	
46.5	50.3	3.8	x	x			15	
50.3	53	2.7	x	x	x	21	16	
53	58	5	x	x			17	
58	63	5	x	x			18	
63	68	5	x	x			19	
68	71.9	3.9	x	x	x	18.9	20	
71.9	76	4.1	x	x			21	
76	80	4	x	x	x	8.1	22	
80	81.8	1.8	x	x	x	1.8	23	81.8B
81.8	86	4.2	x	x			24	
86	90	4	x	x			25	
90	93	3	x	x			26	
93	97	4	x	x			27	
97	99.1	2.1	x	x	x	17.3	28	
99.1	103	3.9	x	x			29	
103	106.5	3.5	x	x			30	
106.5	109.5	3	x	x	x	10.4	31	
109.5	113	3.5	x	x			32	
113	118	5	x	x			33	
118	123	5	x	x			34	
123	126	3	x	x	x	16.5	35	
126	129	3	x	x			36	
129	133	4	x	x			37	
133	134.7	1.7	x	x			38	
134.7	137.3	2.6	x	x	x	11.3	39	137.3B

137.3	142	4.7	x	x			40	
142	143.7	1.7	x	x	x	6.4	41	
143.7	148	4.3	x	x			42	
148	152	4	x	x			43	
152	155.5	3.5	x	x			44	
155.5	160	4.5	x	x			45	
160	163.2	3.2	x	x	x	19.5	46	
163.2	166	2.8	x	x			47	
166	173	7	x	x			48	
173	178	5	x	x			49	
178	183	5	x	x	x	19.8	50	
183	188	5	x	x			51	
188	193	5	x	x			52	
193	198	5	x	x			53	
198	203	5	x	x	x	20	54	
203	206.3	3.3	x	x			55	
206.3	208	1.7	x	x			56	
206.3	212	5.7	x	x			57	
212	215.5	3.5	x	x			58	
215.5	219.8	4.3	x	x			59	
219.8	223	3.2	x	x	x	21.7	60	
223	228	5	x	x			61	
228	233	5	x	x			62	
233	238	5	x	x			63	
238	242	4	x	x	x	19	64	
242	245	3	x	x			65	
245	246.7	1.7	x	x			66	
246.7	248.4	1.7	x	x			67	
248.4	252.9	4.5	x	x			68	
252.9	258	5.1	x	x			69	
258	263.1	5.1	x	x	x	21.1	70	263.1
263.1	264.3	1.2	x	x			71	
264.3	268.6	4.3	x	x			72	
268.6	271	2.4	x	x			73	
271	275.2	4.2	x	x			74	
275.2	278	2.8	x	x			75	
278	281	3	x	x			76	
281	284.2	3.2	x	x	x	21.1	77	
284.2	288	3.8	x	x			78	
288	291.5	3.5	x	x			79	
291.5	294.5	3	x	x			80	
294.5	298	3.5	x	x			81	
298	301.5	3.5	x	x			82	
301.5	303.7	2.2	x	x	x	19.5	83	

303.7	308.1	4.4	x	x			84	
308.1	313	4.9	x	x			85	
313	318	5	x	x			86	
318	320.6	2.6	x	x			87	
320.6	323	2.4	x	x	x	19.3	88	323.0B
323	326.5	3.5	x	x			89	
326.5	328.5	2	x	x			90	
328.5	331.1	2.6	x	x			91	
331.1	335	3.9	x	x			92	
335	339	4	x	x			93	
339	343	4	x	x	x	20	94	
343	347.4	4.4	x	x			95	
347.4	353	5.6	x	x			96	
353	357.1	4.1	x	x			97	
357.1	361	3.9	x	x			98	
361	364.4	3.4	x	x	x	21.4	99	364.4B
364.4	365.6	1.2	x	x			100	
365.6	369	3.4	x	x			101	
369	373	4	x	x			102	
373	378.1	5.1	x	x			103	
378.1	382	3.9	x	x			104	
382	386	4	x	x	x	21.6	105	
386	387.4	1.4	x	x			106	
387.4	390.8	3.4	x	x			107	
390.8	393	2.2	x	x			108	
393	394.4	1.4	x	x			109	
394.4	400	5.6	x	x			110	
400	403	3	x	x			111	
403	408	5	x	x			112	
408	413	5	x	x			113	
413	415.9	2.9	x	x			114	
415.9	421	5.1	x	x	x	21	115	
421	423.7	2.7	x	x			116	
423.7	428	4.3	x	x			117	
428	433	5	x	x			118	
433	434.6	1.6	x	x			119	
434.6	436.5	1.9	x	x			120	
436.5	438	1.5	x	x			121	
438	442.3	4.3	x	x	x	21.3	122	
442.3	446	3.7	x	x			123	
446	449	3	x	x			124	
449	452.7	3.7	x	x			125	
452.7	458	5.3	x	x			126	
458	463	5	x	x	x	20.7	127	

463	468	5	x	x			128	
468	471	3	x	x			129	
471	475	4	x	x			130	
475	478	3	x	x			131	
478	480.5	2.5	x	x			132	
480.5	484	3.5	x	x	x	21	133	484.0B
484	486	2	x	x			134	
486	490.8	4.8	x	x			135	
490.8	495.8	5	x	x			136	
495.8	499.6	3.8	x	x			137	
499.6	502.8	3.2	x	x	x	18.8	138	
502.8	505.6	2.8	x	x			139	
505.6	508	2.4	x	x			140	
508	513	5	x	x			141	
513	518	5	x	x			142	
518	523	5	x	x	x	20.2	143	
523	528	5	x	x			144	
528	533	5	x	x			145	
533	538	5	x	x			146	
538	543	5	x	x	x	20	146	
543	546.8	3.8	x	x	x	3.8	147	546.8B
546.8	550	3.2	x	x			148	
550	554	4	x	x			149	
554	558	4	x	x			150	
558	563	5	x	x			151	
563	568	5	x	x	x	21.2	152	
568	572.9	4.9	x	x			153	
572.9	578	5.1	x	x			154	
578	583	5	x	x			155	
583	588	5	x	x			156	
588	589	1	x	x			157	
589	589.5	0.5	x	x	x	21.5	158	
589.5	592	2.5	x	x			159	
592	595.2	3.2	x	x			160	
595.2	598	2.8	x	x	x	8.5	161	

Down Hole Survey Data
RS-D356-99

Footage	Measured Bearing	Corrected Azimuth -15.66	Measured Inclination	Calculated Dip
50	78	117.7	99.8	9.8
200	79.9	115.8	99.6	9.6
400	78.5	117.2	99.6	9.6
598	80.5	115.2	99.5	9.5

NDHS7-6.CR5 07/07/99 13:43:38

Point	Northing	Easting	Elevation	Description
1	2,204,459.4030	482,047.8630	4,335.09	nbs2
2	2,204,447.8390	482,028.6020	4,336.95	
3	2,204,487.9690	482,082.8697	4,324.04	D358
4	2,204,533.9691	482,187.1994	4,324.18	D357
5	2,204,560.7399	482,231.2480	4,325.37	D344
6	2,204,561.3731	482,232.1784	4,325.90	D356

