

CAT,SIZE LSTRES.03
LSTRES.03-PNC/LIB# SIZE:11

005003

EDIT,NEW LK1
^C1:LST712.3U

EDT016 I TRANSACTION POSTING IN PROCESS

^L360-

360 1

361 ** GRUM MINTERIM MODEL.G3, SUMMARY OF ULT PIT RESERVES OCT. 1981 **

362 ** CYPRUS ANVIL MINING CORPORATION **

363 ** GRUM DEPOSIT **

364

365 SUMMARY OF RESERVES FOR ULT PIT

366

367 BENCH REFERENCE NO. 30

368 BENCH TOE ELEVATION 1059.

369 0 AREA 1: GRUM

370 0 *WSTE* T.F.= 1.00

371

372 *WSTE* WASTE-- .00 41204700.

373 GRADE 1 = PB 0.

374 GRADE 2 = ZN 0.

375 GRADE 3 = AG 0.

376 GRADE 4 = EQUV 0.

377 0 *WSTE* TOTAL TONS 41204700.

378 0 *SFDE* T.F.= 1.00

379

380 *SFDE* ABOVE 5.00 15375900.

381 GRADE 1 = PB 3.390

382 GRADE 2 = ZN 5.498

383 GRADE 3 = AG 52.112

384 GRADE 4 = EQUV 8.888

385

386 *SFDE* ABOVE 4.50 16142500.

387 GRADE 1 = PB 3.316

388 GRADE 2 = ZN 5.374

389 GRADE 3 = AG 50.973

390 GRADE 4 = EQUV 8.690

391

392 *SFDE* ABOVE 4.00 16875100.

393 GRADE 1 = PB 3.246

394 GRADE 2 = ZN 5.249

395 GRADE 3 = AG 49.863

396 GRADE 4 = EQUV 8.495

397

398 *SFDE* WASTE-- 4.00 4482702.

399 GRADE 1 = PB .215

400 GRADE 2 = ZN .333

401 GRADE 3 = AG 3.527

402 GRADE 4 = EQUV .548

403 0 *SFDE* TOTAL TONS 21357802.

404 0 *UNSPECIFIED TONS 0.

405 0**BENCH TOTAL TONS 62562502.

406 1

407 **M712V1 RELEASE 9** REVISED 15 JAN, 1975

408

409 MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

410

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412 ** FILE 10: PROJECT CONTROL FILE **

413

0 **NORMAL RUN TERMINATION** M712V1 VERSION 1.

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DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	-----	-----	-----	-----
	*	10	3	0	2

DATA FILE RESRVS.3U	*	NO.	#IN	#OUT	FUNC
-----	*	-----	-----	-----	-----
	*	18	30	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 03:18:16

C1:LST712.3G

EDI016 I TRANSACTION POSTING IN PROCESS

~L500-

500 ** CYPRUS ANVIL MINING CORPORATION **
501 ** GRUM DEPOSIT **

502
503 SUMMARY OF RESERVES FOR GEOLOGIC
504

505 BENCH REFERENCE NO. 45
506 BENCH TOE ELEVATION 924.

507 0 AREA 1: GRUM
508 0 *WSTE* T.F.= 1.00

509
510 *WSTE* WASTE-- -.00 296360775.

511 GRADE 1 = PB 0.
512 GRADE 2 = ZN 0.

513 GRADE 3 = AG 0.
514 GRADE 4 = EQUV 0.

515 0 *WSTE* TOTAL TONS 296360775.
516 0 *SFDE* T.F.= 1.00

517
518 *SFDE* ABOVE 4.00 30781100.

519 GRADE 1 = PB 3.140
520 GRADE 2 = ZN 4.898

521 GRADE 3 = AG 48.544
522 GRADE 4 = EQUV 8.039

523
524 *SFDE* ABOVE 3.50 32399700.

525 GRADE 1 = PB 3.059
526 GRADE 2 = ZN 4.762

527 GRADE 3 = AG 47.306
528 GRADE 4 = EQUV 7.822

529
530 *SFDE* ABOVE 3.00 34092000.

531 GRADE 1 = PB 2.975
532 GRADE 2 = ZN 4.618

533 GRADE 3 = AG 46.021
534 GRADE 4 = EQUV 7.593

535
536 *SFDE* WASTE-- 3.00 12280957.

537 GRADE 1 = PB .170
538 GRADE 2 = ZN .238

539 GRADE 3 = AG 3.149
540 GRADE 4 = EQUV .408

541 0 *SFDE* TOTAL TONS 46372957.
542 0 *UNSPECIFIED TONS 0.

543 0**BENCH TOTAL TONS 342733732.
544 1

545 **M712V1 RELEASE 9** REVISED 15 JAN, 1975
546

547 MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.
548

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550 ** FILE 10: PROJECT CONTROL FILE **
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552 0 **NORMAL RUN TERMINATION** M712V1 VERSION 1.
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556 DATA

EDIT,NEW LK1
^C1:LST712.01
EDT016 I TRANSACTION POSTING IN PROCESS
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^L124-
224 ** CYPRUS ANVIL MINING CORPORATION **
225 ** GRUM DEPOSIT **
226
227

SUMMARY OF RESERVES FOR PHASE 1

228
229 BENCH REFERENCE NO. 14
230 BENCH TOE ELEVATION 1203.
231 0 AREA 1: GRUM
232 0 *WSTE* T.F.= 1.00
233
234 *WSTE* WASTE-- -.00 6263325. ✓
235 GRADE 1 = PB 0.
236 GRADE 2 = ZN 0.
237 GRADE 3 = AG 0.
238 GRADE 4 = EQUV 0.
239 0 *WSTE* TOTAL TONS 6263325. ✓
240 0 *SFDE* T.F.= 1.00
241
242 *SFDE* ABOVE 5.00 1784800. ✓
243 GRADE 1 = PB 4.118
244 GRADE 2 = ZN 6.842
245 GRADE 3 = AG 63.432
246 GRADE 4 = EQUV 10.960
247
248 *SFDE* ABOVE 4.50 1818800.
249 GRADE 1 = PB 4.074
250 GRADE 2 = ZN 6.769
251 GRADE 3 = AG 62.794
252 GRADE 4 = EQUV 10.843
253
254 *SFDE* ABOVE 4.00 1825700.
255 GRADE 1 = PB 4.065
256 GRADE 2 = ZN 6.753
257 GRADE 3 = AG 62.684
258 GRADE 4 = EQUV 10.818
259
260 *SFDE* WASTE-- 4.00 517853.
261 GRADE 1 = PB .121
262 GRADE 2 = ZN .201
263 GRADE 3 = AG 2.667
264 GRADE 4 = EQUV .323
265 0 *SFDE* TOTAL TONS 2343553.
266 0 *UNSPECIFIED TONS 0.
267 0**BENCH TOTAL TONS 8606878.
268 1
269 **M712V1 RELEASE 9** REVISED 15 JAN, 1975
270
271 MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.
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274 ** FILE 10: PROJECT CONTROL FILE **
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276 0 **NORMAL RUN TERMINATION** M712V1 VERSION 1.
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DATA FILE PCFM.3U * NO. #IN #OUT FUNC
----- * -----
* 10 3 0 2

DATA FILE RESRVS.G3 * NO. #IN #OUT FUNC
----- * -----
* 18 14 0 2

*** M712V1*** FINISHED ON 10/08/81 AT 13:08:41

TC1:LST712.02
EDT016 I TRANSACTION POSTING IN PROCESS
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L270-

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

275	BENCH REFERENCE NO.	16
276	BENCH TOE ELEVATION	1185.
277	0 AREA 1: GRUM	
278	0 *WSTE* T.F.=	1.00
279		
280	*WSTE* WASTE--	-.00 2357100.
281	GRADE 1 = PB	0.
282	GRADE 2 = ZN	0.
283	GRADE 3 = AG	0.
284	GRADE 4 = EQUV	0.
285	0 *WSTE* TOTAL TONS	2357100.
286	0 *SFDE* T.F.=	1.00
287		
288	*SFDE* ABOVE 5.00	933700.
289	GRADE 1 = PB	3.566
290	GRADE 2 = ZN	5.792
291	GRADE 3 = AG	55.255
292	GRADE 4 = EQUV	9.358
293		
294	*SFDE* ABOVE 4.50	998300.
295	GRADE 1 = PB	3.434
296	GRADE 2 = ZN	5.627
297	GRADE 3 = AG	53.374
298	GRADE 4 = EQUV	9.061
299		
300	*SFDE* ABOVE 4.00	1075600.
301	GRADE 1 = PB	3.292
302	GRADE 2 = ZN	5.421
303	GRADE 3 = AG	51.348
304	GRADE 4 = EQUV	8.713
305		
306	*SFDE* WASTE-- 4.00	303851.
307	GRADE 1 = PB	.013
308	GRADE 2 = ZN	.026
309	GRADE 3 = AG	.240
310	GRADE 4 = EQUV	.039
311	0 *SFDE* TOTAL TONS	1379451.

2660951

312 0 *UNSPECIFIED TONS 0.
 313 0**BENCH TOTAL TONS 3736551.
 314 1
 315 **M712V1 RELEASE 9** REVISED 15 JAN, 1975
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 317 MEDS PROPRIETARY SOFTWARE; MINTEC INC., TUCSON, AZ.
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 320 ** FILE 10: PROJECT CONTROL FILE **
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 PC1:LST712.03
 EDT016 I TRANSACTION POSTING IN PROCESS
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 CL270-315
 270 ** CYPRUS ANVIL MINING CORPORATION **
 271 ** GRUM DEPOSIT **
 272

SUMMARY OF RESERVES FOR PHASE 3

273
 274
 275 BENCH REFERENCE NO. 18
 276 BENCH TOE ELEVATION 1167.
 277 0 AREA 1: GRUM
 278 0 *WSTE* T.F.= 1.00
 279
 280 *WSTE* WASTE-- .00 4606875.
 281 GRADE 1 = PB 0.
 282 GRADE 2 = ZN 0.
 283 GRADE 3 = AG 0.
 284 GRADE 4 = EQUV 0.
 285 0 *WSTE* TOTAL TONS 4606875.
 286 0 *SFDE* T.F.= 1.00
 287
 288 *SFDE* ABOVE 5.00 2220500.
 289 GRADE 1 = PB 3.227
 290 GRADE 2 = ZN 5.364
 291 GRADE 3 = AG 49.470
 292 GRADE 4 = EQUV 8.591
 293
 294 *SFDE* ABOVE 4.50 2274600.
 295 GRADE 1 = PB 3.196
 296 GRADE 2 = ZN 5.303
 297 GRADE 3 = AG 49.023
 298 GRADE 4 = EQUV 8.499
 299
 300 *SFDE* ABOVE 4.00 2283300.
 301 GRADE 1 = PB 3.189
 302 GRADE 2 = ZN 5.294
 303 GRADE 3 = AG 48.927
 304 GRADE 4 = EQUV 8.483
 305
 306 *SFDE* WASTE-- 4.00 559670.
 307 GRADE 1 = PB .044
 308 GRADE 2 = ZN .062
 309 GRADE 3 = AG .677
 310 GRADE 4 = EQUV .106
 311 0 *SFDE* TOTAL TONS 2842970.
 312 0 *UNSPECIFIED TONS 0.
 313 0**BENCH TOTAL TONS 7449845.
 314 1

315 **M712V1 RELEASE 9** REVISED 15 JAN, 1975
 PC1:LST712.04
 EDT016 I TRANSACTION POSTING IN PROCESS

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L270-315

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 4

274
275 BENCH REFERENCE NO. 20
276 BENCH TOE ELEVATION 1149.
277 0 AREA 1: GRUM
278 0 *WSTEX T.F.= 1.00

280 *WSTEX WASTE-- .00 5026050.
281 GRADE 1 = PB 0.
282 GRADE 2 = ZN 0.
283 GRADE 3 = AG 0.
284 GRADE 4 = EQUV 0.
285 0 *WSTEX TOTAL TONS 5026050.
286 0 *SFDEX T.F.= 1.00

288 *SFDEX ABOVE 5.00 1827300.
289 GRADE 1 = PB 3.260
290 GRADE 2 = ZN 5.275
291 GRADE 3 = AG 49.289
292 GRADE 4 = EQUV 8.535

294 *SFDEX ABOVE 4.50 1898000.
295 GRADE 1 = PB 3.205
296 GRADE 2 = ZN 5.188
297 GRADE 3 = AG 48.459
298 GRADE 4 = EQUV 8.393

300 *SFDEX ABOVE 4.00 1926700.
301 GRADE 1 = PB 3.179
302 GRADE 2 = ZN 5.152
303 GRADE 3 = AG 48.094
304 GRADE 4 = EQUV 8.331

306 *SFDEX WASTE-- 4.00 513338.
307 GRADE 1 = PB .098
308 GRADE 2 = ZN .151
309 GRADE 3 = AG 1.507
310 GRADE 4 = EQUV .249

311 0 *SFDEX TOTAL TONS 2440038.
312 0 *UNSPECIFIED TONS 0.
313 0**BENCH TOTAL TONS 7466088.

314 1
315 **M712V1 RELEASE 9** REVISED 15 JAN, 1975

CC1:LST712.05
EDT016 I TRANSACTION POSTING IN PROCESS
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L316-361

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

321	BENCH REFERENCE NO.	22
322	BENCH TOE ELEVATION	1131.
323	0 AREA 1: GRUM	
324	0 *WSTE* T.F.=	1.00
325		
326	*WSTE* WASTE--	-.00 3979125.
327	GRADE 1 =	PB 0.
328	GRADE 2 =	ZN 0.
329	GRADE 3 =	AG 0.
330	GRADE 4 =	EQUV 0.
331	0 *WSTE* TOTAL TONS	3979125.
332	0 *SFDE* T.F.=	1.00
333		
334	*SFDE* ABOVE	5.00 1836700.
335	GRADE 1 =	PB 3.554
336	GRADE 2 =	ZN 5.856
337	GRADE 3 =	AG 54.447
338	GRADE 4 =	EQUV 9.410
339		
340	*SFDE* ABOVE	4.50 1911900.
341	GRADE 1 =	PB 3.488
342	GRADE 2 =	ZN 5.738
343	GRADE 3 =	AG 53.452
344	GRADE 4 =	EQUV 9.226
345		
346	*SFDE* ABOVE	4.00 1982900.
347	GRADE 1 =	PB 3.421
348	GRADE 2 =	ZN 5.625
349	GRADE 3 =	AG 52.477
350	GRADE 4 =	EQUV 9.046
351		
352	*SFDE* WASTE--	4.00 536382.
353	GRADE 1 =	PB .229
354	GRADE 2 =	ZN .448
355	GRADE 3 =	AG 4.859
356	GRADE 4 =	EQUV .677
357	0 *SFDE* TOTAL TONS	2519282.
358	0 *UNSPECIFIED TONS	0.
359	0**BENCH TOTAL TONS	6498407.
360	1	
361	**M712V1 RELEASE 9**	REVISED 15 JAN, 1975

^C1:LST712.06

EDT016 I TRANSACTION POSTING IN PROCESS

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L316-361

316 ** CYPRUS ANVIL MINING CORPORATION **
317 ** GRUM DEPOSIT **

318
319 SUMMARY OF RESERVES FOR PHASE 6
320

321 BENCH REFERENCE NO. 24
322 BENCH TOE ELEVATION 1113.

323 0 AREA 1: GRUM
324 0 *WSTE* T.F.= 1.00

325
326 *WSTE* WASTE- -.00 5058450.

327 GRADE 1 = PB 0.

328 GRADE 2 = ZN 0.

329 GRADE 3 = AG 0.

330 GRADE 4 = EQUV 0.

331 0 *WSTE* TOTAL TONS 5058450.

332 0 *SFDE* T.F.= 1.00

333
334 *SFDE* ABOVE 5.00 1680900.

335 GRADE 1 = PB 3.542

336 GRADE 2 = ZN 5.469

337 GRADE 3 = AG 53.661

338 GRADE 4 = EQUV 9.011

339
340 *SFDE* ABOVE 4.50 1751700.

