60001138

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-D341-99
AUTHOR	D. Mackeirow; G. Ballew; R. Vance; K. Allen; L. Macleodon
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.; Newmont Exploration Ltd
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 82p. 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-D341-99

341

60001138 4010

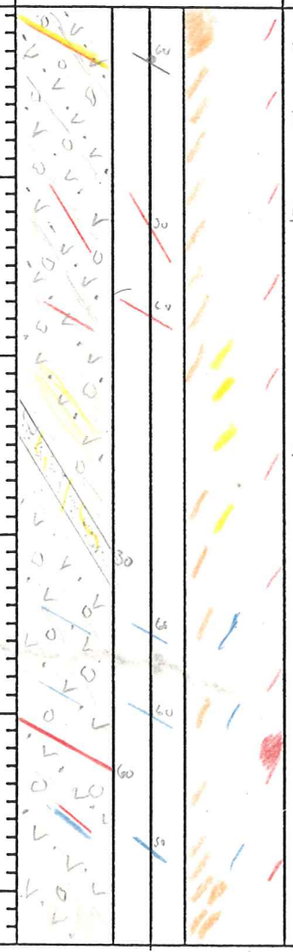
6060 1138

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

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

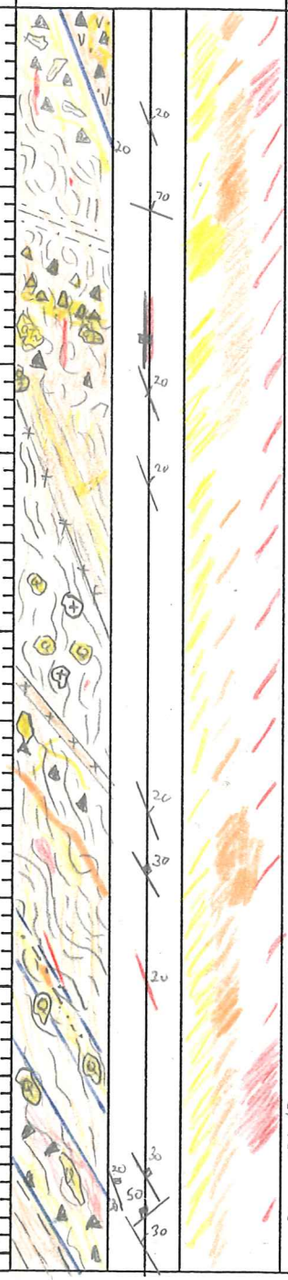
HOLE NUMBER	RS-341-99	LOCATION	North Zone X-Cut 147S	REMARKS	
PAGE 1 OF 9		NORTHING			
DATE	3-9-99	EASTING			
LOGGED BY	D.G. MacKerron	ELEVATION			
SCALE	1" = 10'	AZIMUTH	S 55E		
TOTAL DEPTH		INCLINATION	-14		

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	A
TOS	R	"TOS" LITHIC ASH FALL TUFF 0-120.5 LAPPILLI TUFF Lithic tuff is light to medium green in color. clast average ≈ 1/4". The tuff has a volcanic clay matrix and the clast and partially supported. Locally clast decrease in number and silty sized interbed present. Clast can be selectively argillized with lightest colored clast altered the most. Orientation of Tuff is not determinable but contact with finer sediments was steep (80° tca)	10 20 30 40 50		3.5' 2" banded qtz/sulfide vein 3' series of 60° fine fractures 13.5 30° tca pyrite veinlet 26.5 contact with fine grained tuff at 30° tca Marcasite and clay vein 60° tca	0-22 Calcite veins are present but widely spaced. Pyrite is disseminated through the tuff and concentrated along margins of the calcite veins. Core is weakly argillic. 21-22 Core becomes partially silicified and and fine qtz veinlets. 26 → Marcasite and Pyrite present with the qtz. 41.8 - 1" marcasite vein with clay 50 - Argillization increase and qtz veins with open space (vugs).	0 5 10 15 20 25 30 35 41.3 43.5 47.5 50	5 10 15 20 25 30 35 41.3 43.5 47.5 50 55					

HOLE NUMBER RS-D341-99 PAGE 2 OF 9

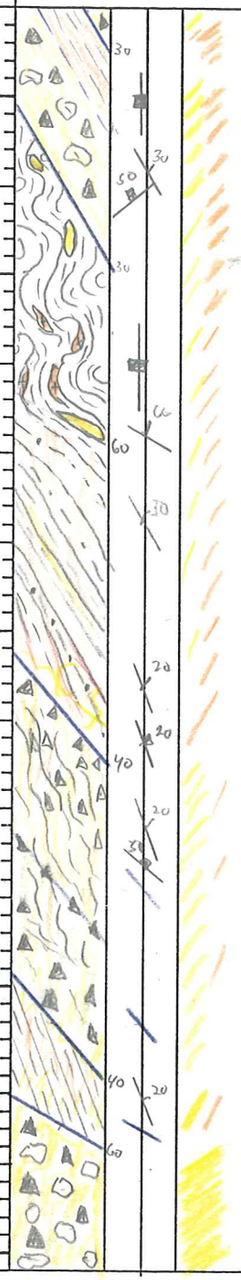
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
TOS	R	0-120.5 "TOS" LITHIC ASH FALL TUFF Light to medium green tuff continues. Tuff is weak to moderately argillized. Local silicification is associated with higher density qtz veins. 64.7-66 Dark green clay matrix 66-67.5 Fine grained low density lithic density 106-110 Silicified clast in tos 110-116.5 Silicified TUFF in hanging wall of fault. upper contact of silica zone was lost. Silica zone is v heated Bxu with opaque qtz flooding Bxu. Marcasite is up to 5%. White clay coats the fractures. Foliation of silica zone is 50° tca 116.5-120.5 Extreme clay highly argillized with 2-5% silicified clast. Pine 114.5	60 70 80 90 100 110 120		55-58 Narrow fracture zone with orientations of 30° to 50° tca 59-60 QTZ stockwork *110-120.5 South Ridge Fault 117-120.5 Gouge Zone with silicified clast in shaved clay 120.5 contact with ALS 20° tca	49-58 Argillization continues at moderate levels. 59-62 Pyrite increase to moderate level 83 Marcasite coats fracture surfaces 95-106 Argillization increases to moderate level 103 Kaolinite/Dickite on fracture 111 Barite in fracture 114.5 Pine white clay matrix in Bx 105-116 - S.R.F. Silicification 116-120.5 Heavy Argillization	50 55 60 65 70 75 80 85 90 95 100 105 110 114.5 116.5	55 60 65 70 75 80 85 90 95 100 105 110 114.5 116.5 120.5					

HOLE NUMBER RS-D341-99 PAGE 3 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
A.L.S.	R	120.5 - 263.6 A.L.S. SHALE BLACK SHALE with very fine silty interbeds. The rocks are highly sheared and disrupted by the S.R.F. Shale is either argillized or silicified. Large qtz veins up to 1' thick. 131-132 course silt to fine sand interbeds 148.7-148.8 .1' of fine aphanitic felsic intrusive dipping at 20° tca 143.5 Shale has remnant traces of former phillitic texture 152-158 Silicified fine grained intrusive clast (Pina 163.5) 160 - 160.2 Felsic Intrusive	120 130 140 150 160 170 180 190		Highly disrupted and brecciated shale in South Ridge Fault. 145 - Bedding orientation is 0-20 but totally disrupted by 146' Bedding is disrupted and approaches Crackle Bxa in intensity 159.5 - 20° tca Fracture with slicks 90° tca this is also ⊥ to dip 175-178 QTZ clay siltstone shear dipping 30° tca Fault? 182-188 Fault with milled Bxa, 30° tca Shears/Fx with dip slip 30° tca 186 20° tca fracture with 30° tca slips	ALS. has pyrite fragments up to 5% at 124. Sulfide appears as a mixed pyrite marcasite 138 - light blue clay at 137.5-138 but not enough to get sample 145.5-145.7 silicified shale has gash fractures 145.7 A long zone of mix silicification and argillization. 163.5 white clay vein .3' thick Pina sample 158 Graphitic bedding surfaces begin 162 Pyrite coated marcasite in vug 174.5 Bedded pyrite 1/4" thick.

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
120.5	125				
125	130				
130	134				
134	139.5				
139.5	145				
145	150				
150	155				
155	160				
160	165				
165	170				
170	175				
175	180				
180	185				
185	188				
188	192.5				

HOLE NUMBER RS-D341 PAGE 4 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
ALS.	R ↓	120.5-263.6 SHALE AND PHILLITIC SHALE WITH TUFFACEOUS SILTY INTER BEDS Dark gray shale continue 188-190' Bedding is not disrupted. Dips are 30° tca Fracture are ⊥ to bedding dipping 50° tca. Tuffaceous reworked siltstone inter bed are present. Silty beds contain more diagenetic(?) pyrite than the shale/phillite. 192.5-195 Very small fragments (¼" dia) of intrusive trapped in Shale 200-213.4 Highly contorted bedding with micro folds. Intrusive is Present as then boudened fragments along beding 220-223 - Very silty series of beds 261.6 milled Bxa shows foliation 30° tca	190 200 210 220 230 240 250 260		190-195 0° tca Fracture, Slipes 50° tca 192.5-199 milled Breccia 204-213.4 Bedding highly contorted and locally micro folded 229-247 Crackle to Mosacic Bxa fault zone, Shears truncate bedding QTZ heals all of the Bxa, Minimal Rotation Shatter effect Fracture weakens from 236-241 252-263.6 Hanging Wall Fault to INTRUSIVE. SILICA Healed Mosaic Bxa Milled Bxa From 262 to contact	White clays probably kaolinite/Dickite suite, Pyrite with Marcasite coating and "shiny" pyrite in vugs. Drusy qtz on vug surfaces 190-200 Argillization moderate levels with white qtz in argillized rock 200-213.4 Argillized INT. and silty beds with white qtz frags. 222-223 silicified siltstone bed. 225-230 numerous bedded pyrite layers 228- Silicification begins in hanging wall of intrusive that begins at 263.6 locally argillized weakly silicified shale is present 252 - Pyrite coated Marcasite 253.5 Stibnite needles in vug

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
188	192.5				
192.5	195				
195	200				
200	205				
205	210				
210	213.4				
213.4	215				
215	220				
220	225				
225	229				
229	235				
235	240.2				
240.2	244.1				
244.1	247				
247	250				
250	252				
252	255				
255	257.8				
257.8	261.6				

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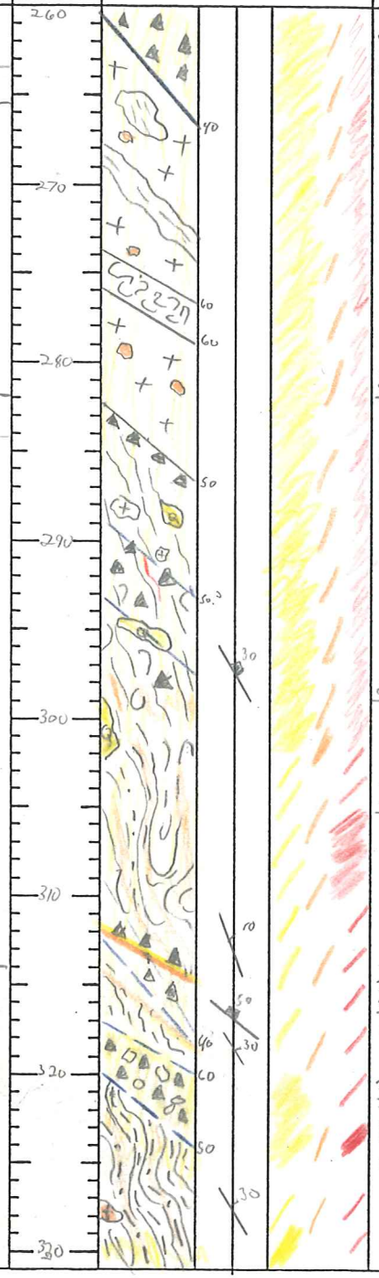
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
ALS	R	120.5 - 263.6 SHALE / PHYLLITIC SHALE ALS			257.8 - 261.6 Milled Bxa contact healed with silica	Intrusive has Vug coated with Druzy Quartz and containing Marcasite and kaolinite/Dickite.
INT.		263.6 - 284.6 FELSIC INTRUSIVE Pinu - 265.3 Light gray silicified aphanitic intrusive. Fragments of ALS. Shale have been caught up in the Intrusive Contacts are sharp. White Clay present in fracture and vugs Pinu			284.6 - 305 bedding is brecciated or highly disrupted. A distinctive fault plane or orientation is not apparent	244 - Marcasite increase through the intrusive and continue in vug as blades Pinu from vug at 265.3 and 282 Footwall silicification continue to 302 for a total zone of 229 - 302.
ALS	R	284.6 - 600 SHALE / PHYLLITIC SHALE ALS. Continues as before Highly disrupted below the Intrusive, Small intrusive masses caught in shale 305 - 312 Rework Tuff derived course siltstone interbedds 327 - 328 INTRUSIVE 50% of core Pinu 314.2 Graphitic coating on bedding surface are more apparent below 330'.			298 30° tca fracture with slicks 60° tca 313.2 - 315 QTZ healed crackle Bxa. 2" clay and QTZ healed Bxa at 314.2' 318.5 - 322 Mosaic QTZ healed Bxa 323 Gash fractures perpendicular to bedding silicification related	306 - 308 QTZ VEIN Vein with marcasite in vugs 314.2 White clay sampled for Pinu Druzy qtz continues to coat fracture surfaces, to 325 345 - 347 Elevated Marcasite and Pyrite forming veinlets



ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
257.8	261.6				
261.6	263.6				
263.6	266.5				m
266.5	268.6				Int
268.6	270				sed
270	275.1				Int
275.1	277.5				"
277.5	281				Int
281	284.6				Int
284.6	288.3				
288.3	291.6				
291.6	295				
295	300				
300	305				
305	310				
310	313.2				
313.2	315				
315	318.5				
318.5	322				
322	325				
325	330				

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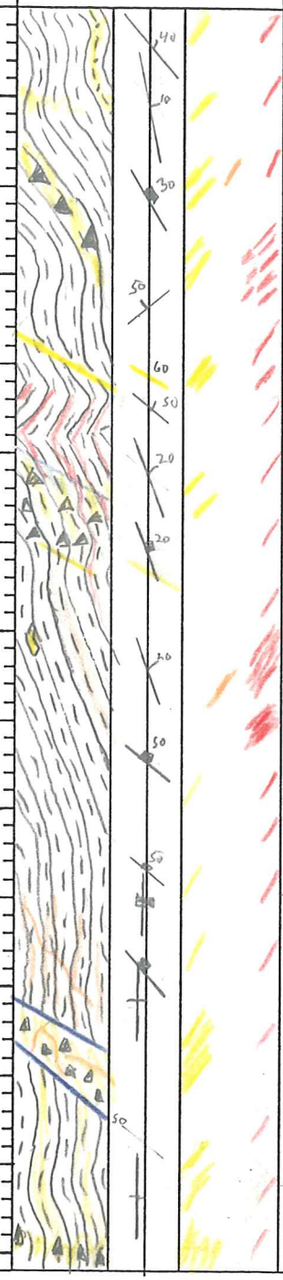
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
ALS	R	284.6 - 600 SHALE / PHILLITIC SHALE with reworked Tuffaceous Siltstones. Dark gray shale continues as above. Bedding is high angle but intermittently disrupted 354 - 355.8 Reworked Tuffaceous material forming course siltstone 375 - 387 Rubble in boxes with white clay coating surfaces Hang wall fracture to crachle Bxa zone 387 - 390	330 340 350 360 370 380 390 400 Pima 396		339-341 Crachle Bxa / QTZ stockwork 349.7-350 white QTZ VN 60° TCA 350 - 352 Folded bedding 355.8-360 QTZ stockwork almost Crachle breccia 365-368 moderate level crachle Bxa with clay and Pyrite matrix Fracturing increase from 365 382 - 390 increasing Fracturing to 388 388-390 Crachle Bxa 398-399 CRACHLE BXA	330 - 345 SPOTTY silicification 335 - 355.8 Low amounts of white clays on some fracture 355.8 - 400 white clay increase on fractures Reaching a maximum at 394 to 398. 343.1-347.3 Elevated Marcasite with Pyrite in veins with qtz 355.8 - 362 white clay filling small vugs/gashed 365 - 370 white clay, with bedded pyrite and marcasite coatings 395.2 - 396.1 White clay vein clay is brittle. 396 - Pima white clay	330 335 339 343.1 347.3 350 355.8 360 365 370 375 380 384 387 390 394 398	335 339 343.1 347.3 350 355.8 360 365 370 375 380 384 387 390 394 398					