15
19
16.2
14.3
RS-D356 -99 BOX02
DEPTH 13_0 - 21.0

12.6
5
10
4
CORE LOSS
RS-D356 -99 BOX01
DEPTH 0_0 - 13.0

48.5
21.3
25
29
RS-D356 -99 BOX03
DEPTH 21_0 - 29.0

45.3
42
46.5
47
48.5
RS-D356 -99 BOX 05
DEPTH 39_0 - 49.0

32
48.5
RS-D356 -99 BOX 04
DEPTH 29_0 - 39.0

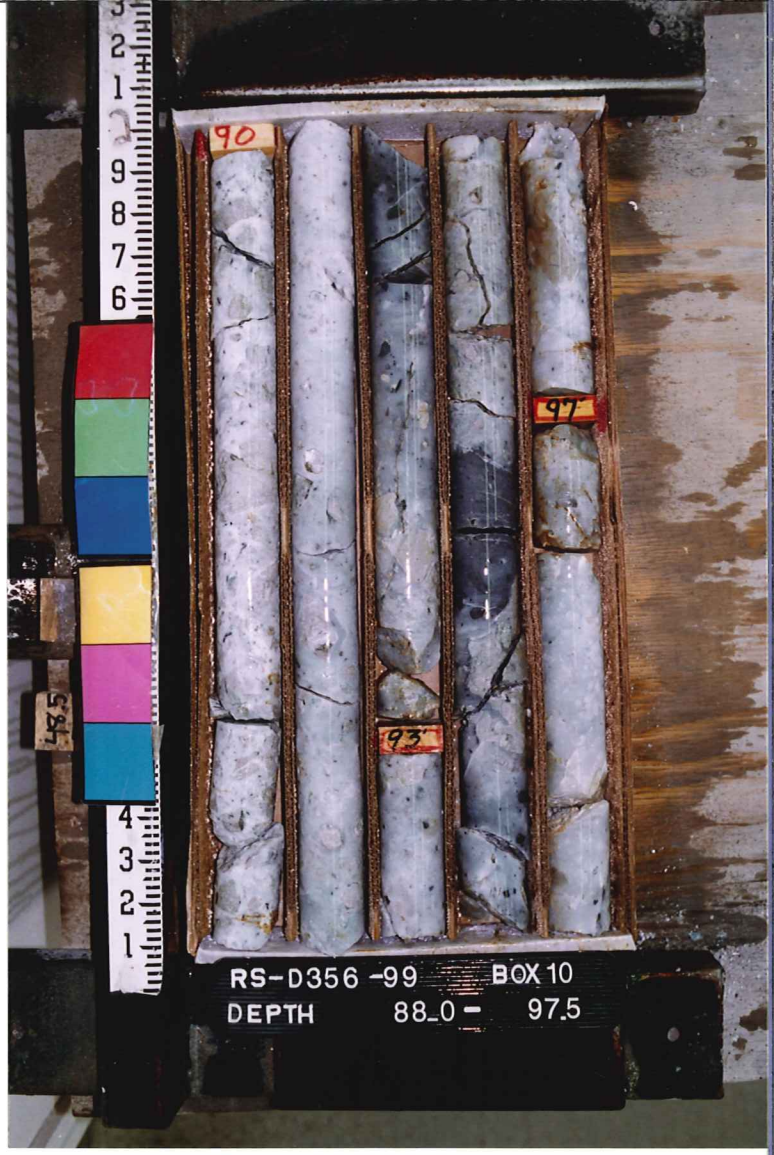
48.5
50.3
RS-D356 -99 BOX 06
DEPTH 49_0 - 58.0

71.9
76
48.5
RS-D356 -99 BOX 08
DEPTH 69_0 - 79.0

63
68
48.5
RS-D356 -99 BOX 07
DEPTH 58_0 - 69.0

48.5
80
81.8
83
86
RS-D356 -99 BOX 09
DEPTH 79_0 - 88.0

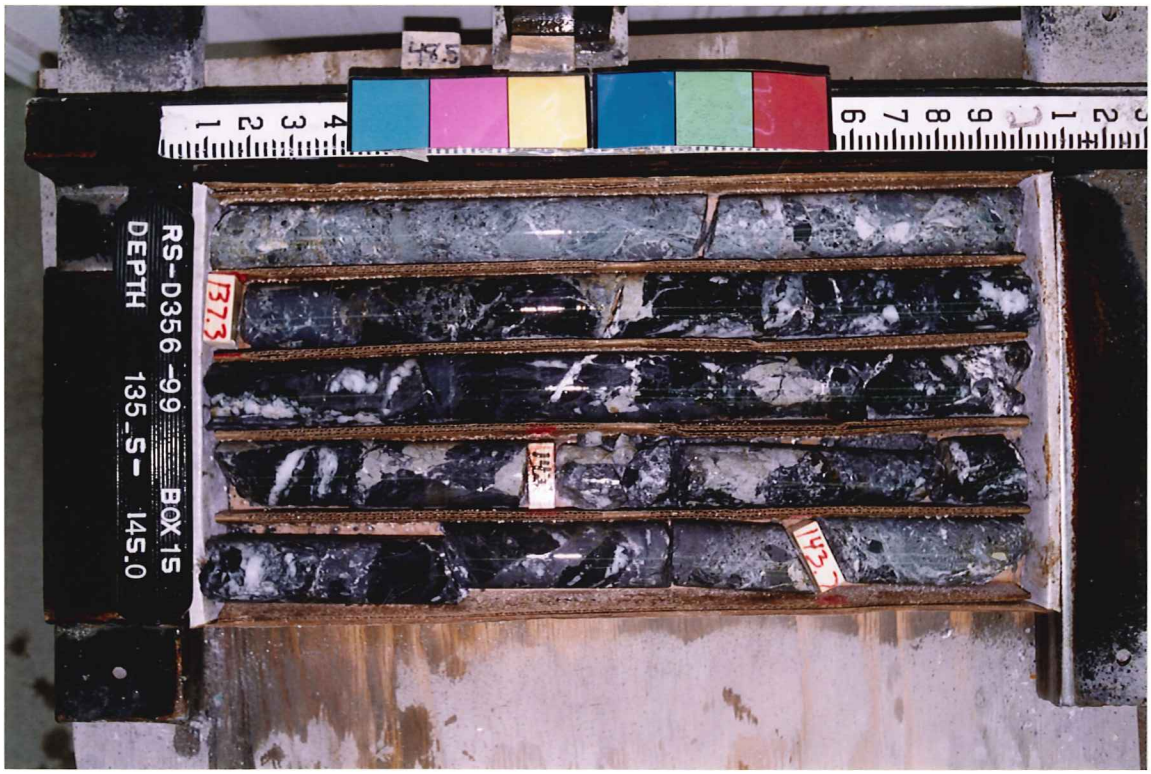
99.1
103
106.5
RS-D356 -99 BOX 11
DEPTH 97.5 - 107.0