341 GRADE 1 = PB 3.479

342 GRADE 2 = ZN 5.357

343 GRADE 3 = AG 52.674

344 GRADE 4 = EQUV 8.835

345
346 *SFDE* ABOVE 4.00 1832200.

347 GRADE 1 = PB 3.405

348 GRADE 2 = ZN 5.227

349 GRADE 3 = AG 51.462

350 GRADE 4 = EQUV 8.632

351
352 *SFDE* WASTE- 4.00 413809.

353 GRADE 1 = PB .173

354 GRADE 2 = ZN .297

355 GRADE 3 = AG 3.230

356 GRADE 4 = EQUV .469

357 0 *SFDE* TOTAL TONS 2246009.

358 0 *UNSPECIFIED TONS 0.

359 0**BENCH TOTAL TONS 7304459.

360 1

361 **M712V1 RELEASE 9** REVISED 15 JAN, 1975

^C1:LST712.07

EDT016 I TRANSACTION POSTING IN PROCESS

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L362-407

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

367	BENCH REFERENCE NO.	26
368	BENCH TOE ELEVATION	1095.
369	0 AREA 1: GRUM	
370	0 *WSTEX T.F.=	1.00
371		
372	*WSTEX WASTE-	-.00 4857975.
373	GRADE 1 =	PB 0.
374	GRADE 2 =	ZN 0.
375	GRADE 3 =	AG 0.
376	GRADE 4 =	EQUV 0.
377	0 *WSTEX TOTAL TONS	4857975.
378	0 *SFDEX T.F.=	1.00
379		
380	*SFDEX ABOVE	5.00 2003200.
381	GRADE 1 =	PB 3.196
382	GRADE 2 =	ZN 5.146
383	GRADE 3 =	AG 49.333
384	GRADE 4 =	EQUV 8.342
385		
386	*SFDEX ABOVE	4.50 2133600.
387	GRADE 1 =	PB 3.115
388	GRADE 2 =	ZN 5.004
389	GRADE 3 =	AG 48.004
390	GRADE 4 =	EQUV 8.119
391		
392	*SFDEX ABOVE	4.00 2305100.
393	GRADE 1 =	PB 3.015
394	GRADE 2 =	ZN 4.814
395	GRADE 3 =	AG 46.336
396	GRADE 4 =	EQUV 7.829
397		
398	*SFDEX WASTE-	4.00 503962.
399	GRADE 1 =	PB .287
400	GRADE 2 =	ZN .393
401	GRADE 3 =	AG 4.263
402	GRADE 4 =	EQUV .680
403	0 *SFDEX TOTAL TONS	2809062.
404	0 *UNSPECIFIED TONS	0.
405	0**BENCH TOTAL TONS	7667037.
406	1	
407	**M712V1 RELEASE 9**	REVISED 15 JAN, 1975

CC1:LST712.08

EDT016 I TRANSACTION POSTING IN PROCESS

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L362-407

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

362				
363				
364				
365				
366				
367	BENCH REFERENCE NO.		28	
368	BENCH TOE ELEVATION		1077.	
369	0 AREA 1: GRUM			
370	0 *WSTE* T.F.=	1.00		
371				
372	*WSTE* WASTE-	- .00	6880950.	
373	GRADE 1 =	PB	0.	
374	GRADE 2 =	ZN	0.	
375	GRADE 3 =	AG	0.	
376	GRADE 4 =	EQUV	0.	
377	0 *WSTE* TOTAL TONS		6880950.	
378	0 *SFDE* T.F.=	1.00		
379				
380	*SFDE* ABOVE	5.00	1935900.	
381	GRADE 1 =	PB	3.035	
382	GRADE 2 =	ZN	4.840	
383	GRADE 3 =	AG	46.904	
384	GRADE 4 =	EQUV	7.875	
385				
386	*SFDE* ABOVE	4.50	2143500.	
387	GRADE 1 =	PB	2.919	
388	GRADE 2 =	ZN	4.648	
389	GRADE 3 =	AG	45.031	
390	GRADE 4 =	EQUV	7.568	
391				
392	*SFDE* ABOVE	4.00	2374200.	
393	GRADE 1 =	PB	2.805	
394	GRADE 2 =	ZN	4.432	
395	GRADE 3 =	AG	43.106	
396	GRADE 4 =	EQUV	7.238	
397				
398	*SFDE* WASTE-	4.00	809109.	
399	GRADE 1 =	PB	.440	
400	GRADE 2 =	ZN	.684	
401	GRADE 3 =	AG	6.600	
402	GRADE 4 =	EQUV	1.124	
403	0 *SFDE* TOTAL TONS		3183309.	
404	0 *UNSPECIFIED TONS		0.	
405	0**BENCH TOTAL TONS		10064259.	
406	1			
407	**M712V1 RELEASE 9**	REVISED	15 JAN, 1975	

^C1:LST712.09

EDT016 I TRANSACTION POSTING IN PROCESS

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L362-40#

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

362				
363				
364				
365				
366				
367	BENCH REFERENCE NO.		30	
368	BENCH TOE ELEVATION		1059.	
369	0 AREA 1: GRUM			
370	0 *WSTE* T.F.=	1.00		
371				
372	*WSTE* WASTE-	-.00	2174850.	
373	GRADE 1 =	PB	0.	
374	GRADE 2 =	ZN	0.	
375	GRADE 3 =	AG	0.	
376	GRADE 4 =	EQUV	0.	
377	0 *WSTE* TOTAL TONS		2174850.	
378	0 *SFDE* T.F.=	1.00		
379				
380	*SFDE* ABOVE	5.00	1152900.	
381	GRADE 1 =	PB	3.090	
382	GRADE 2 =	ZN	4.982	
383	GRADE 3 =	AG	49.206	
384	GRADE 4 =	EQUV	8.072	
385				
386	*SFDE* ABOVE	4.50	1212100.	
387	GRADE 1 =	PB	3.030	
388	GRADE 2 =	ZN	4.877	
389	GRADE 3 =	AG	48.213	
390	GRADE 4 =	EQUV	7.907	
391				
392	*SFDE* ABOVE	4.00	1269400.	
393	GRADE 1 =	PB	2.973	
394	GRADE 2 =	ZN	4.768	
395	GRADE 3 =	AG	47.190	
396	GRADE 4 =	EQUV	7.742	
397				
398	*SFDE* WASTE-	4.00	324729.	
399	GRADE 1 =	PB	.388	
400	GRADE 2 =	ZN	.475	
401	GRADE 3 =	AG	5.456	
402	GRADE 4 =	EQUV	.862	
403	0 *SFDE* TOTAL TONS		1594129.	
404	0 *UNSPECIFIED TONS		0.	
405	0**BENCH TOTAL TONS		3768979.	
406	1			
407	**M712V1 RELEASE 9**	REVISED	15 JAN, 1975	

LIST JCL710.GG

1	M710V1****	PCFM.GG	MODEL.G1	RESRVS.GG	1																
2	1	0																			
3	**	GRUM	MODEL, RESERVE	DESCRIPTORS	SET#1	1981	**														
4	-1	-1	0 0	0	2	0	45	1	0	0	0	1	0								
5			TYPE	GEOLOGIC	01/10/81																
6	PB	ZN	AG	EQUV																	
7	WSTE	1	4	1.0	1.0																
8	SFDE	2	4	1.0	1.0	4.0	4.5	5.0	5.5	6.0											

!
CAT PCFM.GG,MODEL.G1,RESRVS.GG
PCFM.GG-PNC/LIB\$
MODEL.G1-PNC/LIB\$
RESRVS.GG-PNC/LIB\$
!

(PC@
!

M710V1

PROGRAM = M710V1****

INPUT =

JCL710.GG

OUTPUT =

LST710.GG

*** M710V1**** STARTED ON 09/28/81 AT 13:53:11

DATA FILE:PCFM.GG REQUESTED ON UNIT 10

DATA FILE:MODEL.G1 REQUESTED ON UNIT 15

DATA FILE:RESRVS.GG REQUESTED ON UNIT 18

SRU'S:2.5
!

LIST LST710.VG
FMD004 E LST710.VG-PNC NOT FOUND
!

LIST LRST LST710.GG
FMD001 E ACCESS TO LIST -PNC/%Y#C## PROHIBITED
!

LIST LST710.GG

```
***-----*-----*
***                                     *
*** M710V1****- STARTED ON 09/28/81 * MEDSYSTEM COPYRIGHT 1978 *
***                   AT 13:53:11 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL710.GG  OUTPUT:LST710.GG *
***-----*-----*
```

M710V1 RELEASE 9 REVISED 15 JAN, 1975
MEDS PROPRIETARY SOFTWARE MINTEC INC., TUCSON, AZ.

```
RUN CARD #1 M710V1**** PCFM.GG MODEL.G1 RESRVS.GG 1
RUN CARD #2 1 0 0 0 0 0 0 0 0
RUN CARD #3 ** GRUM MODEL, RESERVE DESCRIPTORS SET#1 1981 **
RUN CARD #4 -1 -1 0 0 0 2 0 45 1 0 0 0 1 0
RUN CARD #5 TYPE GEOLOGIC 01/10/81
```

** FILE 10 PROJECT CONTROL FILE **

```
DATA FILE PCFM.GG * NO. SIZE RECS /REC
----- * -----
MAX # BUFFERS = 14 * 10 400 1 400
```

```
OPTION FOR USE OF THE TOPO FILE ( IOP1 ) = -1
OPTION FOR USE OF PIT LIMITS ( IOP2 ) = -1
OPTION FOR RESERVES, MINED BLKS ( IOP3 ) = 0
OPTION FOR USING THE AREA CODES ( IOP4 ) = 0
OPTION # RESERVE CLASSES INPUT ( IOP6 ) = 2
```

1
M710V1 RELEASE 9 REVISED 15 JAN, 1975
MEDS PROPRIETARY SOFTWARE MINTEC INC., TUCSON, AZ.

```
** ** GRUM MODEL, RESERVE DESCRIPTORS SET#1 1981 **
** ** CYPRUS ANVIL MINING CORPORATION **** GRUM DEPOSIT **
```

DATA FILE MODEL.G1 * NO. SIZE RECS /REC
 * * * * *
 MAX # BUFFERS = 420 * 15 420 210 2

**MINE MODEL DESCRIPTORS SET NUMBER 8

NUMBER OF ITEMS IN GRADE MATRIX (MITM) = 10

NO. OF MINE MODEL BLOCKS ON X (NX) = 70

NO. OF MINE MODEL BLOCKS ON Y (NY) = 50

MATRIX ORIGIN EAST COORDINATE (XMIN) = 6410.0

MATRIX ORIGIN NORTH COORDINATE (YMIN) = 8900.0

I	LABEL	WORD	POS	MASK	CONSTANT
1	PB	1	1	377000000000	134217728
2	ZN	1	2	000776000000	524288
3	AG	1	3	000001776000	1024
4	#MS	1	4	000000001700	64
5	#QS	1	5	000000000074	4
6	TOPO	2	6	376000000000	268435456
7	TONS	2	7	001777000000	262144
8	EQUV	2	8	000000777000	512
9	ORE%	2	9	000000000774	4
10	TYPE	2	10	000000000003	1

(# ZTOE.) (# ZTOE.) (# ZTOE.) (# ZTOE.) (# ZTOE.)
 (1 1320.) (2 1311.) (3 1302.) (4 1293.) (5 1284.)
 (6 1275.) (7 1266.) (8 1257.) (9 1248.) (10 1239.)
 (11 1230.) (12 1221.) (13 1212.) (14 1203.) (15 1194.)
 (16 1185.) (17 1176.) (18 1167.) (19 1158.) (20 1149.)
 (21 1140.) (22 1131.) (23 1122.) (24 1113.) (25 1104.)
 (26 1095.) (27 1086.) (28 1077.) (29 1068.) (30 1059.)
 (31 1050.) (32 1041.) (33 1032.) (34 1023.) (35 1014.)
 (36 1005.) (37 996.) (38 987.) (39 978.) (40 969.)
 (41 960.) (42 951.) (43 942.) (44 933.) (45 924.)

1

M710V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE MINTEC INC., TUCSON, AZ.

** ** GRUM MODEL, RESERVE DESCRIPTORS SET#1 1981 **

** ** CYPRUS ANVIL MINING CORPORATION **** GRUM DEPOSIT **

TOTAL OF RESERVE CLASSES / AREA (NCLASS) = 7

NUMBER OF METALS IN RESERVES (NMET) = 4

NUMBER OF ORE AREAS IN RESERVES (NAREA) = 1

MATRIX ITEM LABEL FOR ORE TYPE (ITLAB) =TYPE

MATRIX ITEM NO OF THE ORE TYPE (ITINO) = 10

NO. OF BENCHES IN THE RESERVES (NZ) = 45

NO. OF 1ST BENCH IN THE RESERVES (IZ) = 1

DATA FILE RESRVS.GG * NO. SIZE RECS /REC
 * * * * *
 MAX # BUFFERS = 0 * 18 400 1 58

ORE NO.	ORE LABEL	ORE T.F.	WASTE T.F.	NO. CUTS	MTX ITEM	GRADE LABEL
1	WSTE	1.000	1.000	1	4	#MS
2	SFDE	1.000	1.000	6	4	#MS

GRADES TO BE SUMMARIZED IN RESERVES

NO.	GRADE	ITEM
1	PB	1
2	ZN	2
3	AG	3
4	EQUV	8

0 RECORD LIMITS IN RESERVES FILE M18, N18 = 1 0

ORE NO.	ORE LABEL	CUT. BASE	CLASSES		WASTE	CUT 1	CUT 2	CUT 3	CUT 4	CUT 5
			C1	C2						
1	WSTE	0	1	1	0.					
2	SFDE	1	2	7	0.	4.000	4.500	5.000	5.500	6.000

1

M710V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE MINTEC INC., TUCSON, AZ.

** ** GRUM MODEL, RESERVE DESCRIPTORS SET#1 1981 **

** ** CYPRUS ANVIL MINING CORPORATION **** GRUM DEPOSIT **

***RECORD FOR RESERVE DESCRIPTORS # 1 10

LIST JCL710.GH

```
1 M710V1**** PCFM.GH MODEL.G1 RESRVS.GH 1
2 1 0
3 ** GRUM MODEL, RESERVE DESCRIPTORS SET#1 1981 **
4 -1 -1 0 0 0 2 0 45 1 0 0 0 1 0
5 TYPE GEOLOGIC 01/10/81
6 PB ZN AG EQUV
7 WSTE 1 4 1.0 1.0
8 SFDE 2 4 1.0 1.0 3.0 3.5 4.0 4.5 5.0
```

!
M100V1

M100V1 *** INITIALIZE MEDSYSTEM DATA FILES

PLEASE ENTER AN 8 CHARACTER FILE NAME

RESRVS.GH
RECORDS (I5) =

1

REC LENGHT I5

500
WRITE TIME = .0054
TOTAL, READ .0110 .0056

STOP
SRU'S: .6

!

M710V1

PROGRAM = M710V1****

INPUT =

JCL710.GH

OUTPUT =

LST710.GH

*** M710V1**** STARTED ON 10/02/81 AT 12:58:27

DATA FILE:PCFM.GH REQUESTED ON UNIT 10

DATA FILE:MODEL.G1 REQUESTED ON UNIT 15

DATA FILE:RESRVS.GH REQUESTED ON UNIT 18

SRU'S:2.6
!

M100V1

M100V1 *** INITIALIZE MEDSYSTEM DATA FILES

PLEASE ENTER AN 8 CHARACTER FILE NAME

PITS.GH

RECORDS (15) =

1

REC LENGHT 15

500

WRITE TIME = .0038

TOTAL, READ .0092 .0054

STOP

SRU'S:1.7
!