HOLE NUMBER RS-D341-99 PAGE 7 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
A.L.S.	R	284.6-600 SHALE / PHILLITIC SHALE 409-411 Open cavity drilled. Sculted a void. Drozy qtz coating Vug. Pyrite couting marcasite bluder ≤ 40° recovery 410-420 ≤ 70° Recovery 420-430 414-420 marked as No sample where core loss was thought to be located 420-426.2 High carbon decalcified very soft argillized shale	400 410 420 430 440 Pimo 445 450 460 470	CORE LOSS ESTIMATED Location	402.2-404.2 QTZ HEALED CRACKLE BXA 412.5-414: 1" thick mosaic bxa healed by qtz. Appears to follow bedding 437.6-438.9 QTZ stockwork of very fine veinlets. This is the begining of upcoming fault 438.9-454.5 INCREASING QTZ VEINS Locally approaching crackle Bxa 454.5-481.5 Fault zone with mixed mosaic and milled bxa. Large qtz veins fragments 464 Fracture 20° tca With slicks 20° tca	420-437.6 Highly argillized Probable strong-calcs 414-426 420-437.6 INCREASED Carbon content Polished graphitic bedding surface 438.5 - ½" Pyrite masses 445-Pimo white clay hard and crumbly 445-450 white clay fractures with QTZ 40° tca 454.5-468.4 Mixed silicified and weakly argillized shale 468.4-481.5 SILICIFIED clast and matrix. Marcasite and pyrite

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	
398	402.2					
402.2	406.2					
406.2	409					
409	411.5					
411.5	414					
414	420	NS				
420	426.2					
426.2	430					
430	434					
434	437.6					
437.6	441					
441	445					
445	450					
450	454.5					
454.5	460					
460	465					
465	468.4					
468.4	473.5					

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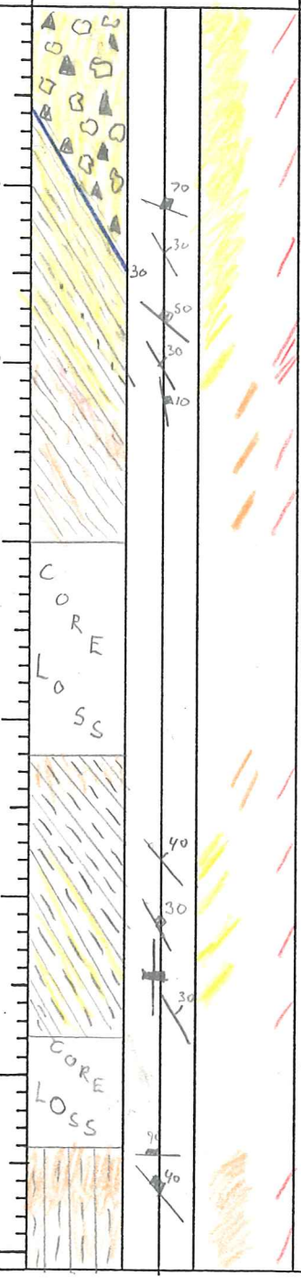
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
ALS	R	284.6-600 SHALE / PHILLITIC SHALE AND SILTSTONE From 488.9 to 590 sample lengths effect by recovery. See the Geotech log for detail 488.9 - 515 very uniform fine shale absorbs H_2O. 490-500 90% core loss sample was only 1' of rubble	470 480 490 500		480 FOLIATION OF SILICA MILLED BXa 30° TCA 480-481.5 Curved fracture coated in white clay 488.9-556 Bedding remains high angle ≈ 30° TCA No large breccias or disruptions are apparent	468.4 - 481.5 Vuggy white qtz healed fault bxa 488.9 decalcification of shale becomes apparent. Core slowly absorbed H_2O 490-491? Heavy pyrite possibly diagenetic with elevated carbon 488.9 - 586 decalcified shale and siltstone, moderate to heavy 518 - 526 silicification with minor QTZ VN 526 - 543 decalcified and lightly to moderately argillized shale
		500-512 Core Loss No RECOVERY	510			
		512-528	520			
		528-534 CORE LOSS No RECOVERY	530		534-537 Very "Platy" or Fissile beds 1 mm thick. Most were lost by drill	
			540			

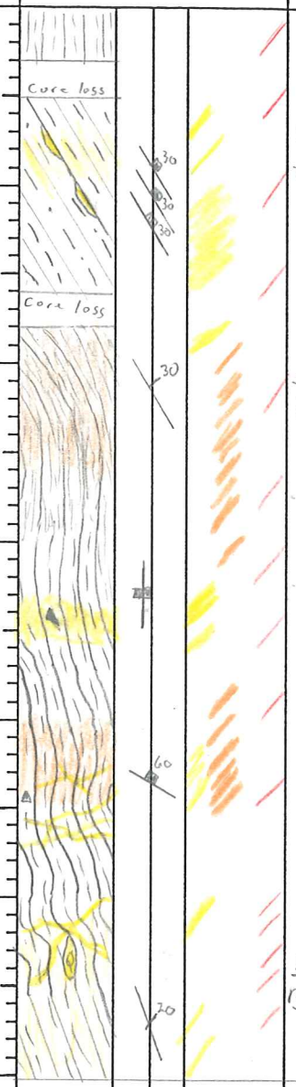
ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
468.5	473.5				
473.5	476.5				
476.5	480				
480	481.5				
481.5	486				
486	488.9				
488.9	490				
490	500				
500	512	N.S.			
512	515				
515	518				
518	521				
521	524				
524	526				
526	528				
528	534	N.S.			
534	537				
537	540				

HOLE NUMBER RS-0341-99 PAGE 9 OF 9

LITH.	OX/RED.	LITHOLOGY	FT
		284.6 - 600	540
		543-545 NO CORE RECOVERY	
		SHALE / PHILLITIC SHALE AND SILTSTONE.	
		547-549 silty interbeds with quartz boudens	550
		554-556 NO CORE RECOVERY	
			560
			570
			580
		597-600 Thinnly luminated silty shale	590
			600
		T.D. 600	

GRAPHIC LOG



STRUCTURE	ALTERATION AND MINERALIZATION
547-551 Fracture zone at 30° TCA	
560-570 Very Fissile Shale	560-570 Very black carbon rich core.
	573.6-574 silicified Fracture with white clay coating
	590-595 QTZ STOCKWORK
595 Bedding at 20° TCA	595-600 Trace of silicification
	596 70° TCA qtz veins

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
540	543				
543	545	N.S.			
545	547				
547	550				
550	554				
554	556	N.S.			
556	558				
558	560				
560	564				
564	566				
566	570				
570	572				
572	574				
574	577				
577	580				
580	584				
580	586				
586	590				
590	595				
595	600				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-9-99 LOGGED BY: D.G. MacFarlane PAGE 1 OF 11

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	36	100	26										
5	10	95	100	80										
10	15	100	100	100										
15	20	100	102	96										
20	25	100	102	98										
25	30	100	96	90										
30	35	100	100	92										
35	40	86	92	72										
40	45	100	106	92										
45	50	95	104	81										
50	55	94	100	52										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-9-99 LOGGED BY: D. G. Muckerow PAGE 2 OF 11

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)
50	55	94	100	50										
55	60	58	102	40										
60	65	100	102	84										
65	70	100	100	56										
70	75	100	102	98										
75	80	100	96	82										
80	85	100	100	63										
85	90	100	96	74										
90	95	100	92	61										
95	100	100	102	48										
100	105	100	102	68										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-0341-99 DATE: 3-10-99 LOGGED BY: D. Mackerrow PAGE 3 OF 11

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)
105	110	100	90	46										
110	115	62	100	48										
115	120	76	98	0										
120	125	81	88	46										
125	130	54	90	22										
130	134	62	97	0										
134	139.5	100	96	34										
139.5	145	83	94	80										
145	150	100	104	88										
150	155	100	104	88										
155	160	100	104	90										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-10-99 LOGGED BY: DG, Mackerrow PAGE 4 OF 11

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)
160	165	90	100	70										
165	170	72	104	50										
170	175	86	96	64										
175	180	50	100	38										
180	185	100	94	46										
185	190	58	100	44										
190	192.5	0	100	0										
192.5	200	100	100	0										
200	205	50	58	44										
205	210	100	102	90										
210	215	32	100	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D 341-99 DATE: 3-10-99 LOGGED BY: D.G. MacKorra PAGE 5 OF 11

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)
215	220	70	100	24										
220	225	78	101	54										
225	230	100	102	92										
230	235	100	100	86										
235	245	100	95	74										
245	255	100	101	63										
255	265	100	100	92										
265	275	100	100	80										
275	285	100	102	76										
285	295	100	97	84										
295	305	100	102	78										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-11-99 LOGGED BY: D.G. MacKerrow PAGE 6 OF 11

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)
305	315	94	99	71										
315	325	100	106	66										
325	335	98	106	66										
335	345	58	100	60										
345	355	98	106	45										
355	365	64	100	36										
365	370	18	100	0										
370	380	0	56	12										
380	384	0	95	0										
384	387	0	100	0										
387	390	60	116	17										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-12-99 LOGGED BY: D.G. Mackerrin PAGE 7 OF 11

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)
390	400	70	100	32										
400	410	61	93	39										
410	420	26	40	26										
420	430	22	68	0										
430	438	0	100	0										
438	445	100	100	54										
445	455	90	104	66										
455	465	84	100	57										
465	473.5	55	102	46										
473.5	474.5	100	100	50										
474.5	476.5	100	100	65										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-12-99 LOGGED BY: D.G. MacKerrow PAGE 8 OF 11

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)
476.5	480	100	91	87										
480	490	25	84	18										
490	500	0	10	0										
500	503	0	0	0										
503	508	0	0	0										
508	512	0	0	0										
512	515	0	13	0										
518	521	43	100	20										
521	524	0	33	0										
524	526	90	100	20										
526	528	0	50	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-12-99 LOGGED BY: D MacKerrow PAGE 9 OF 11

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)
528	530	0	0	0										
530	532	0	0	0										
532	534	0	0	0										
534	537	0	17	0										
537	540	0	17	0										
540	543	0	17	0										
543	547	0	50	0										
547	550	0	100	0										
550	554	30	45	0										
554	556	0	0	0										
556	558	0	40	25										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

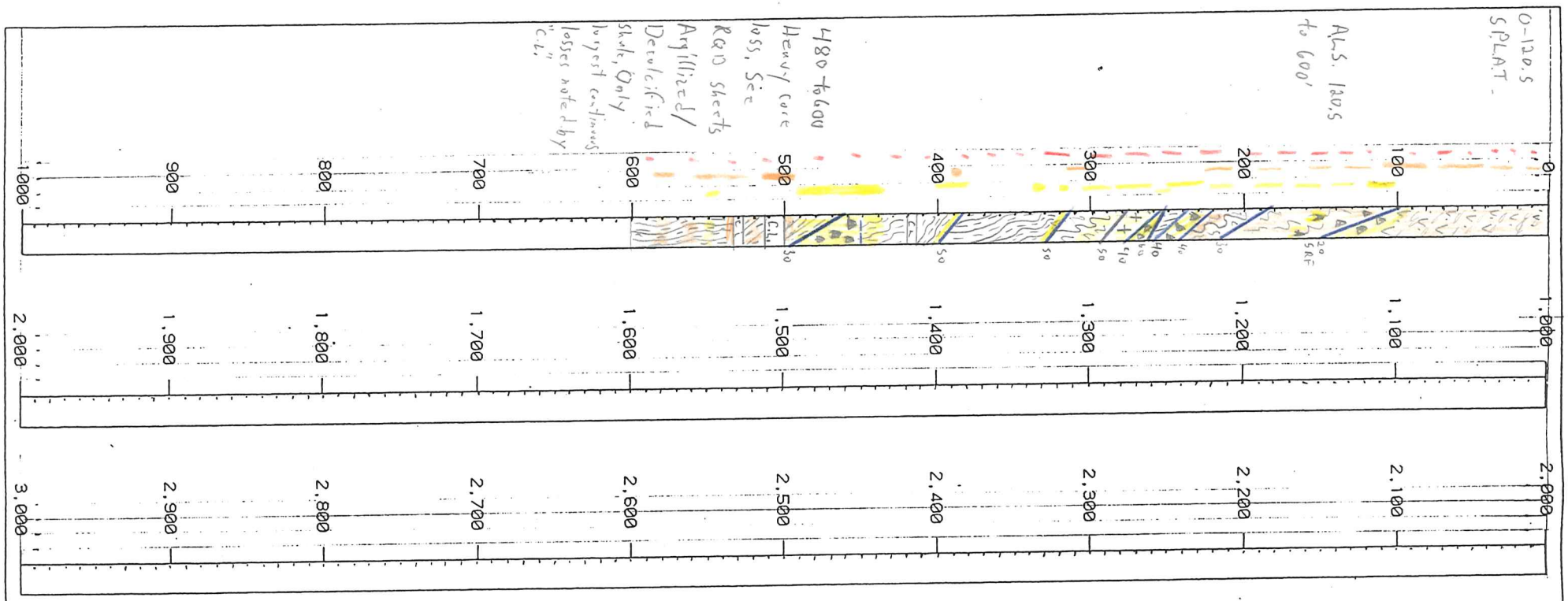
HOLE # RS-0341-99 DATE: 3-12-99 LOGGED BY: D.G. MacHerrow PAGE 10 OF 11

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)
558	560	0	35	0										
560	562	0	60	0										
562	564	0	50	0										
564	566	0	50	0										
566	570	0	37	0										
570	572	0	50	0										
572	574	0	60	0										
574	577	0	33	0										
577	580	0	23	13										
580	584	0	25	0										
584	586	35	55	20										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D341-99 DATE: 3-12-99 LOGGED BY: D.G. Mulkerrow PAGE 11 OF 11

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)
586	590	47	45	17										
590	595	28	44	14										
595	600	52	68	34										



LITHOLOGY

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

TEXTURES

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

STRUCTURES

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

CONTACTS

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

LOCATION ON GRID: 1475 Section North Zone X cut	FINAL COLLAR COORDINATES	START 3-6-99	FINISH 3-10-99	LOGGED BY D.G. Mucherron
LAB	NORTH	HOLE TYPE Core	SURVEYED TO 600	
JOB #	EAST	BEARING S 55 E	ANGLE -14	T. D. 600
DRILLING COMPANY Longyear	ELEV	DRILLER Bamford		

The Rosebud Mining Company LLC

PAGE 1 OF 1

HOLE # RS-D341-99

Newmont Gold Core Form

Hole# RS-D341-99
Logged by DG. Macherrow
Date 3-10-99

Area _____
Coords _____

Az/Incl -
Total Depth _____
Contractor _____

Page 1 of 6

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
			Tos	Tuff	LT GRN									Tos Lapilli tuff Ash fall TUFF	0	1	0	0	0	0		0	0	1	1	0	0	0
														0-120.5														
10																												
20																												
																1										1		
															0													
30																											1	
40																									1			1 0
50																2											0	
60																1												
70																												
80																												
90																2												
100																												

Newmont Gold Core Form

Hole# RS-D341-99
Logged by D. Mackerron
Date 3-10-99
Area
Coords
Az/Incl
Total Depth
Contractor

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
100			TOS	Tuff	Pale Grn									0-120.5 TOS ASHFALL TUFF
110														
120			ALS	Shale	Blk				20					120.5 ALS SHALE/PHYLLITE
130														
140														
150														
160														
170														
180														
190														
200														

Footage	Alteration: Silic	argillic	clay	prop	Sericite	Chlorite	Met.: FEOX	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
100	0	1	0	0	0	0		0		1	1	0	0
110	3										2		1
	1	3	3								1		3 / 1
120		1	0										
	2									2			
	0	2	2										
	0												
130										1			
	2	0											
		1								2			
140	0									1			
	1	Tr									Tr		
160											1		2
	2												3
	1										Tr		2
	2												
	1												1
170	Tr									3			
	1									1			
180		1											
190	0												0
													1

Hole# RS-D341-99 **Newmont Gold Core Form** **Az/Incl** _____ **Page** 3 of 6

Logged by _____ **Area** _____ **Total Depth** _____

Date _____ **Coords** _____ **Contractor** _____

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
200			ALS		DKGY									220.5 SHALE / PHILLITIC	1	1	0	0	0	0	0	0	1	1	tr	0	1
														223.6 Shelf										2			
																								1			
210																											
220																											
230															2												
240																											2
250														253.5 stibnite		0									1		
260																											
			HI	INT	LTGY				40					263.6 felsic INT	1												
270																											
									60																		
									60																		
280																											
			ALS	SLDY PHYL	DKGY				5					284.6 SHALE / PHILLITIC SHALE	2												0
290																											
300																											

