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Surveyers
2NS 552 Ariz

Anderson Mine Dec 13 — Dec 22

Dec 13 Coring 337-C (Russ) Drilling 390 (Jim) (TD 330, PD 310)

Dec 14 Coring 337-C (Russ) (445, TD, PD) Drilling 391 (Jim) (TD 320, PD 295)

Probe truck Down Used Centery for 3 open Holes

Jan 3 Mon Russel on 365 Probe Truck not til Night Russel Quit for Day. Jim Cleaned hole 434-C out & Cored first 15 feet. Picked up Jeff at airport Phoenix

Jan 4 Tue Russel finish 365 and 381. Jim finished 434-C and started drilling Pilot hole for 431-C. Tried to get Steve Roberts. Couldn't cancell Wire line Rig.

Jan 5 Checked Weather Station. Jim finished 431-C Pilot. Core interval 545-600, Drilling to Core Point. Russel Completed 383 and began drilling 366

Jan 6 Jim down with bad Water Pump. Russel Drilled 366 (Very Thick Lake Bed w/ 55' faulting?) and began Pilot for 444-C. Environmentalists came by and I gave them a grand Tour.

Jan 7. Chris Clark Kevin Magee came by and I gave him a grand Tour. Jim on 431-C. Russel on 444-C (135' core).

Jan 8 Russel on 444-C Jim on 431-C

Jan 9 Russel on 444-C, Jim on 431-C. (Second Hole)

Jan 10 Russel on 444-C. Jim Finished 431-C and drilled Pilot and to Core Point on 436-C. Talked with Steve Roberts He wants to Pull Russel + Replace him. Wire line Rig to Be here on Tue

$$30\overline{)126}\ \ 4.2$$
$$\begin{array}{r} 126 \\ 120 \\ \hline 60 \end{array}$$

Jan 11 Russel on 444-C. Jim Coring 436-C (30'). Allen Gass of Golder Associates stop by to Look at area Geology.

Am 440 - 560	Am 340 - 360
Am 322 - 140	Am 369 - 540
Am 316 - 140	Am 336 - 260
Am 307 - 80	Am 341 - 500
Am 308 - 120	Am 370 - 420
Am 325 - 285	Am 430 - 700
Am 439 - 660	Am 367 - 460
Am 438 - 680	Am 352 - 485
Am 437 - 660	Am 426 - 700
Am 332 - 320	Am 368 - 500
Am 342 - 385	Am 428 - 740
Am 348 - 390	Am 347 - 435
Am 382 - 560	Am 335 - 320
Am 321 - 220	
Am 447 - 620	35 14690
Am 323 - 220	734.5 pen Day Pen Rig
Am 317 - 200	1469 Pen day
Am 326 - 225	Avg Hole Depth 420
Am 333 - 265	
Am 339 - 380	
Am 448 - 720	
Am 346 - 440	

Bureau

Mon Jan 17 James Funlow of Dames & Moore and Ben Signiller of Signiller, Associates met at Gold Nugget and came out to look area Geology over. Gave them tours and the Report to look over. Russel Completed AM 440 and began 439. Jim Salton Cone hole Completed last session til probe arrived. Jim Completed AM 322 and ~~began~~ AM 316 and 307.

~~Mon~~ Tue Jan 18 Russel Finished AM439 and Began 438 and Broke Down. Jim Drilled AM308 and AM 325 and Broke Down (Rear end). Had Bob Probe AM 268.

Wed Jan 19 Russel Completed AM 438, and Began AM431 Jim Drilled AM 332 and AM 342

Thur Jan 20 Russel Completed AM437 and [redacted] 382 Jim got Rear End fixed and Drilled 348. Probed the Real AM 265. Jim Drilled AM 321

Fri Jan 21 Russel Drilled AM447 and Began AM 448 Jim drilled AM 317, AM323, AM326

Sat Jan 22 Russel Drilled Am 448 + Began AM369. Jim Drilled AM 339 and AM 346 and Began AM 340 Big Wig Day

Sun Jan 23 Jim finished AM 340, AM 336 and AM 341 Russel finished AM 369 and Began AM 430

Mon Jan 24 Jim finished AM 370 and AM 367 Donald G. Metzger of Sergent, Hauskins + Beckwith Called For a Visit Tomorrow Also Herb Jacobsen Russel finished AM430 and began AM 426.

~~Mon~~ Tue Jan 25 Jim Drilled AM352 and AM 368 Russel Drilled AM426 and 6

Wed Jan 26 Russel Drilled AM428 and AM 335 Jim Drilled AM 347 and [redacted] Began AM 353 Herb Jacobsen of Douglas Office Was here to Look around

Wes Pierce of Ariz Bureau of Mines U of A Campus Tucson stopped by Donald Metzger, Sergent Hauo and Beckwith Came out.

AM 353 - 540
AM 429 - 725
AM 361 - 800
AM 362 - 840
AM 357 - 740
AM 345 - 575
AM 360 - 760
AM 358 - 700
AM 359 - 680
AM 349 - 620
AM 356 - 760

7140 Total

John Jung 18 19
Cut.
25 or 22

23

Session Jan 31 - Feb 9 1977

Mon Jan 31 Jim Completed AM353 and Began Am 429. Graeme Major + Don Koeler of Dames + Moore arrived. Clark Henschi and wire line Rig arrived. Talked with Steve Roberts and he said I'd have a rig no later than Friday.

Tue Feb 1 Jim completed AM429 and began AM361. Wire line Rig Set up

Wed Feb 2 Called Jim Willams OK for Feb 28 200 Mobility Jim completed AM361 and began AM362. Steve Roberts has another Rig for Thur.

Thur Feb 3 Jim Drilled AM362 and began AM357 other Rig arrived + will begin Drilling tomorrow. Wireline at 90 (Approx).

Fri Feb 4 Checked Weather Tower. Jim finished AM357 and began AM 360 . Mark? Church began AM345.

Sat Feb 5 Jim Twisted off in AM360 + Recovered Pipe at end of day. Mark on AM345

Sun Feb 6 Mark finish AM345. ~~[illegible]~~ Jim finished AM360 and began AM 358. Changed Weather Tower Tape + Bats

Mon Feb 7 Mark began AM349. Jim finished AM358 and began AM359

Tue Feb 8 Jim finished Am 359 and AM356. ~~[illegible]~~ Mark finished AM 349.

Wed Feb 9.

1489
3100 = 516 per Day
2385 = 340 Per Day
every other Day

	Mon	Mon 3-17-77	Tue 3-7-77
422-C	263	265.5	264
427-C	272	271.5	272
167	313	309.0	311
437	123	122	123

BB AM 422-C-702
J Am 355-720
M Am 338-435
M Am 372-520
J Am 364-820
M Am 380-485
BB Am 427-C-787
J Am 363-780
M Am 384-560
J Am 486-780
M Am 398-385
J Am 354-680
M Am 385-490
J Am 449-640
J Am 450-640
~~J Am 377-580~~
9420

BB 1489
M 2875 319 per Day
J 5060 506 per Day
10004
100
7935 per Day
397 per Day Per Rig

AB 3141
Colorado
Jim? Best
National

Session 2-14-77 to 2-23-77

Mon Feb 14 Jim drilled AM 355 and began AM 364.
Mark drilled AM 338 and Began AM 372.
Jim Broke Down. Dayral began new road
into River. Wire line at 260 on AM 427-C.

Tue Feb 15. Jim Remains broke down. Mark Completed
AM 372 and began AM 380. New water well
location on state land; stopped Dayral! Gave Don
Kohlen Copy of Probe log for AM422C.

Wed Feb 16 Jim Continued ~~completed~~ AM 364 and ~~began AM 3~~ broke down again.
Mark on AM 380. Wire line at 510. Dayral
back putting road into NE ¼ Sec 3.

Thur Feb 17 Mark Completed AM 380. Jim had AM 364
Cave in. Probed AM 364 to 630; Need More. Dennis Nuclear of Anaconda

Fri Feb 18 Jim Completed AM 363 and AM 364
Wire line Rig Completed AM 427-C at 787 feet.
Mark ~~Co~~ Completed AM 384

Sat Feb 19 Jim Completed AM 486. Mark ~~Completed~~ began AM 398.