LIST RUN730.GH

1 !LIST RUN730.GH
2 !LIMIT USE:1000
3 !LIST JCL730.GH
4 !M730GM
5 JCL730.GH
6 LST730.GH
7 BPSGL
8 !CAT,SIZE LST730.GH
60 !OFF

! LIST JCL730.GH

1	M730GM****	PCFM.GH	MODEL.G1	PITS.GH	RESRVS.GH				
2	1	1	70	1	70	1	50	1	0
3	**	GRUM	INTERIM	MODEL,	GEOLOGICAL	RESERVES	OCT,	1981	**
4		2	1		1	45	1		1 45
5	GEOLOGIC	TYPE		GEOLOGIC	01/10/81				

JOB,9 RUN730.GH 'GPS PMG015,HANSON,906080,LST730.H'
GPS362 RUN730.GH-PNC/LIB# 76583 6043244010

INQUIRE
76583 EXECUTING

3 2 1 1 70 1 50 1 70
4 1 1 2

5 EQUV
6 1
7 2
8 3
9 4
10 5
11 6
12 7
13 8
14 9
15 10
16 11
17 12
18 13
19 14
20 15
21 16
22 17
23 18
24 19
25 20
26 21
27 22
28 23
29 24
30 25
31 26
32 27
33 28
34 29
35 30
36 31
37 32
38 33
39 34
40 35
41 36
42 37
43 38
44 39
45 40
46 41
47 42
48 43
49 44
50 45

!LIST JCL730.3G

1 M730GM**** PCFM.3G MODEL.G3 FITS.3G RESRVS.3G
2 1 1 70 1 70 1 50 1 0
3 ** GRUM INTERIM MODEL.G3, GEOLOGICAL RESERVES OCT. 1981 **
4 2 1 1 45 1 1 45
5 GEOLOGIC TYPE GEOLOGIC 01/10/81

!LIST JCL712.3G

1 M712V1**** PCFM.3G RESRVS.3G 1
2 ** GRUM INTERIM MODEL.G3, SUMMARY OF GEOLOGICAL RESERVES OCT. 1981 **
3 1 45 1 0 0 2 0 1
4 GEOLOGIC
5 GRUM
6 1 0 0 0 1
7 2 4 3 2 1

!CAT .3G

JCL712.3G-PNC/LIB#

JCL730.3G-PNC/LIB#

PCFM.3G-PNC/LIB#

PITS.3G-PNC/LIB#
RESRVS.3G-PNC/LIB#

!CAT BPSGL
BPSGL-PNC/LIB#

!LIST JCL730.3U

1	M730GM****	PCFM.3U	MODEL.G3	PITS.3U	RESRVS.3U				
2	1	1	70	1	70	1	50	1	0
3	**	GRUM INTERIM	MODEL.G3,	ULTIMATE	PIT RESERVES	OCT. 1981	**		
4		2		1	30	1		1	50
5	ULT PIT	TYPE	ULT PIT	01/10/81					

!LIST JCL712.3U

1	M712V1****	PCFM.3U	RESRVS.3U	1				
2	**	GRUM MINTERIM	MODEL.G3,	SUMMARY OF	ULT PIT RESERVES	OCT. 1981	**	
3	1	30	1	0	0	2	0	1
4	ULT PIT							
5	GRUM							
6	1	0	0	0	1			
7	2	4	3	2	1			

!CAT .3U

JCL712.3U-PNC/LIB#

JCL730.3U-PNC/LIB#

PCFM.3U-PNC/LIB#

PITS.3U-PNC/LIB#

RESRVS.3U-PNC/LIB#

!CAT BPSUL

BPSUL-PNC/LIB#

!

EDIT RUNRES.03

^3*

^Q

SRU'S:4

!CHANGE MODEL.G2 MODEL.G3

!CAT MODEL.G3

MODEL.G3-PNC/LIB#

!

JOB,6 RUNRES.03 'GPS PMG015,HANSON,806080,LSTRES.03'

GPS362 RUNRES.03-PNC/LIB# 55042 6043244010

!

L*
LIST RUN730.RS

1 !LIST RUN730.RS
2 !LIMIT USE:5000
9 !LIST JCL730.01
10 !M730GM
11 JCL730.01
12 LST730.01
13 BPS01
14 !LIST JCL730.02
15 !M730GM
16 JCL730.02
17 LST730.02
18 BPS02
19 !LIST JCL730.03
20 !M730GM
21 JCL730.03
22 LST730.03
23 BPS03
24 !LIST JCL730.04
25 !M730GM
26 JCL730.04
27 LST730.04
28 BPS04
29 !LIST JCL730.05
30 !M730GM
31 JCL730.05
32 LST730.05
33 BPS05
34 !LIST JCL730.06
35 !M730GM
36 JCL730.06
37 LST730.06
38 BPS06
39 !LIST JCL730.07
40 !M730GM
41 JCL730.07
42 LST730.07
43 BPS07
44 !LIST JCL730.08
45 !M730GM
46 JCL730.08
47 LST730.08
48 BPS08
49 !LIST JCL730.09
50 !M730GM
51 JCL730.09
52 LST730.09
53 BPS09
59 !PROTO#,DO LST730.[] !CAT,SIZE [#]
60 !OFF

LIST JCL730.01

1 M730GM**** PCFM,3U MODEL,03 PITS,03 RESRVS,03
2 1 1 70 1 70 1 50 1 0
3 ** GRUM INTERIM MODEL, PHASE 1 RESERVES OCT. 1981 **
4 2 1 14 1 1 45
5 PHASE 1 TYPE PHASE 1 01/10/81

!CAR .G3
JC102M.G3-PNC/LIB\$
JCL612.G3-PNC/LIB\$
JCL621.G3-PNC/LIB\$
LST612.G3-PNC/LIB\$
LST621.G3-PNC/LIB\$
MODEL.G3-PNC/LIB\$
PCFM.G3-PNC/LIB\$
PITS.G3-PNC/LIB\$
RESRVS.G3-PNC/LIB\$
!CAT PCFM.3U
PCFM.3U-PNC/LIB\$
!

PROTO\$,DO JCL730[] 'LIST [\$] 1',E

1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3U	MODEL.G3	PITS.G3	RESRVS.G3
1	M730GM****	PCFM.3G	MODEL.G3	PITS.3G	RESRVS.3G
1	M730GM****	PCFM.3U	MODEL.G3	PITS.3U	RESRVS.3U
1	M730GM****	PCFM.GH	MODEL.G1	PITS.GH	RESRVS.GH

JOB,9 RUN730.RS 'GPS PMG015,HANSON,906080,LST730.RS'
GPS362 RUN730.RS-PNC/LIB\$ 93230 6043244010
!

PLEASE RESPOND WITHIN 8 MINUTES
!
GOOD BYE.

!_o*CCCCC
PORT: 66
CENTER:

JOB,9 RUN712.RS 'GPS PMG015,HANSON,906080,LBT712.RS'
GPS362 RUN712.RS-PNC/LIB# 94083 6043244010

INQUIRE 94083
94083 EXECUTING
!INQUIRE
94083 OUT# COMPLETED

!
PROTO# LST712.0EJ
LST712.01-PNC/LIB#
LST712.02-PNC/LIB#
LST712.03-PNC/LIB#
LST712.04-PNC/LIB#
LST712.05-PNC/LIB#
LST712.06-PNC/LIB#
LST712.07-PNC/LIB#
LST712.08-PNC/LIB#
LST712.09-PNC/LIB#
SRU'S:4
!

PROTO#,DO LST712.0EJ '!OUTPUT [E]'
GPS362 LST712.01-PNC/LIB# 94914 6043244010
GPS362 LST712.02-PNC/LIB# 95036 6043244010
GPS362 LST712.03-PNC/LIB# 95049 6043244010
GPS362 LST712.04-PNC/LIB# 95110 6043244010
GPS362 LST712.05-PNC/LIB# 95177 6043244010
GPS362 LST712.06-PNC/LIB# 95462 6043244010
GPS362 LST712.07-PNC/LIB# 95539 6043244010
GPS362 LST712.08-PNC/LIB# 95590 6043244010
GPS362 LST712.09-PNC/LIB# 95668 6043244010
!

PMG015 906080

LST712 01 LIB\$ AT: 10/08/81 15:31:40 JOB: 94914 TT 40-03-034 6043244010 1 COPY: 1 *

```

***-----*-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                               * MINTEC, INC TUCSON, ARIZONA *
*** AT 13:08:30                                     *
*** INPUT:JCL712.01  OUTPUT:LST712.01 *
***-----*-----*

```

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	14	10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

PIT: PHASE 1

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4
IORE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 1

ORE TABLE NO. (NTORE) = 1
NO. OF BENCHES (NZ) = 14
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NAREA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 1
LAST RECORD NO. (N18) = 14

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 1

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00	0.	0.	212625.	477900.	658125.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	0.	0.	212625.	477900.	658125.
-------------------	----	----	---------	---------	---------

SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

*UNSPECIFIED TONS	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

**BENCH TOTAL TONS	0.	0.	212625.	477900.	658125.
--------------------	----	----	---------	---------	---------

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 1

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	-.00	1042875.	1034775.	933525.	733050.	554850.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS 1042875. 1034775. 933525. 733050. 554850.

SFDE T.F.= 1.00

SFDE ABOVE	5.00	0.	0.	0.	115800.	207600.
GRADE 1 = PB	0.	0.	0.	0.	3.8635	3.5337
GRADE 2 = ZN	0.	0.	0.	0.	5.9946	5.3788
GRADE 3 = AG	0.	0.	0.	0.	55.8756	51.5361
GRADE 4 = EQUV	0.	0.	0.	0.	9.8581	8.9125

SFDE ABOVE	4.50	0.	0.	1300.	115800.	219800.
GRADE 1 = PB	0.	0.	0.	1.4000	3.8635	3.4263
GRADE 2 = ZN	0.	0.	0.	3.3000	5.9946	5.2551
GRADE 3 = AG	0.	0.	0.	24.0000	55.8756	50.2020
GRADE 4 = EQUV	0.	0.	0.	4.7000	9.8581	8.6814

SFDE ABOVE	4.00	0.	0.	1300.	115800.	221800.
GRADE 1 = PB	0.	0.	0.	1.4000	3.8635	3.4099
GRADE 2 = ZN	0.	0.	0.	3.3000	5.9946	5.2321
GRADE 3 = AG	0.	0.	0.	24.0000	55.8756	50.0198
GRADE 4 = EQUV	0.	0.	0.	4.7000	9.8581	8.6419

SFDE WASTE-	4.00	0.	0.	7655.	37564.	90011.
GRADE 1 = PB	0.	0.	0.	0.	0.	.1980
GRADE 2 = ZN	0.	0.	0.	0.	0.	.3600
GRADE 3 = AG	0.	0.	0.	0.	0.	3.9595
GRADE 4 = EQUV	0.	0.	0.	0.	0.	.5579

SFDE TOTAL TONS 0. 0. 8955. 153364. 311811.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 1042875. 1034775. 942480. 886414. 866661.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 1

BENCH REFERENCE NO.	11	12	13	14
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	-.00	344250.	166050.	105300.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	344250.	166050.	105300.	0.
-------------------	---------	---------	---------	----

SFDE T.F.= 1.00

SFDE ABOVE 5.00	443700.	382400.	382300.	253000.
GRADE 1 = PB	3.866	4.4652	4.1318	4.6112
GRADE 2 = ZN	6.554	7.6831	6.9405	7.5139
GRADE 3 = AG	58.630	69.9642	65.6314	71.8735
GRADE 4 = EQUV	10.420	12.1483	11.0723	12.1251

SFDE ABOVE 4.50	454400.	384600.	389900.	253000.
GRADE 1 = PB	3.812	4.4508	4.0937	4.6112
GRADE 2 = ZN	6.473	7.6552	6.8542	7.5139
GRADE 3 = AG	57.744	69.8107	65.1493	71.8735
GRADE 4 = EQUV	10.285	12.1060	10.9479	12.1251

SFDE ABOVE 4.00	454400.	385900.	393500.	253000.
GRADE 1 = PB	3.812	4.4415	4.0746	4.6112
GRADE 2 = ZN	6.473	7.6382	6.8107	7.5139
GRADE 3 = AG	57.744	69.6867	64.8826	71.8735
GRADE 4 = EQUV	10.285	12.0797	10.8852	12.1251

SFDE WASTE- 4.00	100946.	125388.	95459.	60831.
GRADE 1 = PB	.024	.2099	.1527	.0266
GRADE 2 = ZN	.042	.4231	.1209	.0499
GRADE 3 = AG	.542	5.6202	2.1001	1.0652
GRADE 4 = EQUV	.066	.6331	.2737	.0766

SFDE TOTAL TONS	555346.	511288.	488959.	313831.
-------------------	---------	---------	---------	---------

*UNSPECIFIED TONS	0.	0.	0.	0.
-------------------	----	----	----	----

**BENCH TOTAL TONS	899596.	677338.	594259.	313831.
--------------------	---------	---------	---------	---------

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 1 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 1

BENCH REFERENCE NO. 14
BENCH TOE ELEVATION 1203.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 6263325.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 6263325. *M³*

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1784800.

GRADE 1 = PB 4.118
GRADE 2 = ZN 6.842
GRADE 3 = AG 63.432
GRADE 4 = EQUV 10.960

SFDE ABOVE 4.50 1818800.

GRADE 1 = PB 4.074
GRADE 2 = ZN 6.769
GRADE 3 = AG 62.794
GRADE 4 = EQUV 10.843

SFDE ABOVE 4.00 1825700. *Tonnes.*

GRADE 1 = PB 4.065
GRADE 2 = ZN 6.753
GRADE 3 = AG 62.684
GRADE 4 = EQUV 10.818

SFDE WASTE- 4.00 517853. *M³*

GRADE 1 = PB .121
GRADE 2 = ZN .201
GRADE 3 = AG 2.667
GRADE 4 = EQUV .323

SFDE TOTAL TONS 2343553.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 8606878.