EXCORTBLDG Revised 3/17/93

Newmont Gold Core Form

Hole# RS-D341-99 **Logged by** _____ **Date** _____

Area _____ **Coords** _____

Az/Incl _____ **Total Depth** _____ **Contractor** _____

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
300														284.6 SHALE/PHYLLITE and TUFFACEOUS SILTSTONE	3	0					0	0	0	2	1	0	0
															1									1			
																1								2			1
																1								1	2		
																									1		
310																											
															2												3
																											1
															3												
320																											
															1									2			
																								1			
															0												
330																								2			
																								1			
															1												
																									2		
340																											
																									1		
350																											
																											2
360																											
																								2			
370																											3
																1								1			
																								0			
380																											
															2												
																											1
390																0											
																											3
400															2												1

Hole# RS-D341-99 **Newmont Gold Core Form** **Az/Incl** _____ **Page** 5 of 6

Logged by _____ **Area** _____ **Total Depth** _____

Date _____ **Coords** _____ **Contractor** _____

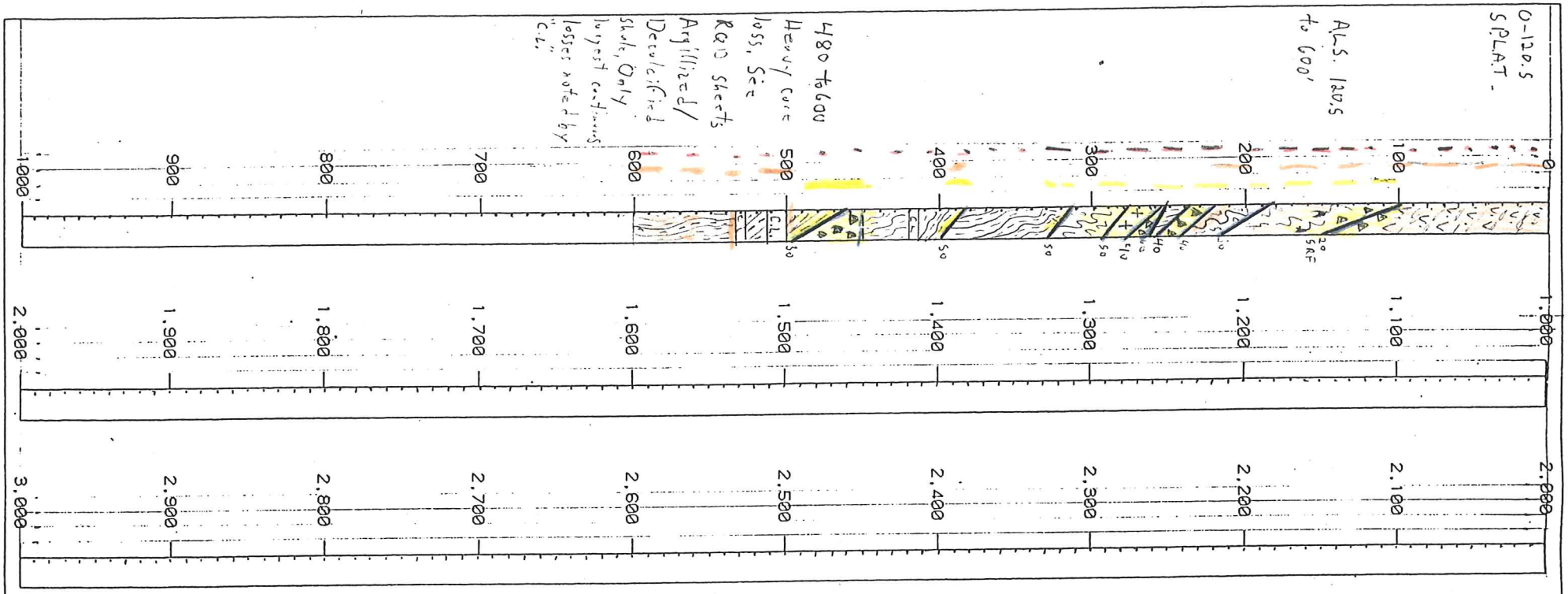
Footage	% Rec	RQD	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Alteration: Tr CO3	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
400			ALS.	Shale	Dk Gray									SHALE / PHILLITE and siltstone	0	0	0	0	0	0		0	0	0			0	1
															2													
410																												
															0	2												
420																					1							
																1												
430																									2			
															1	0									1			0
															2						0				2			
440															1										1			
															2													2
450																												1
																1												
															1													
															2													
460														454.5 - 481.5		0												
															1													
														Fault Zone														
														heavy silicification														
470														468.4 - 481.5	3										2	2		
																									1	1		
480																												
490															Tr						1							
																1												
															2													
500															1													

Hole# RS-D341-99 **Newmont Gold Core Form** **Az/Incl** _____ **Page** 6 of 6

Logged by _____ **Area** _____ **Total Depth** _____

Date _____ **Coords** _____ **Contractor** _____

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: Ca CO3	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
500								CORE LOSS																			0	
510															0	2	0	0	0	0		0	0	0	1		0	0
															1	Tr												
520																												1
														Heavy core loss from 490-595	0													
530								CORE LOSS																				
															0	2						0	0	0	1		0	
540																1												
								CORE LOSS																				
															0	1						0	0	0	1		0	
550															1	0											1	
								CORE LOSS																				
															0	1						0	0	0	1	0	1	
560																3											0	
570															1	0											1	
															0													
580															1													
															0													
590															1												0	
600																												



LITHOLOGY

- PLAT/FLOW
- MASSIVE AT/FLOW
- LST-
- PMBX -
- TOS/BUD Epiclastics
- BMB - Rhyolitic Porphyry
- RHYOLITE - DOZER
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- CLAY OR GOUGE
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- VEINS Qtz
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- VEINS CALC

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- LOST, GRADATIONAL OR INFERRED
- 80 SHARP (WITH ANGLE TO CORE)
- WAVY
- ROUGH OR JAGGED

PYRITIZATION
CHLORITIZATION
ARGILLIZATION
SILICIFICATION
GRAPHIC LOG

LOCATION ON GRID: 147S Section North Zone X cut	FINAL COLLAR COORDINATES	START 3-6-99	FINISH 3-10-99	LOGGED BY D.G. Mucherron
LAB	NORTH	HOLE TYPE Core		SURVEYED TO 600
JOB #	EAST	BEARING S 55 E	ANGLE -14	T. D. 600
DRILLING COMPANY Longyear	ELEV			
	DRILLER Bamford			

The Rosebud Mining Company LLC

PAGE 1 OF 1

HOLE #RS-D341-99

NEWMONT EXPLORATION LIMITED

DRILL HOLE SUMMARY

Project: Rosebud Location: North Zone Xcut Sec/475 Drill Hole No.: RS-D341-99

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

Purpose: Test 24 Feeder Results:

Date Started: 3-6-99 Date Finished: 3-10-99

Grid System: Northing: Easting: Elevation:

Collar Az/Inc.: N SSE / -14 Drill Site: Total Depth: 600

Geologist(s): D.G. Muchorrow Log Date(s): 3-13-99 Laboratory: 3-14-99

HOLE CONSTRUCTION AND HISTORY CASING (INTERVAL):

From	To	Hole Type/Size	Started	Completed	Contractor
0	600	CORE / Hq	3-6-99	3-10-99	Longyear
		/			
		/			
		/			

LITHOLOGIC SUMMARY				ALTERATION/	SIGNIFICANT ASSAYS				
From	To	Formation	Rock Type	MINERALIZATION	From	To	Width	Au oz/st	Cutoff
0	120.5	TOS	Ash Fall Tuff	0-120.5 wk To Mod Argillization					
120.5	600	A.L.S	Shale/Phyllite	120.5-300 silicification					
				440-490 silicification					
				488.543 $-CaCO_3$					

DOWNHOLE SURVEYS		
Directional	Date:	
Other		
Depth (ft)	Azimuth	Inclination
Water Table Depth:		
Water Flow Rate:		

COMMENTS

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

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

:

:

CLIENT REFERENCE No: RS-D341-99 RECEIVED : 15 MAR 1999

No. SAMPLES : 145 REPORTED : 15 MAR 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 SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 00-05	70		0.002		0.9	0.03
RS-D341-99 05-10	<5		<0.001		<0.5	<0.02
RS-D341-99 10-15	<5		<0.001		<0.5	<0.02
RS-D341-99 15-20	<5		<0.001		<0.5	<0.02
RS-D341-99 20-25	308		0.009		2.4	0.07
RS-D341-99 25-30	62		0.002		1.5	0.04
RS-D341-99 30-35	2534		0.074		1.9	0.06
RS-D341-99 35.0-41.3	248		0.007		2.0	0.06
RS-D341-99 41.3-43.5	13200	13340	0.385	0.389	12.0	0.35
RS-D341-99 43.5-47.5	7085	7350	0.207	0.214	33.8	0.99
RS-D341-99 47.5-50.0	101		0.003		1.0	0.03
RS-D341-99 50-55	90		0.003		0.9	0.03
RS-D341-99 55.0-60.8	5130		0.150		7.7	0.22
RS-D341-99 60.8-65.0	219		0.006		1.6	0.05
RS-D341-99 65-70	126		0.004		1.3	0.04
RS-D341-99 70-75	652		0.019		1.1	0.03
RS-D341-99 75-80	1172		0.034		1.4	0.04
RS-D341-99 80-85	48		0.001		0.7	0.02
RS-D341-99 85-90	9060		0.264		3.1	0.09
RS-D341-99 90-95	21320	22840	0.622	0.666	27.4	0.80
RS-D341-99 95-100	12890		0.376		4.8	0.14
RS-D341-99 100-105	126		0.004		1.4	0.04
RS-D341-99 105-110	628		0.018		13.5	0.39
RS-D341-99 110.0-114.5	3788		0.110		13.8	0.40
RS-D341-99 114.5-116.5	288		0.008		186.0	5.43

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 116.5-120.5	76		0.002		1.6	0.05
RS-D341-99 120.5-125.0	117		0.003		2.4	0.07
RS-D341-99 125-130	30		<0.001		3.5	0.10
RS-D341-99 130-134	18		<0.001		1.9	0.06
RS-D341-99 134.0-139.5	63		0.002		1.9	0.06
RS-D341-99 139.5-145.0	42		0.001		2.6	0.08
RS-D341-99 145-150	36		0.001		1.6	0.05
RS-D341-99 150-155	36		0.001		1.6	0.05
RS-D341-99 155-160	33		<0.001		1.9	0.06
RS-D341-99 160-165	242	198	0.007	0.006	6.2	0.18
RS-D341-99 165-170	324		0.009		2.6	0.08
RS-D341-99 170-175	33		<0.001		2.2	0.06
RS-D341-99 175-180	9		<0.001		2.2	0.06
RS-D341-99 180-185	45		0.001		3.1	0.09
RS-D341-99 185-188	30		<0.001		2.7	0.08
RS-D341-99 188.0-192.5	36		0.001		6.7	0.20
RS-D341-99 192.5-195.0	183		0.005		3.7	0.11
RS-D341-99 195-200	24		<0.001		2.9	0.08
RS-D341-99 200-205	30		<0.001		1.8	0.05
RS-D341-99 205-210	27		<0.001		1.9	0.06
RS-D341-99 210.0-213.4	99		0.003		2.4	0.07
RS-D341-99 213.4-220.0	30		<0.001		1.9	0.06
RS-D341-99 220-225	19		<0.001		1.8	0.05
RS-D341-99 225-229	144		0.004		4.2	0.12
RS-D341-99 229-235	195		0.006		3.6	0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 235.0-240.2	186		0.005		8.6	0.25
RS-D341-99 240.2-244.1	2316	2326	0.068	0.068	173.4	5.06
RS-D341-99 244.1-247.0	234		0.007		20.8	0.61
RS-D341-99 247-250	162		0.005		11.8	0.34
RS-D341-99 250-252	186		0.005		6.1	0.18
RS-D341-99 252-255	384		0.011		138.2	4.03
RS-D341-99 255.0-257.8	192		0.006		50.3	1.47
RS-D341-99 257.8-261.6	477		0.014		48.4	1.41
RS-D341-99 261.6-263.6	509	404	0.015	0.012	6.6	0.19
RS-D341-99 263.6-266.5	465		0.014		6.7	0.20
RS-D341-99 266.5-268.6	75		0.002		3.6	0.11
RS-D341-99 268.6-270.0	36		0.001		14.1	0.41
RS-D341-99 270.0-275.1	1451	1308	0.042	0.038	19.3	0.56
RS-D341-99 275.1-277.5	150		0.004		10.1	0.29
RS-D341-99 277.5-281.0	474		0.014		4.2	0.12
RS-D341-99 281.0-284.6	927		0.027		29.4	0.86
RS-D341-99 284.6-288.3	93		0.003		3.7	0.11
RS-D341-99 288.3-291.6	30		<0.001		4.8	0.14
RS-D341-99 291.6-295.0	198		0.006		4.7	0.14
RS-D341-99 295-300	30		<0.001		2.6	0.08
RS-D341-99 300-305	12		<0.001		1.6	0.05
RS-D341-99 305-310	33		<0.001		2.9	0.08
RS-D341-99 310.0-313.2	30		<0.001		3.5	0.10
RS-D341-99 313.2-315.0	1152		0.034		53.7	1.57
RS-D341-99 315.0-318.5	180		0.005		19.6	0.57

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
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REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 318.5-322.0	3303	3238	0.096	0.094	113.0	3.30
RS-D341-99 322-325	33		<0.001		2.5	0.07
RS-D341-99 325-330	30		<0.001		2.4	0.07
RS-D341-99 330-335	75		0.002		3.4	0.10
RS-D341-99 335-339	27		<0.001		3.4	0.10
RS-D341-99 339.0-343.1	138		0.004		6.0	0.18
RS-D341-99 343.1-347.3	54		0.002		5.3	0.15
RS-D341-99 347.3-350.0	30		<0.001		4.3	0.13
RS-D341-99 350.0-355.8	24		<0.001		2.3	0.07
RS-D341-99 355.8-360.0	18		<0.001		2.9	0.08
RS-D341-99 360-365	18		<0.001		1.5	0.04
RS-D341-99 365-370	27		<0.001		3.4	0.10
RS-D341-99 370-375	22		<0.001		1.5	0.04
RS-D341-99 375-380	15		<0.001		1.9	0.06
RS-D341-99 380-384	18		<0.001		1.3	0.04
RS-D341-99 384-387	21		<0.001		1.4	0.04
RS-D341-99 387-390	174		0.005		78.0	2.28
RS-D341-99 390-394	348		0.010		45.2	1.32
RS-D341-99 394-398	51		0.001		18.5	0.54
RS-D341-99 398.0-402.2	135		0.004		3.5	0.10
RS-D341-99 402.2-406.2	578	784	0.017	0.023	17.0	0.50
RS-D341-99 406.2-409.0	327		0.010		5.5	0.16
RS-D341-99 409.0-411.5	216		0.006		4.0	0.12
RS-D341-99 411.5-414.0	180		0.005		5.3	0.15
RS-D341-99 414-420	SAMPLE NOT RECEIVED					

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 420.0-426.2	21		<0.001		2.6	0.08
RS-D341-99 426.2-430.0	21		<0.001		2.5	0.07
RS-D341-99 430-434	21		<0.001		3.3	0.10
RS-D341-99 434.0-437.6	153		0.004		8.0	0.23
RS-D341-99 437.6-441.0	321		0.009		18.8	0.55
RS-D341-99 441-445	276		0.008		43.7	1.27
RS-D341-99 445-450	2313	2022	0.067	0.059	50.8	1.48
RS-D341-99 450.0-454.5	399		0.012		69.6	2.03
RS-D341-99 454.5-460.0	60		0.002		7.2	0.21
RS-D341-99 460-465	183		0.005		6.4	0.19
RS-D341-99 465.0-468.4	225		0.007		8.4	0.25
RS-D341-99 468.4-473.5	228		0.007		10.4	0.30
RS-D341-99 473.5-476.5	399		0.012		10.8	0.32
RS-D341-99 476.5-480.0	1611	1648	0.047	0.048	85.8	2.50
RS-D341-99 480.0-481.5	150		0.004		14.5	0.42
RS-D341-99 480.0-481.5B	96		0.003		<0.5	<0.02
RS-D341-99 481.5-486.0	138		0.004		3.3	0.10
RS-D341-99 486.0-488.9	60		0.002		2.7	0.08
RS-D341-99 488.9-490.0	153		0.004		6.1	0.18
RS-D341-99 490-500	129		0.004		5.7	0.17
RS-D341-99 500-512		SAMPLE NOT RECEIVED				
RS-D341-99 512-515	120		0.004		4.1	0.12
RS-D341-99 515-518	57		0.002		3.2	0.09
RS-D341-99 518-521	195		0.006		13.5	0.39
RS-D341-99 521-524	384		0.011		4.7	0.14