Sun Feb 20 Mark Completed AM 398 and Began AM 385.
Jim Completed AM 354.

Mon Feb 21, Jim Completed AM 449. Mark Completed AM 385

Tue Feb 22. Jim Completed AM 450. Mark drilling AM 441

Wed Feb 23 Jim Twisted off on AM 377 Mark quit on AM 441

Jim 5460 = 41% of footage
11 holes = 546 per Day Avg Dpth 496
Mark 3680 = 28% of Footage, 7 holes = 368 per Day, Avg Dpth 525
Fred 4085 = 31% of Footage, 18 hole = 408 per Day, Avg Depth 227

JAM 377-580
MAM 441-560
JAM 386-560
F AM 488-300
F AM 488A-100 400
F AM 489-165
F AM 489A-75 240
F AM 490-200
J AM 376 480
M AM 442-560
F AM 491-160
F AM 492-360
J AM 413-440
J AM 374-440
F AM 496-170
J AM 373-420
M AM 379-540
J AM 371-480
F AM 495-255
F AM 334-330
J AM 375-440
M AM 378-515
F AM 402-285
F AM 395-110
F AM 394-105
F AM 493-280 495
493A 100
F AM 494-80

J AM 387-620
F AM 392-255
M AM 415-605
F AM 393-240
F AM 411-135
J AM 388-540
F AM 397-200
J AM 404-460
M AM 406-500
F AM 399-280
M AM 407-400

11385

13225
1322 per Day
440 per Day per Rig

		Ken Hrs
Feb	14	10
	15	10
	16	10
	17	10
	18	10
	19	10
	21	10
	22	10
	23	10
	28	10
March	1	10
	2	10
	3	10
	4	10
	5	10

7	10
8	10
9	10

Mon Feb 28 Fred on Validation Hole. Jim Completed AM377. Mark finishing AM441. Jim Completed AM 386. Jim Williams set up on Water well 1. Broke Down

Tue March 1 Jim Twisted off and finally completed AM 386. Mark Completed AM 441. Jim Williams here by 12 AM. Fred on AM 488 Drilled 300 ft + moved 5 feet to drill 100 more feet → AM488A 400' at 2.50 = $1000. Fred Also drilled AM 489 165' and AM 489A 75'

Wed March 2 Jim Completed AM 376 and began AM 413. Mark Completed AM 442. Fred Completed AM 490 (200'), and AM 492 (360').

Thur March 3 Jim Completed AM413 and AM 374 Mark Completed AM 378. Fred Completed AM 491 (160') 493 (280') and 494 (80').

Fri March 4 Fred Completed AM 496 (7hr) Jim Completed AM 373. Mark began AM 379

Sat March 5 Jim Completed AM 371. Mark Completed AM 379. Fred Completed AM 495 (8hr). Had UCLA Field Trip with Don Carlile and Steve Mitchel + Mary Mcmel of Bendix Visit.

Sun March 6 Fred Completed AM 334. Jim Completed AM 375. Fred also Completed AM 402, AM 394 and AM 395.

Mon March 7 Jim Completed AM 387. Mark Completed AM 415. Fred Completed AM 392, AM 393 and AM 411. Jim Completed AM 388

Tue March 8 Fred Completed AM 397, AM 399 Mark Completed AM 406. Jim

Wed March 9 Mark Completed AM 407. Fred Broke Down. Jim

Sumary

5460
610
6070

24

J Am 418 - 610
M Am 414 - 455
F Am 443 - 520
J Am 403 - 460
F Am 487 - 505
J Am 424 - 600
F Am 410 - 105
F Am 409 - 190
F Am 400 - 285
F Am 408 - 150
J Am 419 - 640
F Am 396 - 165
J Am 424 - 705
F Am 485 - 255
F Am 479 - 375
F Am 480 - 165
F Am 481 - 210
J Am 420 - 685
F Am 482 - 105
F Am 475 - 120
J Am 423 - 660
F Am 484 - 145
F Am 477 - 210
F Am 474 - 75
F Am 483 - 135
F Am 476 - 180
J Am 421 - 700

F AM 472 - 80
F AM 473 - 120
F AM 471 - 210
F AM 470 - 225
32 J AM 405 - 500
F AM 467 - 225
J AM 401 - 300
F AM 468 - 390
J AM 416 - 620
F AM 466 - 315
F AM 464 - 480

38 holes
12875 feet
(11) Jim 6480 648 per day
(1) Mark 455 455 per day
(26) Fred 5940 594

Avg hole Dpth 339 ft
1288 per day
64 per day Per Rig

335 Avg Hole Depth
31 holes left

March 14	10
15	10
16	10
17	10
18	10
19	10
21	5
22	10
23	10
24	3

Session 3-14-77 → 3-23-77

Mon March 14 Jim Completed AM 418 and AM 403. Dayral Not Here. Sick
Mark Completed AM 414 and is leaving the Job. Fred Completed AM 443
Tue March 15. Bill Roberts Sohio oil stopped by about water. Bill P
of Geomet stopped by to Borrow prober. Dayral Back, Mark + Rig
left. Jim Completed AM 424. Fred Completed AM 487 and AM 410
Wed March 16 Fred completed AM 409, AM 400 and AM 408
Jim Completed AM 419.
Thur March 17 Fred Completed AM 396 and AM 485. Jim Completed AM 424
Fri March 18 Fred Completed AM 481, AM 479, and AM 480. Jim
on AM 420. John Ljung Came to Visit north Area + Granite.
Sat March 19 Jim Completed AM 420. Dayral not here
Fred Completed AM 482, AM 475, AM 477 and AM 474
Sun March 20 Jim completed AM 423 and began AM 421.
Fred Completed AM 484, AM 483 and 476
Mon March 21 Probe K-Factor for 61-2 = 2.05×10^{-5}. Jim Completed
AM 421 and AM 405. Fred Completed AM 472, AM 473
AM 471 and AM 470
Tue March 22 Fred Completed AM 467 and AM 468
Jim Completed AM 401
Wed March 23 Fred Completed AM 466 and 464 (Not Probed)
Jim completed AM 416 and began AM 417.

F Am 469 – 345
J Am 417 – 660
D+F Am 503 – 815
F Am 463 – 300
J Am 451 – 660
F Am 462 – 255
F Am 497 – 170
F Am 502 – 515
D+F Am 504 – 1040
J Am 453 – 740
F Am 499 – 285
J Am 433 – 560
D+F Am 505 – 800
J Am 432 – 540
D+F Am 500 – 740
D+F Am 501 – 660
D+F Am 461 800
F Am 498 – 525
D+F Am 460 – 860
D+F Am 459 – 820
J Am 446 – 780
J Am 478 – 780
D+F Am 458 – 760
D+F Am 445 – 780

Darwin 8075 808 per day \ Avg hole depth 807 Per hole
Jim 4720 590 470 Avg Hole Depth 674
Fred 2395 342 240 Avg Hole Depth 342

Total 15190
506 per rig/per day

24 Holes
Avg Hole Depth 633
1519 feet per Day

Session 3-28-77 → 4- -77

Mon March 28 Darwin + Frank on AM503. They will work 2 8hr shifts per Day. Fred (Bill) drilled AM469 and Washed out AM464 Jim Drilled AM417. Kool-TV here filming

Tue March 29, Darwin Completed AM503, Jim Completed AM 451. Fred Completed AM463 and AM462

Wed March 30, Fred Completed AM497 and AM 502. Jim Completed AM453. Darwin + Frank Completed AM504. USGS Dave Doing Hydrogen Study

Thur March 31 Fred Completed AM499. Jim Completed AM 433. Darwin + Frank completed AM505. Phil Carter of Exxon came by to see about getting water from us.

Fri April 1 Jack Oliver Rancher in area Got Water Load. Ariz Licence Plate 2FY 975. Jim Completed AM432. Darwin + Frank Completed AM500. Freddy Broke Down on AM478 Jim stuck in Hole

Sat April 2 Fred Broke down still. Jim still stuck in hole. Darwin + Frank Completed AM501 and 461. Talk with Lothar

Sun April 3 Jim still stuck. got out at 2:30. Fred Running again. Unable to Completed AM498 Drilled to 525. Darwin Completed AM460. Fred Blew Rods in Rig.