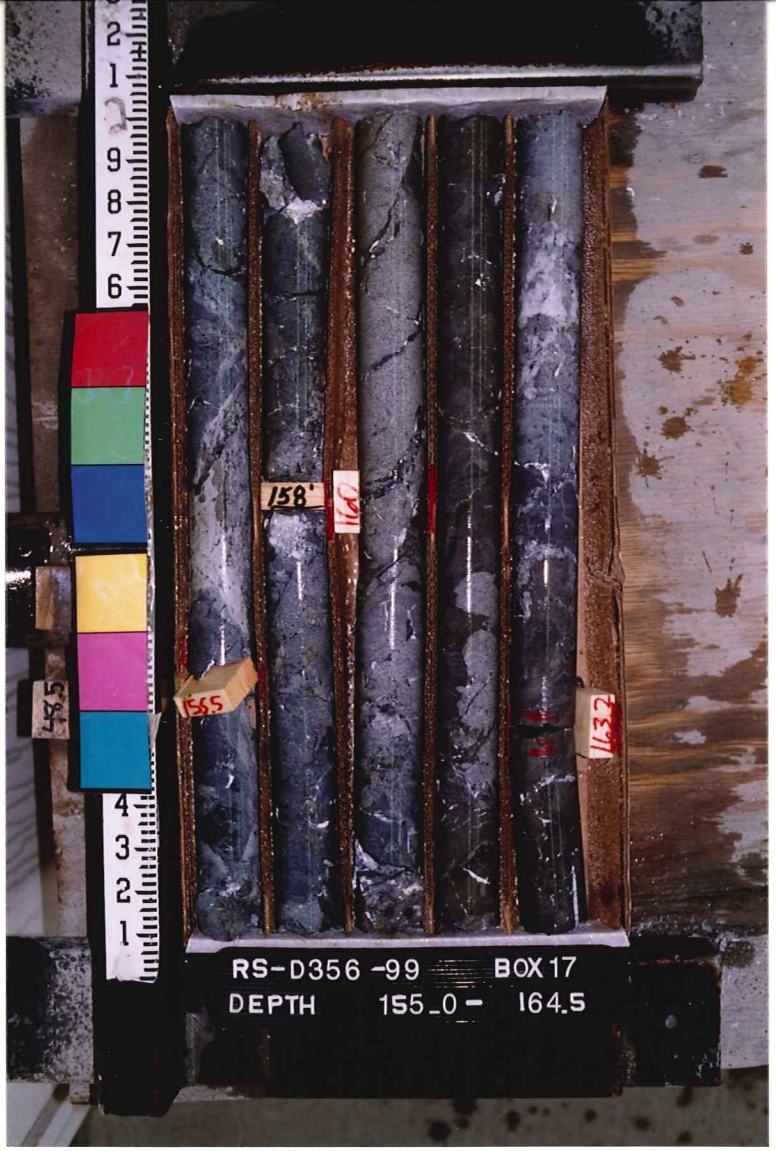

90
97
93
RS-D356 -99 BOX 10
DEPTH 88.0 - 97.5

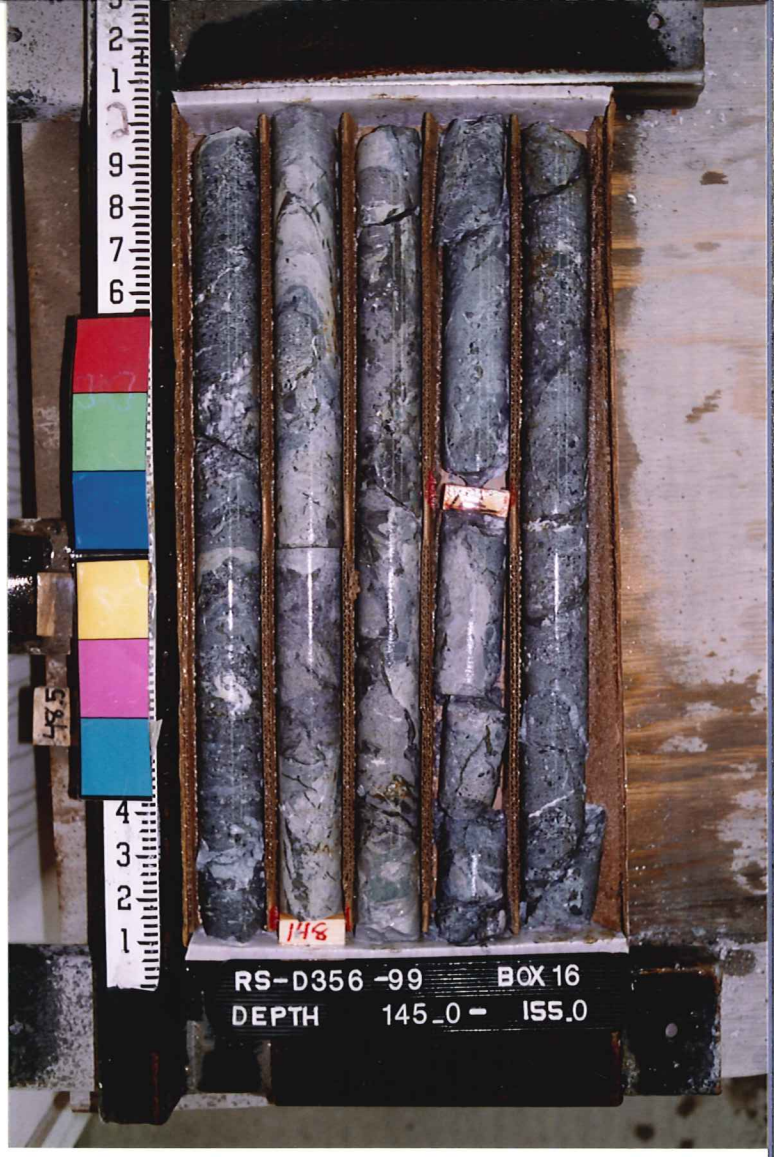
107.5
108.5
RS-D356 -99 BOX 12
DEPTH 107.0 - 116.0