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP052809

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 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-D341-99 524-526	105		0.003		5.2	0.15
RS-D341-99 526-528	201		0.006		4.5	0.13
RS-D341-99 528-534		SAMPLE NOT RECEIVED				
RS-D341-99 534-537	12		<0.001		1.8	0.05
RS-D341-99 537-540	<5		<0.001		<0.5	<0.02
RS-D341-99 540-543	<5		<0.001		<0.5	<0.02
RS-D341-99 543-545		SAMPLE NOT RECEIVED				
RS-D341-99 545-547	<5		<0.001		<0.5	<0.02
RS-D341-99 547-550	234	210	0.007	0.006	1.8	0.05
RS-D341-99 550-554	78		0.002		4.6	0.13
RS-D341-99 554-556		SAMPLE NOT RECEIVED				
RS-D341-99 556-558	24		<0.001		3.5	0.10
RS-D341-99 558-560	105		0.003		3.5	0.10
RS-D341-99 560-564	75		0.002		<0.5	<0.02
RS-D341-99 564-566	36		0.001		<0.5	<0.02
RS-D341-99 566-570	42		0.001		<0.5	<0.02
RS-D341-99 570-572	24		<0.001		2.5	0.07
RS-D341-99 572-574	189		0.006		4.0	0.12
RS-D341-99 574-577	78		0.002		11.8	0.34
RS-D341-99 577-580	18		<0.001		1.1	0.03
RS-D341-99 580-584	42		0.001		2.6	0.08
RS-D341-99 584-586	834	856	0.024	0.025	40.0	1.17
RS-D341-99 586-590	156		0.005		14.6	0.43
RS-D341-99 590-595	264		0.008		2.4	0.07
RS-D341-99 595-600	237		0.007		2.7	0.08

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:	SP052809
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-D341-99 00-20	0.7	1.5	32	3	112	< 3	1.3	0.3	3	6	8	1.8	55	0.65	25	0.15	543	1	0.03	3	0.056	18	3	6.2	121	5	< .01	< 8	4	< 2	67
RS-D341-99 20.0-41.3	4.5	0.89	62	< 3	34	< 3	0.91	0.3	2	3	27	1.72	65	0.36	20	0.11	332	< 1	0.02	2	0.047	15	3	11.3	92	3	< .01	< 8	2	< 2	70
RS-D341-99 41.3-60.8	14.8	0.95	120	< 3	25	< 3	0.66	0.2	3	2	112	2.19	35	0.4	22	0.09	1207	1	0.02	1	0.045	19	3	16.8	60	3	< .01	< 8	2	< 2	142
RS-D341-99 60.8-85.0	1.5	1.12	109	3	21	< 3	0.25	0.2	3	2	20	2.35	100	0.46	20	0.07	482	1	0.01	2	0.029	16	< 3	14.3	63	4	< .01	< 8	3	2	99
RS-D341-99 85-105	14.5	0.85	110	< 3	59	< 3	0.12	0.5	4	4	91	1.61	50	0.33	10	0.05	39	1	0.01	4	0.003	15	3	14.4	29	3	< .01	23	2	< 2	69
RS-D341-99 105.0-116.5	58.3	0.65	109	3	33	< 3	0.08	1	14	7	30	1.56	385	0.19	15	0.03	70	2	0.01	18	0.073	10	14	23.2	43	3	< .01	31	2	< 2	263
RS-D341-99 116.5-120.5	1.7	1.51	149	< 3	22	< 3	0.16	0.5	4	3	104	1.6	605	0.6	83	0.08	36	2	0.01	16	0.016	34	5	12.6	12	18	< .01	< 8	1	< 2	579
RS-D341-99 120.5-139.5	2.3	0.63	80	5	26	< 3	0.07	9.4	7	6	54	3.11	70	0.18	5	0.03	54	21	0.01	45	0.032	7	13	17.3	39	2	< .01	< 8	16	< 2	730
RS-D341-99 139.5-160.0	1.7	0.63	81	5	30	< 3	0.13	7.2	9	11	45	2.92	140	0.21	7	0.05	108	19	0.01	48	0.056	8	13	15.1	40	2	< .01	< 8	17	< 2	585
RS-D341-99 160-180	2.7	0.49	81	4	36	< 3	0.11	12.2	8	9	58	2.49	165	0.2	7	0.04	78	23	0.01	52	0.049	8	15	15.7	46	3	< .01	< 8	18	< 2	929
RS-D341-99 180-200	3.9	0.54	102	3	30	< 3	0.23	22.3	10	8	72	2.95	70	0.22	8	0.06	77	32	0.01	63	0.083	13	16	20.9	56	4	< .01	< 8	22	< 2	1382
RS-D341-99 200-220	1.9	0.48	100	4	23	< 3	0.21	11.8	10	10	67	2.97	15	0.22	7	0.06	79	31	0.01	66	0.072	11	18	18	16	3	< .01	< 8	29	< 2	962
RS-D341-99 220-229	2.9	0.5	80	4	24	< 3	0.22	15.8	10	8	61	2.75	55	0.24	7	0.04	83	27	0.01	49	0.075	12	17	15.5	18	3	< .01	< 8	18	< 2	1093
RS-D341-99 229-247	51	0.55	201	5	33	< 3	0.15	19.6	9	16	66	2.87	120	0.22	6	0.04	113	30	0.01	59	0.069	10	46	35.3	87	2	< .01	< 8	27	< 2	1342
RS-D341-99 247.0-263.6	49.4	0.46	138	4	40	< 3	0.14	11.9	6	14	53	2.45	110	0.19	6	0.04	111	20	0.01	38	0.058	7	106	26.2	76	< 2	< .01	< 8	16	< 2	798
RS-D341-99 263.6-270.0	8.5	0.44	48	< 3	66	< 3	0.12	5.5	2	9	19	1.9	30	0.2	6	0.03	71	11	0.01	16	0.019	8	7	7.7	41	2	< .01	< 8	7	< 2	388
RS-D341-99 270.0-275.1	24	0.42	39	3	45	< 3	0.1	0.4	< 1	10	9	1.05	30	0.16	6	0.03	90	2	0.01	6	0.003	4	10	10.4	7	< 2	< .01	< 8	2	< 2	22
RS-D341-99 277.5-284.6	15.2	0.53	50	< 3	446	< 3	0.14	0.2	1	6	6	0.68	30	0.21	9	0.03	51	1	0.01	3	0.005	10	5	7.8	8	2	< .01	< 8	1	< 2	24
RS-D341-99 284.6-300.0	3.7	0.43	109	3	23	< 3	0.21	15.8	8	10	68	2.71	70	0.23	5	0.04	94	31	< .01	55	0.068	9	13	17.6	18	3	< .01	< 8	19	< 2	1125
RS-D341-99 300-322	31.4	0.58	165	5	35	< 3	0.18	9.4	7	15	62	2.85	45	0.27	6	0.05	120	17	0.01	37	0.058	9	14	21.9	14	2	< .01	< 8	20	< 2	750
RS-D341-99 322.0-343.1	3.2	0.64	125	7	22	< 3	0.26	14.3	11	24	93	4.83	45	0.31	6	0.05	242	41	0.01	70	0.09	10	12	14.3	22	3	< .01	< 8	38	< 2	1257
RS-D341-99 343.1-360.0	3	0.51	102	8	27	< 3	0.23	14.3	10	30	96	5.79	115	0.25	5	0.04	350	33	0.01	68	0.076	10	17	16.5	25	2	< .01	< 8	29	< 2	1172
RS-D341-99 360-380	2.1	0.47	83	4	22	< 3	0.16	8.9	9	10	60	3.51	50	0.23	5	0.04	79	14	0.01	40	0.055	8	39	13.8	39	3	< .01	< 8	16	< 2	635
RS-D341-99 380-398	26.1	0.56	88	6	29	< 3	0.17	5.2	7	12	46	2.79	55	0.25	7	0.05	87	10	0.01	27	0.057	9	14	20.9	25	3	< .01	< 8	20	< 2	399
RS-D341-99 398-414	6.5	0.46	160	4	18	< 3	0.1	12.2	8	9	53	2.92	75	0.19	5	0.05	77	19	0.01	41	0.041	9	18	21.3	25	3	< .01	< 8	19	< 2	892
RS-D341-99 420.0-437.6	4.5	0.51	124	5	22	< 3	0.14	23.3	13	11	108	3.44	100	0.23	5	0.04	103	55	0.01	127	0.062	13	29	25.3	27	3	< .01	< 8	39	< 2	1596
RS-D341-99 437.6-454.5	43.2	0.54	162	6	25	< 3	0.12	14.5	7	15	61	2.65	135	0.19	6	0.04	117	52	0.01	108	0.072	11	32	23.1	59	2	< .01	< 8	35	< 2	1125
RS-D341-99 454.5-468.4	6.4	0.46	108	4	29	< 3	0.06	14.3	10	10	78	2.7	195	0.17	4	0.03	93	30	< .01	87	0.031	10	25	21.8	32	2	< .01	< 8	26	< 2	1028
RS-D341-99 468.4-481.5	33.5	0.32	168	3	40	< 3	0.03	3	3	18	26	2.07	110	0.11	3	0.03	139	16	< .01	34	0.015	< 3	29	14	26	2	< .01	< 8	11	< 2	248
RS-D341-99 481.5-500.0	4.2	0.36	55	6	49	< 3	0.05	0.7	8	9	25	2.52	435	0.14	4	0.04	70	37	< .01	59	0.032	6	21	5	20	2	< .01	< 8	6	< 2	80
RS-D341-99 512-528	5.4	0.39	78	5	52	< 3	0.05	0.8	8	9	33	2.33	185	0.13	5	0.04	74	22	0.01	43	0.035	6	17	8.2	29	3	< .01	< 8	7	< 2	81
RS-D341-99 534-543	1.5	3.3	24	8	38	< 3	0.06	2.8	15	9	47	3.25	90	0.23	5	0.07	74	75	0.01	98	0.149	12	52	4.4	11	5	< .01	< 8	44	< 2	135
RS-D341-99 545-554	2.9	1.08	41	6	95	< 3	0.07	1.5	7	9	30	3.59	60	0.16	6	0.07	81	44	0.01	51	0.098	6	18	5.2	9	4	< .01	< 8	17	< 2	206
RS-D341-99 556-570	2	3.1	34	6	54	< 3	0.04	1.6	12	8	38	3.36	70	0.21	8	0.07	57	76	0.01	105	0.176	12	25	5.5	21	5	< .01	< 8	21	< 2	271
STANDARD C3	5.6	1.75	55	20	145	23	0.56	23	11	172	65	3.11	970	0.17	18	0.61	797	25	0.04	36	0.086	34	11	1.2	28	20	0.09	30	78	14	171
STANDARD G-2	0.4	0.91	2	< 3	219	3	0.66	< .2	4	79	3	1.91	< 10	0.43	8	0.63	566	2	0.07	8	0.094	3	< 3	< .1	70	5	0.14	< 8	42	3	49

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP052809
METHOD:	AAL 01-2 + Se

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

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
RS-D341-99 570-584	5.8	2.67	41	7	14	< 3	0.11	3.7	10	10	38	2.91	55	0.17	5	0.08	82	57	0.01	110	0.125	14	12	9.1	42	4	< .01	< 8	38	< 2	219
RS-D341-99 584-600	14.5	0.5	77	6	55	< 3	0.1	3.8	5	11	25	2.02	45	0.18	5	0.06	86	35	< .01	64	0.057	8	16	11.9	25	3	< .01	< 8	15	< 2	279

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP052809

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

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

: Kurt Allen

:

CLIENT REFERENCE No: RS-D341-99 RECEIVED : 15 MAR 1999

No. SAMPLES : 145 REPORTED : 15 MAR 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 SP052809

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 00-05	70		0.002		0.9	0.03
RS-D341-99 05-10	<5		<0.001		<0.5	<0.02
RS-D341-99 10-15	<5		<0.001		<0.5	<0.02
RS-D341-99 15-20	<5		<0.001		<0.5	<0.02
RS-D341-99 20-25	308		0.009		2.4	0.07
RS-D341-99 25-30	62		0.002		1.5	0.04
RS-D341-99 30-35	2534		0.074		1.9	0.06
RS-D341-99 35.0-41.3	248		0.007		2.0	0.06
RS-D341-99 41.3-43.5 1" Mrc VN	13200	13340	0.385	0.389	12.0	0.35
RS-D341-99 43.5-47.5	7085	7350	0.207	0.214	33.8	0.99
RS-D341-99 47.5-50.0	101		0.003		1.0	0.03
RS-D341-99 50-55	90		0.003		0.9	0.03
RS-D341-99 55.0-60.8	5130		0.150		7.7	0.22
RS-D341-99 60.8-65.0	219		0.006		1.6	0.05
RS-D341-99 65-70	126		0.004		1.3	0.04
RS-D341-99 70-75	652		0.019		1.1	0.03
RS-D341-99 75-80	1172		0.034		1.4	0.04
RS-D341-99 80-85	48		0.001		0.7	0.02
RS-D341-99 85-90 Marcasite Increm Argillz	9060		0.264		3.1	0.09
RS-D341-99 90-95	21320	22840	0.622	0.666	27.4	0.80
RS-D341-99 95-100	12890		0.376		4.8	0.14
RS-D341-99 100-105	126		0.004		1.4	0.04
RS-D341-99 105-110	628		0.018		13.5	0.39
RS-D341-99 110.0-114.5 SRF	3788		0.110		13.8	0.40
RS-D341-99 114.5-116.5	288		0.008		186.0	5.43

AMERICAN ASSAY LABORATORIES

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CLIENT : NEWMONT GOLD COMPANY
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REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ.)	Au(RZ.)	Ag	Ag(OZ.)
RS-D341-99 116.5-120.5	76		0.002		1.6	0.05
RS-D341-99 120.5-125.0	117		0.003		2.4	0.07
RS-D341-99 125-130	30		<0.001		3.5	0.10
RS-D341-99 130-134	18		<0.001		1.9	0.06
RS-D341-99 134.0-139.5	63		0.002		1.9	0.06
RS-D341-99 139.5-145.0	42		0.001		2.6	0.08
RS-D341-99 145-150	36		0.001		1.6	0.05
RS-D341-99 150-155	36		0.001		1.6	0.05
RS-D341-99 155-160	33		<0.001		1.9	0.06
RS-D341-99 160-165	242	198	0.007	0.006	6.2	0.18
RS-D341-99 165-170	324		0.009		2.6	0.08
RS-D341-99 170-175	33		<0.001		2.2	0.06
RS-D341-99 175-180	9		<0.001		2.2	0.06
RS-D341-99 180-185	45		0.001		3.1	0.09
RS-D341-99 185-188	30		<0.001		2.7	0.08
RS-D341-99 188.0-192.5	36		0.001		6.7	0.20
RS-D341-99 192.5-195.0	183		0.005		3.7	0.11
RS-D341-99 195-200	24		<0.001		2.9	0.08
RS-D341-99 200-205	30		<0.001		1.8	0.05
RS-D341-99 205-210	27		<0.001		1.9	0.06
RS-D341-99 210.0-213.4	99		0.003		2.4	0.07
RS-D341-99 213.4-220.0	30		<0.001		1.9	0.06
RS-D341-99 220-225	19		<0.001		1.8	0.05
RS-D341-99 225-229	144		0.004		4.2	0.12
RS-D341-99 229-235	195		0.006		3.5	0.11

AMERICAN ASSAY LABORATORIES

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REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 235.0-240.2	186		0.005		8.6	0.25
RS-D341-99 240.2-244.1	2316	2326	0.068	0.068	173.4	5.06
RS-D341-99 244.1-247.0	234		0.007		20.8	0.61
RS-D341-99 247-250	162		0.005		11.8	0.34
RS-D341-99 250-252	186		0.005		6.1	0.18
SD						
RS-D341-99 252-255	384		0.011		138.2	4.03
RS-D341-99 255.0-257.8	192		0.006		50.3	1.47
RS-D341-99 257.8-261.6	477		0.014		48.4	1.41
RS-D341-99 261.6-263.6	509	404	0.015	0.012	6.6	0.19
INT						
RS-D341-99 263.6-266.5	465		0.014		6.7	0.20
RS-D341-99 266.5-268.6	75		0.002		3.6	0.11
RS-D341-99 268.6-270.0	36		0.001		14.1	0.41
RS-D341-99 270.0-275.1	1451	1308	0.042	0.038	19.3	0.56
RS-D341-99 275.1-277.5	150		0.004		10.1	0.29
RS-D341-99 277.5-281.0	474		0.014		4.2	0.12
RS-D341-99 281.0-284.6	927		0.027		29.4	0.86
ALS						
RS-D341-99 284.6-288.3	93		0.003		3.7	0.11
RS-D341-99 288.3-291.6	30		<0.001		4.8	0.14
RS-D341-99 291.6-295.0	198		0.006		4.7	0.14
RS-D341-99 295-300	30		<0.001		2.6	0.08
RS-D341-99 300-305	12		<0.001		1.6	0.05
RS-D341-99 305-310	33		<0.001		2.9	0.08
RS-D341-99 310.0-313.2	30		<0.001		3.5	0.10
QTZ Hcal Creek Afw						
RS-D341-99 313.2-315.0	1152		0.034		53.7	1.57
RS-D341-99 315.0-318.5	180		0.005		19.6	0.57