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	14	0	2

*** M712V1**** FINISHED ON 10/08/81 AT 13:08:41

PMG015 906080

LST712 02 LIB\$ AT: 10/08/81 15:32:27 JOB: 95036 TT 40-03-034 6043244010 2 COPY: 1 *

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***-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM  COPYRIGHT 1978 *
***                                     *
***           AT 13:08:42 * MINTEC, INC  TUCSON, ARIZONA *
*** INPUT:JCL712.02  OUTPUT:LST712.02 *
***-----*

```

```

**M712V1 RELEASE 9**  REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

```

** FILE 10: PROJECT CONTROL FILE **

DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS	= 14	* 10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **

```

** CYPRUS ANVIL MINING CORPORATION **
**   GRUM   DEPOSIT   **

```

PIT: PHASE 2

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4

IORE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 2

ORE TABLE NO. (NTORE) = 2
NO. OF BENCHES (NZ) = 16
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NAREA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 51
LAST RECORD NO. (N18) = 66

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.00	0.	0.	194400.	218700.	273375.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS 0. 0. 194400. 218700. 273375.

SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 0. 0.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 0. 0. 194400. 218700. 273375.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	6	7	8	9	10
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	259200.	238950.	188325.	172125.	180225.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	6	7	8	9	10
GRADE 1 = PB	0.	0.	1.9569	2.5475	2.4647
GRADE 2 = ZN	0.	0.	3.9935	4.6978	5.0211
GRADE 3 = AG	0.	0.	32.0909	40.1339	44.1703
GRADE 4 = EQUV	0.	0.	5.9504	7.2454	7.4857

SFDE ABOVE 4.50	6	7	8	9	10
GRADE 1 = PB	0.	1.6149	1.7030	2.2916	2.4422
GRADE 2 = ZN	0.	3.0149	3.7048	4.3731	4.9764
GRADE 3 = AG	0.	29.0000	28.4385	36.3802	43.7478
GRADE 4 = EQUV	0.	4.6298	5.4079	6.6646	7.4186

SFDE ABOVE 4.00	6	7	8	9	10
GRADE 1 = PB	1.400	1.5249	1.7030	2.0632	2.4422
GRADE 2 = ZN	2.700	2.6580	3.7048	4.0799	4.9764
GRADE 3 = AG	27.000	26.5975	28.4385	33.0687	43.7478
GRADE 4 = EQUV	4.100	4.1830	5.4079	6.1431	7.4186

SFDE WASTE- 4.00	6	7	8	9	10
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	21612.	51314.	88723.	98830.	73700.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	280812.	290264.	277048.	270955.	253925.
--------------------	---------	---------	---------	---------	---------

0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
WASTE- .00	157950.	170100.	143775.	103275.	56700.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	157950.	170100.	143775.	103275.	56700.
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SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
ABOVE 5.00	55300.	82600.	87800.	158100.	281800.
GRADE 1 = PB	2.720	2.8845	3.4024	3.8617	4.1993
GRADE 2 = ZN	4.722	4.8640	5.0771	6.1395	6.6908
GRADE 3 = AG	44.472	43.0121	50.1355	57.6724	65.2683
GRADE 4 = EQUV	7.442	7.7485	8.4795	10.0012	10.8901

SFDE ABOVE 4.50	55300.	92300.	88700.	158100.	281800.
GRADE 1 = PB	2.720	2.7834	3.3943	3.8617	4.1993
GRADE 2 = ZN	4.722	4.6553	5.0459	6.1395	6.6908
GRADE 3 = AG	44.472	41.8602	50.1646	57.6724	65.2683
GRADE 4 = EQUV	7.442	7.4387	8.4401	10.0012	10.8901

SFDE ABOVE 4.00	55300.	98400.	88700.	158100.	281800.
GRADE 1 = PB	2.720	2.7101	3.3943	3.8617	4.1993
GRADE 2 = ZN	4.722	4.5402	5.0459	6.1395	6.6908
GRADE 3 = AG	44.472	40.6911	50.1646	57.6724	65.2683
GRADE 4 = EQUV	7.442	7.2503	8.4401	10.0012	10.8901

SFDE WASTE-	11	12	13	14	15
WASTE- 4.00	20230.	39245.	36693.	47466.	59414.
GRADE 1 = PB	0.	0.	0.	0.	.0375
GRADE 2 = ZN	0.	0.	0.	0.	.0579
GRADE 3 = AG	0.	0.	0.	0.	.5453
GRADE 4 = EQUV	0.	0.	0.	0.	.0954

SFDE TOTAL TONS	75530.	137645.	125393.	205566.	341214.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	233480.	307745.	269168.	308841.	397914.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

BENCH REFERENCE NO. 16
BENCH TOE ELEVATION 1185.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 0.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 0.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 128700.
GRADE 1 = PB 4.041
GRADE 2 = ZN 6.202
GRADE 3 = AG 63.413
GRADE 4 = EQUV 10.244

SFDE ABOVE 4.50 128700.
GRADE 1 = PB 4.041
GRADE 2 = ZN 6.202
GRADE 3 = AG 63.413
GRADE 4 = EQUV 10.244

SFDE ABOVE 4.00 131800.
GRADE 1 = PB 3.984
GRADE 2 = ZN 6.121
GRADE 3 = AG 62.557
GRADE 4 = EQUV 10.105

SFDE WASTE- 4.00 28127.
GRADE 1 = PB .065
GRADE 2 = ZN .158
GRADE 3 = AG 1.440
GRADE 4 = EQUV .223

SFDE TOTAL TONS 159927.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 159927.

0

10

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 2 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 2

BENCH REFERENCE NO. 16
BENCH TOE ELEVATION 1185.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 2357100.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 2357100.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 933700.

GRADE 1 = 3.566
GRADE 2 = ZN 5.792
GRADE 3 = AG 55.255
GRADE 4 = EQUV 9.358

SFDE ABOVE 4.50 998300.

GRADE 1 = PB 3.434
GRADE 2 = ZN 5.627
GRADE 3 = AG 53.374
GRADE 4 = EQUV 9.061

SFDE ABOVE 4.00 1075600.

GRADE 1 = PB 3.292
GRADE 2 = ZN 5.421
GRADE 3 = AG 51.348
GRADE 4 = EQUV 8.713

SFDE WASTE- 4.00 303851.

GRADE 1 = PB .013
GRADE 2 = ZN .026
GRADE 3 = AG .240
GRADE 4 = EQUV .039

SFDE TOTAL TONS 1379451.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 3736551.

0
M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	16	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 13:08:52

PMG015 906080

LST712 03 LIB\$ AT: 10/08/81 15:33:19 JOB: 95049 TT 40-03-034 6043244010 3 COPY: 1 #

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***-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                                     * AT 13:08:54 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.03 OUTPUT:LST712.03 *
***-----*

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**M712V1 RELEASE 9**  REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

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** FILE 10: PROJECT CONTROL FILE **

FILE PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS = 14	10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **

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** ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

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PHASE 3

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4
IORE(I)	0	4
JORE(I)	0	6
COG I)	0.	5.000
	0	3
	0	6
CSG(1)	0.	4.500
(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000
IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 3

ORE TABLE NO. (NTORE) = 3
NO. OF BENCHES (NZ) = 18
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NAREA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 101
LAST RECORD NO. (N18) = 118

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOIT **

SUMMARY OF RESERVES FOR PHASE 3

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.00	0.	85050.	299700.	409050.	435375.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS 0. 85050. 299700. 409050. 435375.

SFDE T.F.= 1.00

SFDE ABOVE	5.00	0.	0.	0.	700.	13400.
GRADE 1 = PB	0.	0.	0.	0.	4.7000	3.2381
GRADE 2 = ZN	0.	0.	0.	0.	8.3000	6.0948
GRADE 3 = AG	0.	0.	0.	0.	79.0000	52.5522
GRADE 4 = EQUV	0.	0.	0.	0.	13.0000	9.3328

SFDE ABOVE	4.50	0.	0.	0.	700.	13400.
GRADE 1 = PB	0.	0.	0.	0.	4.7000	3.2381
GRADE 2 = ZN	0.	0.	0.	0.	8.3000	6.0948
GRADE 3 = AG	0.	0.	0.	0.	79.0000	52.5522
GRADE 4 = EQUV	0.	0.	0.	0.	13.0000	9.3328

SFDE ABOVE	4.00	0.	0.	0.	700.	13400.
GRADE 1 = PB	0.	0.	0.	0.	4.7000	3.2381
GRADE 2 = ZN	0.	0.	0.	0.	8.3000	6.0948
GRADE 3 = AG	0.	0.	0.	0.	79.0000	52.5522
GRADE 4 = EQUV	0.	0.	0.	0.	13.0000	9.3328

SFDE WASTE-	4.00	0.	0.	0.	1802.	11725.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 2502. 25125.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 0. 85050. 299700. 411552. 460500.

0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 3

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	419175.	376650.	350325.	346275.	311850.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	419175.	376650.	350325.	346275.	311850.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	29700.	79600.	73300.	79400.	70100.
GRADE 1 = PB	1.698	2.0829	3.4497	2.7519	2.4021
GRADE 2 = ZN	3.659	4.4667	6.0649	4.8606	4.4496
GRADE 3 = AG	26.000	33.4560	52.3206	42.5151	38.1427
GRADE 4 = EQUV	5.357	6.5496	9.5146	7.6125	6.8518

SFDE ABOVE 4.50	33700.	85700.	73300.	79400.	70100.
GRADE 1 = PB	1.686	2.0485	3.4497	2.7519	2.4021
GRADE 2 = ZN	3.604	4.3623	6.0649	4.8606	4.4496
GRADE 3 = AG	26.000	33.1389	52.3206	42.5151	38.1427
GRADE 4 = EQUV	5.291	6.4109	9.5146	7.6125	6.8518

SFDE ABOVE 4.00	33700.	87000.	80700.	79400.	70100.
GRADE 1 = PB	1.686	2.0403	3.2633	2.7519	2.4021
GRADE 2 = ZN	3.604	4.3390	5.7672	4.8606	4.4496
GRADE 3 = AG	26.000	33.0471	49.6481	42.5151	38.1427
GRADE 4 = EQUV	5.291	6.3793	9.0305	7.6125	6.8518

SFDE WASTE- 4.00	8991.	15512.	25657.	18650.	21546.
GRADE 1 = PB	0.	0.	.2052	0.	0.
GRADE 2 = ZN	0.	0.	.3788	0.	0.
GRADE 3 = AG	0.	0.	3.1571	0.	0.
GRADE 4 = EQUV	0.	0.	.5841	0.	0.

SFDE TOTAL TONS	42691.	102512.	106357.	98050.	91646.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	461866.	479162.	456682.	444325.	403496.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 3

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	299700.	303750.	277425.	295650.	208575.
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SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	3.403	3.5706	2.9458	2.9494	3.1866
GRADE 2 = ZN	6.056	6.0636	5.1507	5.2696	5.3721
GRADE 3 = AG	51.182	52.2633	46.2196	45.3440	49.6556
GRADE 4 = EQUV	9.460	9.6342	8.0965	8.2190	8.5587

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	3.403	3.5706	2.9281	2.9164	3.1559
GRADE 2 = ZN	6.056	6.0636	4.9892	5.2213	5.3344
GRADE 3 = AG	51.182	52.2633	46.5671	44.9192	49.1698
GRADE 4 = EQUV	9.460	9.6342	7.9172	8.1377	8.4902

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	3.403	3.5706	2.9281	2.9164	3.1559
GRADE 2 = ZN	6.056	6.0636	4.9892	5.2213	5.3344
GRADE 3 = AG	51.182	52.2633	46.5671	44.9192	49.1698
GRADE 4 = EQUV	9.460	9.6342	7.9172	8.1377	8.4902

SFDE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	.0215
GRADE 2 = ZN	0.	0.	0.	0.	.0334
GRADE 3 = AG	0.	0.	0.	0.	.3103
GRADE 4 = EQUV	0.	0.	0.	0.	.0549

SFDE TOTAL TONS	132725.	139873.	159370.	249552.	381148.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	432425.	443623.	436795.	545202.	589723.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 3

BENCH REFERENCE NO.	16	17	18
BENCH TOE ELEVATION	1185.	1176.	1167.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	-.00	117450.	70875.	0.
GRADE 1 = PB		0.	0.	0.
GRADE 2 = ZN		0.	0.	0.
GRADE 3 = AG		0.	0.	0.
GRADE 4 = EQUV		0.	0.	0.

WSTE TOTAL TONS 117450. 70875. 0.

SFDE T.F.= 1.00

SFDE ABOVE 5.00	428800.	410900.	225400.
GRADE 1 = PB	3.218	3.3786	4.0937
GRADE 2 = ZN	4.854	5.0952	7.0637
GRADE 3 = AG	49.705	51.0277	62.4033
GRADE 4 = EQUV	8.073	8.4738	11.1574

SFDE ABOVE 4.50	444000.	423300.	225400.
GRADE 1 = PB	3.178	3.3395	4.0937
GRADE 2 = ZN	4.781	5.0253	7.0637
GRADE 3 = AG	48.916	50.4411	62.4033
GRADE 4 = EQUV	7.959	8.3648	11.1574

SFDE ABOVE 4.00	444000.	423300.	225400.
GRADE 1 = PB	3.178	3.3395	4.0937
GRADE 2 = ZN	4.781	5.0253	7.0637
GRADE 3 = AG	48.916	50.4411	62.4033
GRADE 4 = EQUV	7.959	8.3648	11.1574

SFDE WASTE- 4.00	78530.	92887.	47304.
GRADE 1 = PB	.052	.1461	0.
GRADE 2 = ZN	.111	.1461	0.
GRADE 3 = AG	.980	2.0929	0.
GRADE 4 = EQUV	.162	.2921	0.

SFDE TOTAL TONS 522530. 516187. 272704.

*UNSPECIFIED TONS 0. 0. 0.

**BENCH TOTAL TONS 639980. 587062. 272704.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 3 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOS T **

SUMMARY OF RESERVES FOR PHASE 3

BENCH REFERENCE NO. 18
BENCH TOE ELEVATION 1167.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 4606875.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 4606875.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 2220500.

GRADE 1 = PB 3.227
GRADE 2 = ZN 5.364
GRADE 3 = AG 49.470
GRADE 4 = EQUV 8.591

SFDE ABOVE 4.50 2274600.

GRADE 1 = PB 3.196
GRADE 2 = ZN 5.303
GRADE 3 = AG 49.023
GRADE 4 = EQUV 8.499

SFDE ABOVE 4.00 2283300.

GRADE 1 = PB 3.189
GRADE 2 = ZN 5.294
GRADE 3 = AG 48.927
GRADE 4 = EQUV 8.483

SFDE WASTE- 4.00 559670.

GRADE 1 = PB .044
GRADE 2 = ZN .062
GRADE 3 = AG .677
GRADE 4 = EQUV .106

SFDE TOTAL TONS 2842970.

#UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 7449845.

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	18	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 13:09:03

PMG015 906080

LST712 04 LIB\$

AT: 10/08/81 15:34:07 JOB: 95110

TT 40-03-034 6043244010 4

COPY: 1 *

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***-----*
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
*** AT 13:09:06 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.04 OUTPUT:LST712.04 *
***-----*

```

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	14	10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

PIT: PHASE 4

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4

IORE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
-----	-----	*	-----	-----	-----	-----
BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 4

ORE TABLE NO. (NTORE) = 4
NO. OF BENCHES (NZ) = 20
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NAREA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 151
LAST RECORD NO. (N18) = 170

0

10

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 4

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.	245025.	398925.	429300.	405000.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	0.	245025.	398925.	429300.	405000.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	1300.
GRADE 1 = PB	0.	0.	0.	0.	3.1000
GRADE 2 = ZN	0.	0.	0.	0.	5.9000
GRADE 3 = AG	0.	0.	0.	0.	50.0000
GRADE 4 = EQUV	0.	0.	0.	0.	9.0000

SFDE ABOVE 4.50	0.	0.	0.	0.	1300.
GRADE 1 = PB	0.	0.	0.	0.	3.1000
GRADE 2 = ZN	0.	0.	0.	0.	5.9000
GRADE 3 = AG	0.	0.	0.	0.	50.0000
GRADE 4 = EQUV	0.	0.	0.	0.	9.0000

SFDE ABOVE 4.00	0.	0.	0.	0.	1300.
GRADE 1 = PB	0.	0.	0.	0.	3.1000
GRADE 2 = ZN	0.	0.	0.	0.	5.9000
GRADE 3 = AG	0.	0.	0.	0.	50.0000
GRADE 4 = EQUV	0.	0.	0.	0.	9.0000

SFDE WASTE- 4.00	0.	0.	0.	0.	1580.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	0.	0.	0.	0.	2880.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	0.	245025.	398925.	429300.	407880.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOS **

SUMMARY OF RESERVES FOR PHASE 4

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00	370575.	350325.	328050.	305775.	293625.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	370575.	350325.	328050.	305775.	293625.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	14100.	49800.	25700.	95700.	76900.
GRADE 1 = PB	1.700	1.8805	2.5514	2.2659	2.1424
GRADE 2 = ZN	3.700	4.4637	4.8479	4.3085	3.8157
GRADE 3 = AG	26.000	28.8213	39.3502	35.4838	32.7776
GRADE 4 = EQUV	5.400	6.3442	7.3992	6.5744	5.9581

SFDE ABOVE 4.50	14100.	49800.	37800.	95700.	95200.
GRADE 1 = PB	1.700	1.8805	2.1971	2.2659	2.0574
GRADE 2 = ZN	3.700	4.4637	4.3415	4.3085	3.6589
GRADE 3 = AG	26.000	28.8213	34.8810	35.4838	31.6670
GRADE 4 = EQUV	5.400	6.3442	6.5386	6.5744	5.7163

SFDE ABOVE 4.00	14100.	49800.	49200.	95700.	95200.
GRADE 1 = PB	1.700	1.8805	2.0248	2.2659	2.0574
GRADE 2 = ZN	3.700	4.4637	3.9654	4.3085	3.6589
GRADE 3 = AG	26.000	28.8213	32.2520	35.4838	31.6670
GRADE 4 = EQUV	5.400	6.3442	5.9902	6.5744	5.7163

SFDE WASTE- 4.00	17577.	27905.	36248.	20696.	18893.
GRADE 1 = PB	0.	0.	.6536	0.	0.
GRADE 2 = ZN	0.	0.	1.2514	0.	0.
GRADE 3 = AG	0.	0.	10.6704	0.	0.
GRADE 4 = EQUV	0.	0.	1.9050	0.	0.