129
133
134.7
126
RS-D356 -99 BOX 14
DEPTH 126_0 - 135.5

118
123
RS-D356 -99 BOX 13
DEPTH 116_0 - 126.0

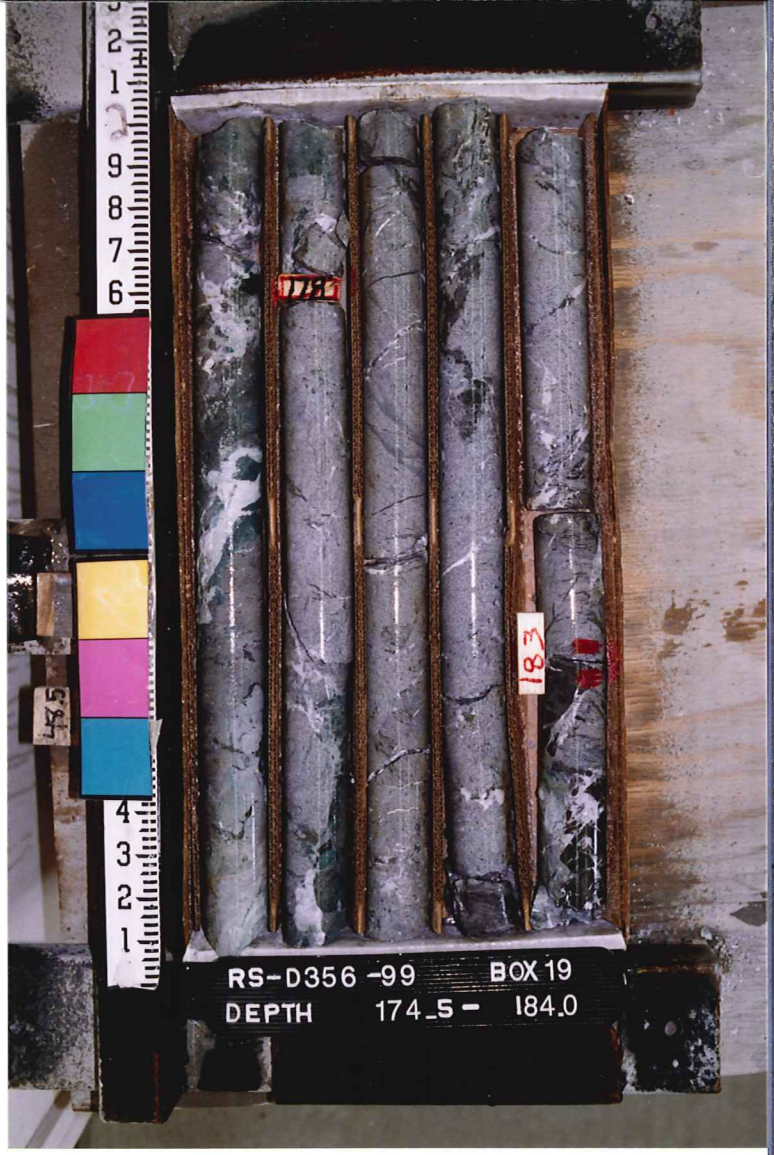

137.3
143
RS-D356 -99 BOX 15
DEPTH 135_5 - 145.0

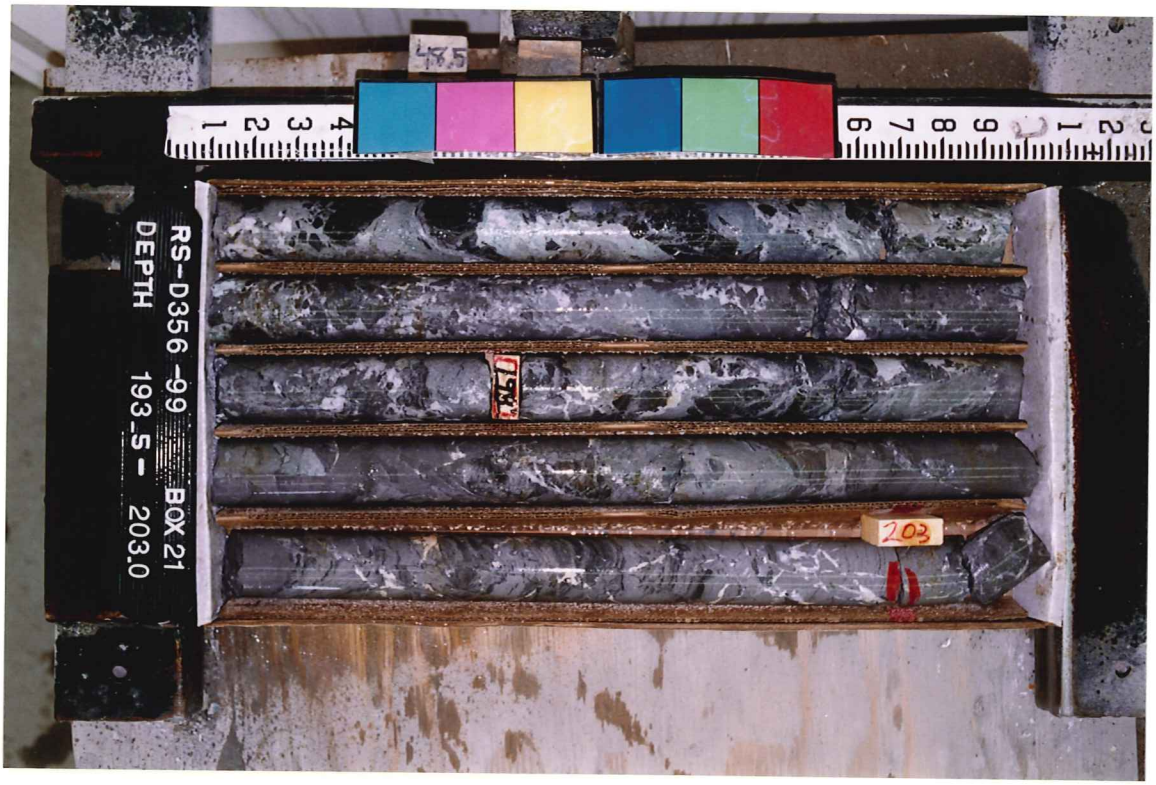

158
160
155.5
163.2
RS-D356 -99 BOX 17
DEPTH 155_0 - 164.5


148
RS-D356 -99 BOX 16
DEPTH 145_0 - 155.0

48.5
166
169.6
Thin Section
173
RS-D356 -99 BOX 18
DEPTH 164_5 - 174.5

RS-D356 -99 BOX 20
DEPTH 184.0 - 193.5
193


RS-D356 -99 BOX 19
DEPTH 174.5 - 184.0
183


RS-D356 -99 BOX 21
DEPTH 193.5 - 203.0
203

214.8
215.5
218
RS-D356 -99 BOX 23
DEPTH 212.5 - 221.5

212
208
206.3
RS-D356 -99 BOX 22
DEPTH 203.0 - 212.5

48.5
223
228
RS-D356 -99 BOX 24
DEPTH 221.5 - 231.0

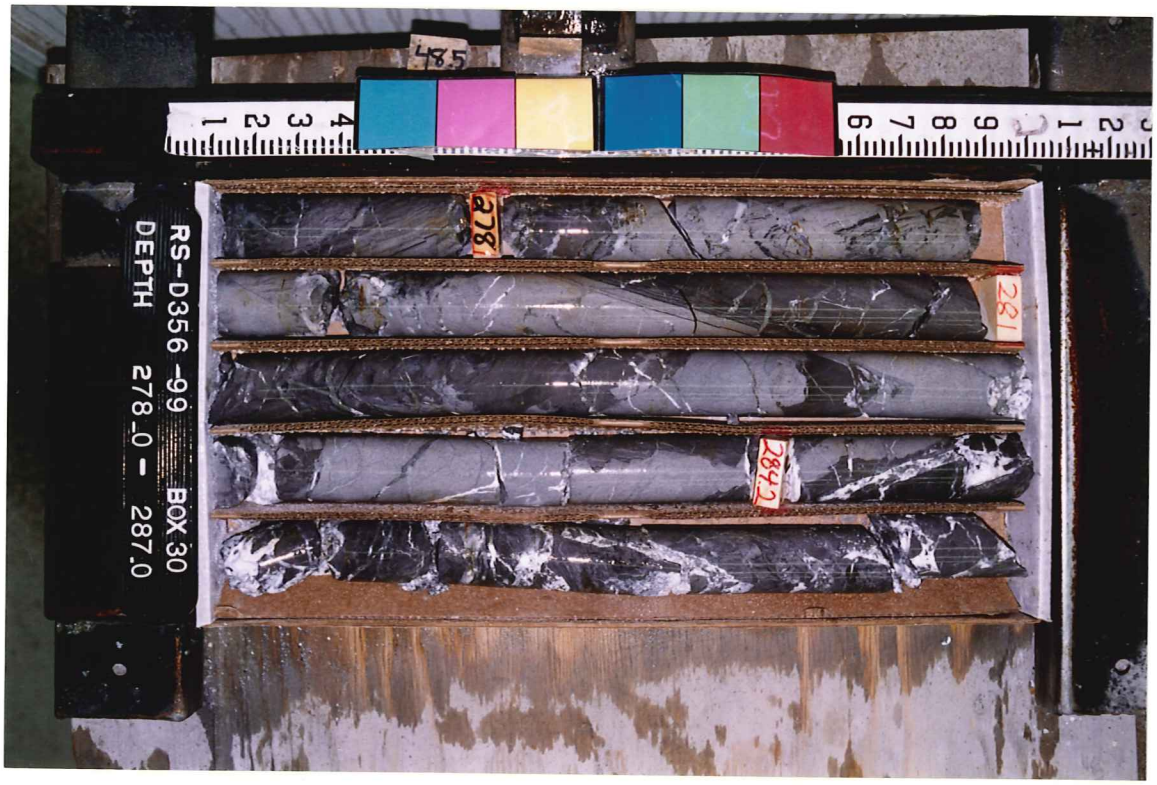
242
245
247
248
RS-D356 -99 BOX 26
DEPTH 240_5 - 249.5

233
RS-D356 -99 BOX 25
DEPTH 231_0 - 240.5

48.5
RS-D356 -99 BOX 27
DEPTH 249_5 - 259.0
258

275.2
271
268.6
RS-D356 -99 BOX 29
DEPTH 268_0 - 278.0

264.3
268
263.1
RS-D356 -99 BOX 28
DEPTH 259_0 - 268.0


48.5
278
281
287.1
RS-D356 -99 BOX 30
DEPTH 278_0 - 287.0

298
301.5
303
297
337
RS-D356 -99 BOX 32
DEPTH 297.0 - 306.0

294.5
288
291.5
RS-D356 -99 BOX 31
DEPTH 287.0 - 297.0

48.5
308
313
RS-D356 -99 BOX 33
DEPTH 306.0 - 315.0

326.5
328.5
331.1
333
RS-D356 -99 BOX 35
DEPTH 324.5 - 334.0

318
321
320.6
RS-D356 -99 BOX 34
DEPTH 315.0 - 324.5

48.5
335
339
343
RS-D356 -99 BOX 36
DEPTH 334.0 - 343.5

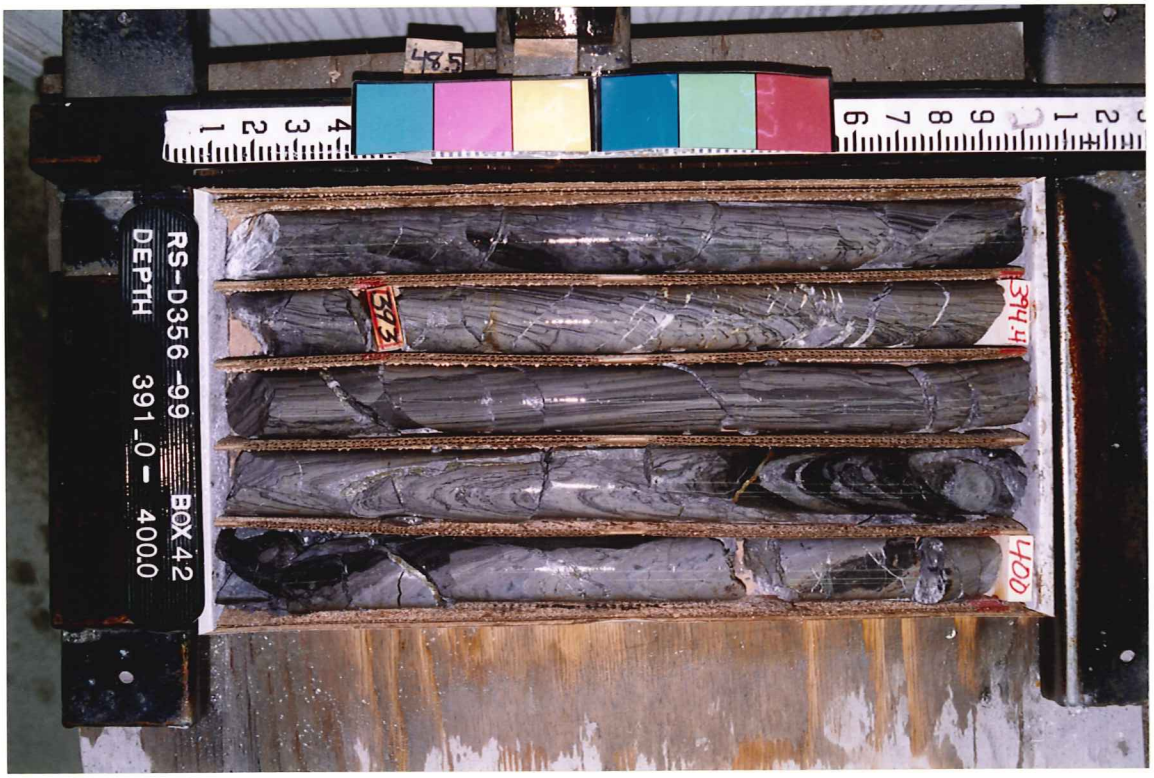
357.1
361
5.84
RS-D356 -99 BOX 38
DEPTH 353.5 - 363.0