AMERICAN ASSAY LABORATORIES

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REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 318.5-322.0 Drizzy qtz Sil.	3303	3238	0.096	0.094	113.0	3.30
RS-D341-99 322-325	33		<0.001		2.5	0.07
RS-D341-99 325-330	30		<0.001		2.4	0.07
RS-D341-99 330-335	75		0.002		3.4	0.10
RS-D341-99 335-339	27		<0.001		3.4	0.10
RS-D341-99 339.0-343.1	138		0.004		6.0	0.18
RS-D341-99 343.1-347.3	54		0.002		5.3	0.15
RS-D341-99 347.3-350.0	30		<0.001		4.3	0.13
RS-D341-99 350.0-355.8	24		<0.001		2.3	0.07
RS-D341-99 355.8-360.0	18		<0.001		2.9	0.08
RS-D341-99 360-365	18		<0.001		1.5	0.04
RS-D341-99 365-370	27		<0.001		3.4	0.10
RS-D341-99 370-375	22		<0.001		1.5	0.04
RS-D341-99 375-380	15		<0.001		1.9	0.06
RS-D341-99 380-384	18		<0.001		1.3	0.04
RS-D341-99 384-387	21		<0.001		1.4	0.04
RS-D341-99 387-390	174		0.005		78.0	2.28
RS-D341-99 390-394	348		0.010		45.2	1.32
RS-D341-99 394-398	51		0.001		18.5	0.54
RS-D341-99 398.0-402.2	135		0.004		3.5	0.10
RS-D341-99 402.2-406.2 Sil BXQ	578	784	0.017	0.023	17.0	0.50
RS-D341-99 406.2-409.0	327		0.010		5.5	0.16
RS-D341-99 409.0-411.5	216		0.006		4.0	0.12
RS-D341-99 411.5-414.0	180		0.005		5.3	0.15
RS-D341-99 414-420	SAMPLE NOT RECEIVED					

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 420.0-426.2	21		<0.001		2.6	0.08
RS-D341-99 426.2-430.0	21		<0.001		2.5	0.07
RS-D341-99 430-434	21		<0.001		3.3	0.10
RS-D341-99 434.0-437.6	153		0.004		8.0	0.23
RS-D341-99 437.6-441.0	321		0.009		18.8	0.55
RS-D341-99 441-445	276		0.008		43.7	1.27
RS-D341-99 445-450	2313	2022	0.067	0.059	50.8	1.48
RS-D341-99 450.0-454.5	399		0.012		69.6	2.03
RS-D341-99 454.5-460.0	60		0.002		7.2	0.21
RS-D341-99 460-465	183		0.005		6.4	0.19
RS-D341-99 465.0-468.4	225		0.007		8.4	0.25
RS-D341-99 468.4-473.5	228		0.007		10.4	0.30
RS-D341-99 473.5-476.5 sil MXA	399		0.012		10.8	0.32
RS-D341-99 476.5-480.0 sil MXA	1611	1648	0.047	0.048	85.8	2.50
RS-D341-99 480.0-481.5	150		0.004		14.5	0.42
RS-D341-99 480.0-481.5B	96		0.003		<0.5	<0.02
RS-D341-99 481.5-486.0	138		0.004		3.3	0.10
RS-D341-99 486.0-488.9	60		0.002		2.7	0.08
RS-D341-99 488.9-490.0	153		0.004		6.1	0.18
RS-D341-99 490-500	129		0.004		5.7	0.17
RS-D341-99 500-512	SAMPLE NOT RECEIVED					
RS-D341-99 512-515	120		0.004		4.1	0.12
RS-D341-99 515-518	57		0.002		3.2	0.09
RS-D341-99 518-521	195		0.006		13.5	0.39
RS-D341-99 521-524	384		0.011		4.7	0.14

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 524-526	105		0.003		5.2	0.15
RS-D341-99 526-528	201		0.006		4.5	0.13
RS-D341-99 528-534	SAMPLE NOT RECEIVED					
RS-D341-99 534-537	12		<0.001		1.8	0.05
RS-D341-99 537-540	<5		<0.001		<0.5	<0.02
RS-D341-99 540-543	<5		<0.001		<0.5	<0.02
RS-D341-99 543-545	SAMPLE NOT RECEIVED					
RS-D341-99 545-547	<5		<0.001		<0.5	<0.02
RS-D341-99 547-550	234	210	0.007	0.006	1.8	0.05
RS-D341-99 550-554	78		0.002		4.6	0.13
RS-D341-99 554-556	SAMPLE NOT RECEIVED					
RS-D341-99 556-558	24		<0.001		3.5	0.10
RS-D341-99 558-560	105		0.003		3.5	0.10
RS-D341-99 560-564	75		0.002		<0.5	<0.02
RS-D341-99 564-566	36		0.001		<0.5	<0.02
RS-D341-99 566-570	42		0.001		<0.5	<0.02
RS-D341-99 570-572	24		<0.001		2.5	0.07
RS-D341-99 572-574	189		0.006		4.0	0.12
RS-D341-99 574-577	78		0.002		11.8	0.34
RS-D341-99 577-580	18		<0.001		1.1	0.03
RS-D341-99 580-584	42		0.001		2.6	0.08
RS-D341-99 584-586	834	856	0.024	0.025	40.0	1.17
RS-D341-99 586-590	156		0.005		14.6	0.43
RS-D341-99 590-595	264		0.008		2.4	0.07
RS-D341-99 595-600	237		0.007		2.7	0.08

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MAIN SAMPLE TYPE : DRILL CORE

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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

03/24/1999 11:08 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 00-05	70		0.002		0.9	0.03
RS-D341-99 05-10	<5		<0.001		<0.5	<0.02
RS-D341-99 10-15	<5		<0.001		<0.5	<0.02
RS-D341-99 15-20	<5		<0.001		<0.5	<0.02
RS-D341-99 20-25	308		0.009		2.4	0.07
RS-D341-99 25-30	62		0.002	41.3-47.5	1.5	0.04
RS-D341-99 30-35	2534		0.074	= 6.2'	1.9	0.06
RS-D341-99 35.0-41.3	248		0.007	@ 0.270 Au 0.76 Ag	2.0	0.06
RS-D341-99 41.3-43.5 2.2'	13200	13340	0.385	0.389	12.0	0.35
RS-D341-99 43.5-47.5 4.0'	7085	7350	0.207	0.214	33.8	0.99
RS-D341-99 47.5-50.0	101		0.003		1.0	0.03
RS-D341-99 50-55	90		0.003		0.9	0.03
RS-D341-99 55.0-60.8	5130		0.150		7.7	0.22
RS-D341-99 60.8-65.0	219		0.006		1.6	0.05
RS-D341-99 65-70	126		0.004	85-100	1.3	0.04
RS-D341-99 70-75	652		0.019	= 15' @	1.1	0.03
RS-D341-99 75-80	1172		0.034	0.421 Au	1.4	0.04
RS-D341-99 80-85	48		0.001	0.34 Ag	0.7	0.02
RS-D341-99 85-90	9060		0.264		3.1	0.09
RS-D341-99 90-95	21320	22840	0.622	0.666	27.4	0.80
RS-D341-99 95-100	12890		0.376		4.8	0.14
RS-D341-99 100-105	126		0.004		1.4	0.04
RS-D341-99 105-110	628		0.018		13.5	0.39
RS-D341-99 110.0-114.5	3788		0.110		13.8	0.40
RS-D341-99 114.5-116.5	288		0.008		186.0	5.43

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RS-D341-99 116.5-120.5	76		0.002		1.6	0.05
RS-D341-99 120.5-125.0	117		0.003		2.4	0.07
RS-D341-99 125-130	30		<0.001		3.5	0.10
RS-D341-99 130-134	18		<0.001		1.9	0.06
RS-D341-99 134.0-139.5	63		0.002		1.9	0.06
RS-D341-99 139.5-145.0	42		0.001		2.6	0.08
RS-D341-99 145-150	36		0.001		1.6	0.05
RS-D341-99 150-155	36		0.001		1.6	0.05
RS-D341-99 155-160	33		<0.001		1.9	0.06
RS-D341-99 160-165	242	198	0.007	0.006	6.2	0.18
RS-D341-99 165-170	324		0.009		2.6	0.08
RS-D341-99 170-175	33		<0.001		2.2	0.06
RS-D341-99 175-180	9		<0.001		2.2	0.06
RS-D341-99 180-185	45		0.001		3.1	0.09
RS-D341-99 185-188	30		<0.001		2.7	0.08
RS-D341-99 188.0-192.5	36		0.001		6.7	0.20
RS-D341-99 192.5-195.0	183		0.005		3.7	0.11
RS-D341-99 195-200	24		<0.001		2.9	0.08
RS-D341-99 200-205	30		<0.001		1.8	0.05
RS-D341-99 205-210	27		<0.001		1.9	0.06
RS-D341-99 210.0-213.4	99		0.003		2.4	0.07
RS-D341-99 213.4-220.0	30		<0.001		1.9	0.06
RS-D341-99 220-225	19		<0.001		1.8	0.05
RS-D341-99 225-229	144		0.004		4.2	0.12
RS-D341-99 229-235	195		0.006		3.6	0.11

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RS-D341-99 235.0-240.2	186		0.005		8.6	0.25
RS-D341-99 240.2-244.1	2316	2326	0.068	0.068	173.4	5.06
RS-D341-99 244.1-247.0	234		0.007		20.8	0.61
RS-D341-99 247-250	162		0.005		11.8	0.34
RS-D341-99 250-252	186		0.005		6.1	0.18
RS-D341-99 252-255	384		0.011		138.2	4.03
RS-D341-99 255.0-257.8	192		0.006		50.3	1.47
RS-D341-99 257.8-261.6	477		0.014		48.4	1.41
RS-D341-99 261.6-263.6	509	404	0.015	0.012	6.6	0.19
RS-D341-99 263.6-266.5	465		0.014		6.7	0.20
RS-D341-99 266.5-268.6	75		0.002		3.6	0.11
RS-D341-99 268.6-270.0	36		0.001		14.1	0.41
RS-D341-99 270.0-275.1	1451	1308	0.042	0.038	19.3	0.56
RS-D341-99 275.1-277.5	150		0.004		10.1	0.29
RS-D341-99 277.5-281.0	474		0.014		4.2	0.12
RS-D341-99 281.0-284.6	927		0.027		29.4	0.86
RS-D341-99 284.6-288.3	93		0.003		3.7	0.11
RS-D341-99 288.3-291.6	30		<0.001		4.8	0.14
RS-D341-99 291.6-295.0	198		0.006		4.7	0.14
RS-D341-99 295-300	30		<0.001		2.6	0.08
RS-D341-99 300-305	12		<0.001		1.6	0.05
RS-D341-99 305-310	33		<0.001		2.9	0.08
RS-D341-99 310.0-313.2	30		<0.001		3.5	0.10
RS-D341-99 313.2-315.0	1152		0.034		53.7	1.57
RS-D341-99 315.0-318.5	180		0.005		19.6	0.57

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP052809

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 318.5-322.0	3303	3238	0.096	0.094	113.0	3.30
RS-D341-99 322-325	33		<0.001		2.5	0.07
RS-D341-99 325-330	30		<0.001		2.4	0.07
RS-D341-99 330-335	75		0.002		3.4	0.10
RS-D341-99 335-339	27		<0.001		3.4	0.10
RS-D341-99 339.0-343.1	138		0.004		6.0	0.18
RS-D341-99 343.1-347.3	54		0.002		5.3	0.15
RS-D341-99 347.3-350.0	30		<0.001		4.3	0.13
RS-D341-99 350.0-355.8	24		<0.001		2.3	0.07
RS-D341-99 355.8-360.0	18		<0.001		2.9	0.08
RS-D341-99 360-365	18		<0.001		1.5	0.04
RS-D341-99 365-370	27		<0.001		3.4	0.10
RS-D341-99 370-375	22		<0.001		1.5	0.04
RS-D341-99 375-380	15		<0.001		1.9	0.06
RS-D341-99 380-384	18		<0.001		1.3	0.04
RS-D341-99 384-387	21		<0.001		1.4	0.04
RS-D341-99 387-390	174		0.005		78.0	2.28
RS-D341-99 390-394	348		0.010		45.2	1.32
RS-D341-99 394-398	51		0.001		18.5	0.54
RS-D341-99 398.0-402.2	135		0.004		3.5	0.10
RS-D341-99 402.2-406.2	578	784	0.017	0.023	17.0	0.50
RS-D341-99 406.2-409.0	327		0.010		5.5	0.16
RS-D341-99 409.0-411.5	216		0.006		4.0	0.12
RS-D341-99 411.5-414.0	180		0.005		5.3	0.15
RS-D341-99 414-420	SAMPLE NOT RECEIVED					

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP052809

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 420.0-426.2	21		<0.001		2.6	0.08
RS-D341-99 426.2-430.0	21		<0.001		2.5	0.07
RS-D341-99 430-434	21		<0.001		3.3	0.10
RS-D341-99 434.0-437.6	153		0.004		8.0	0.23
RS-D341-99 437.6-441.0	321		0.009		18.8	0.55
RS-D341-99 441-445	276		0.008		43.7	1.27
RS-D341-99 445-450	2313	2022	0.067	0.059	50.8	1.48
RS-D341-99 450.0-454.5	399		0.012		69.6	2.03
RS-D341-99 454.5-460.0	60		0.002		7.2	0.21
RS-D341-99 460-465	183		0.005		6.4	0.19
RS-D341-99 465.0-468.4	225		0.007		8.4	0.25
RS-D341-99 468.4-473.5	228		0.007		10.4	0.30
RS-D341-99 473.5-476.5	399		0.012		10.8	0.32
RS-D341-99 476.5-480.0	1611	1648	0.047	0.048	85.8	2.50
RS-D341-99 480.0-481.5	150		0.004		14.5	0.42
RS-D341-99 480.0-481.5B	96		0.003		<0.5	<0.02
RS-D341-99 481.5-486.0	138		0.004		3.3	0.10
RS-D341-99 486.0-488.9	60		0.002		2.7	0.08
RS-D341-99 488.9-490.0	153		0.004		6.1	0.18
RS-D341-99 490-500	129		0.004		5.7	0.17
RS-D341-99 500-512		SAMPLE NOT RECEIVED				
RS-D341-99 512-515	120		0.004		4.1	0.12
RS-D341-99 515-518	57		0.002		3.2	0.09
RS-D341-99 518-521	195		0.006		13.5	0.39
RS-D341-99 521-524	384		0.011		4.7	0.14

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP052809

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D341-99

REPORTED : 15 MAR 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D341-99 524-526	105		0.003		5.2	0.15
RS-D341-99 526-528	201		0.006		4.5	0.13
RS-D341-99 528-534	SAMPLE NOT RECEIVED					
RS-D341-99 534-537	12		<0.001		1.8	0.05
RS-D341-99 537-540	<5		<0.001		<0.5	<0.02
RS-D341-99 540-543	<5		<0.001		<0.5	<0.02
RS-D341-99 543-545	SAMPLE NOT RECEIVED					
RS-D341-99 545-547	<5		<0.001		<0.5	<0.02
RS-D341-99 547-550	234	210	0.007	0.006	1.8	0.05
RS-D341-99 550-554	78		0.002		4.6	0.13
RS-D341-99 554-556	SAMPLE NOT RECEIVED					
RS-D341-99 556-558	24		<0.001		3.5	0.10
RS-D341-99 558-560	105		0.003		3.5	0.10
RS-D341-99 560-564	75		0.002		<0.5	<0.02
RS-D341-99 564-566	36		0.001		<0.5	<0.02
RS-D341-99 566-570	42		0.001		<0.5	<0.02
RS-D341-99 570-572	24		<0.001		2.5	0.07
RS-D341-99 572-574	189		0.006		4.0	0.12
RS-D341-99 574-577	78		0.002		11.8	0.34
RS-D341-99 577-580	18		<0.001		1.1	0.03
RS-D341-99 580-584	42		0.001		2.6	0.08
RS-D341-99 584-586	834	856	0.024	0.025	40.0	1.17
RS-D341-99 586-590	156		0.005		14.6	0.43
RS-D341-99 590-595	264		0.008		2.4	0.07
RS-D341-99 595-600	237		0.007		2.7	0.08

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP052809
METHOD: AAL 01-2 + Se