SFDE TOTAL TONS	31677.	77705.	85448.	116396.	114093.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	402252.	428030.	413498.	422171.	407718.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 4

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00	291600.	269325.	265275.	263250.	236925.
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GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	291600.	269325.	265275.	263250.	236925.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	67500.	64100.	56800.	39000.	41700.
GRADE 1 = PB	2.968	2.3883	2.2810	2.1223	2.3309
GRADE 2 = ZN	5.778	4.5953	4.6173	4.2333	3.8504
GRADE 3 = AG	44.447	35.0452	36.1549	34.3923	36.5947
GRADE 4 = EQUV	8.746	6.9836	6.8982	6.3556	6.1813

SFDE ABOVE 4.50	67500.	64100.	76300.	47000.	41700.
GRADE 1 = PB	2.968	2.3883	2.1316	2.0377	2.3309
GRADE 2 = ZN	5.778	4.5953	4.2118	4.0447	3.8504
GRADE 3 = AG	44.447	35.0452	33.4181	32.8362	36.5947
GRADE 4 = EQUV	8.746	6.9836	6.3434	6.0823	6.1813

SFDE ABOVE 4.00	67500.	68800.	79000.	49000.	41700.
GRADE 1 = PB	2.968	2.3276	2.1100	2.0157	2.3309
GRADE 2 = ZN	5.778	4.4532	4.1601	3.9939	3.8504
GRADE 3 = AG	44.447	34.1642	33.0278	32.4755	36.5947
GRADE 4 = EQUV	8.746	6.7808	6.2701	6.0096	6.1813

SFDE WASTE- 4.00	18002.	11462.	20291.	20068.	12353.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	85502.	80262.	99291.	69068.	54053.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	377102.	349587.	364566.	332318.	290978.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 4

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	-0.00	224775.	133650.	129600.	85050.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS	224775.	133650.	129600.	85050.	0.
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SFDE T.F.= 1.00

SFDE ABOVE	5.00	143600.	221300.	329500.	401000.	199300.
GRADE 1 = PB	3.057	3.3816	3.8502	3.7836	3.7771	
GRADE 2 = ZN	4.551	4.7862	5.5449	6.1031	6.3541	
GRADE 3 = AG	45.694	49.9295	56.4977	57.7653	58.7717	
GRADE 4 = EQUV	7.608	8.1677	9.3951	9.8867	10.1312	

SFDE ABOVE	4.50	149400.	227400.	329500.	401900.	199300.
GRADE 1 = PB	3.035	3.3526	3.8502	3.7816	3.7771	
GRADE 2 = ZN	4.461	4.7248	5.5449	6.0939	6.3541	
GRADE 3 = AG	45.111	49.4485	56.4977	57.7278	58.7717	
GRADE 4 = EQUV	7.496	8.0774	9.3951	9.8755	10.1312	

SFDE ABOVE	4.00	152800.	231900.	329500.	401900.	199300.
GRADE 1 = PB	3.000	3.3154	3.8502	3.7816	3.7771	
GRADE 2 = ZN	4.427	4.6887	5.5449	6.0939	6.3541	
GRADE 3 = AG	44.730	48.9741	56.4977	57.7278	58.7717	
GRADE 4 = EQUV	7.427	8.0041	9.3951	9.8755	10.1312	

SFDE WASTE-	4.00	50868.	78975.	46757.	83714.	47952.
GRADE 1 = PB	0.	.2410	0.	.0895	0.	
GRADE 2 = ZN	0.	.2949	0.	.1040	0.	
GRADE 3 = AG	0.	3.5128	0.	1.3062	0.	
GRADE 4 = EQUV	0.	.5359	0.	.1935	0.	

SFDE TOTAL TONS	203668.	310875.	376257.	485614.	247252.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	428443.	444525.	505857.	570664.	247252.
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0

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 4 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 4

BENCH REFERENCE NO. 20
BENCH TOE ELEVATION 1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 5026050.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 5026050.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1827300.

GRADE 1 = PB 3.260
GRADE 2 = ZN 5.275
GRADE 3 = AG 49.289
GRADE 4 = EQUV 8.535

SFDE ABOVE 4.50 1898000.

GRADE 1 = PB 3.205
GRADE 2 = ZN 5.188
GRADE 3 = AG 48.459
GRADE 4 = EQUV 8.393

SFDE ABOVE 4.00 1926700.

GRADE 1 = PB 3.179
GRADE 2 = ZN 5.152
GRADE 3 = AG 48.094
GRADE 4 = EQUV 8.331

SFDE WASTE- 4.00 513338.

GRADE 1 = PB .098
GRADE 2 = ZN .151
GRADE 3 = AG 1.507
GRADE 4 = EQUV .249

SFDE TOTAL TONS 2440038.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 7466088.

0
M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE; MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	20	0	2

*** M712V1**** FINISHED ON 10/08/81 AT 13:09:18

PMG015 906080

LST712 05 LIB\$

AT: 10/08/81 15:34:58 JOB: 95177

TT 40-03-034 6043244010 5

COPY: 1 *

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***-----*
***                                     *
*** M712V1*****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                                     * AT 13:09:21 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.05 OUTPUT:LST712.05 *
***-----*

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M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	14	10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

PIT: PHASE 5

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4

IORE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 5

ORE TABLE NO. (NTORE) = 5
NO. OF BENCHES (NZ) = 22
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NARFA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 201
LAST RECORD NO. (N18) = 222

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.	153900.	226800.	200475.	226800.
---------------	----	---------	---------	---------	---------

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	0.	153900.	226800.	200475.	226800.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.
--------------------	----	----	----	----	----

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

*UNSPECIFIED TONS	0.	0.	0.	0.	0.
-------------------	----	----	----	----	----

**BENCH TOTAL TONS	0.	153900.	226800.	200475.	226800.
--------------------	----	---------	---------	---------	---------

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	6	7	8	9	10
WASTE- --.00	251100.	214650.	226800.	236925.	220725.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 251100. 214650. 226800. 236925. 220725.

SFDE T.F.= 1.00

SFDE ABOVE	6	7	8	9	10
ABOVE 5.00	0.	0.	0.	16100.	0.
GRADE 1 = PB	0.	0.	0.	1.9627	0.
GRADE 2 = ZN	0.	0.	0.	3.6292	0.
GRADE 3 = AG	0.	0.	0.	31.7516	0.
GRADE 4 = EQUV	0.	0.	0.	5.5919	0.

SFDE ABOVE	6	7	8	9	10
ABOVE 4.50	0.	0.	0.	16100.	8100.
GRADE 1 = PB	0.	0.	0.	1.9627	1.8519
GRADE 2 = ZN	0.	0.	0.	3.6292	2.9753
GRADE 3 = AG	0.	0.	0.	31.7516	28.5185
GRADE 4 = EQUV	0.	0.	0.	5.5919	4.8272

SFDE ABOVE	6	7	8	9	10
ABOVE 4.00	0.	0.	0.	16100.	14100.
GRADE 1 = PB	0.	0.	0.	1.9627	1.7872
GRADE 2 = ZN	0.	0.	0.	3.6292	2.8582
GRADE 3 = AG	0.	0.	0.	31.7516	27.4468
GRADE 4 = EQUV	0.	0.	0.	5.5919	4.6454

SFDE WASTE-	6	7	8	9	10
WASTE- 4.00	0.	0.	0.	4718.	5407.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 20818. 19507.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 251100. 214650. 226800. 257743. 240232.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	212625.	218700.	208575.	196425.	226800.
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SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	3.260	2.9919	3.1698	2.8653	4.4020
GRADE 2 = ZN	5.512	5.3847	6.3759	5.2509	6.8015
GRADE 3 = AG	48.959	45.8508	51.3608	50.0994	67.1037
GRADE 4 = EQUV	8.771	8.3766	9.5457	8.1162	11.2035

SFDE ABOVE 4.50	31700.	24800.	29100.	35200.	73300.
GRADE 1 = PB	3.135	2.9919	3.1698	2.8653	4.4020
GRADE 2 = ZN	5.306	5.3847	6.3759	5.2509	6.8015
GRADE 3 = AG	47.259	45.8508	51.3608	50.0994	67.1037
GRADE 4 = EQUV	8.442	8.3766	9.5457	8.1162	11.2035

SFDE ABOVE 4.00	31700.	24800.	29100.	35200.	73300.
GRADE 1 = PB	3.135	2.9919	3.1698	2.8653	4.4020
GRADE 2 = ZN	5.306	5.3847	6.3759	5.2509	6.8015
GRADE 3 = AG	47.259	45.8508	51.3608	50.0994	67.1037
GRADE 4 = EQUV	8.442	8.3766	9.5457	8.1162	11.2035

SFDE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	37330.	34925.	39691.	41741.	93793.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	249955.	253625.	248266.	238166.	320593.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	16	17	18	19	20
WASTE- 0.00	236925.	186300.	174150.	153900.	127575.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	236925.	186300.	174150.	153900.	127575.
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SFDE T.F.= 1.00

SFDE ABOVE	16	17	18	19	20
ABOVE 5.00	39400.	88200.	203700.	264200.	323600.
GRADE 1 = PB	2.654	2.8249	3.1324	3.8100	3.1453
GRADE 2 = ZN	4.174	4.1690	4.6304	6.1111	5.5494
GRADE 3 = AG	43.239	40.8583	45.5636	57.4217	49.9397
GRADE 4 = EQUV	6.828	6.9940	7.7629	9.9211	8.6947

SFDE ABOVE 4.50	56300.	93600.	206400.	280000.	340500.
GRADE 1 = PB	2.399	2.7716	3.1150	3.7073	3.0786
GRADE 2 = ZN	3.790	4.1016	4.6091	5.9105	5.4242
GRADE 3 = AG	39.073	40.2895	45.3338	55.9157	48.8687
GRADE 4 = EQUV	6.190	6.8732	7.7241	9.6178	8.5028

SFDE ABOVE 4.00	80700.	103700.	215100.	286500.	340500.
GRADE 1 = PB	2.128	2.6634	3.0537	3.6617	3.0786
GRADE 2 = ZN	3.451	3.9513	4.5256	5.8377	5.4242
GRADE 3 = AG	35.447	38.9952	44.5458	55.2824	48.8687
GRADE 4 = EQUV	5.580	6.6147	7.5794	9.4994	8.5028

SFDE WASTE-	16	17	18	19	20
WASTE- 4.00	23166.	56032.	110747.	84645.	71483.
GRADE 1 = PB	.446	.6867	.2724	.2416	.1728
GRADE 2 = ZN	.743	1.1637	.5778	.5000	.3484
GRADE 3 = AG	7.692	12.8298	6.5094	5.6938	3.9093
GRADE 4 = EQUV	1.189	1.8504	.8502	.7416	.5212

SFDE TOTAL TONS	103866.	159732.	325847.	371145.	411983.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	340791.	346032.	499997.	525045.	539558.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO. 21 22
 BENCH TOE ELEVATION 1140. 1131.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 78975. 0.
 GRADE 1 = PB 0. 0.
 GRADE 2 = ZN 0. 0.
 GRADE 3 = AG 0. 0.
 GRADE 4 = EQUV 0. 0.

WSTE TOTAL TONS 78975. 0.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 433900. 276200.
 GRADE 1 = PB 3.772 4.1963
 GRADE 2 = ZN 6.348 6.8626
 GRADE 3 = AG 58.325 63.4696
 GRADE 4 = EQUV 10.120 11.0589

SFDE ABOVE 4.50 440600. 276200.
 GRADE 1 = PB 3.745 4.1963
 GRADE 2 = ZN 6.289 6.8626
 GRADE 3 = AG 57.843 63.4696
 GRADE 4 = EQUV 10.034 11.0589

SFDE ABOVE 4.00 455000. 277100.
 GRADE 1 = PB 3.682 4.1882
 GRADE 2 = ZN 6.165 6.8491
 GRADE 3 = AG 56.762 63.3511
 GRADE 4 = EQUV 9.847 11.0373

SFDE WASTE- 4.00 86954. 39852.
 GRADE 1 = PB .128 0.
 GRADE 2 = ZN .307 0.
 GRADE 3 = AG 2.608 0.
 GRADE 4 = EQUV .435 0.

SFDE TOTAL TONS 541954. 316952.

*UNSPECIFIED TONS 0. 0.

**BENCH TOTAL TONS 620929. 316952.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 5 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 5

BENCH REFERENCE NO. 22
BENCH TOE ELEVATION 1131.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- .00 3979125.

GRADE 1 =	PB	0.
GRADE 2 =	ZN	0.
GRADE 3 =	AG	0.
GRADE 4 =	EQUV	0.

WSTE TOTAL TONS 3979125.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1836700.

GRADE 1 =	PB	3.554
GRADE 2 =	ZN	5.856
GRADE 3 =	AG	54.447
GRADE 4 =	EQUV	9.410

SFDE ABOVE 4.50 1911900.

GRADE 1 =	PB	3.488
GRADE 2 =	ZN	5.738
GRADE 3 =	AG	53.452
GRADE 4 =	EQUV	9.226

SFDE ABOVE 4.00 1982900.

GRADE 1 =	PB	3.421
GRADE 2 =	ZN	5.625
GRADE 3 =	AG	52.477
GRADE 4 =	EQUV	9.046

SFDE WASTE- 4.00 536382.

GRADE 1 =	PB	.229
GRADE 2 =	ZN	.448
GRADE 3 =	AG	4.859
GRADE 4 =	EQUV	.677

SFDE TOTAL TONS 2519282.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 6498407.

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	22	0	2

*** M712V1**** FINISHED ON 10/08/81 AT 13:09:40

PMG015 906080

LST712 06 LIB\$ AT: 10/08/81 15:35:50 JOB: 95462 TT 40-03-034 6043244010 6 COPY: 1 *

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***-----*
***                                     *
*** M712V1*****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                                     *
***                               AT 13:09:43 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.06  OUTPUT:LST712.06 *
***-----*

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**M712V1 RELEASE 9**  REVISED 15 JAN, 1975
MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

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** FILE 10: PROJECT CONTROL FILE **

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DATA FILE PCFM.3U  * NO.  SIZE  RECS  /REC
-----*-----*-----*
MAX # BUFFERS = 14 * 10  400    1  400

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** IN18 = 1

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **

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** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

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PIT: PHASE 6

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ILAB(I)  WSTE  SFDE
TFO(I)   1.00  1.00
NCT(I)   1     6
JCT(I)   0     4
IORE(I)  0     4
JORE(I)  0     6
COG(I)   0.    5.000

```

```

ISTK(1)  0     3
JSTK(1)  0     6
CSG(1)   0.    4.500

```

```

ISTK(2)  0     2
JSTK(2)  0     6
CSG(2)   0.    4.000

```

```

IWST(I)  1     1
JWST(I)  1     1
CWG(I)  -.001  3.999

```

```

**M712V1 RELEASE 9**  REVISED 15 JAN, 1975

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MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 6

ORE TABLE NO. (NTORE) = 6
NO. OF BENCHES (NZ) = 24
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NARFA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 251
LAST RECORD NO. (N18) = 274

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- 0.00 0. 230850. 277425. 283500. 319950.

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 0. 230850. 277425. 283500. 319950.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 0. 0. 0. 0. 0.

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50 0. 0. 0. 0. 0.

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00 0. 0. 0. 0. 0.

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00 0. 0. 0. 0. 0.

GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 0. 0.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 0. 230850. 277425. 283500. 319950.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	6	7	8	9	10
WASTE- -0.00	315900.	295650.	309825.	277425.	289575.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 315900. 295650. 309825. 277425. 289575.