Mon April 4. Called Vasa will come pick up trailer. Talked with Dave Hangsler + Phil Carter Jim Completed AM446. Darwin + Frank Completed AM459. Fred pulling his engine + took it to town.

Tue April 5 Jim Completed AM478. Darwin + Frank Completed AM458.

Wed April 6 Jim Broke Down. Fred putting new engine in truck. Darwin Completed AM445

J Am454 620
J Am452 - 620
F Am465 - 570
F Am455 - 645
J Am456 - 620
F Am515 - 80
F Am244 - 80
F Am279 - 60
F AM280 - 45
F AM 281 - 45
F Am 285 - 20
F Am 304 - Washed out
J Am 457 - 640?
J Am 514 - 700?
J Am 513 - 700?
F Am 512 700?
F Am 511 660?
J Am510 680?
J Am509 - 720
D Am508? 1540?
J Am498 - 80?

Frank Peterson
Sundance Copper Property
Silver Possible
MN

Monday April 11 Fred Running Again. Jim Completed AM 454.
Tue April 12 ~~Fred~~ Completed AM 465. Jim Completed AM 452
Wed April 13. Fred Completed AM 455, Jim Completed AM 456
Thur April 14. Fred Completed AM 515 and deepened
AM 244, AM 279
Jim Completed AM 457
Darwin on AM water well

Not Numbered between 356 + 358
" " " 432 363
234 Found is it Drilled

2 → 225

2 - 220 one should be 219

Vans Mobile Homes Phenix
12M HBX 11000 BTU 77°° out Put
Thermacuple Duo-Therm
275-4403

3
30 434-c
27 } 431-c
55
15 } 436C
15
15 } 444C
100
20
45 } 435-c
20

342

4 380 436
280 436C
545 434C
740 431
618 431C
200 435
185 435C
600 444
575 444-c
620 365
700 366
586 381
620 383
6563 ft

5 core
4 open holes

MINERALS EXPLORATION COMPANY
P.O. BOX 2674, PRONGHORN DR.
CASPER, WYOMING 82601
(307) 234-7331

HEAD OFFICE:
UNION OIL CENTER
LOS ANGELES, CALIF. 90017

December 10, 1976

Mr. Steve Roberts
Universal Drilling & Supply Co.
P. O. Box 593
Yarnell, Arizona 85362

Dear Mr. Roberts:

The following will verify the changes in the existing drilling contract that we discussed on the 8th of this month.

Minerals Exploration Company will allow a maximum of $500 for mobilization of a wire-line rig to drill two geophysical core holes. If a rotary rig is employed, the hourly rate will be increased to $125 per hour for the geophysical holes (2) only.

Any holes that are drilled into the basement volcanics will be paid at an hourly rate of $125 for only the time actually in the volcanics. All drilling above that point will be paid on the footage rates as specified in the original contract.

As per our discussion the following points must be emphasized:

1) Three rigs will be utilized at all times. Water well drilling, claim validation and geotechnical hole work will count as the third rig. The two drillers that are now on the property will remain as long as they are under contract to you.

2) The last working session before Xmas will be spent entirely on the coring program with the completion of such to coincide with the last working day of that session or before.

3) No changes will be made in the existing contract, except as listed above. Any additional changes could only result from rebidding the entire job by all interested parties.

Sincerely,

Gerald C. Dohm, Jr.
Development Manager

GCDjr:ct
cc: Chris Hill
Frank Buchella

Revised January 1976

Minerals Exploration Company
P. O. Box 54945
Los Angeles, California 90054

BID SHEET AND DRILLING ORDER

Gentlemen:

In accordance with the provisions of that certain Master Drilling Contract dated September 15, 19 75, heretofore executed by you bearing Operator's No. 74-3, and the further provisions hereof, we solicit your bid for drilling and other exploratory operations hereinafter set forth.

This Bid Sheet and Drilling Order has been filled in by us to the extent necessary to permit you to determine the nature and extent of the drilling and/or other exploration work to be performed and to so formulate your bid. If you desire to submit a bid, it will be necessary that you complete this bid sheet. All blanks must be filled in with appropriate information (your attention especially being directed to paragraphs 4 and 5). The completed bid must be properly executed by you and submitted in duplicate originals to our office at Box 2674, Casper, Wyoming 82602, no later than 5:00 p.m., October 15, 19 76. If your bid is accepted by us, we will return one executed original to you. The bid may be for all or part of the job. Three rigs are anticipated.
If your bid as submitted is accepted by us, this instrument becomes the Drilling Order and it, together with the Master Drilling Contract identified above, shall constitute the complete agreement between us covering the work described in this Drilling Order.

Very truly yours,

1. COMMENCEMENT DATE

Contractor agrees to commence actual operations on or before 11 a.m., November 1*, 19 76, at the location described below, or in the event Operator is to provide roadways or other means of physical access, or is to provide legal right of ingress and egress, Contractor agrees to commence such operations within 2 days after such physical access or right of ingress and egress is provided by Operator.

* Actual date may vary slightly

2. LOCATION

In and around Township 11 North, Range 10 West

County Yavapai State Arizona

Contractor warrants and represents that it is familiar with the area in which the work hereunder is to be performed and has examined same prior to executing this Bid and Drilling Order.

3. DRILLING AND/OR OTHER EXPLORATORY OPERATIONS

a. Drilling (or deepening)

(1) No. of Holes 290

(2) Maximum Depth 7-800'

(3) Average Depth 400'

(4) Permitted Deviation of hole from vertical 5%

(5) Diameter of Hole 4 3/4"

(6) Operator shall note the location of each hole on a plat to be timely furnished to Contractor.

(7) Operator's representative shall specify the exact depth of each hole in sufficient time so as not to interfere with operations of Contractor.

Further Specifications:

The terrain is fairly rugged requiring water trucks to be either single or twin screw tandems. A backhoe is not required. A hammer tool is required for approximately 15-20% of the drilling.

Contractor will keep each hole drilled hereunder open for probing by Operator for at least three (3) consecutive hours after the drilling

rig is moved from the hole. If the hole does not remain open for probing for three (3) consecutive hours, the hole will be cleaned out by Contractor at no cost to Operator. If Contractor should encounter adverse ground conditions which might prevent the hole from remaining open, Contractor shall immediately contact Operator's Geologist who shall determine the method to be used to probe the hole.

b. Coring

(1) Type Diamond

(2) Length 10'-20'

(3) Diameter 2 1/8"

(4) Intervals Varying

(5) Core samples, cuttings to be saved by Operator All core-cuttings on 5' intervals thru specified zones

(6) Coring/cutting tools to be used by Operator _____

(7) Containers and marking of cores/cuttings or samples

(a) Type of containers Core boxes

Marking of core is Contractor's responsibility

(b) Containers will be supplied by Operator

(c) All cores, cuttings, sludge and samples will be delivered by Contractor to Operator's representative.

(d) Casing Program

Size: N.A. Type: _____ Weight: _____

Conditions under which casing must be set _____

(e) Drilling Fluid

Types Air - foam - minimum of 600 CFM compressor

Mud or Mud Conditions Additives must be used when necessary to obtain clean samples.

Specifications:

(f) Logging

1. Type by Operator

2. Interval Entire hole

(g) Other Exploratory Operations

4. LABOR, EQUIPMENT, MATERIALS, SUPPLIES AND SERVICES

a. Labor, equipment, materials, supplies and services to be furnished by Contractor in accordance with Paragraph 2 of the Master Drilling Contract:

No. 3 or more (make of rig) capable of drilling to a maximum depth of 1500 feet completely equipped with appropriate drill pipe, drill collars, water truck and other equipment necessary to complete drilling program in good and workmanlike manner.

b. Additional material, equipment, special tools, supplies and services to be furnished by:

CONTRACTOR	OPERATOR
Surface Casing	___ Casing
___ Steel slush pits	___ Steel slush pits
x Water	x Water supplied by
___ Cost	x Cost
___ Storage	x Storage
x Transportation	___ Transportation
x Pumps	___ Pumps
x Bits	___ Bits
x Reamers	___ Reamers
x Mud or Mud Conditioners	x Mud or Mud Conditioners
First $25.00 for each hole	x a. Day Work Basis
	x b. In excess of $ 25. per hole
x Lost Circulation Material	x Lost Circulation Material
First $25.00 for each hole	Excess over $25.00 per hole

c. Roads and drill sites to be prepared and maintained by Operator

d. Moving time will be at Contractor's expense.