347.4
353
5.84
RS-D356 -99 BOX 37
DEPTH 343.5 - 353.5

48.5
363
364.1
365.6
369
RS-D356 -99 BOX 39
DEPTH 363.0 - 372.5

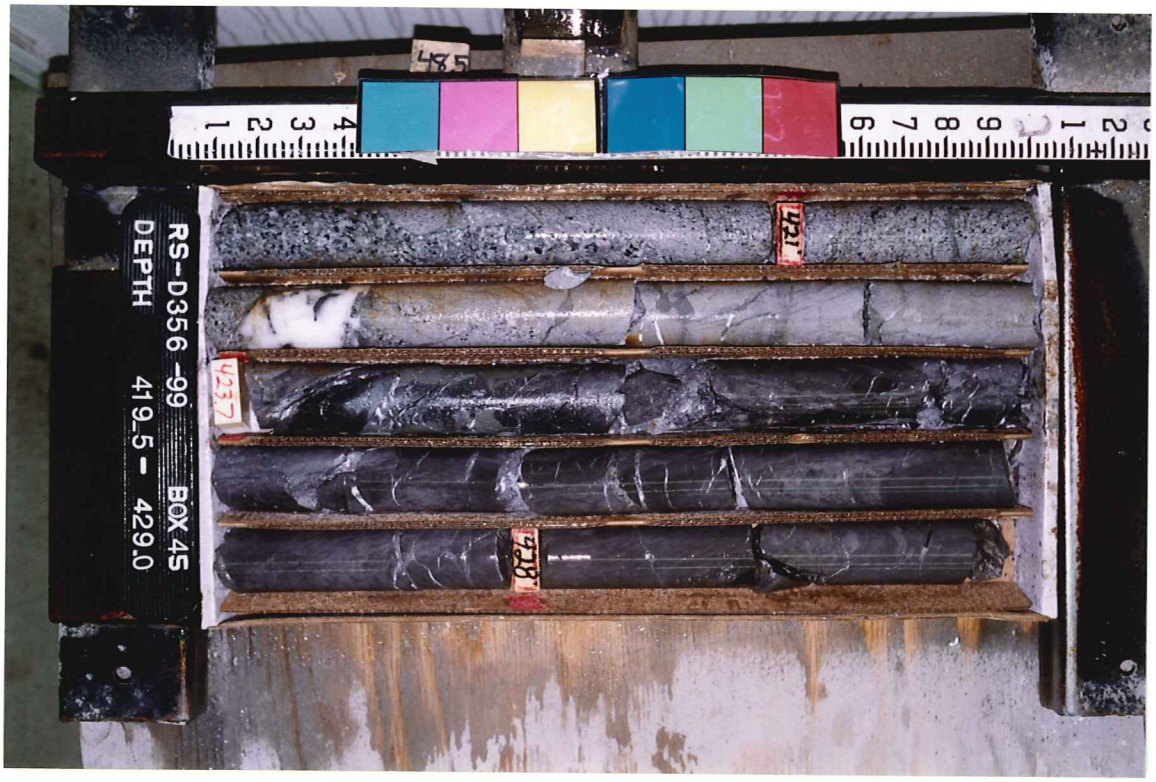
390.8
383
386
382
387.4
RS-D356 -99 BOX 41
DEPTH 381_5 - 391.0

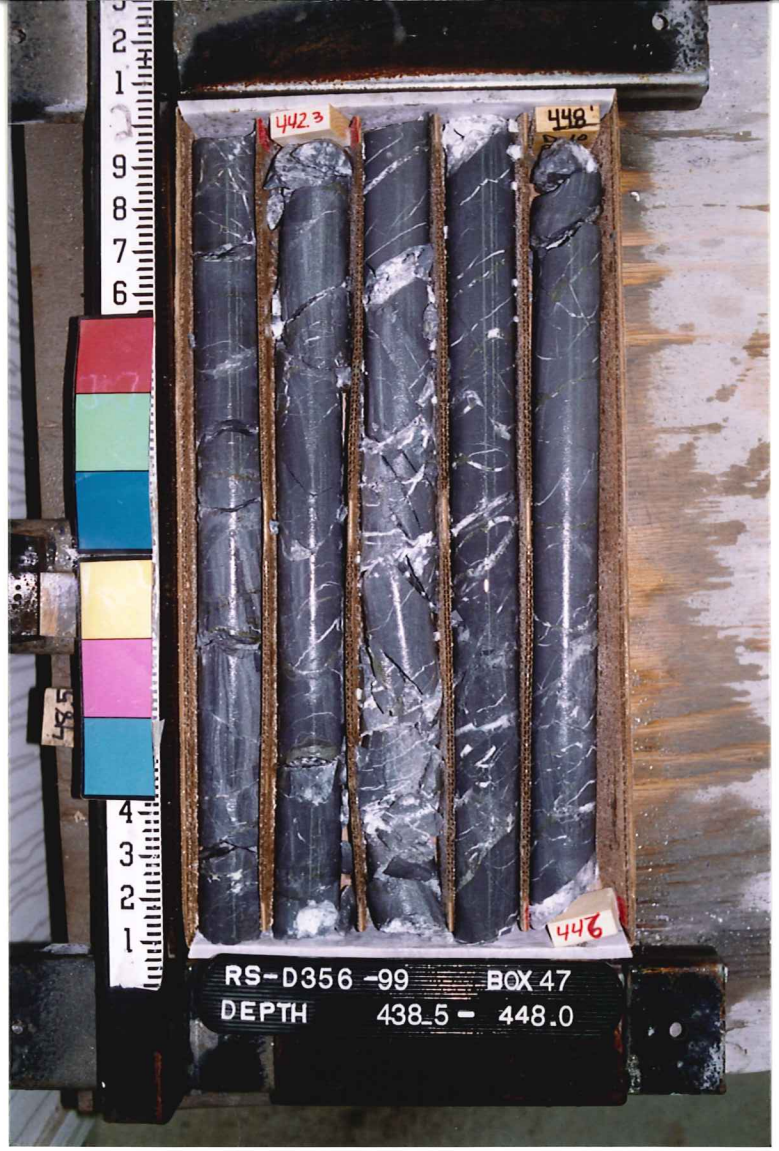
373
378.1
RS-D356 -99 BOX 40
DEPTH 372_5 - 381.5