SFDE T.F.= 1.00

SFDE ABOVE	6	7	8	9	10
ABOVE 5.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE	6	7	8	9	10
ABOVE 4.50	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE	6	7	8	9	10
ABOVE 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE-	6	7	8	9	10
WASTE- 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 0. 0.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 315900. 295650. 309825. 277425. 289575.

0

10

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.00	275400.	245025.	261225.	240975.	234900.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.
WSTE TOTAL TONS		275400.	245025.	261225.	240975.	234900.

SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	900.	3600.
GRADE 1 = PB	0.	0.	0.	3.0000	3.5000
GRADE 2 = ZN	0.	0.	0.	3.9000	4.9000
GRADE 3 = AG	0.	0.	0.	40.0000	53.0000
GRADE 4 = EQUV	0.	0.	0.	6.9000	8.4000

SFDE ABOVE 4.50	0.	0.	3600.	900.	3600.
GRADE 1 = PB	0.	0.	2.6000	3.0000	3.5000
GRADE 2 = ZN	0.	0.	2.0000	3.9000	4.9000
GRADE 3 = AG	0.	0.	53.0000	40.0000	53.0000
GRADE 4 = EQUV	0.	0.	4.6000	6.9000	8.4000

SFDE ABOVE 4.00	0.	0.	3600.	4900.	3600.
GRADE 1 = PB	0.	0.	2.6000	2.3469	3.5000
GRADE 2 = ZN	0.	0.	2.0000	2.4306	4.9000
GRADE 3 = AG	0.	0.	53.0000	31.8367	53.0000
GRADE 4 = EQUV	0.	0.	4.6000	4.7776	8.4000

SFDE WASTE- 4.00	0.	0.	3159.	2693.	3159.
GRADE 1 = PB	0.	0.	1.1538	0.	0.
GRADE 2 = ZN	0.	0.	.8333	0.	0.
GRADE 3 = AG	0.	0.	15.3846	0.	0.
GRADE 4 = EQUV	0.	0.	1.9872	0.	0.

SFDE TOTAL TONS	0.	0.	6759.	7593.	6759.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	275400.	245025.	267984.	248568.	241659.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- .00	208575.	212625.	186300.	119475.	166050.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	208575.	212625.	186300.	119475.	166050.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	7200.	77200.	141700.	192700.
GRADE 1 = PB	0.	3.8125	3.7732	4.1518	2.9880
GRADE 2 = ZN	0.	4.2875	4.4132	5.0086	4.3548
GRADE 3 = AG	0.	54.0000	55.8316	62.0430	45.8324
GRADE 4 = EQUV	0.	8.1000	8.1864	9.1604	7.3428

SFDE ABOVE 4.50	0.	7200.	78100.	142600.	216300.
GRADE 1 = PB	0.	3.8125	3.7574	4.1445	2.8464
GRADE 2 = ZN	0.	4.2875	4.3912	4.9890	4.2007
GRADE 3 = AG	0.	54.0000	55.6031	61.9039	43.6241
GRADE 4 = EQUV	0.	8.1000	8.1485	9.1335	7.0472

SFDE ABOVE 4.00	0.	7200.	78100.	142600.	236600.
GRADE 1 = PB	0.	3.8125	3.7574	4.1445	2.7395
GRADE 2 = ZN	0.	4.2875	4.3912	4.9890	4.0634
GRADE 3 = AG	0.	54.0000	55.6031	61.9039	41.8724
GRADE 4 = EQUV	0.	8.1000	8.1485	9.1335	6.8029

SFDE WASTE 4.00	4050.	6298.	24766.	52002.	71766.
GRADE 1 = PB	0.	0.	.0981	.2414	.2455
GRADE 2 = ZN	0.	0.	.0818	.4089	.4120
GRADE 3 = AG	0.	0.	1.4718	5.6075	4.7122
GRADE 4 = EQUV	0.	0.	1799	.6503	.6574

SFDE TOTAL TONS	4050.	13498.	102866.	194602.	308366.
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*UNSPFCIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	212625.	226123.	289166.	314077.	474416.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO.	21	22	23	24
BENCH TOE ELEVATION	1140.	1131.	1122.	1113.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	21	22	23	24
WASTE-	129600.	109350.	68850.	0.
GRADE 1 = PB	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.

WSTE TOTAL TONS	129600.	109350.	68850.	0.
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SFDE T.F.= 1.00

SFDE ABOVE	21	22	23	24
ABOVE 5.00	162900.	306500.	525300.	262900.
GRADE 1 = PB	3.185	3.2837	3.7201	3.7140
GRADE 2 = ZN	4.877	5.2285	6.1758	6.1237
GRADE 3 = AG	48.072	49.8744	56.5052	56.4876
GRADE 4 = EQUV	8.062	8.5122	9.8959	9.8377

SFDE ABOVE 4.50	170300.	338900.	527300.	262900.
GRADE 1 = PB	3.137	3.1637	3.7144	3.7140
GRADE 2 = ZN	4.780	4.9811	6.1611	6.1237
GRADE 3 = AG	47.149	47.8802	56.4199	56.4876
GRADE 4 = EQUV	7.918	8.1448	9.8755	9.8377

SFDE ABOVE 4.00	201400.	346800.	527300.	280100.
GRADE 1 = PB	2.924	3.1339	3.7144	3.6080
GRADE 2 = ZN	4.428	4.9180	6.1611	5.8843
GRADE 3 = AG	43.715	47.3798	56.4199	54.6184
GRADE 4 = EQUV	7.352	8.0519	9.8755	9.4923

SFDE WASTE-	21	22	23	24
WASTE- 4.00	80352.	56700.	75411.	33453.
GRADE 1 = PB	.315	.0750	0.	.1695
GRADE 2 = ZN	.638	.1393	0.	.2421
GRADE 3 = AG	5.444	1.3571	0.	3.2082
GRADE 4 = EQUV	.953	.2143	0.	.4116

SFDE TOTAL TONS	281752.	403500.	602711.	313553.
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*UNSPECIFIED TONS	0.	0.	0.	0.
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**BENCH TOTAL TONS	411352.	512850.	671561.	313553.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 6 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 6

BENCH REFERENCE NO. 24
BENCH TOE ELEVATION 1113.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 5058450.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 5058450.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1680900.
GRADE 1 = PB 3.542
GRADE 2 = ZN 5.469
GRADE 3 = AG 53.661
GRADE 4 = EQUV 9.011

SFDE ABOVE 4.50 1751700.
GRADE 1 = PB 3.479
GRADE 2 = ZN 5.357
GRADE 3 = AG 52.674
GRADE 4 = EQUV 8.835

SFDE ABOVE 4.00 1832200.
GRADE 1 = PB 3.405
GRADE 2 = ZN 5.227
GRADE 3 = AG 51.462
GRADE 4 = EQUV 8.632

SFDE WASTE- 4.00 413809.
GRADE 1 = PB .173
GRADE 2 = ZN .297
GRADE 3 = AG 3.230
GRADE 4 = EQUV .469

SFDE TOTAL TONS 2246009.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 7304459.

0
M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	24	0	2

*** M712V1**** FINISHED ON 10/08/81 AT 13:09:56

PMG015 906080

LST712 07 LIB\$

AT: 10/08/81 15:36:39 JOB: 95539

TT 40-03-034 6043244010 7

COPY: 1 *

```

***-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                   AT 13:09:58 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.07  OUTPUT:LST712.07 *
***-----*

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**M712V1 RELEASE 9**  REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

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** FILE 10: PROJECT CONTROL FILE **

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DATA FILE PCFM.3U * NO. SIZE RECS /REC
-----*-----*-----*
MAX # BUFFERS = 14 * 10 400 1 400

```

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** IN18 = 1

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **

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** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

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PIT: PHASE 7

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ILAB(I)  WSTE  SFDE
TFO(I)   1.00  1.00
NCT(I)   1     6
JCT(I)   0     4