5. COMPENSATION TO BE PAID CONTRACTOR

a. Mobilization

Mobilization charge from Yarnell to the drilling area: $ -0- (per rig)

b. Footage Rates

(1) For all drilling performed with compressed air:

(a) From surface to and including 400 feet in depth, at the rate of 2.50 per lineal foot.

(b) From 400 feet to and including 800 feet in depth, at the rate of 3.00 per lineal foot.

(2) For all drilling performed with water or other drilling fluid:

(a) From surface to and including 400 feet in depth, at the rate of 2.50 per lineal foot.

(b) From 400 feet to and including 800 feet in depth, at the rate of 3.00 per lineal foot.

(3) Drilling below 800 feet will be paid on a day work basis.

Depth measurement used to determine compensation due Contractor under subparagraphs (1) and (2) above shall be calculated on the basis of drilled footage recorded in the driller's log, provided, however, that Operator may probe the hole to determine footage drilled within three (3) hours after completion of the hole, in which event, the Operator's footage calculation shall control.

c. Day Work Rates

For all work performed with a full crew (3 men) on a day work basis, as defined in the Master Drilling Contract, Contractor shall be paid for each hour worked on the following basis:

Day work with drill pipe	$ 75.00 per hour
Day work without drill pipe	_____ per hour
Standby with crew	50.00 per hour
For each man less than a full crew, the sum of shall be deducted from the day work rate paid Contractor	_____ per hour
Standby without crew	_____ per hour

d. Coring Rates

(1) Coring with core barrel will be compensated at rate of $ 75.00 per ~~linear foot~~ hour.

(2) Sidewall sampling will be compensated at rate of $ N.A. per hour (or) day work rates.

e. Lost Circulation

If loss of circulation occurs while normal drilling operations are in progress on a footage rate basis, Contractor shall notify Operator of such loss and shall use all reasonable means to restore the same, without compensation for the first four hours of lost circulation of each hole. If Operator concurs that such condition exists, operations by Contractor to restore circulation after said first four hours of lost circulation shall be compensated on a day work basis until normal circulation is restored. If additional lost circulation is encountered in the same hole after the first loss is encountered, restoration of normal circulation will be compensated on a day work basis.

f. Waiting on Orders

When Contractor's rig is shut down awaiting Operator's orders (under paragraph 3.5 of Master Drilling Contract) Contractor shall be paid at standby rates with or without crew as applicable.

g. Casing and Cementing

Contractor will be reimbursed in accordance with paragraph 7.2 of Master Drilling Contract at:

Footage rates:	75.00 per hour
Day work rates:	75.00 per hour

h. Repairs

If it becomes necessary to shut down Contractor's rig for repairs while Contractor is performing work on a day work basis, Contractor shall be allowed compensation for such repairs at the appropriate day work rate commensurate with the stage of operations then in effect, i.e., with drill pipe or without drill pipe. The number of hours for which Contractor is to be compensated shall be limited as follows:

For any one job:	4 hours
Total hours per month:	12 hours

i. Interruption

In the event that Contractor is interrupted in the performance of the work solely as a result of act or omission of Operator, causing Contractor's drilling rigs to be idle at the site of the work, the period of time during which such interruption occurs shall be charged as standby time with crew during the period each drilling rig is so idle. On the next working day following the last day during which any such standby time occurred, Contractor shall advise Operator's Geologist in writing of the duration in hours of such standby time. Contractor shall make no claim for, and Operator shall not be obligated to make payment for, standby time: (1) which has not been approved in writing by Operator's Geologist (which approval shall not be unreasonably withheld); or (2) which occurs between the end of any work day and the beginning of the next succeeding work day; or (3) which occurs during any period when drilling has not been required by Operator under this agreement; or (4) which occurs during any period in which Contractor is prevented from drilling or is prevented from making depth measurements or conducting other operations hereunder by reason of any force majeure contingency.

j. Extra Work

Contractor shall not be entitled to any compensation for extra work unless orders therefor are given in writing duly executed by Operator and the amount of compensation for such extra work is specified in such written orders.

6. SURFACE OWNERS

The rights of surface owners must be respected. Gates will be left in the same position (open or closed) as found. Livestock, insofar as possible, will not be harmed or disturbed. Fences will not be cut without permission, and if cut, must be properly braced prior to

cutting. Damage to fences will be repaired. Drill sites will be restored to as near their original condition as practicable. Mud pits will be filled and drill holes plugged. Vehicles will stay on established roads or trails as much as possible to avoid unnecessary damage to the surface. Trash, broken equipment, mud, etc., will be removed from the premises. Open fires are prohibited. Hunting or fishing on premises by Contractor's personnel is prohibited. Water holes and streams will not be blocked, damaged or polluted. Without limiting any other available remedies, breach of any of these conditions by Contractor, its employees, agents or subcontractors will be ground for cancellation of this Drilling Order and the Master Drilling Contract at Operator's election.

7. BONDS

Required _____ Not Required X

Bond fee will be charged to Operator.

8. NOTICES

Notices required under the terms of this Bid and Drilling Order or the Master Drilling Contract shall be sent to the respective addresses of the parties below:

CONTRACTOR

Steve Roberts

Box 593

Yarnell, Arizona 85362

Attention: Steve Roberts
Telephone: (602) 427-3367

OPERATOR

Minerals Exploration Company

Box 2674

Casper, Wyoming 82602

Attention: Gerald C. Dohm, Jr.
Telephone: (307) 265-4091

9. SPECIAL PROVISIONS a. Contractor will guarantee hole to remain open for logging for a period of one hour. If hole does not remain open, Contractor will return and wash out hole one time at no cost to Operator. Additional washing of hole will be charged at hourly drill rate.
b. Should cavities or loose or caving material be encountered of such abnormal nature as to prevent successful completion of a hole, Contractor does not guarantee to drill to any certain depth, but shall drill as deep as practicable, under the conditions, and shall be paid for such hole at the rates herin specified for all footage completed.
c. Per Diem Expenses: A payment of $ 10.00 per day per crew member shall be made.

IN WITNESS WHEREOF, this instrument is executed this the 13 day of October, 19 76.

CONTRACTOR

UNIVERSAL DRILLING & SUPPLY COMPANY

By Steve Roberts
President (Title)

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cut OFF	MAX CPS	Rock TYPE	Samples	Remarks
AM 457	4-14-77				640	591	475-485	1.5	.02	335			
							485-495	1.0	.02	250			
							495-500	1.0	.02	300			
							525-530	2.5	.02	400			
							535-550	3.0	.02	580			
								2.5	.02	590			
AM 515	4-14-77				80	78	BARREN			50	GRANITE		2 to 3 Times Background
AM 281	4-15-77				265(45)	266	55-60	.5	.02	260			
							130-135	.5	.02	225			
							135-145	2.5	.02	310			
							160-165	1.0	.02	200			
							165-175	4.0	.02	470			
							190-205	6.5	.02	760			
AM 280	4-15-77				250(45)	206	45-60	5.5	.02	520			
							125-135	1.5	.02	430			
								2.5	.02	450			
							150-160	4.5	.02	450			
								2.0	.02	460			
							195-205	5.5	.02	1250			
AM 285	4-15-77				120(20)	117	85-95	4.0	.02	980			
AM 304	4-15-77				300(+)	300	145-155	5.5	.02	1150			
							255-265	3.0	.02	430			
AM 514	4-15-77				700	698	450-455	1.5	.02	400			