48.5
393
394.4
400
RS-D356 -99 BOX 42
DEPTH 391_0 - 400.0

415.8
RS-D356 -99 BOX 44
DEPTH 409.5 - 419.5

403
408
RS-D356 -99 BOX 43
DEPTH 400.0 - 409.5


423.7
RS-D356 -99 BOX 45
DEPTH 419.5 - 429.0


442.3
448
446
RS-D356 -99 BOX 47
DEPTH 438.5 - 448.0

432
438
434.6
436.5
RS-D356 -99 BOX 46
DEPTH 429.0 - 438.5

448.5
449
452.7
RS-D356 -99 BOX 48
DEPTH 448.0 - 457.5

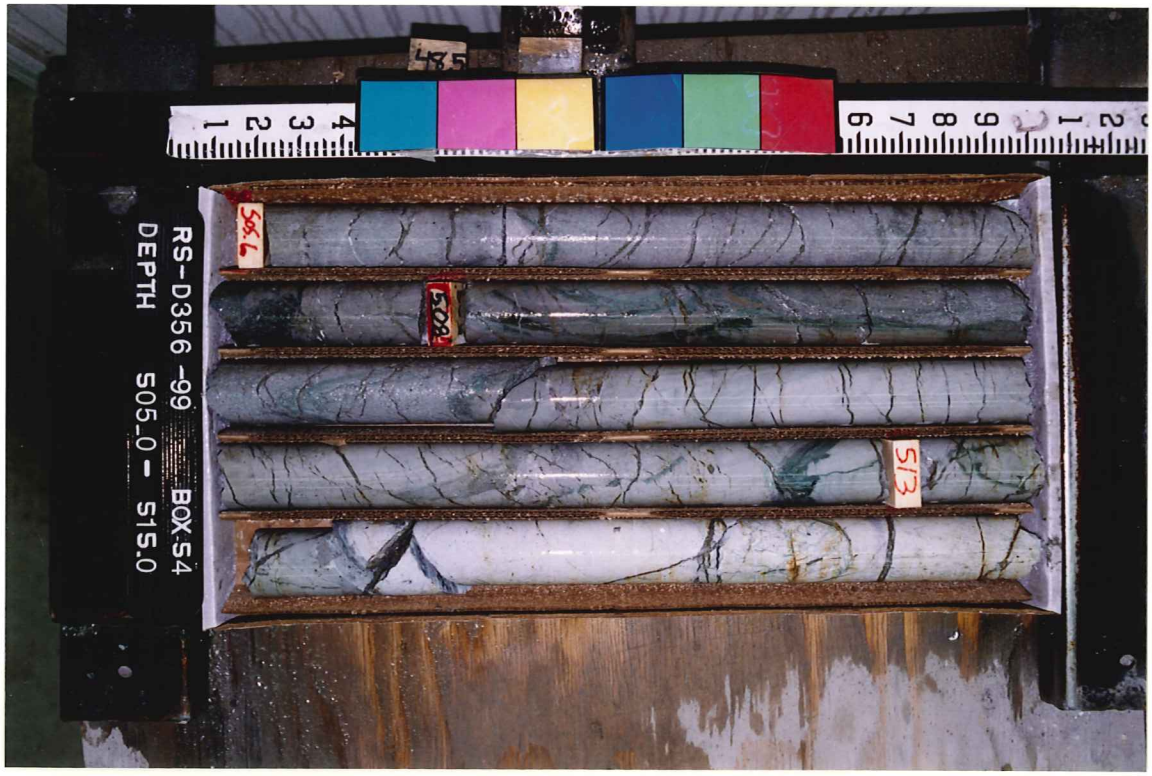
471
475
468
RS-D356 -99 BOX 50
DEPTH 467.5 - 477.0

458
RS-D356 -99 BOX 49
DEPTH 457.5 - 467.5

485
478
480.5
483
486
RS-D356 -99 BOX 51
DEPTH 477.0 - 486.5

499.6
502.8
498'
RS-D356 -99 BOX 53
DEPTH 496.0 - 505.5

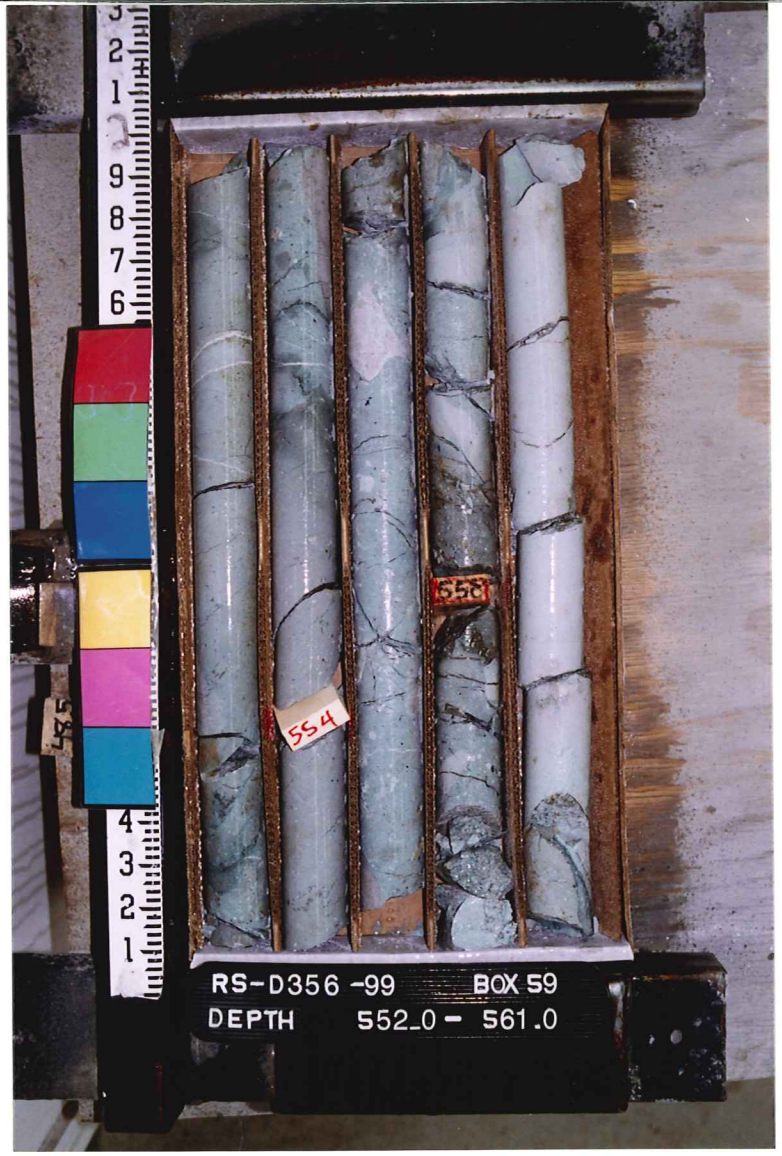
488'
495.8
490.8
RS-D356 -99 BOX 52
DEPTH 486.5 - 496.0


485
506.6
508.4
513
RS-D356 -99 BOX 54
DEPTH 505.0 - 515.0

RS-D356 -99 BOX 56
DEPTH 525_0 - 535.0
533

RS-D356 -99 BOX 55
DEPTH 515_0 - 525.0
518
523

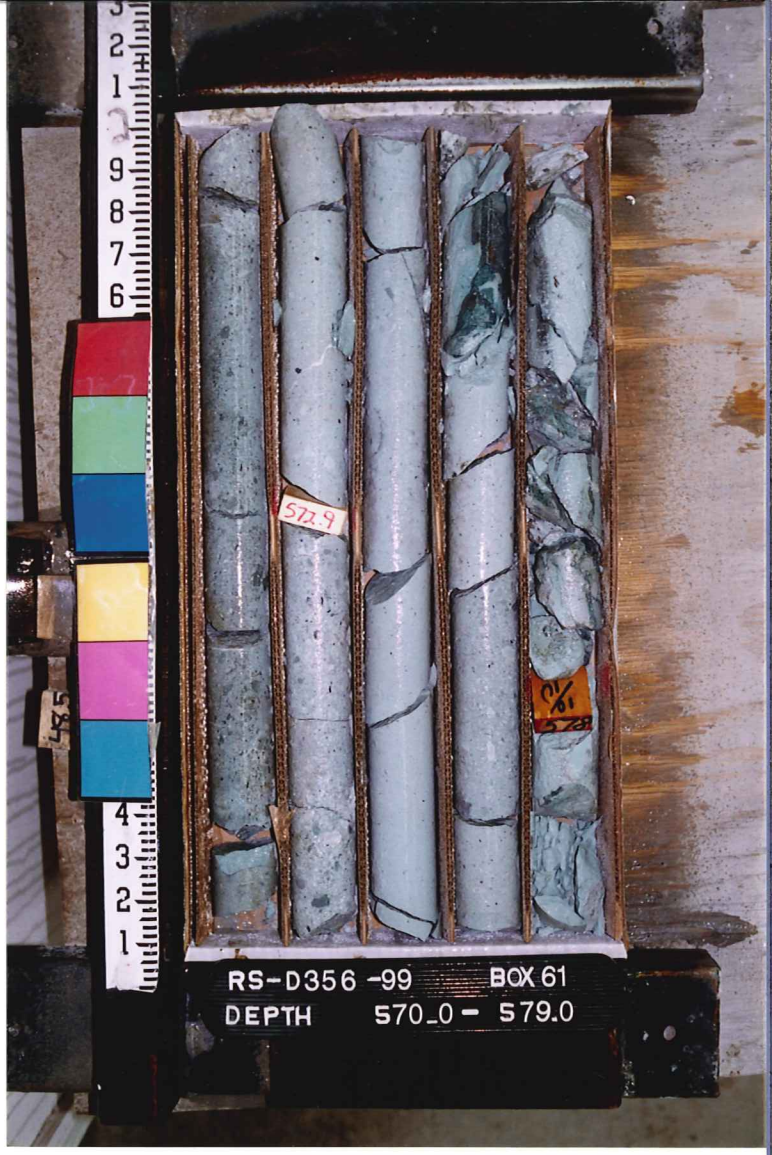
RS-D356 -99 BOX 57
DEPTH 535_0 - 543.0
543