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

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm
RS-D341-99 00-20	0.7	1.5	32	3	112	< 3	1.3	0.3
RS-D341-99 20.0-41.3	4.5	0.89	62	< 3	34	< 3	0.91	0.3
RS-D341-99 41.3-60.8	14.8	0.95	120	< 3	25	< 3	0.66	0.2
RS-D341-99 60.8-85.0	1.5	1.12	109	3	21	< 3	0.25	0.2
RS-D341-99 85-105	14.5	0.85	110	< 3	59	< 3	0.12	0.5
RS-D341-99 105.0-116.5	58.3	0.65	109	3	33	< 3	0.08	1
RS-D341-99 116.5-120.5	1.7	1.51	149	< 3	22	< 3	0.16	0.5
RS-D341-99 120.5-139.5	2.3	0.63	80	5	26	< 3	0.07	9.4
RS-D341-99 139.5-160.0	1.7	0.63	81	5	30	< 3	0.13	7.2
RS-D341-99 160-180	2.7	0.49	81	4	36	< 3	0.11	12.2
RS-D341-99 180-200	3.9	0.54	102	3	30	< 3	0.23	22.3
RS-D341-99 200-220	1.9	0.48	100	4	23	< 3	0.21	11.8
RS-D341-99 220-229	2.9	0.5	80	4	24	< 3	0.22	15.8
RS-D341-99 229-247	51	0.55	201	5	33	< 3	0.15	19.6
RS-D341-99 247.0-263.6	49.4	0.46	138	4	40	< 3	0.14	11.9
RS-D341-99 263.6-270.0	8.5	0.44	48	< 3	66	< 3	0.12	5.5
RS-D341-99 270.0-275.1	24	0.42	39	3	45	< 3	0.1	0.4
RS-D341-99 277.5-284.6	15.2	0.53	50	< 3	446	< 3	0.14	0.2
RS-D341-99 284.6-300.0	3.7	0.43	109	3	23	< 3	0.21	15.8
RS-D341-99 300-322	31.4	0.58	165	5	35	< 3	0.18	9.4
RS-D341-99 322.0-343.1	3.2	0.64	125	7	22	< 3	0.26	14.3
RS-D341-99 343.1-360.0	3	0.51	102	8	27	< 3	0.23	14.3
RS-D341-99 360-380	2.1	0.47	83	4	22	< 3	0.16	8.9
RS-D341-99 380-398	26.1	0.56	88	6	29	< 3	0.17	5.2
RS-D341-99 398-414	6.5	0.46	160	4	18	< 3	0.1	12.2
RS-D341-99 420.0-437.6	4.5	0.51	124	5	22	< 3	0.14	23.3
RS-D341-99 437.6-454.5	43.2	0.54	162	6	25	< 3	0.12	14.5
RS-D341-99 454.5-468.4	6.4	0.46	108	4	29	< 3	0.06	14.3
RS-D341-99 468.4-481.5	33.5	0.32	168	3	40	< 3	0.03	3
RS-D341-99 481.5-500.0	4.2	0.36	55	6	49	< 3	0.05	0.7

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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
3	6	8	1.8	55	0.65	25	0.15	543	1	0.03	3	0.056	18	3	6.2	121	5	< .01	< 8	4	< 2	67
2	3	27	1.72	65	0.36	20	0.11	332	< 1	0.02	2	0.047	15	3	11.3	92	3	< .01	< 8	2	< 2	70
3	2	112	2.19	35	0.4	22	0.09	1207	1	0.02	1	0.045	19	3	16.8	60	3	< .01	< 8	2	< 2	142
3	2	20	2.35	100	0.46	20	0.07	482	1	0.01	2	0.029	16	< 3	14.3	63	4	< .01	< 8	3	2	99
4	4	91	1.61	50	0.33	10	0.05	39	1	0.01	4	0.003	15	3	14.4	29	3	< .01	23	2	< 2	69
14	7	30	1.56	385	0.19	15	0.03	70	2	0.01	18	0.073	10	14	23.2	43	3	< .01	31	2	< 2	263
4	3	104	1.6	605	0.6	83	0.08	36	2	0.01	16	0.016	34	5	12.6	12	18	< .01	< 8	1	< 2	579
7	6	54	3.11	70	0.18	5	0.03	54	21	0.01	45	0.032	7	13	17.3	39	2	< .01	< 8	16	< 2	730
9	11	45	2.92	140	0.21	7	0.05	108	19	0.01	48	0.056	8	13	15.1	40	2	< .01	< 8	17	< 2	585
8	9	58	2.49	165	0.2	7	0.04	78	23	0.01	52	0.049	8	15	15.7	46	3	< .01	< 8	18	< 2	929
10	8	72	2.95	70	0.22	8	0.06	77	32	0.01	63	0.083	13	16	20.9	56	4	< .01	< 8	22	< 2	1382
10	10	67	2.97	15	0.22	7	0.06	79	31	0.01	66	0.072	11	18	18	16	3	< .01	< 8	29	< 2	962
10	8	61	2.75	55	0.24	7	0.04	83	27	0.01	49	0.075	12	17	15.5	18	3	< .01	< 8	18	< 2	1093
9	16	66	2.87	120	0.22	6	0.04	113	30	0.01	59	0.069	10	46	35.3	87	2	< .01	< 8	27	< 2	1342
6	14	53	2.45	110	0.19	6	0.04	111	20	0.01	38	0.058	7	106	26.2	76	< 2	< .01	< 8	16	< 2	798
2	9	19	1.9	30	0.2	6	0.03	71	11	0.01	16	0.019	8	7	7.7	41	2	< .01	< 8	7	< 2	388
< 1	10	9	1.05	30	0.16	6	0.03	90	2	0.01	6	0.003	4	10	10.4	7	< 2	< .01	< 8	2	< 2	22
1	6	6	0.68	30	0.21	9	0.03	51	1	0.01	3	0.005	10	5	7.8	8	2	< .01	< 8	1	< 2	24
8	10	68	2.71	70	0.23	5	0.04	94	31	< .01	55	0.068	9	13	17.6	18	3	< .01	< 8	19	< 2	1125
7	15	62	2.85	45	0.27	6	0.05	120	17	0.01	37	0.058	9	14	21.9	14	2	< .01	< 8	20	< 2	750
11	24	93	4.83	45	0.31	6	0.05	242	41	0.01	70	0.09	10	12	14.3	22	3	< .01	< 8	38	< 2	1257
10	30	96	5.79	115	0.25	5	0.04	350	33	0.01	68	0.076	10	17	16.5	25	2	< .01	< 8	29	< 2	1172
9	10	60	3.51	50	0.23	5	0.04	79	14	0.01	40	0.055	8	39	13.8	39	3	< .01	< 8	16	< 2	635
7	12	46	2.79	55	0.25	7	0.05	87	10	0.01	27	0.057	9	14	20.9	25	3	< .01	< 8	20	< 2	399
8	9	53	2.92	75	0.19	5	0.05	77	19	0.01	41	0.041	9	18	21.3	25	3	< .01	< 8	19	< 2	892
13	11	108	3.44	100	0.23	5	0.04	103	55	0.01	127	0.062	13	29	25.3	27	3	< .01	< 8	39	< 2	1596
7	15	61	2.65	135	0.19	6	0.04	117	52	0.01	108	0.072	11	32	23.1	59	2	< .01	< 8	35	< 2	1125
10	10	78	2.7	195	0.17	4	0.03	93	30	< .01	87	0.031	10	25	21.8	32	2	< .01	< 8	26	< 2	1028
3	18	26	2.07	110	0.11	3	0.03	139	16	< .01	34	0.015	< 3	29	14	26	2	< .01	< 8	11	< 2	248
8	9	25	2.52	435	0.14	4	0.04	70	37	< .01	59	0.032	6	21	5	20	2	< .01	< 8	6	< 2	80

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP052809
METHOD: AAL 01-2 + Se

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ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm
RS-D341-99 512-528	5.4	0.39	78	5	52	< 3	0.05	0.8
RS-D341-99 534-543	1.5	3.3	24	8	38	< 3	0.06	2.8
RS-D341-99 545-554	2.9	1.08	41	6	95	< 3	0.07	1.5
RS-D341-99 556-570	2	3.1	34	6	54	< 3	0.04	1.6
STANDARD C3	5.6	1.75	55	20	145	23	0.56	23
STANDARD G-2	0.4	0.91	2	< 3	219	3	0.66	< .2
RS-D341-99 570-584	5.8	2.67	41	7	14	< 3	0.11	3.7
RS-D341-99 584-600	14.5	0.5	77	6	55	< 3	0.1	3.8

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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
8	9	33	2.33	185	0.13	5	0.04	74	22	0.01	43	0.035	6	17	8.2	29	3	< .01	< 8	7	< 2	81
15	9	47	3.25	90	0.23	5	0.07	74	75	0.01	98	0.149	12	52	4.4	11	5	< .01	< 8	44	< 2	135
7	9	30	3.59	60	0.16	6	0.07	81	44	0.01	51	0.098	6	18	5.2	9	4	< .01	< 8	17	< 2	206
12	8	38	3.36	70	0.21	8	0.07	57	76	0.01	105	0.176	12	25	5.5	21	5	< .01	< 8	21	< 2	271
11	172	65	3.11	970	0.17	18	0.61	797	25	0.04	36	0.086	34	11	1.2	28	20	0.09	30	78	14	171
4	79	3	1.91	< 10	0.43	8	0.63	566	2	0.07	8	0.094	3	< 3	< .1	70	5	0.14	< 8	42	3	49
10	10	38	2.91	55	0.17	5	0.08	82	57	0.01	110	0.125	14	12	9.1	42	4	< .01	< 8	38	< 2	219
5	11	25	2.02	45	0.18	5	0.06	86	35	< .01	64	0.057	8	16	11.9	25	3	< .01	< 8	15	< 2	279

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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

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

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

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Co

Address:

City Winnemucca State NV Zip 89445

Telephone Number: ( ) Fax Number: ( )

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 3-14-99 Number of Samples: 145 +1 Pulp

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-D 341-99	Core	FA 30 Au, Ag D210
		AAL 1/2 ICP + Se
		(Composited as shown on
		attachment)
Standard: 481.5 B	Pulp	Au Ag only
(NO ICP)		

PEEL HERE
481.5 B
MS-1
(RMG1)
RS-D 341-99

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 Ballew
Winnemucca

Results to:

Randy Vance Newmont
Winnemucca
Kurt Allen Rosebud Min.
Winnemucca

Comments:

Newmont Rosebud standard Prep

CLIENT FILE COPY

RS-D341-99

Depth From	To	Interval	Au	Ag	ICP	Composite Interval	Sample Number	Checks
0	5	5	x	x			1	
5	10	5	x	x			2	
10	15	5	x	x			3	
15	20	5	x	x	x	20	4	
20	25	5	x	x			5	
25	30	5	x	x			6	
30	35	5	x	x			7	
35	41.3	6.3	x	x	x	21.3	8	
41.3	43.5	2.2	x	x			9	
43.5	47.5	4	x	x			10	
47.5	50	2.5	x	x			11	
50	55	5	x	x			12	
55	60	5	x	x	x	18.7	13	
60	65	5	x	x			14	
65	70	5	x	x			15	
70	75	5	x	x			16	
75	80	5	x	x			17	
80	85	5	x	x	x	20	18	
85	90	5	x	x			19	
90	95	5	x	x			20	
95	100	5	x	x			21	
100	105	5	x	x	x	20	22	
105	110	5	x	x			23	
110	114.5	4.5	x	x			24	
114.5	116.5	2	x	x	x	6.5	25	
116.5	120.5	4	x	x	x	4	26	
120.5	125	4.5	x	x			27	
125	130	5	x	x			28	
130	134	4	x	x			29	
134	139.5	5.5	x	x	x	19	30	
139.5	145	5.5	x	x			31	
145	150	5	x	x			32	
150	155	5	x	x			33	
155	160	5	x	x	x	20.5	34	
160	165	5	x	x			35	
165	170	5	x	x			36	
170	175	5	x	x			37	
175	180	5	x	x	x	20	38	
180	185	5	x	x			39	
185	188	3	x	x			40	
188	192.5	4.5	x	x			41	
192.5	195	2.5	x	x			42	
195	200	5	x	x	x	20	43	

200	205	5	x	x			44
205	210	5	x	x			45
210	213.4	3.4	x	x			46
213.4	215	1.6	x	x	x	15	47
215	220	5	x	x			48
220	225	5	x	x			49
225	229	4	x	x	x	14	50
229	235	6	x	x			51
235	240.2	5.2	x	x			52
240.2	244.1	3.9	x	x			53
244.1	247	2.9	x	x	x	18	54
247	250	3	x	x			55
250	252	2	x	x			56
252	255	3	x	x			57
255	257.8	2.8	x	x			58
257.8	261.6	3.8	x	x			59
261.6	263.6	2	x	x	x	16.6	60
263.6	266.5	2.9	x	x			61
266.5	268.6	2.1	x	x			62
268.6	270	1.4	x	x	x	6.4	63
270	275.1	5.1	x	x	x	5.1	64
275.1	277.5	2.4	x	x			65
277.5	281	3.5	x	x			66
281	284.6	3.6	x	x	x	7.1	67
284.6	288.3	3.7	x	x			68
288.3	291.6	3.3	x	x			69
291.6	295	3.4	x	x			70
295	300	5	x	x	x	15.4	71
300	305	5	x	x			72
305	310	5	x	x			73
310	313.2	3.2	x	x			74
313.2	315	1.8	x	x			75
315	318.5	3.5	x	x			76
318.5	322	3.5	x	x	x	22	77
322	325	3	x	x			78
325	330	5	x	x			79
330	335	5	x	x			80
335	339	4	x	x			81
339	343.1	4.1	x	x	x	21.1	82
343.1	347.3	4.2	x	x			83
347.3	350	2.7	x	x			84
350	355.8	5.8	x	x			85
355.8	360	4.2	x	x	x	16.9	86
360	365	5	x	x			87
365	370	5	x	x			88
370	375	5	x	x			89
375	380	5	x	x	x	20	90

380	384	4	x	x			91	
384	387	3	x	x			92	
387	390	3	x	x			93	
390	394	4	x	x			94	
394	398	4	x	x	x	18	95	
398	402.2	4.2	x	x			96	
402.2	406.2	4	x	x			97	
406.2	409	2.8	x	x			98	
409	411.5	2.5	x	x			99	
411.5	414	2.5	x	x	x	16	100	
414	420	6			NO SAMPLE			
420	426.2	6.2	x	x			101	
426.2	430	3.8	x	x			102	
430	434	4	x	x			103	
434	437.6	3.6	x	x	x	17.6	104	
437.6	441	3.4	x	x			105	
441	445	4	x	x			106	
445	450	5	x	x			107	
450	454.5	4.5	x	x	x	21	108	
454.5	460	5.5	x	x			109	
460	465	5	x	x			110	
465	468.4	3.4	x	x	x	13.9	111	
468.4	473.5	5.1	x	x			112	
473.5	476.5	3	x	x			113	
476.5	480	3.5	x	x			114	
480	481.5	1.5	x	x	x	13.1	115	481.5B
481.5	486	4.5	x	x			116	
486	488.9	2.9	x	x			117	
488.9	490	1.1	x	x			118	
490	500	10	x	x	x	18.5	119	
500	512	12			NO SAMPLE			
512	515	3	x	x			120	
515	518	3	x	x			121	
518	521	3	x	x			122	
521	524	3	x	x			123	
524	526	2	x	x			124	
526	528	2	x	x	x	16	125	
528	534	6			NO SAMPLE			
534	537	3	x	x			126	
537	540	3	x	x			127	
540	543	3	x	x	x	9	128	
543	545	2			NO SAMPLE			
545	547	2	x	x			129	
547	550	3	x	x			130	
550	554	4	x	x	x		131	
554	556	2			NO SAMPLE			

556	558	2	x	x			132
558	560	2	x	x			133
560	564	4	x	x			134
564	566	2	x	x			135
566	570	4	x	x	x	14	136
570	572	2	x	x			137
572	574	2	x	x			138
574	577	3	x	x			139
577	580	3	x	x			140
580	584	4	x	x	x	14	141
584	586	2	x	x			142
586	590	4	x	x			143
590	595	5	x	x			144
595	600	5	x	x	x	16	145

Down Hole Survey Data
RS-D341-99

Footage	Measured Azimuth	Correction -15.66	Measured Dip	Calculated Dip
40	72	123.7	75.75	-14.3
300	75.5	120.2	73.25	-16.8
600	76	119.7	70.5	-19.5

DLM

Accepted ranges for gold by fire assay (94/4/20)

± %

W SMP.