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Pitted	Mineral Zones	Thickness	Cutoff Approx Grade	MAX GPS	Rock TYPE	SAMPLES	Remarks
AM 207	11-4-76	1945	1,201,239.0	646,602.9	390	390	190 – 200	1.5	.02	290		190-200	
AM 208	11-4-76	1895	1,202,200.5	646,367.4	300	296	50 – 60	Mineralized	< .02	164		None	
AM 209	11-5-76	1973	1,201,379.1	646,503.2	400	345	200–210	1.0	.02	235		None	
AM 210	11-3-76	2006	1,201,001.8	646,389.5	460	455	245 - 255	2.0	.02	330		245-255	
AM 211	11-4-76	2006	1,201,806.5	646,188.4	420	416	185 – 200	.5	.02	230		None	
AM 212	11-3-76	1958	1,202,275.1	647,028.7	200	195		Mineralized				None	
AM 213	11-6-76	1953	1,201,996.2	645,397.5	320	321	110 – 125 140 – 155	1.0 3.5	.02 .02	255 750		140-155	
AM 214	11-5-76	1887	1,202,399.0	645,399.2	220	207	25 – 35 50 – 60	1.0 1.5	.02 .02	360 590		50-60	
AM 215	11-7-76	1922	1,202,196.0	645,201.2	200	200	70 – 85	2.0	.02	475		70-85	
AM 216	11-5-76	1928	1,202,609.3	645,400.2	220	215	0 – 10	5.0	.02	450		0-10	
AM 217	11-5-76	1904	1,202,990.6	645,378.1	190	187		Mineralized				None	
AM 218		1938	1,202,599.0	645,195.7	220	220	5-10	.5 60-65 85-90	.02 .02 .02	220 370 250		None	
AM 219	11-7-76	1929	1,202,398.7	644,992.1	200	195	65 – 75	1.0	.02	230		None	
AM 220	11-7-76	1926	1,202,197.1	644,935.5	200	200		Mineralized				None	
AM 221	11-6-76	1947	1,201,999.1	644,999.0	260	256	160–170	1.5	.02	320		None	
AM 222	11-5-76	1942	1,202,053.1	646,666.1	200	202	105 – 125 185 – 195	9.0 .5	.02 .02	1360 240	240	105-125	
AM 222-C	11-7-76	1942	1202053.1	646,666.1	196	198	105-125 185-195	10.0 .5	.02 .02	960 255		None	
AM 223	11-6-76	1957	1,202,800.4	644,997.5	150	150	70-105	1.5 1.5 8.0 1.0 4.0	.02 .02 .02 .02 .02	340 300 420 230 660		80-105	
AM 224	11-6-76	196[illegible]	1,202,985.4	644,798.3	150	150	10-20 75-100	4.0 4.0 .5 1.0	.02 .02 .02 .02	475 675 220 235		10-20 75-100	
AM 225	11-15-76	1946	1,202,201.2	644,796.6	2	214	125-130	1.5	.02	310		None	
AM 226	11-6-76	1958	1,202,799.5	644,596.5	150	148	95-120	4.5 3.0 4.0	.02 .02 .02	580 500 320		95-120	
21					5266								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MAX CPS	ROCK TYPE	Samples	Remarks
AM 227	11-7-76	1924	1,202,406.3	644,597.7	220	216	30-40	3.5	.02	1340		30-40	
							115-125 {	3.0	.02	1100		115-125	
								1.0		250			
AM 228	11-6-76	1969	1,202,597.2	644,396.8	220	198	50-55	2.5	.02	560		50-55	
							105-115	1.5	.02	280			
							125-135	1.0	.02	420		125-135	
							130-140 {	1.0	.02	250			
								3.0	.02	600		130-140	
AM 229	11-7-76	~~[illegible]~~ 1943	1,202,201.6	644,407.4	260	260	65-75	3.0	.02	1380		65-75	
							125-135	1.5	.02	390			
							140-155 {	1.5	.02	430		140-155	
								1.0	.02	370			
AM 229-C	11-9-76	~~[illegible]~~ 1943	1,202,201.6	644,407.4	160	157	65-70	.5	.02	230			
							120-125	2.5	.02	640			
							140-150 {	2.0	.02	620		None	
								1.0	.02	320			
								.5	.02	220			
AM 230	11-8-76	1982	1,202,168.5	644,263.4	220	215	110-120	3.5	.02	780		110-120	
							165-170	1.5	.02	390		105-200	
							185-200	4.5	.02	440			
AM 231	11-9-76	1985	1,202,392.6	644,187.7	200	196	95-100	2.0	.02	700			
							155-160	1.0	.02	260		95-100	
							180-190	1.5	.02	370			
AM 232	11-8-76	~~[illegible]~~ 2015	1,201,991.6	644,629.9	320	306	210-225	1.5	.02	420		210-225	
								1.0	.02	220			
AM 233	11-16-76	2049	1,201,832.0	644,403.6	360	359	270-280	6.5	.02	880		270-280	
AM 234	11-9-76	2208	1,201,395.6	645,858.5	480	463	430-446	1.5	.02	410		430-440	
AM 235	11-8-76	2133	1,201,734.3	644,793.8	400	376	345-355	4.5	.02	460		Destroyed	
AM 236		1960	1,202,989.7	644,394.8	150	147	25-35	3.0	.02	410		25-35	
							100-105	2.5	.02	420		100-105	
							115-125	4.5	.02	610		115-125	
AM 237	11-9-76	1942	1,203,195.1	644,589.3	120	111	50-60	2.5	.02	240		None	
AM 238	11-10-76	1981	1,203,413.009	644,591.0	120	119	55-60	1.5	.02	580		55-60	
AM 239	11-10-76	1975	1,203,589.7	644,583.8	120	120	0-10	3.0	.02	320		None	
AM 240	11-10-76	1985	1,203,894.5	644,679.7	100	100	BARREN			70		None	
AM 241	11-15-76	1966	1,203,885.2	644,891.2	100	101	BARREN			30		None	
AM 242	11-9-76	1970	1,204,144.3	644,902.4	100	95	70-80	1.5	.02	240		None	
17 (38)					3650 8914								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Piebed	Mineral Zones	Thickness	cutoff	Max CPS	Rock TYPE	Samples	REMARKS
AM 243	11-15-76	1985	1,203,796.0	644,400.2	100	101	BARREN			40		None	
Am 244	11-10-76	1935	1,203,397.3	644,400.4	120	121	80-85	1.5	.02	460		80-85	
Am 244-C	11-16-76	1935	1,203,397.3	644,400.4	80	78	65-70 75-85	.5 ?	.02 .02	250 250?		None	
Am 245	11-10-76	2072	1,202,202.6	643,997.0	360	330	210-220 275-285	3.0 2.5	.02 .02	2130 310		210-220	
Am 246	11-10-76	2091	1,201,479.1	643,995.7	400	386	360-380 MINERALIZED		—	165		None	
AM 247	11-9-76	1960	1,203,221.4	644,202.9	150	149	105-115	2.0 1.0	.02 .02	330 300		None	
Am 248	11-16-76	1944	1,203,414.3	644,200.9	120	117	85-95	1.0	.02	345		None	
Am 249	11-10-76	1973	1,203,595.6	644,199.2	120	120	40-50	3.5	.02	650		40-50	
Am 250	11-15-76	1957	1,203,805.4	644,200.3	100	99	90-95	Mineralized		110		None	
Am 251	11-15-76	1946	1,203,047.5	644,077.5	200	198	45-55 105-110 125-130 130-135	3.0 2.0 2.0 1.5	.02 .02 .02 .02	925 360 260 380		45-55	
Am 252	12-2-76	1917	1,203,486.3	643,887.4	120	117	0-5 45-50 50-55 55-60 60-75 75-85	2.0 .5 .5 2.0 5.0 3.5 1.0 3.0 2.0	.02 .02 .02 .02 .02 .02 .02 .02 .02	870 210 200 520 1200 800 240 410 380		0-5 55-75	
Am 253	11-10-76	1939	1,203,811.0	643,994.8	100	99	20-25 80-85	3.0 .5	.02 .02	2670 215		20-25	
Am 254	11-20-76	1966	1,204,797.4	643,787.3	155	154	120-125 145-150	2.5 1.0	.02 .02	390 270		120-130	
Am 254-C	11-21-76	1966	1,204,797.4	643,787.3	135	135	120-130	4.0	.02	1125		None	
Am 255	11-16-76	1954	1,202,615.2	643,800.3	320	307	80-85 155-165	.5 2.5 2.0	.02 .02 .02	200 460 670		155-165	
Am 256		1953	1,202,807.3	643,821.5	300	301	140-160	1.0 2.0 2.0 2.5	.02 .02 .02 .02	500 320 320 740		140-160	
Am 257	11-23-76	1939	1,203,219.3	643,833.8	150	150	45-55 125-135	1.0 3.0 7.5	.02 .02 .02	270 450 580		45-55 125-135	
Am 258	11-29-76	1918	1,203,437.8	643,836.2	150	149	5-10 20-25 75-100	1.0 2.0 1.5 12.5	.02 .02 .02 .02	240 520 330 840		20-25 75-100	
Am 259	11-30-76	1888	1,203,590.6	643,793.0	140	138	55-65 70-75 80-85 85-90	2.0 1.0 .5 3.0	.02 .02 .02 .02	370 220 220 1050		85-90	
19 (57)					7320								