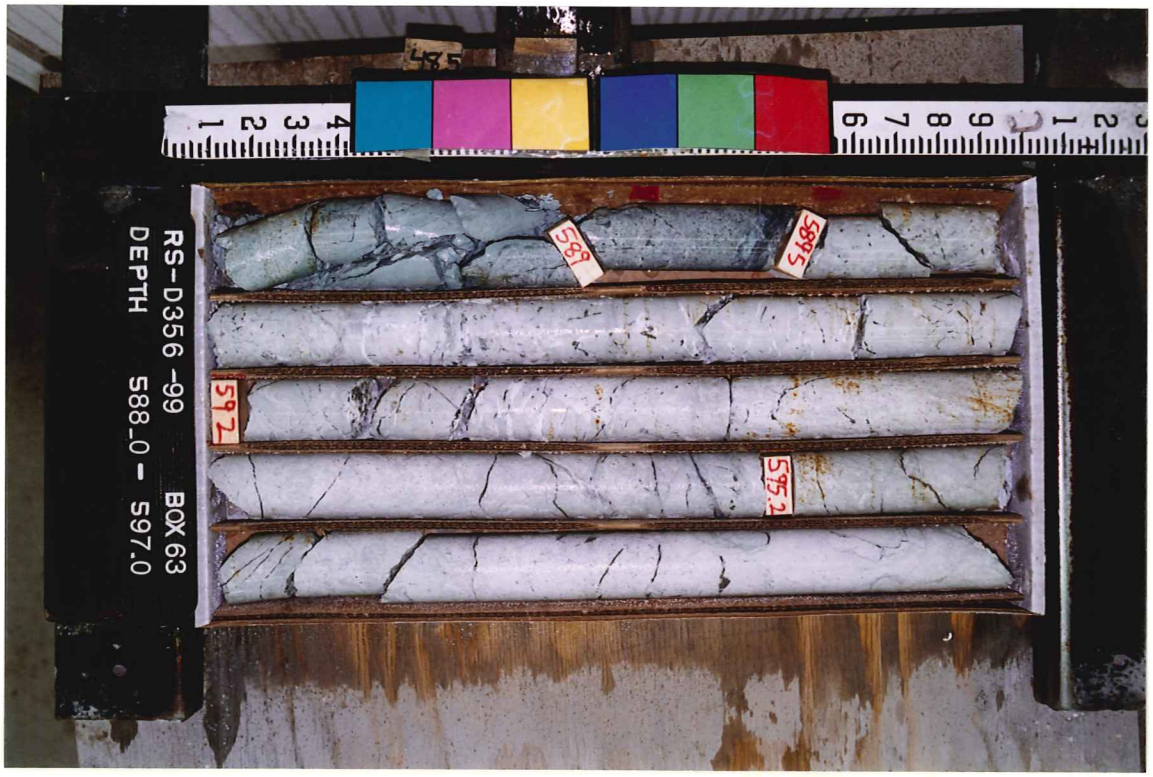

554
558
RS-D356 -99 BOX 59
DEPTH 552_0 - 561.0

550
548
546.8
RS-D356 -99 BOX 58
DEPTH 543_0 - 552.0

565
568
RS-D356 -99 BOX 60
DEPTH 561_0 - 570.0

RS-D356 -99 BOX 62
DEPTH 579_0 - 588.0
583
528


RS-D356 -99 BOX 61
DEPTH 570_0 - 579.0
572.9
528


RS-D356 -99 BOX 63
DEPTH 588_0 - 597.0
588
589.5
592
595.2

RS-D356 -99
BOX 64
DEPTH 597.0 - 598.0
323
598

WELL RS-D356-99

DEPTH 50' (collar)

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

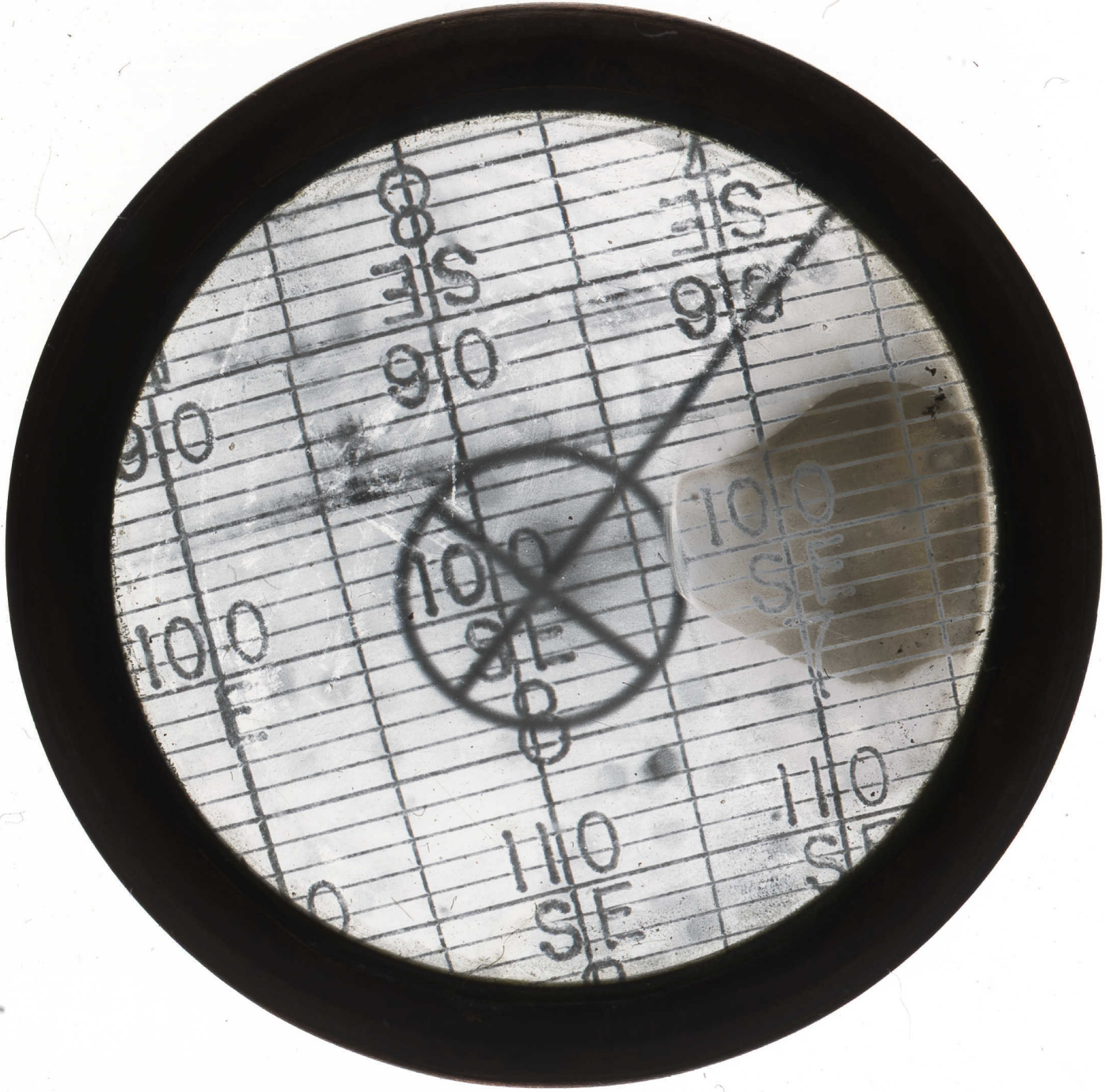
RUN BY D.K.