	Standard	Best Value	Standard Deviation	(--accepted range--) min	-	max
sorted by standard name	GO1	12.884	0.653	11.578	-	14.190
	GO2	0.445	0.033	0.380	-	0.510
	GO3	6.627	0.331	5.965	-	7.289
	MS1	0.103	0.016	0.071	-	0.135
	MS2	0.145	0.020	0.105	-	0.185
	MS3	1.007	0.092	0.823	-	1.191
	SAP	0.264	0.020	0.223	-	0.305
	SB	0.059	0.009	0.042	-	0.077
	SB2	0.052	0.008	0.036	-	0.068
	SG	0.129	0.013	0.103	-	0.155
	SMC	0.003	0.002	0.000	-	0.006
	SN1	0.389	0.040	0.309	-	0.469
	SOT	0.278	0.024	0.230	-	0.326
	SV	0.051	0.011	0.030	-	0.072
	SB2	0.039	0.010		-	
					-	
					-	
sorted by best value	GO1	12.884	0.653	11.578	-	14.190
	GO3	6.627	0.331	5.965	-	7.289
	MS3-12	1.007	0.092	0.823	-	1.191
	GO2	0.445	0.033	0.380	-	0.510
	SN1	0.389	0.040	0.309	-	0.469
	SOT	0.278	0.024	0.230	-	0.326
	SAP	0.264	0.020	0.223	-	0.305
	MS2	0.145	0.020	0.105	-	0.185
	SG	0.129	0.013	0.103	-	0.155
	MS1	0.103	0.016	0.071	-	0.135
	SB	0.059	0.009	0.042	-	0.077
	SB2	0.052	0.008	0.036	-	0.068
	SV	0.051	0.011	0.030	-	0.072
	SMC	0.003	0.002	0.000	-	0.006

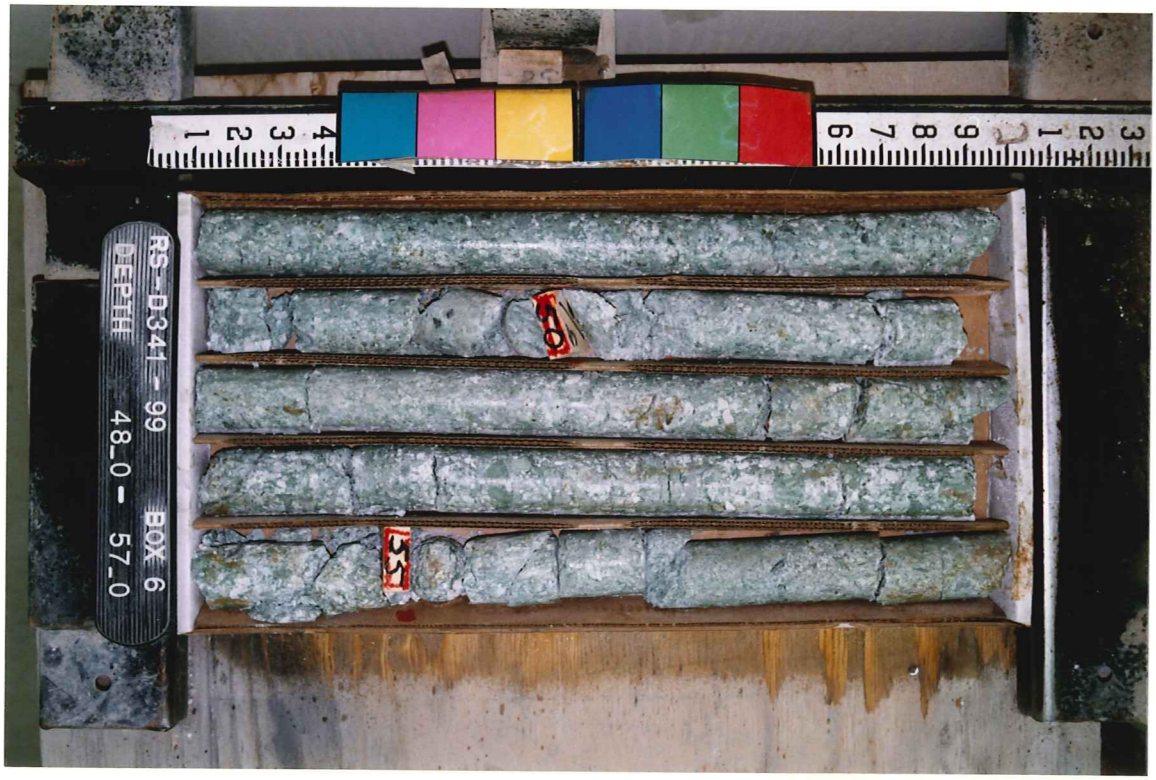
RS-D341-99 BOX 2
DEPTH 9_0 - 19_0

RS-D341-99 BOX 1
DEPTH 0_0 - 9_0

RS-D341-99 BOX 3
DEPTH 19_0 - 28_0

47.5
47.5
41.3
45
40
RS-D341-99 BOX 5
DEPTH 38_0 - 48_0

30
35
RS-D341-99 BOX 4
DEPTH 28_0 - 38_0


50
55
RS-D341-99 BOX 6
DEPTH 48_0 - 57_0

RS-D341-99 BOX 8
DEPTH 66_8- 75_0

RS-D341-99 BOX 7
DEPTH 57_0- 66_8

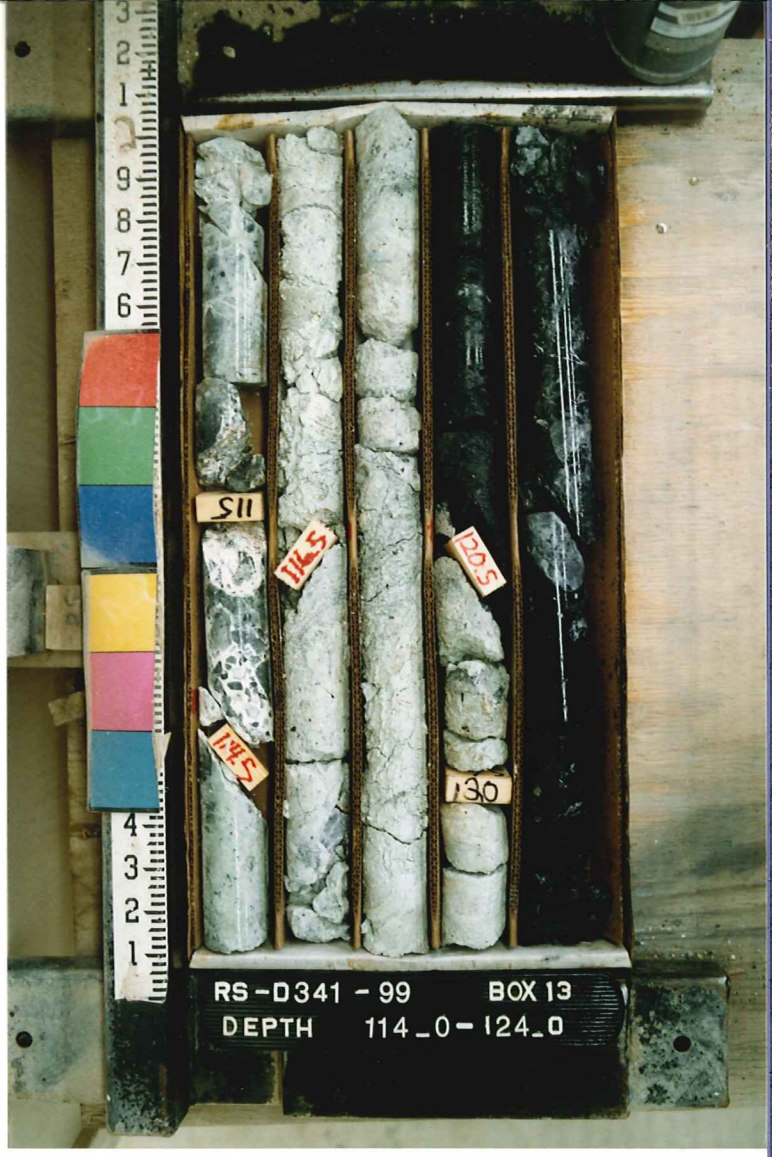
RS-D341-99 BOX 9
DEPTH 75_0- 85_0

RS-D341-99 BOX 11
DEPTH 94_5 - 105_0

RS-D341-99 BOX 10
DEPTH 85_0 - 94_5

RS-D341-99 BOX 12
DEPTH 105_0 - 114_0

125
130
RS-D341 - 99 BOX 14
DEPTH 124_0-134_0


115
114.5
120.5
114.5
130
RS-D341 - 99 BOX 13
DEPTH 114_0-124_0

134
137.5
RS-D341 - 99 BOX 15
DEPTH 134_0-143_5

155
160
RS-D341 - 99 BOX17
DEPTH 153_0 - 162_0

145
150
RS-D341 - 99 BOX16
DEPTH 143_5 - 153_

165
170
RS-D341 - 99 BOX18
DEPTH 162_0 - 171_0

5/5
190
185
188
RS-D341 - 99 BOX20
DEPTH 180_5-190_0

180
175
RS-D341 - 99 BOX19
DEPTH 171_0-180_5

197.5
195
RS-D341 - 99 BOX21
DEPTH 190_0-201_0

RS-D341-99 BOX 23
DEPTH 212_5-221_5

RS-D341-99 BOX22
DEPTH 201_0-212_5

RS-D341-99 BOX 24
DEPTH 221_5-230_0
230

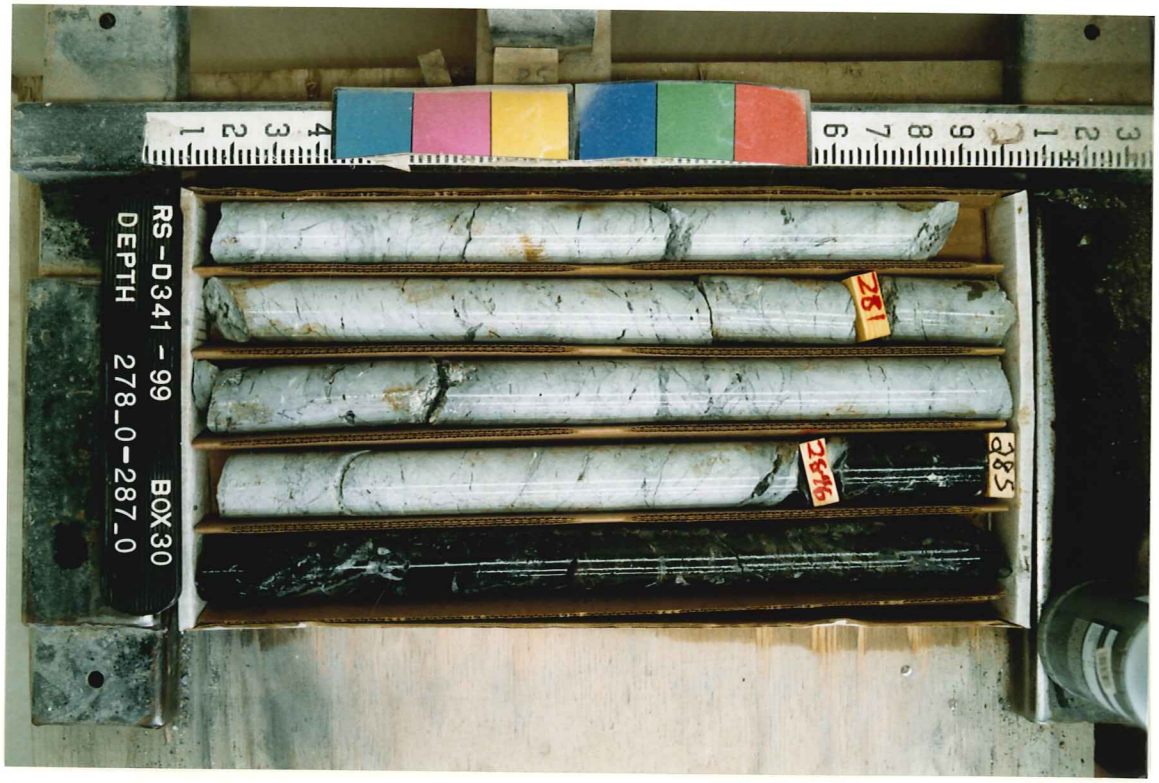
244.1
250
245
247
240.2
RS-D341-99 BOX 26
DEPTH 240_0-250_0

RS-D341-99 BOX 25
DEPTH 230_0-240_0

RS-D341-99 BOX 27
DEPTH 250_0-260_0

RS-D341 - 99 BOX 29
DEPTH 269_0-278_0
270
275.1
273
277.5

RS-D341 - 99 BOX 28
DEPTH 260_0-269_0
261.6
263.6
265
266.5


RS-D341 - 99 BOX 30
DEPTH 278_0-287_0
281
285
286

RS-D341-99 BOX32
DEPTH 296_0-306_0

RS-D341-99 BOX31
DEPTH 287_0-296_0

RS-D341-99 BOX33
DEPTH 306_0-315_0

325
330
RS-D341 - 99 BOX35
DEPTH 324_0-334_0

318.5
325
RS-D341 - 99 BOX34
DEPTH 315_0-324_0

335
339
RS-D341 - 99 BOX36
DEPTH 334_0-342_0

355
355B
RS-D341-99 BOX38
DEPTH 351_0-360_0

350
347.3
343.1
345
RS-D341-99 BOX37
DEPTH 342_0-351_0

360
365
RS-D341-99 BOX39
DEPTH 360_0-368_0

387
390
387
RS-D341 - 99 BOX41
DEPTH 381_5-390_5

375
RS-D341 - 99 BOX40
DEPTH 368_0-381_5

394
398
RS-D341 - 99 BOX42
DEPTH 390_5-399_5

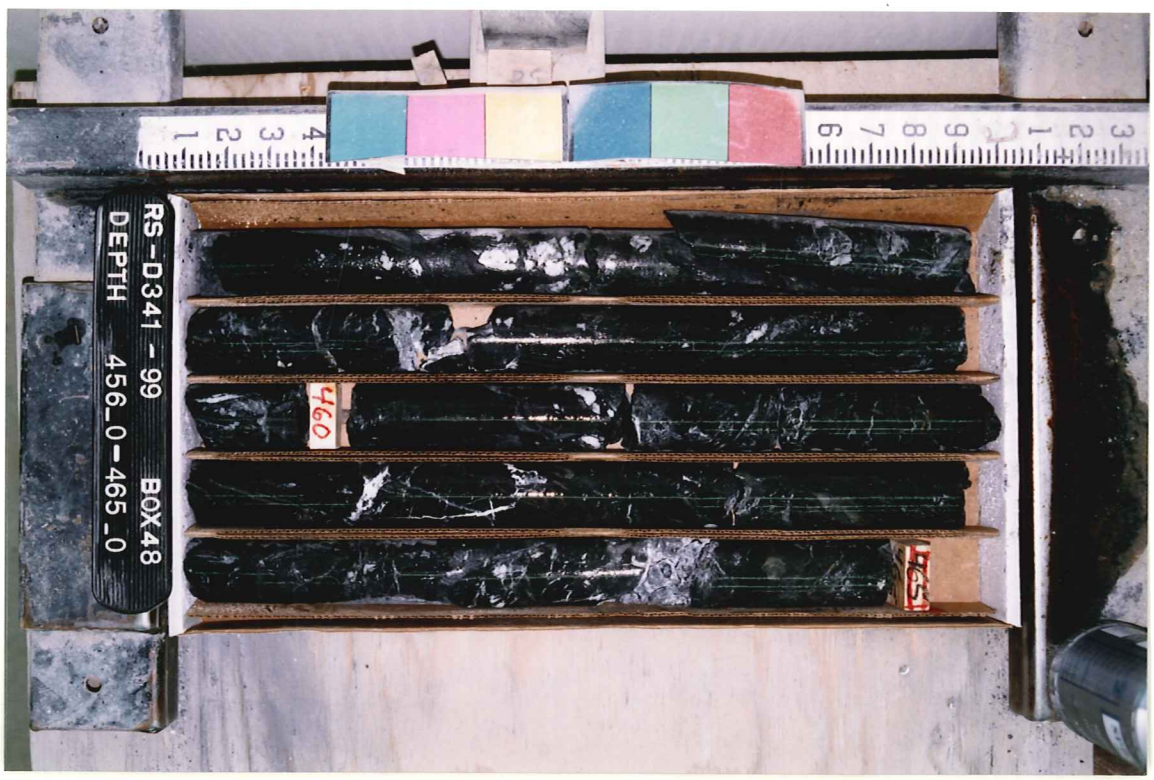
VOID
410
4262
RS-D341 - 99 BOX44
DEPTH 409_5 - 428_0

709
4062
400
RS-D341 - 99 BOX43
DEPTH 399_5 - 409_5

434
RS-D341 - 99 BOX45
DEPTH 428_0 - 437_5

450
455
454.5
RS-D341-99 BOX47
DEPTH 447_0-456_0

438
437.6
441
445
RS-D341-99 BOX46
DEPTH 437_5-447_0


RS-D341-99 BOX48
DEPTH 456_0-465_0
460
465

480
481.5
476.5
474.5
RS-D341-99 BOX 50
DEPTH 474_0-484_0

468.4
RS-D341-99 BOX 49
DEPTH 465_0-474_0

486
480
484.5
508
512
518
RS-D341-99 BOX 51
DEPTH 484_0-518_0

RS-D341-99 BOX53
DEPTH 547_0-566_0

RS-D341-99 BOX52
DEPTH 518_0-547_0

RS-D341-99 BOX54
DEPTH 566_0-588_0

595
590
600
RS-D341-99 BOX55
DEPTH 588_0- 600_0TD

WELL RSD-341-99

DEPTH 40

PICTURE NO.