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MAX CPS	Rock TYPE	SAMPLES	REMARKS
AM 260	11-22-76	1928	1,204,987.7	643,830.7	200	200	125-135	1.0	.02	230	~~Alone~~	None	
AM 261	11-21-76	1933	1,205,196.4	643,813.6	120	120	85-95	MINERALIZED		125	~~Alone~~	None	
AM 262	11-21-76	1966	1,204,991.2	644,005.4	250	250	10-15, 140-145, 210-220	MINERALIZED		155	~~Alone~~	None	
AM 263	11-22-76	1934	~~1,205,850.5~~	~~643,566.7~~	200	201	85-95, 175-180, 185-195	Mineralized		180	~~Alone~~	None	
AM 264	11-21-76	~~1878~~ 1904	1,204,791.4 1,205,350.5	644,194.1 643,566.7	100	101	70-75 80-85	.5 4.0	.02 .02	200 2200	~~[illegible]~~	80-85	
AM 265	11-22-76 1-20-77	1946	1,205,047.1	643,618.7	200	200		BARREN		85		None	
AM 266	11-23-76	1968	1,204,603.8	643,601.4	140	137		BARREN		70		None	
AM 267	12-1-76	1907	1,203,830.9	643,601.4	120	116	25-35 105-110	3.0 1.0	.02 .02	940 360		25-35	
AM 268	11-23-76 11-18-77	1907	1,203,422.1	643,574.4	160	160	30-40 85-95 95-100 100-110	4.0 3.0 1.0 5.5 2.0	.02 .02 .02 .02 .02	1690 830 330 460 280		30-40 85-95	
AM 269	11-30-76	1963	1,203,016.7	643,606.3	220	218	160-165 180-190	2.0 .5 9.0	.02 .02 .02	415 215 580		Destroyed	
AM 270	11-22-76	196[illegible]	1,205,167.9	643,429.7	180	180		BARREN		70		None	
AM 271	12-1-76	188[illegible]	1,204,357.8	643,398.7	80	76		BARREN		60		None	
AM 272	11-29-76	1886	1,203,940.7	643,395.5	140	136	0-10 70-80	6.0 2.5	.02 .02	1800 880		0-10 70-80	
AM 273	11-17-76	1880	1,203,370.1	643,204.2	200	201	35-45 130-145 150-155 170-175 175-180 180-185	2.0 2.0 4.5 1.5 1.5 1.5 1.5 1.0	.02 .02 .02 .02 .02 .02 .02 .02	1150 575 375 360 325 310 360 205		35-45	
AM 273-C	11-20-76	1880	1,203,370.1	643,204.2	185	186	35-45 115-120 135-145 150-155 165-185	2.5 1.5 1.5 .5 7.0 1.0 .5 1.5 3.0	.02 .02 .02 .02 .02 .02 .02 .02 .02	1555 400 235 220 460 230 225 305 405		None	
AM 274	11-21-76	~~1936~~ 1842	1,204,336.9	642,978.9	78	76	45-50 50-60	1.5 4.0	.02 .02	420 740	5	50-60	
AM 274-C	11-22-76	~~1936~~ 1842	1,204,336.9	642,978.9	66	63	50-60	4.5	.02	1100		None	
17(74)					2639 4075								

Hole Number	DATE	ELEV	LOCATION N	LOCATION E	Depth Drilled	Depth Poked	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	REMARKS
Am 275	11-22-76	1742	1,204,339.5	641,429.9	120	118	45-55	6.0	.02	2400		Destroyed	
							65-70	2.5	.02	700			
Am 275-C	11-30-76	1742	1,204,339.5	641,429.9	80	75	45-55	6.0	.02	3500		None	
Am 276	11-23-76	1956	1,205,035.1	642,409.4	80	79	5-10	MINERALIZED		110		None	
Am 277	11-23-76	1937	1,205,015.1	642,159.4	80	81	5-10	BAR	REN	90		None	
Am 278	11-30-76	1860	1,203,609.5	643,392.3	160	156	0-15	5.0	.02	820		0-15	
								2.5	.02	720			
								1.5	.02	280			
							60-80	1.0	.02	260		60-80	
								2.5	.02	1000			
								6.5	.02	1150		95-100	
								1.0	.02	290			
							95-105	1.0	.02	260			
								2.0	.02	630			
							110-115	1.0	.02	250			
Am 279	11-30-76	1910	1,203,389.2	643,409.5	200	198	45-60	3.5	.02	1150		45-60	
								3.0	.02	625			
							150-160	7.5	.02	780		150-160	
							165-170	3.0	.02	350			
							195-200	2.0	.02	345			
Am 280	11-30-76	1893	1,203,191.4	643,405.7	200	200	45-55	5.5	.02	505		45-55	
							125-135	4.5	.02	475		150-160	
							150-160	4.0	.02	505		195-200	
								2.0	.02	490			
							195-200	4.5	.02	1300			
Am 281	11-30-76	1891	1,202,996.7	643,401.0	220	206	55-60	1.0	.02	280		165-175	
							130-135	.5	.02	215		190-205	
							135-140	2.5	.02	315			
							165-175	4.0	.02	540			
							190-205	6.5	.02	780			
Am 282	12-2-76	1873	1,202,705.4	643,422.9	220	216	60-65	.5	.02	260		135-145	
							135-145	3.0	.02	550			
								1.5	.02	320			
							150-160	3.0	.02	480			
Am 283	12-2-76	1950	1,202,619.8	643,188.6	540	495	375-385	1.0	.02	240		None	
Am 284	12-1-76	1876	1,204,507.3	643,212.9	80	78	40-45	1.5	.02	485		None	
Am 285	11-30-76	1871	1,204,154.6	643,219.5	100	98	0-5	.5	.02	210			
							85-90	4.5	.02	1050		85-90	
Am 286	11-30-76	1857	1,203,797.9	643,206.2	140	138	60-70	4.5	.02	2500		60-70	
							95-100	2.0	.02	580		95-100	
							100-105	1.5	.02	350			
							110-115	3.5	.02	380			
13 (87)					2220 17095								