DATE 5-22-99

CHECKED BY

sperry-sun

DRILLING SERVICES


100
SE
110
SE

WELL R5-0356-99

DEPTH 598'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

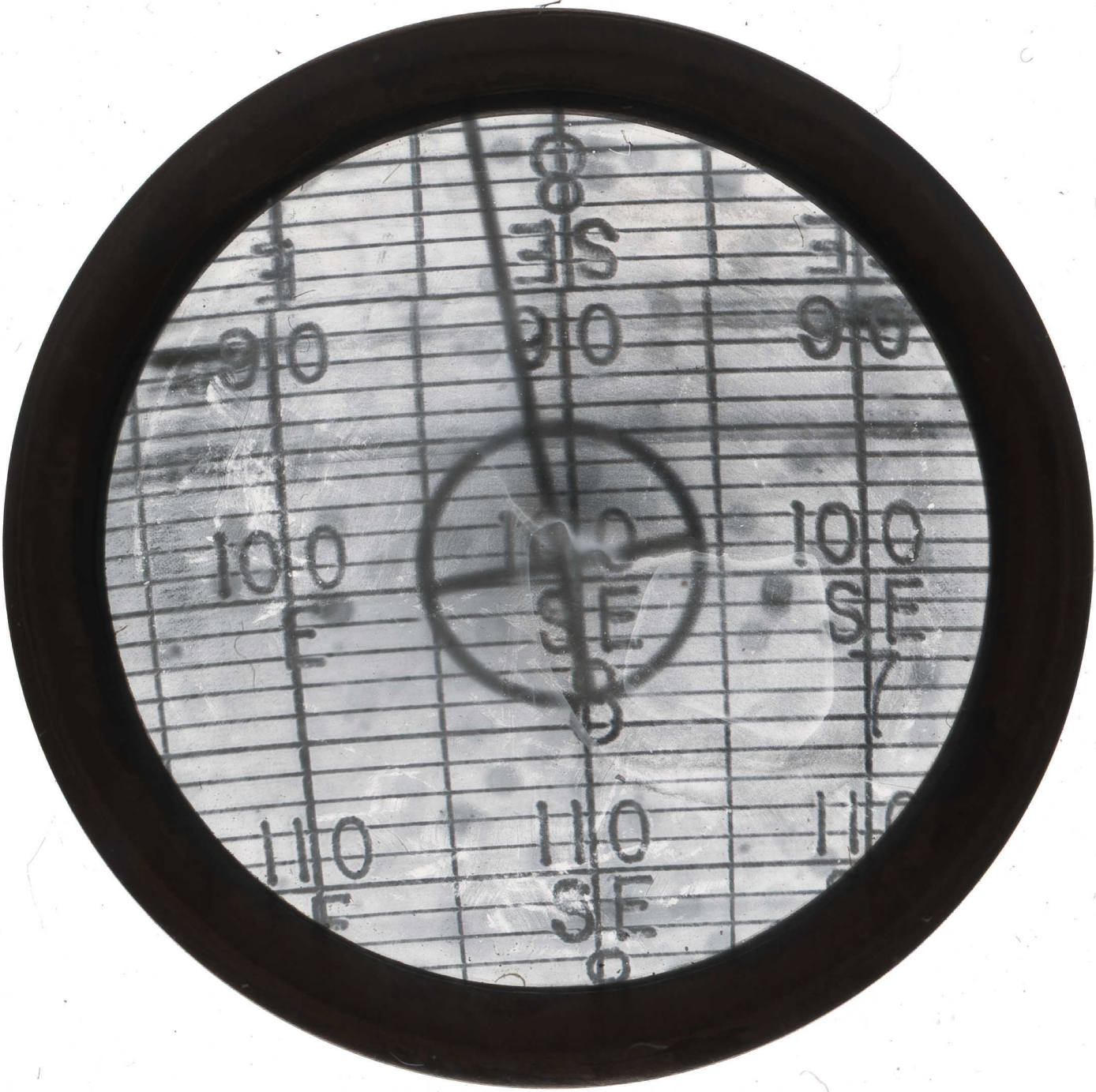
RUN BY D.K.

DATE 5-22-99

CHECKED BY

sperry-sun

DRILLING SERVICES


90
100
F
110
F
90
100
SE
110
SE
90
100
SE
110

WELL RS-D356-99

DEPTH 200'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

RUN BY DK

DATE 5-22-99

CHECKED BY

sperry-sun

DRILLING SERVICES

90
SE
100
SE
110
SE

WELL RS-D356-99

DEPTH 400'

PICTURE NO.

INCLINATION

OBS. DIR.

COR. DIR.

TOOL FACE

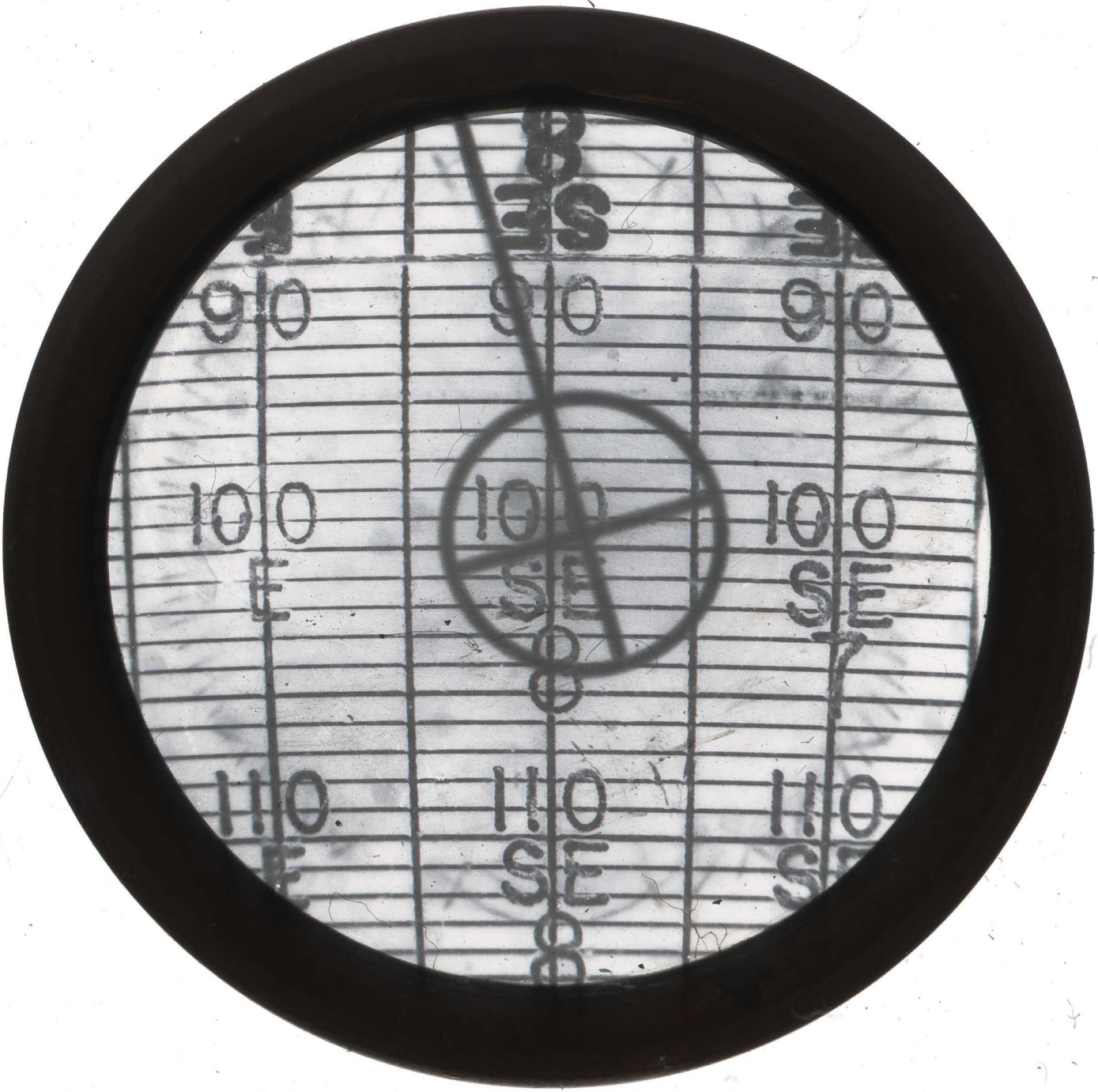
RUN BY D.K.

DATE 5-22-99

CHECKED BY

sperry-sun

DRILLING SERVICES


90
100
E
110
90
100
SE
110
SE
90
100
SE
110