INCLINATION -14

OBS. DIR. 76

COR. DIR. 60?

TOOL FACE

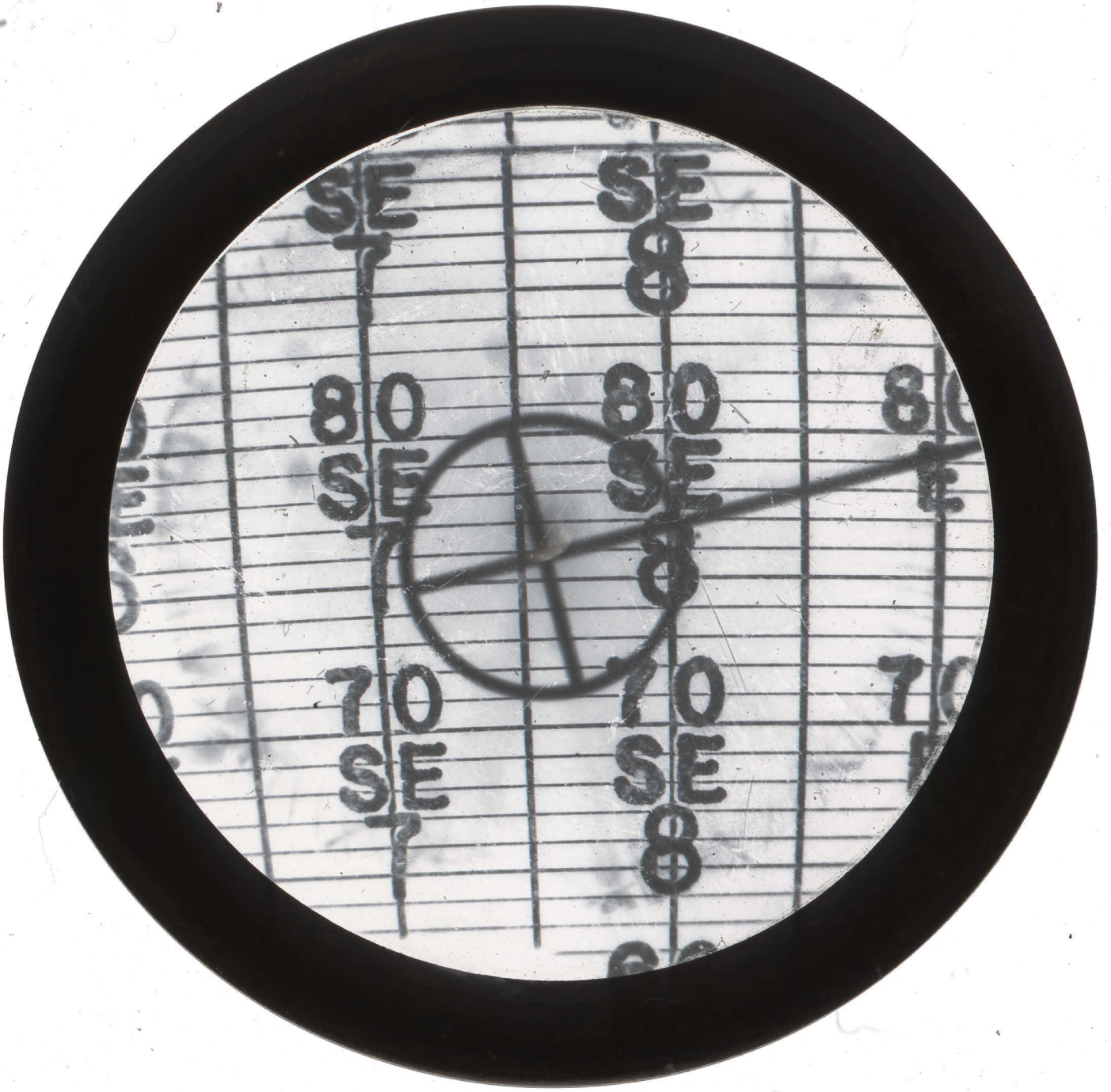
RUN BY Hughes

DATE 3-10-99

CHECKED BY

sperry-sun

DRILLING SERVICES


SE
SE
80
80
SE
SE
70
70
SE
SE

WELL RSD-341-99

DEPTH 600

PICTURE NO.

INCLINATION

OBS. DIR. 76

COR. DIR. 60.7

TOOL FACE

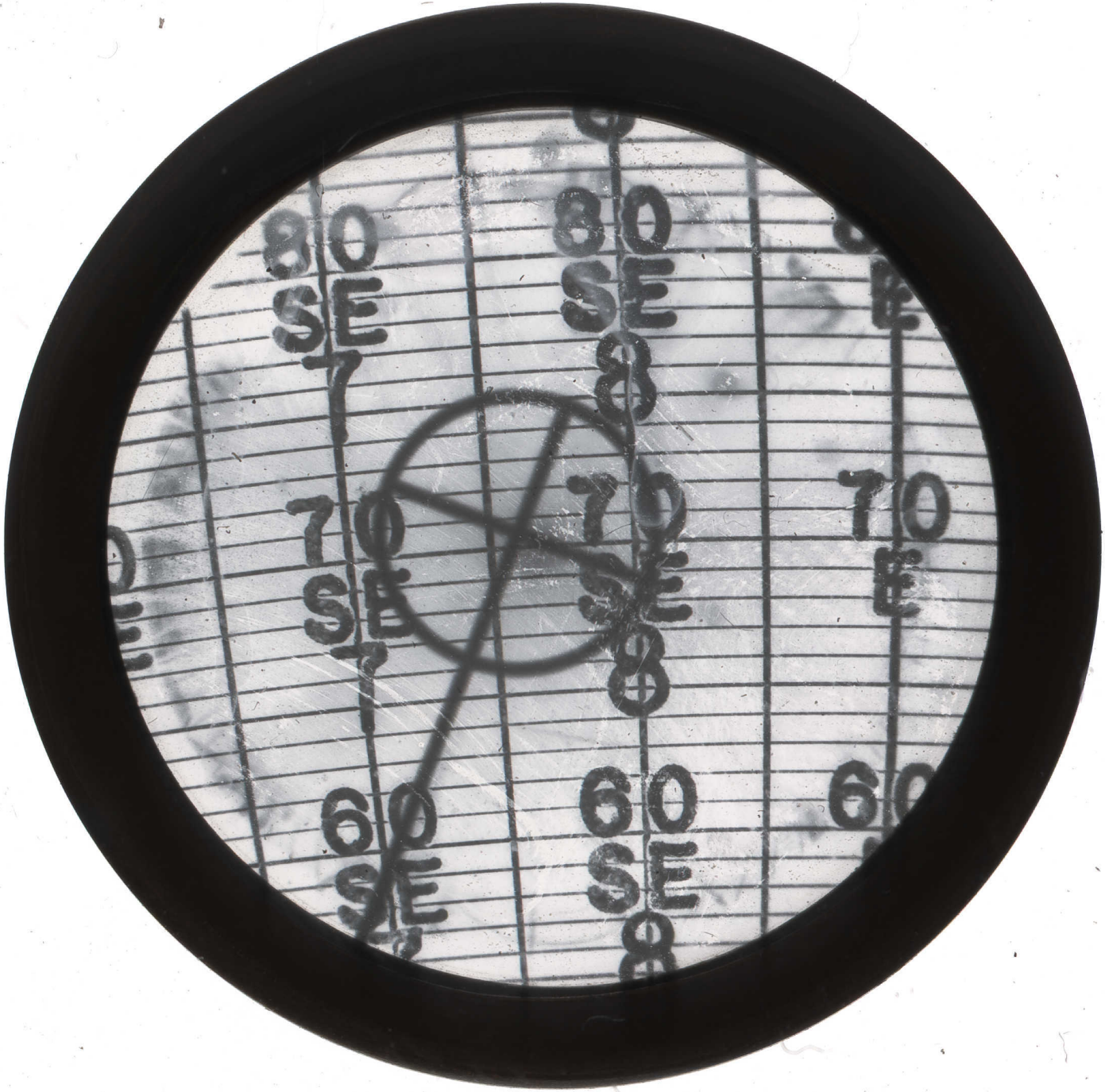
RUN BY Hughes

DATE 3-10-99

CHECKED BY

sperry-sun

DRILLING SERVICES


80
SE
70
SE
60
SE
80
SE
70
SE
60
SE
70
E
60

WELL RSD-341-99

DEPTH 300

PICTURE NO.

INCLINATION

OBS. DIR. TSS

COR. DIR. 60.5

TOOL FACE

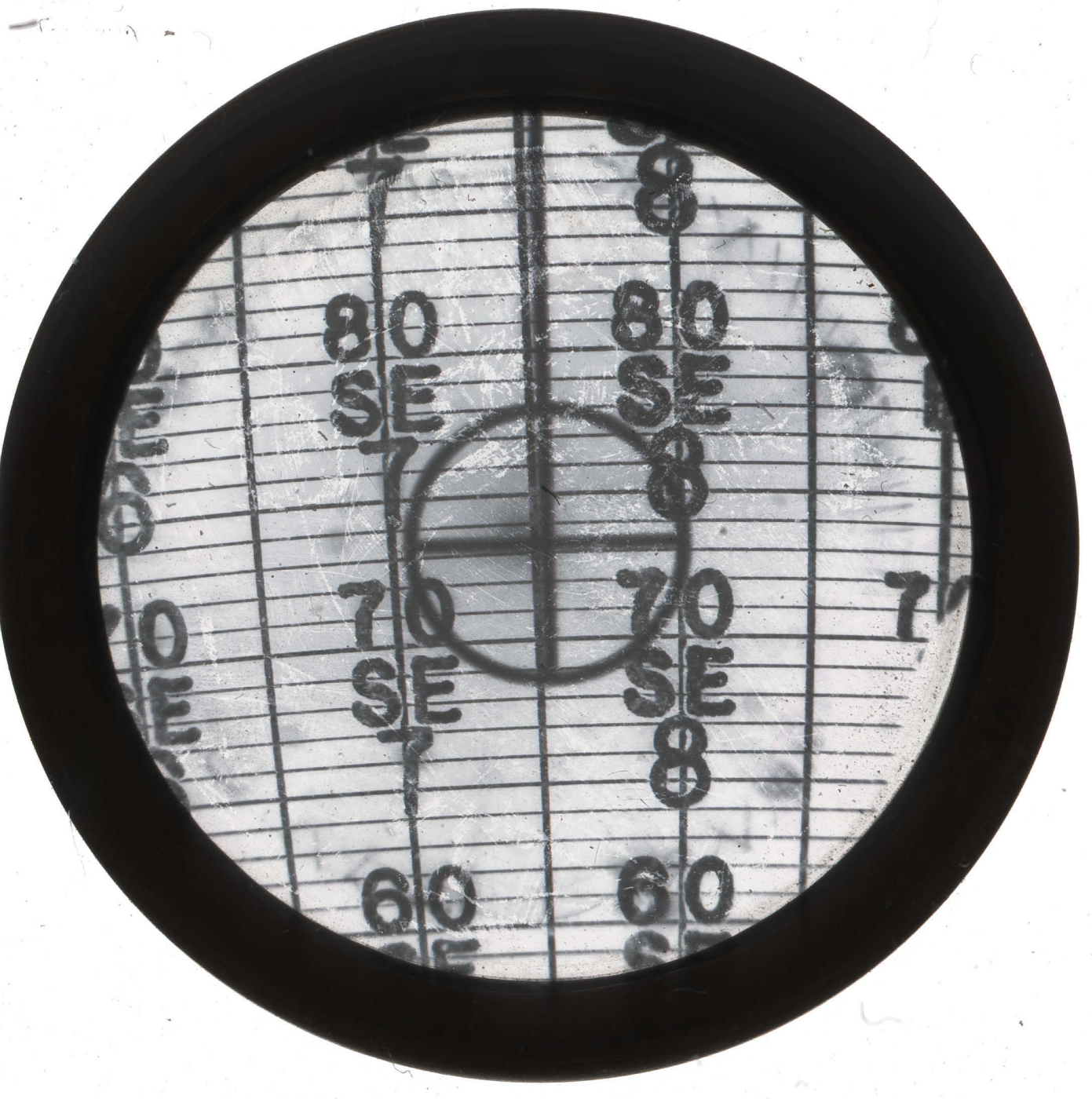
RUN BY Hughes

DATE 3-10-99

CHECKED BY

sperry-sun

DRILLING SERVICES


80
SE
70
SE
60
80
SE
70
SE
60

WELL RSD 341-99

DEPTH 75

PICTURE NO.

INCLINATION

OBS. DIR. DON'T

COR. DIR. USE DBD 3-15-91

TOOL FACE

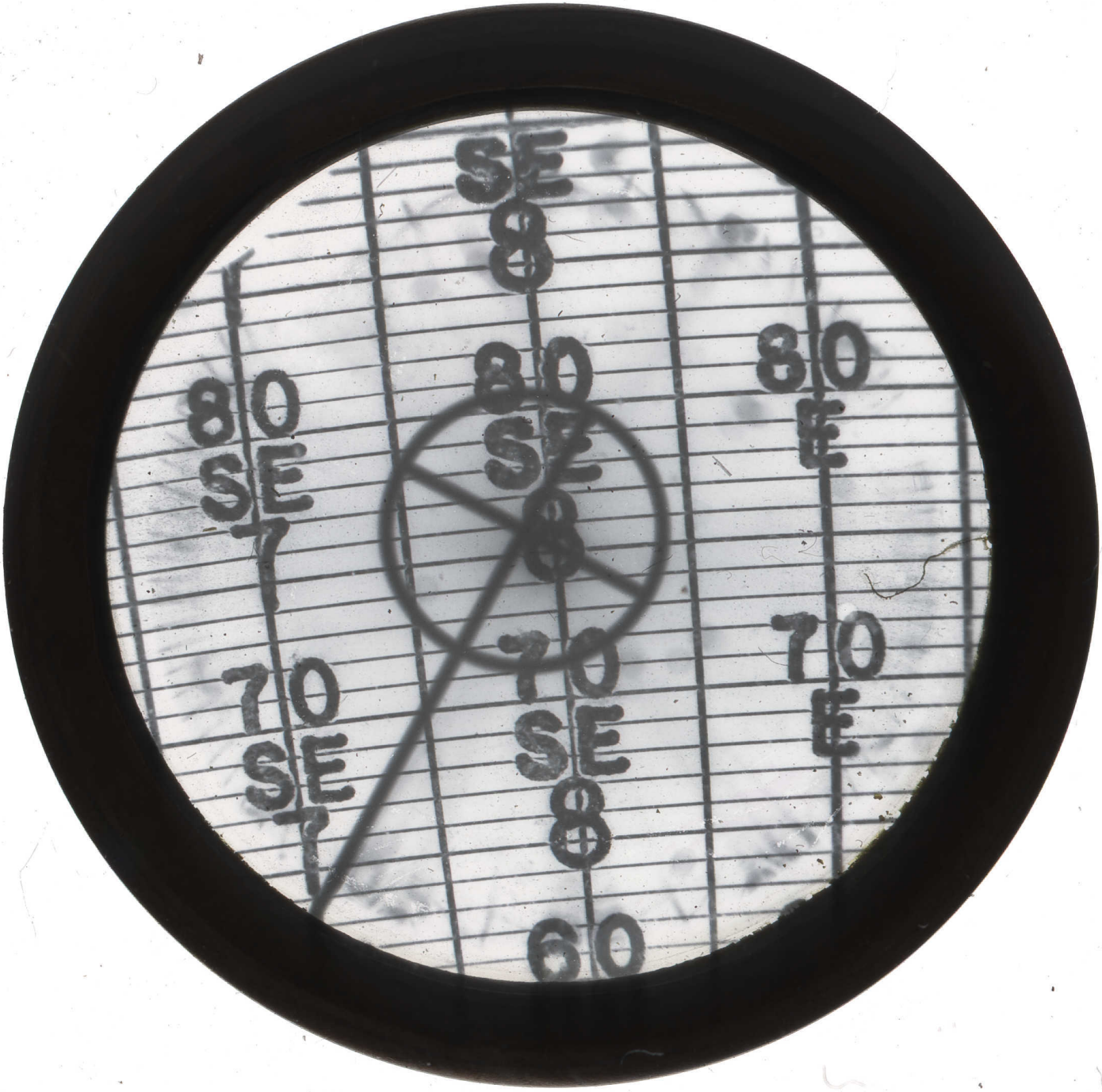
RUN BY DH

DATE 1-6-99

CHECKED BY

sperry-sun

DRILLING SERVICES


SE
8
80
SE
8
80
SE
7
70
SE
7
80
E
70
E
70
SE
8
60