Hole Number	DATE	ELEV	LOCATION N	LOCATION E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	Max CPS	ROCK TYPE	Samples	REMARKS
Am 287	11-30-76	1861	1,203,052.4	643,157.6	260	250	135-145	3.0	.02	680		135-145	
								1.5	.02	240		175-180	
							155-165	4.0	.02	425			
							165-170	1.5	.02	230			
							170-175	.5	.02	220			
							175-180	2.5	.02	650			
Am 288	12-4-76	1891	1,202,817.5	642,965.4	460	445	255-265	4.0	.02	650		255-265	
								1.0	.02	290		290-305	
							270-280	2.5	.02	360		335-350	
							290-305	10.0	.02	500		375-380	
								1.0	.02	275			
							335-350	3.0	.02	1050			
								3.5	.02	1000			
								2.0	.02	840			
							375-380	2.0	.02	740			
Am 289	11-30-76	~~1885~~ 1830	1,203,182.3	642,192.6	360	351	80-85	3.5	.02	1260		80-85	
							145-150	9.5	.02	640		145-150	
							150-155	3.5	.02	320		160-170	
							160-170	3.5	.02	1000			
							185-195	2.0	.02	325			
							260-265	1.5	.02	345			
							265-275	2.0	.02	480			
Am 289-C	12-6-76	~~1885~~ 1830	1,203,182.3	642,192.6	306	304	80-90	4.0	.02	1150		80-90	
							135-150	6.0	.02	640		135-150	
								1.5	.02	250		165-170	
							150-155	2.5	.02	380			
							165-170	3.5	.02	920			
							175-185	.5	.02	275			
							185-195	1.5	.02	300			
							265-275	3.0	.02	700			
							275-285	1.0	.02	250			
							295-300	.5	.02	225			
Am 290	11-30-76	~~1855~~ 1853	1,204,573.7	643,015.0	80	77	20-35	6.0	.02	1700		20-35	
								1.5	.02	490			
Am 291	12-1-76	187[illegible]	1,204,535.8	642,789.7	80	76	50-60	2.0	.02	480		None	
Am 292	11-30-76	~~1857~~ 1856	1,204,134.1	643,010.0	120	116	95-110	6.5	.02	860		95-110	
								2.5	.02	1150			
Am 293	11-30-76	~~1832~~ 1831	1,203,980.1	643,043.3	140	136	55-65	3.5	.02	760		55-65	
							90-95	2.0	.02	700		90-95	
							95-110	3.0	.02	390			
								2.5	.02	320			
8 (95)					1806								
					18901								

Hole Number	Date	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
AM 294	11-30-76	1849	1,203,600.1	643,007.5	200	197	55-70	12.5	.02	5000		55-70	
							70-75	1.5	.02	370			
							90-100	3.5	.02	640		90-100	
								.5	.02	220			
							105-115	1.0	.02	260			
AM 295	12-1-76	1854	1,203,394.8	643,072.2	420	417	20-30	2.0	.02	520		20-30	
							75-90	2.0	.02	600			
								2.5	.02	720			
							110-120	2.5	.02	290		75-90	
							120-125	3.5	.02	630		120-125	
							130-135	2.5	.02	330		150-160	
							150-165	2.0	.02	540			
								3.5	.02	680			
							205-210	2.0	.02	640		210	
AM 296	12-1-76	1848	1,203,257.4	642,999.8	460	454	105-115	5.0	.02	480		105-110	
							125-140	4.0	.02	1250		125-140	
								1.5	.02	275			
								4.0	.02	450			
							145-150	3.0	.02	420			
							255-265	1.5	.02	290			
AM 297	12-8-76	1928	1,202,993.0	643,017.1	480	475	270-275	.5	.02	200			
							340-345	2.5	.02	1490		340-345	
AM 298	12-3-76	1898	1,203,002.9	642,752.1	500	489	245-260	1.5	.02	480			
								3.0	.02	410		270-280	
							270-280	4.5	.02	520			
							320-325	1.0	.02	230		340-345	
							340-350	4.0	.02	2200			
							350-360	2.5	.02	900			
							365-375	1.5	.02	375			
AM 299	12-2-76	1834	1,204,740.1	642,569.5	120	118	10-20	Mineralized		120		None	
AM 300	12-3-76	1863	1,204,775.5	642,357.5	100	100		BARREN		85		None	
AM 301	12-2-76	1840	1,204,597.6	642,395.6	80	78	40-55	9.0	.02	2500		40-55	
								2.5	.02	1550			
AM 302	12-2-76	1871	1,204,613.4	642,179.2	100	99	45-55	MINERALIZED		105		None	
AM 303	12-3-76	1792	1,204,509.6	641,787.4	100	96		BARREN		70		None	
AM 304	12-2-76	1853	1,203,368.4	642,805.7	300	291	145-155	5.5	.02	660		145-155	
AM 305	12-3-76	1822	1,204,608.5	641,589.6	80	74	40-55	8.5	.02	1640		40-55	
AM 306	12-3-76	1758	1,204,501.7	641,273.3	80	78		BARREN		30		None	
AM 307	1-17-77	1774	1,204,382.8	641,103.0	80	80	45-50	.5	.02	210		None	
AM 308	1-18-77	1770	1,204,201.2	641,002.4	120	117	70-85	6.5	.02	940		70-85	
AM 309	12-8-76	1777	1,204,211.5	641,606.1	150	145	60-70	1.5	.02	345		None	
							80-85	1.5	.02	335			
16 (111)					3370 22271								

Hole Number	DATE	ELEV	LOCATION N	LOCATION E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MAX CPS	ROCK TYPE	Samples	REMARKS
AM 310	12-8-76	1787	1,204,155.1	641,813.6	180	177	70-80	1.5	.02	355		85-100	
								.5	.02	210			
								2.0	.02	385			
							85-90	3.0	.02	820			
							95-100	2.0	.02	510			
AM 311	12-4-76	~~1809~~ 1818	1,204,206.0	641,997.8	200	196	85-105	4.0	.02	840		85-105	
								.5	.02	220			
								.5	.02	240			
								11.0	.02	880			
AM 312	12-3-76	~~1800~~ 1816	1,204,225.7	642,204.6	180	177	0-5	1.5	.02	720		0-5	
							70-80	.5	.02	210			
							85-95	3.0	.02	660		85-95	
							100-105	2.5	.02	485			
							105-110	1.0	.02	305			
AM 313	12-4-76	~~1820~~ 1826	1,204,200.1	642,398.1	160	158	85-90	2.5	.02	740		85-90	
							90-100	.5	.02	225		95-105	
							95-105	2.0	.02	550			
AM 314	12-3-76	~~1822~~ 1823	1,204,001.4	642,195.1	220	216	75-80	1.0	.02	350		100-110	
							100-110	7.0	.02	2750		115-125	
							110-115	.5	.02	230			
							115-125	3.0	.02	650			
AM 315	12-8-76	~~1777~~ 1783	1,204,004.2	641,806.6	160	150	70-75	2.5	.02	825		70-75	
							75-80	.5	.02	210		80-90	
							80-90	3.0	.02	1750			
							90-95	1.5	.02	400			
							140-145	.5	.02	210			
AM 316	1-17-77	~~1810~~ 1814	1,204,004.3	641,421.3	140	142	105-115	3.0	.02	770		105-115	
							130-140	1.0	.02	230			
AM 317	1-21-77	1778	1,204,009.3	641,001.7	200	200	130-145	3.0	.02	470		None	
								2.0	.02	485			
AM 318	12-4-76	1868	1,203,854.2	642,431.2	280	268	55-65	5.5	.02	820		55-65	
							140-165	3.5	.02	900		140-165	
								3.5	.02	640			
								1.5	.02	380			
AM 319	12-5-76	1867	1,203,611.2	642,584.8	320	315	145-155	8.0	.02	2550		Destroyed	
							160-170	4.0	.02	1300			
							270-280	.5	.02	200			
AM 320	12-8-76	1825	1,203,816.4	642,196.5	260	255	45-55	4.0	.02	900		45-55	
							135-165	10.5	.02	1750		135-165	
								1.5	.02	475			
								4.0	.02	625			
							200-210	.5	.02	235			
11 (122)					2300 24571								