IORE(I)  0     4
JORE(I)  0     6
COG(I)   0.    5.000

```

```

ISTK(1)  0     3
JSTK(1)  0     6
CSG(1)   0.    4.500

```

```

ISTK(2)  0     2
JSTK(2)  0     6
CSG(2)   0.    4.000

```

```

IWST(I)  1     1
JWST I)  1     1
CWG(I)   -.001 3.999

```

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**M712V1 RELEASE 9**  REVISED 15 JAN, 1975

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MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RFSRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 7

ORE TABLE NO. (NTORE) = 7
NO. OF BENCHES (NZ) = 26
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NARFA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 301
LAST RECORD NO. (N18) = 326

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.	255150.	315900.	324000.	309825.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	0.	255150.	315900.	324000.	309825.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	0.	0.	0.	0.	0.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	0.	255150.	315900.	324000.	309825.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	6	7	8	9	10
WASTE- .00	299700.	326025.	277425.	267300.	251100.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 299700. 326025. 277425. 267300. 251100.

SFDE T.F.= 1.00

SFDE ABOVE	6	7	8	9	10
ABOVE 5.00	0.	0.	1300.	1300.	16900.
GRADE 1 = PB	0.	0.	1.9000	2.3000	2.3497
GRADE 2 = ZN	0.	0.	4.0000	5.0000	4.5604
GRADE 3 = AG	0.	0.	30.0000	39.0000	37.9941
GRADE 4 = EQUV	0.	0.	5.9000	7.3000	6.9101

SFDE ABOVE	6	7	8	9	10
ABOVE 4.50	0.	0.	1300.	1300.	16900.
GRADE 1 = PB	0.	0.	1.9000	2.3000	2.3497
GRADE 2 = ZN	0.	0.	4.0000	5.0000	4.5604
GRADE 3 = AG	0.	0.	30.0000	39.0000	37.9941
GRADE 4 = EQUV	0.	0.	5.9000	7.3000	6.9101

SFDE ABOVE	6	7	8	9	10
ABOVE 4.00	0.	0.	1300.	1300.	18900.
GRADE 1 = PB	0.	0.	1.9000	2.3000	2.2492
GRADE 2 = ZN	0.	0.	4.0000	5.0000	4.3847
GRADE 3 = AG	0.	0.	30.0000	39.0000	36.5132
GRADE 4 = EQUV	0.	0.	5.9000	7.3000	6.6339

SFDE WASTE-	6	7	8	9	10
WASTE- 4.00	0.	0.	1580.	1580.	11927.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 2880. 2880. 30827.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 299700. 326025. 280305. 270180. 281927.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	11	12	13	14	15
	226800.	234900.	204525.	202500.	206550.

SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.511	2.6175	2.0212	2.7363	2.7188
GRADE 2 = ZN	5.079	4.6616	4.0235	5.6176	4.4774
GRADE 3 = AG	37.780	37.3878	28.7587	39.2582	41.4812
GRADE 4 = EQUV	7.590	7.2791	6.0448	8.3538	7.1962

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.511	2.5668	2.0036	2.4763	2.3131
GRADE 2 = ZN	5.079	4.5371	3.9563	5.0475	3.9136
GRADE 3 = AG	37.780	36.5830	28.5522	35.9958	35.6244
GRADE 4 = EQUV	7.590	7.1039	5.9599	7.5237	6.2267

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.511	2.5096	1.9757	2.4763	2.3131
GRADE 2 = ZN	5.079	4.4158	3.8696	5.0475	3.9136
GRADE 3 = AG	37.780	35.8185	28.1688	35.9958	35.6244
GRADE 4 = EQUV	7.590	6.9254	5.8453	7.5237	6.2267

SFDE WASTE-	11	12	13	14	15
GRADE 1 = PB	.112	.4591	.5026	.7314	.7331
GRADE 2 = ZN	.202	.7285	.8598	1.4065	1.4098
GRADE 3 = AG	2.472	6.9860	7.4074	12.2363	12.2180
GRADE 4 = EQUV	.315	1.1876	1.3624	2.1378	2.1429

SFDE TOTAL TONS	11	12	13	14	15
	42711.	50591.	54409.	37998.	32873.

*UNSPECIFIED TONS	11	12	13	14	15
	0.	0.	0.	0.	0.

**BENCH TOTAL TONS	11	12	13	14	15
	269511.	285491.	258934.	240498.	239423.

0

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	-.00	184275.	184275.	139725.	125550.	95175.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS		184275.	184275.	139725.	125550.	95175.
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SFDE T.F.= 1.00

SFDE ABOVE	5.00	28900.	39700.	81500.	123300.	131800.
GRADE 1 = PB	2.465	2.4652	2.9039	2.8685	3.9957	
GRADE 2 = ZN	4.261	3.8786	4.1694	4.5357	5.1562	
GRADE 3 = AG	39.564	38.0453	44.0613	43.4639	61.9310	
GRADE 4 = EQUV	6.726	6.3438	7.0734	7.4042	9.1519	

SFDE ABOVE	4.50	28900.	39700.	81500.	123300.	158800.
GRADE 1 = PB	2.465	2.4652	2.9039	2.8685	3.6154	
GRADE 2 = ZN	4.261	3.8786	4.1694	4.5357	4.7659	
GRADE 3 = AG	39.564	38.0453	44.0613	43.4639	56.0875	
GRADE 4 = EQUV	6.726	6.3438	7.0734	7.4042	8.3813	

SFDE ABOVE	4.00	28900.	39700.	81500.	123300.	171700.
GRADE 1 = PB	2.465	2.4652	2.9039	2.8685	3.4635	
GRADE 2 = ZN	4.261	3.8786	4.1694	4.5357	4.6103	
GRADE 3 = AG	39.564	38.0453	44.0613	43.4639	53.7356	
GRADE 4 = EQUV	6.726	6.3438	7.0734	7.4042	8.0738	

SFDE WASTE-	4.00	8566.	11057.	17334.	21809.	40075.
GRADE 1 = PB	0.	0.	0.	0.	0.	.6013
GRADE 2 = ZN	0.	0.	0.	0.	0.	.6013
GRADE 3 = AG	0.	0.	0.	0.	0.	8.0849
GRADE 4 = EQUV	0.	0.	0.	0.	0.	1.2026

SFDE TOTAL TONS		37466.	50757.	98834.	145109.	211775.
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*UNSPECIFIED TONS		0.	0.	0.	0.	0.
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**BENCH TOTAL TONS		221741.	235032.	238559.	270659.	306950.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO.	21	22	23	24	25
BENCH TOE ELEVATION	1140.	1131.	1122.	1113.	1104.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	21	22	23	24	25
WASTE- .00	81000.	111375.	107325.	83025.	44550.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 81000. 111375. 107325. 83025. 44550.

SFDE T.F.= 1.00

SFDE ABOVE	21	22	23	24	25
ABOVE 5.00	106900.	181000.	241100.	246900.	454800.
GRADE 1 = PB	2.589	3.0588	2.7545	3.2155	3.5570
GRADE 2 = ZN	4.540	4.9133	4.4703	5.2121	5.7437
GRADE 3 = AG	39.806	45.6403	41.4509	48.6282	56.8865
GRADE 4 = EQUV	7.129	7.9722	7.2248	8.4276	9.3007

SFDE ABOVE	21	22	23	24	25
ABOVE 4.50	120000.	212800.	247100.	277200.	458800.
GRADE 1 = PB	2.506	2.8852	2.7330	3.0852	3.5425
GRADE 2 = ZN	4.363	4.5899	4.4322	4.9418	5.7163
GRADE 3 = AG	38.461	42.9239	41.1323	46.4690	56.6173
GRADE 4 = EQUV	6.870	7.4751	7.1652	8.0270	9.2588

SFDE ABOVE	21	22	23	24	25
ABOVE 4.00	198200.	252600.	259300.	291300.	458800.
GRADE 1 = PB	2.233	2.7042	2.7006	3.0193	3.5425
GRADE 2 = ZN	3.598	4.2452	4.3305	4.8278	5.7163
GRADE 3 = AG	33.750	40.0000	40.4778	45.4717	56.6173
GRADE 4 = EQUV	5.831	6.9494	7.0311	7.8471	9.2588

SFDE WASTE-	21	22	23	24	25
WASTE- 4.00	44287.	68668.	44307.	64739.	62269.
GRADE 1 = PB	.393	.3922	.2148	.4098	.0618
GRADE 2 = ZN	.380	.5751	.2879	.5505	.0650
GRADE 3 = AG	6.767	5.6326	2.9707	5.7241	.8130
GRADE 4 = EQUV	.773	.9673	.5027	.9603	.1268

SFDE TOTAL TONS 242487. 321268. 303607. 356039. 521069.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 323487. 432643. 410932. 439064. 565619.

0

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO. 26
BENCH TOE ELEVATION 1095.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 0.
GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 0.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 221900.
GRADE 1 = PB 3.859
GRADE 2 = ZN 6.390
GRADE 3 = AG 60.499
GRADE 4 = EQUV 10.249

SFDE ABOVE 4.50 221900.
GRADE 1 = PB 3.859
GRADE 2 = ZN 6.390
GRADE 3 = AG 60.499
GRADE 4 = EQUV 10.249

SFDE ABOVE 4.00 229500.
GRADE 1 = PB 3.785
GRADE 2 = ZN 6.257
GRADE 3 = AG 59.224
GRADE 4 = EQUV 10.042

SFDE WASTE- 4.00 35984.
GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

SFDE TOTAL TONS 265484.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 265484.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 7 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 7

BENCH REFERENCE NO. 26
BENCH TOE ELEVATION 1095.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 4857975.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 4857975.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 2003200.

GRADE 1 = PB 3.196
GRADE 2 = ZN 5.146
GRADE 3 = AG 49.333
GRADE 4 = EQUV 8.342

SFDE ABOVE 4.50 2133600.

GRADE 1 = PB 3.115
GRADE 2 = ZN 5.004
GRADE 3 = AG 48.004
GRADE 4 = EQUV 8.119

SFDE ABOVE 4.00 2305100.

GRADE 1 = PB 3.015
GRADE 2 = ZN 4.814
GRADE 3 = AG 46.336
GRADE 4 = EQUV 7.829

SFDE WASTE- 4.00 503962.

GRADE 1 = PB .287
GRADE 2 = ZN .393
GRADE 3 = AG 4.263
GRADE 4 = EQUV .680

SFDE TOTAL TONS 2809062.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 7667037.

0
M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	26	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 13:10:17

PMG015 906080

LST712 08 LIB\$

AT: 10/08/81 15:37:33 JOB: 95590

TT 40-03-034 6043244010 8

COPY: 1 *

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***-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                                     *
***           AT 13:10:21 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.08 OUTPUT:LST712.08 *
***-----*

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**M712V1 RELEASE 9** REVISED 15 JAN, 1975
MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

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** FILE 10: PROJECT CONTROL FILE **

DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	14	10	400	1	400

** IN18 = 1

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

PIT: PHASE 8

ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4

IURE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RFSRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS	=	0	*	18	400	1 58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 8

ORE TABLE NO. (NTORE) = 8
NO. OF BENCHES (NZ) = 28
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NAREA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 351
LAST RECORD NO. (N18) = 378

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.00	0.	441450.	461700.	443475.	423225.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS	0.	441450.	461700.	443475.	423225.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS	0.	0.	0.	0.	0.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	0.	441450.	461700.	443475.	423225.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO. 6 7 8 9 10
 BENCH TOE ELEVATION 1275. 1266. 1257. 1248. 1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 427275. 398925. 390825. 409050. 356400.

GRADE 1 = PB 0. 0. 0. 0. 0.
 GRADE 2 = ZN 0. 0. 0. 0. 0.
 GRADE 3 = AG 0. 0. 0. 0. 0.
 GRADE 4 = EQUV 0. 0. 0. 0. 0.

WSTE TOTAL TONS 427275. 398925. 390825. 409050. 356400.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 0. 0. 0. 0. 4700.
 GRADE 1 = PB 0. 0. 0. 0. 1.9851
 GRADE 2 = ZN 0. 0. 0. 0. 4.1128
 GRADE 3 = AG 0. 0. 0. 0. 32.2766
 GRADE 4 = EQUV 0. 0. 0. 0. 6.0979

SFDE ABOVE 4.50 0. 0. 0. 0. 6700.
 GRADE 1 = PB 0. 0. 0. 0. 1.8701
 GRADE 2 = ZN 0. 0. 0. 0. 3.8104
 GRADE 3 = AG 0. 0. 0. 0. 30.4030
 GRADE 4 = EQUV 0. 0. 0. 0. 5.6806

SFDE ABOVE 4.00 0. 0. 0. 0. 6700.
 GRADE 1 = PB 0. 0. 0. 0. 1.8701
 GRADE 2 = ZN 0. 0. 0. 0. 3.8104
 GRADE 3 = AG 0. 0. 0. 0. 30.4030
 GRADE 4 = EQUV 0. 0. 0. 0. 5.6806

SFDE WASTE- 4.00 0. 0. 0. 2025. 7898.
 GRADE 1 = PB 0. 0. 0. 0. .4103
 GRADE 2 = ZN 0. 0. 0. 0. .4615
 GRADE 3 = AG 0. 0. 0. 0. 5.6410
 GRADE 4 = EQUV 0. 0. 0. 0. .8718

SFDE TOTAL TONS 0. 0. 0. 2025. 14598.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 427275. 398925. 390825. 411075. 370998.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
WASTE-	321975.	311850.	287550.	283500.	245025.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 321975. 311850. 287550. 283500. 245025.

SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
ABOVE 5.00	12800.	4600.	60700.	46400.	46500.
GRADE 1 = PB	1.905	2.5174	2.4292	2.6664	2.3303
GRADE 2 = ZN	3.679	4.3326	3.8021	4.2315	4.1090
GRADE 3 = AG	31.000	37.3261	37.5783	40.1142	35.0430
GRADE 4 = EQUV	5.584	6.8500	6.2313	6.8978	6.4394

SFDE ABOVE	11	12	13	14	15
ABOVE 4.50	12800.	10700.	62000.	47700.	49100.
GRADE 1 = PB	1.905	2.0514	2.4223	2.6373	2.2996
GRADE 2 = ZN	3.679	3.5159	3.7811	4.2061	4.0477
GRADE 3 = AG	31.000	29.7290	37.3774	39.6751	34.6171
GRADE 4 = EQUV	5.584	5.5673	6.2034	6.8434	6.3473

SFDE ABOVE	11	12	13	14	15
ABOVE 4.00	20200.	11400.	62000.	47700.	49100.
GRADE 1 = PB	1.770	2.0175	2.4223	2.6373	2.2996
GRADE 2 = ZN	3.288	3.4658	3.7811	4.2061	4.0477
GRADE 3 = AG	28.040	29.2544	37.3774	39.6751	34.6171
GRADE 4 = EQUV	5.058	5.4833	6.2034	6.8434	6.3473

SFDE WASTE-	11	12	13	14	15
WASTE- 4.00	23632.	32643.	17820.	28573.	42343.
GRADE 1 = PB	.737	.7382	0.	.5670	.4543
GRADE 2 = ZN	1.131	1.1290	0.	1.1481	.8943
GRADE 3 = AG	10.797	10.2357	0.	9.2842	7.3171
GRADE 4 = EQUV	1.868	1.8672	0.	1.7151	1.3486

SFDE TOTAL TONS 43832. 44043. 79820. 76273. 91443.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 365807. 355893. 367370. 359773. 336468.

0

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	4.00	243000.	240975.	210600.	184275.	168075.
GRADE 1 = PB	0.	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.	0.

WSTE TOTAL TONS	243000.	240975.	210600.	184275.	168075.
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SFDE T.F.= 1.00

SFDE ABOVE	5.00	54300.	51700.	41000.	35600.	60000.
GRADE 1 = PB	2.167	2.6155	2.6217	2.8494	2.2563	
GRADE 2 = ZN	4.193	4.5416	3.9395	4.1343	3.5900	
GRADE 3 = AG	33.370	40.0638	37.5756	43.6882	35.1900	
GRADE 4 = EQUV	6.360	7.1571	6.5612	6.9837	5.8463	

SFDE ABOVE	4.50	54300.	51700.	41000.	36500.	75600.
GRADE 1 = PB	2.167	2.6155	2.6217	2.8433	2.1577	
GRADE 2 = ZN	4.193	4.5416	3.9395	4.0866	3.4557	
GRADE 3 = AG	33.370	40.0638	37.5756	43.5479	33.7778	
GRADE 4 = EQUV	6.360	7.1571	6.5612	6.9299	5.6134	

SFDE ABOVE	4.00	54300.	51700.	41000.	41900.	85000.
GRADE 1 = PB	2.167	2.6155	2.6217	2.7234	2.0896	
GRADE 2 = ZN	4.193	4.5416	3.9395	3.8563	3.3768	
GRADE 3 = AG	33.370	40.0638	37.5756	41.4320	32.7906	
GRADE 4 = EQUV	6.360	7.1571	6.5612	6.5797	5.4665	

SFDE WASTE-	4.00	36491.	25232.	36896.	59009.	28350.
GRADE 1 = PB	0.	0.	0.	.2814	.1071	
GRADE 2 = ZN	0.	0.	0.	.4084	.1143	
GRADE 3 = AG	0.	0.	0.	4.1181	1.5000	
GRADE 4 = EQUV	0.	0.	0.	.6898	.2214	

SFDE TOTAL TONS	90791.	76932.	77896.	100909.	113350.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	333791.	317907.	288496.	285184.	281425.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO.	21	22	23	24	25
BENCH TOE ELEVATION	1140.	1131.	1122.	1113.	1104.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	21	22	23	24	25
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 139725. 103275. 93150. 117450. 87075.

SFDE T.F.= 1.00

SFDE ABOVE	21	22	23	24	25
GRADE 1 = PB	2.243	2.8040	2.5264	2.6846	3.1797
GRADE 2 = ZN	3.615	3.6604	4.0462	4.2424	4.8879
GRADE 3 = AG	35.278	41.8854	37.6949	39.6418	50.2722
GRADE 4 = EQUV	5.858	6.4644	6.5727	6.9270	8.0676

SFDE ABOVE	21	22	23	24	25
GRADE 1 = PB	2.179	2.2877	2.3640	2.5342	3.0154
GRADE 2 = ZN	3.489	3.1719	3.7984	4.0063	4.6610
GRADE 3 = AG	34.167	34.8889	35.0794	37.4517	47.5237
GRADE 4 = EQUV	5.668	5.4595	6.1625	6.5405	7.6764

SFDE ABOVE	21	22	23	24	25
GRADE 1 = PB	2.042	2.0577	2.1966	2.4108	2.8681
GRADE 2 = ZN	3.162	2.8339	3.5693	3.7020	4.3790
GRADE 3 = AG	31.171	31.4439	32.7891	35.4167	44.8593
GRADE 4 = EQUV	5.205	4.8917	5.7660	6.1127	7.2471

SFDE WASTE-	21	22	23	24	25
GRADE 1 = PB	.590	.8620	.8797	.6285	.5511
GRADE 2 = ZN	.954	1.3852	1.4260	.8112	.7130
GRADE 3 = AG	8.464	14.1810	12.7469	9.3023	7.4720
GRADE 4 = EQUV	1.543	2.2472	2.3057	1.4396	1.2640

SFDE TOTAL TONS 176173. 211909. 183255. 338543. 367843.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 315898. 315184. 276405. 455993. 454918.

0

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO.	26	27	28
BENCH TOE ELEVATION	1095.	1086.	1077.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.00	54675.	36450.	0.
GRADE 1 = PB	0.	0.	0.	
GRADE 2 = ZN	0.	0.	0.	
GRADE 3 = AG	0.	0.	0.	
GRADE 4 = EQUV	0.	0.	0.	

WSTE TOTAL TONS	54675.	36450.	0.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	294100.	414300.	227000.
GRADE 1 = PB	3.216	3.4384	3.7083
GRADE 2 = ZN	4.954	5.7026	5.7910
GRADE 3 = AG	50.734	53.8991	56.2207
GRADE 4 = EQUV	8.170	9.1410	9.4993

SFDE ABOVE 4.50	316100.	425800.	227000.
GRADE 1 = PB	3.122	3.3999	3.7083
GRADE 2 = ZN	4.799	5.6194	5.7910
GRADE 3 = AG	48.878	53.3175	56.2207
GRADE 4 = EQUV	7.921	9.0193	9.4993

SFDE ABOVE 4.00	320100.	428500.	227000.
GRADE 1 = PB	3.104	3.3892	3.7083
GRADE 2 = ZN	4.769	5.6004	5.7910
GRADE 3 = AG	48.342	53.1013	56.2207
GRADE 4 = EQUV	7.873	8.9896	9.4993

SFDE WASTE- 4.00	52853.	47243.	17982.
GRADE 1 = PB	.084	0.	0.
GRADE 2 = ZN	.165	0.	0.
GRADE 3 = AG	1.686	0.	0.
GRADE 4 = EQUV	.249	0.	0.

SFDE TOTAL TONS	372953.	475743.	244982.
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*UNSPECIFIED TONS	0.	0.	0.
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**BENCH TOTAL TONS	427628.	512193.	244982.
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0

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 8 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 8

BENCH REFERENCE NO. 28
BENCH TOE ELEVATION 1077.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE- -.00 6880950.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 6880950.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1935900.

GRADE 1 = PB 3.035
GRADE 2 = ZN 4.840
GRADE 3 = AG 46.904
GRADE 4 = EQUV 7.875

SFDE ABOVE 4.50 2143500.

GRADE 1 = PB 2.919
GRADE 2 = ZN 4.648
GRADE 3 = AG 45.031
GRADE 4 = EQUV 7.568

SFDE ABOVE 4.00 2374200.

GRADE 1 = PB 2.805
GRADE 2 = ZN 4.432
GRADE 3 = AG 43.106
GRADE 4 = EQUV 7.238

SFDE WASTE- 4.00 809109.

GRADE 1 = PB .440
GRADE 2 = ZN .684
GRADE 3 = AG 6.600
GRADE 4 = EQUV 1.124

SFDE TOTAL TONS 3183309.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 10064259.

0-01
M712V1 RELEASE 9 REVISED 15 JAN, 1975

10

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

<u>DATA FILE PCFM.3U</u>	<u>*</u>	<u>NO.</u>	<u>#IN</u>	<u>#OUT</u>	<u>FUNC</u>
	*	10	3	0	2

<u>DATA FILE RESRVS.G3</u>	<u>*</u>	<u>NO.</u>	<u>#IN</u>	<u>#OUT</u>	<u>FUNC</u>
	*	18	28	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 13:10:40

END OF OUTPUT

PMG015 906080

LST712 09 LIB\$

AT: 10/08/81 15:38:24 JOB: 95668

TT 40-03-034 6043244010 9

COPY: 1 *

```

***-----*-----*
***                                     *
*** M712V1****- STARTED ON 10/08/81 * MEDSYSTEM COPYRIGHT 1978 *
***                               AT 13:10:42 * MINTEC, INC TUCSON, ARIZONA *
*** INPUT:JCL712.09 OUTPUT:LST712.09 *
***-----*-----*

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**M712V1 RELEASE 9** REVISED 15 JAN, 1975
MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

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** FILE 10: PROJECT CONTROL FILE **

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DATA FILE	PCFM.3U	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	14	10	400	1	400

```

** IN18 = 1

```

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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **

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** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

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PIT: PHASE 9

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ILAB(I)	WSTE	SFDE
TFO(I)	1.00	1.00
NCT(I)	1	6
JCT(I)	0	4

IORE(I)	0	4
JORE(I)	0	6
COG(I)	0.	5.000

ISTK(1)	0	3
JSTK(1)	0	6
CSG(1)	0.	4.500

ISTK(2)	0	2
JSTK(2)	0	6
CSG(2)	0.	4.000

IWST(I)	1	1
JWST(I)	1	1
CWG(I)	-.001	3.999

```

**M712V1 RELEASE 9** REVISED 15 JAN, 1975

```

** FILE 18: RESERVE SUMMARY FILE **

DATA FILE	RESRVS.G3	*	NO.	SIZE	RECS	/REC
MAX # BUFFERS =	0	*	18	400	1	58

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **

** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

PIT: PHASE 9

ORE TABLE NO. (NTORE) = 9
NO. OF BENCHES (NZ) = 30
NO. 1ST BENCH (IZ) = 1
NO. OF AREAS (NARFA) = 1
NO. OF TYPES (NTYPE) = 2
NO. OF METALS (NMET) = 4
NO. OF CLASSES (NCLAS) = 7
1ST RECORD NO. (M18) = 401
LAST RECORD NO. (N18) = 430

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	1	2	3	4	5
BENCH TOE ELEVATION	1320.	1311.	1302.	1293.	1284.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	0.	115425.	123525.	139725.	127575.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 0. 115425. 123525. 139725. 127575.

SFDE T.F.= 1.00

SFDE ABOVE 5.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.50	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE ABOVE 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE WASTE- 4.00	0.	0.	0.	0.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

SFDE TOTAL TONS 0. 0. 0. 0. 0.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 0. 115425. 123525. 139725. 127575.

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	6	7	8	9	10
BENCH TOE ELEVATION	1275.	1266.	1257.	1248.	1239.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	6	7	8	9	10
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	121500.	119475.	105300.	105300.	101250.
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SFDE T.F.= 1.00

SFDE ABOVE	6	7	8	9	10
GRADE 1 = PB	0.	0.	0.	0.	2.1000
GRADE 2 = ZN	0.	0.	0.	0.	4.4000
GRADE 3 = AG	0.	0.	0.	0.	34.0000
GRADE 4 = EQUV	0.	0.	0.	0.	6.5000

SFDE ABOVE 4.50	0.	0.	0.	0.	2000.
GRADE 1 = PB	0.	0.	0.	0.	2.1000
GRADE 2 = ZN	0.	0.	0.	0.	4.4000
GRADE 3 = AG	0.	0.	0.	0.	34.0000
GRADE 4 = EQUV	0.	0.	0.	0.	6.5000

SFDE ABOVE 4.00	0.	0.	0.	0.	2000.
GRADE 1 = PB	0.	0.	0.	0.	2.1000
GRADE 2 = ZN	0.	0.	0.	0.	4.4000
GRADE 3 = AG	0.	0.	0.	0.	34.0000
GRADE 4 = EQUV	0.	0.	0.	0.	6.5000

SFDE WASTE-	6	7	8	9	10
GRADE 1 = PB	0.	0.	0.	0.	.3854
GRADE 2 = ZN	0.	0.	0.	0.	.4925
GRADE 3 = AG	0.	0.	0.	0.	5.5675
GRADE 4 = EQUV	0.	0.	0.	0.	.8779

SFDE TOTAL TONS	0.	0.	0.	6075.	11457.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	121500.	119475.	105300.	111375.	112707.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	11	12	13	14	15
BENCH TOE ELEVATION	1230.	1221.	1212.	1203.	1194.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	11	12	13	14	15
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	103275.	93150.	89100.	78975.	76950.
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SFDE T.F.= 1.00

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.300	2.2025	2.4241	2.8593	2.0000
GRADE 2 = ZN	4.700	3.8862	4.1163	4.2993	3.3743
GRADE 3 = AG	38.000	32.5375	35.5745	43.0370	29.1386
GRADE 4 = EQUV	7.000	6.0887	6.5404	7.1585	5.3743

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.300	2.2025	2.4241	2.8593	1.9247
GRADE 2 = ZN	4.700	3.8862	4.1163	4.2993	3.1580
GRADE 3 = AG	38.000	32.5375	35.5745	43.0370	28.3333
GRADE 4 = EQUV	7.000	6.0887	6.5404	7.1585	5.0827

SFDE ABOVE	11	12	13	14	15
GRADE 1 = PB	2.300	2.2025	2.4241	2.8593	1.9247
GRADE 2 = ZN	4.700	3.8862	4.1163	4.2993	3.1580
GRADE 3 = AG	38.000	32.5375	35.5745	43.0370	28.3333
GRADE 4 = EQUV	7.000	6.0887	6.5404	7.1585	5.0827

SFDE WASTE-	11	12	13	14	15
GRADE 1 = PB	.800	0.	0.	0.	0.
GRADE 2 = ZN	.900	0.	0.	0.	0.
GRADE 3 = AG	11.000	0.	0.	0.	0.
GRADE 4 = EQUV	1.700	0.	0.	0.	0.

SFDE TOTAL TONS	10150.	13407.	17482.	15059.	18914.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	113425.	106557.	106582.	94034.	95864.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	16	17	18	19	20
BENCH TOE ELEVATION	1185.	1176.	1167.	1158.	1149.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	16	17	18	19	20
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	93150.	64800.	64800.	76950.	38475.
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SFDE T.F.= 1.00

SFDE ABOVE	16	17	18	19	20
GRADE 1 = PB	2.077	2.9321	2.0092	0.	2.0000
GRADE 2 = ZN	4.047	4.8642	3.5620	0.	3.2277
GRADE 3 = AG	32.174	44.4815	30.0915	0.	30.2766
GRADE 4 = EQUV	6.123	7.7963	5.5711	0.	5.2277

SFDE ABOVE	16	17	18	19	20
GRADE 1 = PB	2.077	2.9321	2.0092	0.	1.9611
GRADE 2 = ZN	4.047	4.8642	3.5620	0.	3.1981
GRADE 3 = AG	32.174	44.4815	30.0915	0.	29.8519
GRADE 4 = EQUV	6.123	7.7963	5.5711	0.	5.1593

SFDE ABOVE	16	17	18	19	20
GRADE 1 = PB	2.077	2.9321	2.0092	0.	1.9611
GRADE 2 = ZN	4.047	4.8642	3.5620	0.	3.1981
GRADE 3 = AG	32.174	44.4815	30.0915	0.	29.8519
GRADE 4 = EQUV	6.123	7.7963	5.5711	0.	5.1593

SFDE WASTE-	16	17	18	19	20
GRADE 1 = PB	0.	0.	0.	.6000	.9721
GRADE 2 = ZN	0.	0.	0.	.8200	1.0171
GRADE 3 = AG	0.	0.	0.	8.4000	13.5914
GRADE 4 = EQUV	0.	0.	0.	1.4200	1.9892

SFDE TOTAL TONS	13768.	13487.	21612.	10125.	27898.
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*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	106918.	78287.	86412.	87075.	66373.
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** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	21	22	23	24	25
BENCH TOE ELEVATION	1140.	1131.	1122.	1113.	1104.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	58725.	40500.	38475.	46575.	24300.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS 58725. 40500. 38475. 46575. 24300.

SFDE T.F.= 1.00

SFDE ABOVE	7400.	900.	17300.	65800.	86600.
GRADE 1 = PB	2.062	4.4000	2.5254	2.9690	2.7955
GRADE 2 = ZN	3.470	8.4000	4.1775	4.9600	4.6375
GRADE 3 = AG	33.622	68.0000	39.0289	47.3845	42.9573
GRADE 4 = EQUV	5.532	12.8000	6.7029	7.9290	7.4330

SFDE ABOVE	12800.	900.	17300.	65800.	98800.
GRADE 1 = PB	1.952	4.4000	2.5254	2.9690	2.6787
GRADE 2 = ZN	3.314	8.4000	4.1775	4.9600	4.4168
GRADE 3 = AG	32.938	68.0000	39.0289	47.3845	40.9251
GRADE 4 = EQUV	5.266	12.8000	6.7029	7.9290	7.0955

SFDE ABOVE	12800.	14900.	23400.	66500.	111000.
GRADE 1 = PB	1.952	2.0275	2.3103	2.9535	2.5986
GRADE 2 = ZN	3.314	2.7450	3.7923	4.9341	4.1896
GRADE 3 = AG	32.938	33.7987	35.1111	47.1278	39.1748
GRADE 4 = EQUV	5.266	4.7725	6.1026	7.8877	6.7883

SFDE WASTE-	15977.	18245.	14621.	8768.	19562.
GRADE 1 = PB	1.128	.1776	.6648	.4388	.7764
GRADE 2 = ZN	1.191	.2442	1.0111	.7390	.9420
GRADE 3 = AG	15.589	2.6637	9.2798	7.1594	10.5590
GRADE 4 = EQUV	2.319	.4218	1.6759	1.1778	1.7184

SFDE TOTAL TONS 28777. 33145. 38021. 75268. 130562.

*UNSPECIFIED TONS 0. 0. 0. 0. 0.

**BENCH TOTAL TONS 87502. 73645. 76496. 121843. 154862.

0

10

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
 ** CYPRUS ANVIL MINING CORPORATION **
 ** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO.	26	27	28	29	30
BENCH TOE ELEVATION	1095.	1086.	1077.	1068.	1059.

AREA 1: GRUM

WSTE T.F.= 1.00

WSTE WASTE-	40500.	36450.	34425.	16200.	0.
GRADE 1 = PB	0.	0.	0.	0.	0.
GRADE 2 = ZN	0.	0.	0.	0.	0.
GRADE 3 = AG	0.	0.	0.	0.	0.
GRADE 4 = EQUV	0.	0.	0.	0.	0.

WSTE TOTAL TONS	40500.	36450.	34425.	16200.	0.
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SFDE T.F.= 1.00

SFDE ABOVE 5.00	155000.	176900.	139000.	282500.	129200.
GRADE 1 = PB	3.140	3.2447	3.1635	3.0581	3.7437
GRADE 2 = ZN	4.793	5.2029	5.0982	5.0067	5.8346
GRADE 3 = AG	47.614	51.1735	49.1698	52.2648	59.1146
GRADE 4 = EQUV	7.933	8.4475	8.2617	8.0648	9.5783

SFDE ABOVE 4.50	165700.	189100.	146400.	287000.	129200.
GRADE 1 = PB	3.061	3.1579	3.0913	3.0415	3.7437
GRADE 2 = ZN	4.666	5.0446	4.9829	4.9706	5.8346
GRADE 3 = AG	46.243	49.9043	48.2753	51.9000	59.1146
GRADE 4 = EQUV	7.727	8.2025	8.0742	8.0121	9.5783

SFDE ABOVE 4.00	181900.	194500.	149100.	287000.	129200.
GRADE 1 = PB	2.938	3.1154	3.0647	3.0415	3.7437
GRADE 2 = ZN	4.476	4.9719	4.9376	4.9706	5.8346
GRADE 3 = AG	44.071	49.1717	47.8860	51.9000	59.1146
GRADE 4 = EQUV	7.414	8.0873	8.0023	8.0121	9.5783

SFDE WASTE- 4.00	56093.	49066.	35093.	19784.	7189.
GRADE 1 = PB	.278	.2765	.3405	0.	0.
GRADE 2 = ZN	.343	.3426	.4385	0.	0.
GRADE 3 = AG	3.610	3.9620	5.2510	0.	0.
GRADE 4 = EQUV	.621	.6191	.7790	0.	0.

SFDE TOTAL TONS	237993.	243566.	184193.	306784.	136389.
-------------------	---------	---------	---------	---------	---------

*UNSPECIFIED TONS	0.	0.	0.	0.	0.
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**BENCH TOTAL TONS	278493.	280016.	218618.	322984.	136389.
--------------------	---------	---------	---------	---------	---------

** GRUM MINTERIM MODEL, SUMMARY OF PHASE 9 RESERVES OCT. 1981 **
** CYPRUS ANVIL MINING CORPORATION **
** GRUM DEPOSIT **

SUMMARY OF RESERVES FOR PHASE 9

BENCH REFERENCE NO. 30
BENCH TOE ELEVATION 1059.

WSTE T.F.= 1.00

WSTE WASTE- 4.00 2174850.

GRADE 1 = PB 0.
GRADE 2 = ZN 0.
GRADE 3 = AG 0.
GRADE 4 = EQUV 0.

WSTE TOTAL TONS 2174850.

SFDE T.F.= 1.00

SFDE ABOVE 5.00 1152900.

GRADE 1 = PB 3.090
GRADE 2 = ZN 4.982
GRADE 3 = AG 49.206
GRADE 4 = EQUV 8.072

SFDE ABOVE 4.50 1212100.

GRADE 1 = PB 3.030
GRADE 2 = ZN 4.877
GRADE 3 = AG 48.213
GRADE 4 = EQUV 7.907

SFDE ABOVE 4.00 1269400.

GRADE 1 = PB 2.973
GRADE 2 = ZN 4.768
GRADE 3 = AG 47.190
GRADE 4 = EQUV 7.742

SFDE WASTE- 4.00 324729.

GRADE 1 = PB .388
GRADE 2 = ZN .475
GRADE 3 = AG 5.456
GRADE 4 = EQUV .862

SFDE TOTAL TONS 1594129.

*UNSPECIFIED TONS 0.

**BENCH TOTAL TONS 3768979.

0
M712V1 RELEASE 9 REVISED 15 JAN, 1975

MEDS PROPRIETARY SOFTWARE: MINTEC INC., TUCSON, AZ.

** FILE 10: PROJECT CONTROL FILE **

NORMAL RUN TERMINATION M712V1 VERSION 1.

DATA FILE PCFM.3U	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	10	3	0	2

DATA FILE RESRVS.G3	*	NO.	#IN	#OUT	FUNC
-----	*	---	---	---	---
	*	18	30	0	2

*** M712V1*** FINISHED ON 10/08/81 AT 13:10:57

GRUM
EXHIBIT #11

Cyprus Anvil Mining Corporation

Interoffice Correspondence

To J.F. Oik

Copy to G. Davis
R. Irani
D. Jennings
J. Purkis
G. Simpson
R. Tolbert

From P.I. Clarke

Date November 17, 1981

Subject

GRUM INTERIM COMPUTER MODEL

An interim model for the Grum now exists that superceeds the wholly Kerr-Addison / Noranda model previously used.

This interim model basically consists of the following:

1. Original Kerr-Addison surface and underground DDH surveys and Pb, Zn, Ag assays, checked and corrected where necessary.
2. Cyprus Anvil 1980 DDH's (the geological interpretation used in the model is not updated with these. Assays are used to improve grade estimation).
3. DDH composites compiled in similar manner to Faro and Vangorda models. (Not exactly the same as S.G. values for individual samples are not available with Kerr-Addison data.)
4. Kerr-Addison geological interpretation unchanged.

So essentially there are some extra DDH's to help with the grade estimation, the DDH composites have been put together in a similar manner to other models, and this data has been used to interpolate grades into the original Kerr-Addison geological interpretation of the Grum deposit.

Specific gravities for massive sulphides and quartz sulphides (the two sulphide types distinguished in the geology of the model) have been left unchanged from the Kerr-Addison estimates which are 4.0 and 3.0 respectively.

GEOLOGICAL RESERVE ESTIMATE

Cut-Off = 4.0% Pb + Zn Undiluted Grades

	K.A./Noranda Model	C.A. Interim Model	% Change
Ore (000's MT)	27,650	30,781	+11
% Pb	3.1	3.1	0
% Zn	4.9	4.9	0
Ag G/MT	48	49	+2

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CYPRUS ANVIL

ULTIMATE PIT RESERVE ESTIMATECut-Off = 4.0% Pb + Zn Diluted Grades -6%(Pit Design is Dec. 1979 C.A. version)

	K.A./Noranda Model	C.A. Interim Model	% Change
Waste (000's M ³)	46,081	45,688*	-1
Ore (000's MT)	15,583	16,875	+8
% Pb	3.1	3.0	-3
% Zn	5.0	4.9	-2
Ag g/MT	47	47	0

* See notes

At this point in time more work needs to be done on the pit design. The waste volume indicated is underestimated because overburden in the Doal Lake area has not been fully taken into account.

The pit design is a relatively rough version compared to a final design. It is adequate from an initial feasibility and development point of view. However, as figures from the design come to be used for more detailed studies it is necessary to improve the quality of the design.

Depending on what decisions have to be made by the company and when, it may be worthwhile re-designing a pit around the interim model rather than waiting for the full CAMC model to be completed.



PIC/mw

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