Hole Number	DATE	ELEV	LOCATION N	LOCATION E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MAX CPS	ROCK TYPE	Samples	REMARKS
Am 321	1-20-77	1786	1,203,834.2	641,786.7	220	215	75-85	2.0	.02	960		75-85	
							95-105	.5	.02	210			
							145-155	.5	.02	210			
							170-180	1.0	.02	250			
								1.5	.02	300			
							190-195	1.5	.02	370			
Am 322	1-17-77	1805	1,203,826.5	641,579.9	140	139	105-110	1.5	.02	315		None	
							120-130	.5	.02	215			
Am 323	1-21-77	1782	1,203,812.7	641,195.7	220	220	140-155	3.0	.02	2350		140-155	
								5.0	.02	2000			
Am 324	12-5-76	1837	1,203,609.3	642,230.4			115-120	.5	.02	220		135-155	
							120-125	1.5	.02	405			
							135-145	3.5	.02	2150			
							145-155	2.0	.02	620			
							155-160	1.5	.02	525			
Am 325	1-18-77	1820	1,203,590.4	641,795.2	285	281	110-120	2.0	.02	840			
							135-145	4.0	.02	3500			
							235-240	1.5	.02	250		Destroyed	
							240-245	1.0	.02	325			
							245-250	1.0	.02	250			
Am 326	1-21-77	18[illegible]7	1,203,624.3	641,420.6	225	222	200-205	1.0	.02	275		None	
Am 327	12-3-76	1886	1,202,634.9	642,848.3	500	478	305-310	.5	.02	225			
							310-315	1.5	.02	380		330-345	
							320-325	1.0	.02	290			
							330-345	5.0	.02	600			
							380-385	.5	.02	260			
							405-410	1.0	.02	280			
							410-420	1.0	.02	340			
Am 328	12-4-76	1906	1,203,197.4	642,654.4	420	395	230-255	5.5	.02	1650		230-255	
								1.0	.02	300		265-275	
								2.5	.02	600		315-330	
							265-275	3.0	.02	1000			
							315-330	7.5	.02	1700			
Am 329	12-5-76	1911	1,203,413.0	642,401.7	400	391	215-240	3.5	.02	3450		215-240	
								1.5	.02	500		335-345	
								4.0	.02	700			
							300-310	2.0	.02	335			
								1.0	.02	240			
							335-345	2.0	.02	760			
9					2410								
(131)					26981								

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	MAX CPS	ROCK TYPE	samples	REMARKS
AM 330	12-7-76	1823	1,203,390.3	642,197.1	300	293	145-150	3.0	.02	500		145-150	
							155-165	4.0	.02	3500			
							170-175	.5	.02	210		155-165	
							250-255	.5	.02	215			
							265-270	.5	.02	200			
							280-285	1.5	.02	325			
AM 331	12-8-76	~~1825~~ 1822	1,203,397.6	642,014.2	300	301	140-150	3.0	.02	1825		140-150	
							235-245	3.0	.02	280			
							250-255	1.0	.02	315			
							270-275	1.5	.02	430			
AM 332	11-9-77	1828	1,203,390.9	641,806.4	320	318	185-200	5.5	.02	3650		185-200	
							200-215	.5	.02	230			
								1.5	.02	390			
								3.0	.02	430			
AM 333	1-21-77	~~1826~~ 1825	1,203,409.4	641,597.7	265	262	170-180	3.0	.02	820		170-180	
4 (135)					28166 1185		205-215	2.0	.02	490		205-215	
								3.0	.02	1250			

Hole Number	DATE	ELEV	LOCATION N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	ROCK TYPE	Samples	REMARKS
Am 336	1-23-77	~~1826~~ 1836	1,203,177.6	641,813.3	260	260	210-220	5.5	.02	3800			
							245-255	2.5	.02	650			
								3.5	.02	650			
Am 337	12-6-76	2013	1,203,155.6	640,994.6	500	491	425-435	2.0	.02	660			
Am 343 See Below	12-7-76	1833	1,203,030.6	642,409.5	380	378	165-175	5.5	.02	590			
							180-185	1.0	.02	325			
							190-205	.5	.02	220			
								2.5	.02	225			
							235-240	1.5	.02	340			
							270-280	5.5	.02	3600			
							300-305	1.5	.02	250			
							310-320	2.0	.02	405			
Am 339	1-22-77	1853	1,203,005.5	641,602.5	380	375	260-265	2.5	.02	950			
							265-275	3.5	.02	1250			
Am 340	1-23-77	1851	1,202,979.2	641,789.8	360	361	245-255	6.5	.02	2200			
							295-315	6.0	.02	2700			
								5.0	.02	950			
								2.0	.02	600			
Am 341	1-23-77	~~1873~~ 1858	1,203,005.2	642,013.7	500	501	185-195	5.0	.02	1600			
								1.5	.02	750			
							245-260	4.0	.02	1220			
							~~260-270~~	2.5	.02	1050			
							260-270	1.0	.02	215			
							285-300	2.5	.02	570			
								3.0	.02	600			
								1.0	.02	210			
							360-370	2.5	.02	670			
Am 342	1-19-77	~~1870~~ 1856	1,203,018.3	642,164.3	385	384	150-160	5.5	.02	11230			
							210-225	4.0	.02	4608			
								.5	.02	210			
								3.0	.02	520			
							255-260	.5	.02	230			
							370-375	1.0	.02	225			
Am 346	1-22-77	1875	1,202,791.1	641,402.2	440	440	350-375	1.5	.02	330			
								6.0	.02	3250			
								5.0	.02	1330			
Am 348	1-20-77	~~1859~~ 1868	1,202,811.4	642,197.2	390	376	225-245	5.0	.02	580			
								2.5	.02	440			
							300-310	3.0	.02	2800			
							310-320	4.0	.02	430			
							325-335	2.0	.02	340			
							355-365	3.0	.02	375			
9 (144)					3595	31761							

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	MAX CPS	Rock TYPE	Samples	Remarks
AM344	12-7-76	1834	1,202,807.6	642,581.2	440	439	195-205	6.5	.02	940			
							210-220	5.5	.02	830			
							225-230	2.0	.02	305			
							245-250	2.0	.02	425			
							260-270	2.0	.02	440			
							325-330	1.5	.02	385			
							340-345	1.5	.02	400			
							350-355	3.0	.02	500			
AM350	12-6-76	1869	1,202,279.9	643,144.0	500	486	355-375	3.5	.02	1700			
								7.0	.02	2500			
							425-435	2.0	.02	430			
AM351	12-6-76	1879	1,202,133.7	643,318.4	520	496	390-415	4.5	.02	900			
								1.5	.02	320			
								3.0	.02	860			
							455-465	2.0	.02	860			
AM389	12-7-76	1901	1,204,909.5	642,005.6	80	85		BARREN		45			
AM352	1-25-77	1902	1,202,617.1	642,179.7	485	485	320-330	3.5	.02	1000			
							370-400	8.5	.02	5500			
								3.5	.02	850			
								4.0	.02	1400			
								3.5	.02	2850			
							400-410	2.5	.02	460			
							420-430	4.5	.02	1150			
							470-475	1.0	.02	230			
AM335	1-26-77	1854	1,203,195.9	641,406.1	315	311		BARREN		35			
AM347	1-26-77	1887	1,202,805.3	641,813.6	435	430	315-320	.5	.02	205			
							320-335	4.0	.02	2000			
								1.0	.02	225			
							360-385	5.5	.02	650			
								3.5	.02	1150			
								2.0	.02	280			
AM367	1-24-77	1929	1,202,595.5	642,536.5	460	460	280-285	2.0	.02	625			
							335-350	4.5	.02	410			
								2.0	.02	1400			
							355-360	1.5	.02	385			
							385-390	.5	.02	225			
							395-410	1.5	.02	260			
								1.5	.02	260			
							430-435	1.5	.02	430			
8 (152)					3235 34996								

Hole Number	DATE	ELEV	LOCATION N	Location E	Depth Drilled	Depth Piped	Mineral Zones	Thickness	cutoff	MAX CPS	ROCK TYPE	Samples	REMARKS
AM 368	1-25-77	1916	1,202,626.4	642,007.4	500	498	360-370	4.5	.02	1325			
							395-415	10.5	.02	2100			
								2.0	.02	400			
AM 369	1-23-77	1984	1,202,516.7	643,278.3	540	538	440-460	.5	.02	200			
								2.5	.02	410			
								5.0	.02	2250			
AM 370	1-24-77	1916	1,202,667.6	642,388.5	420	421	275-290	8.5	.02	800			
							340-350	4.0	.02	400			
								2.5	.02	1930			
							355-370	3.5	.02	360			
								2.0	.02	370			
AM 382	1-20-77	1881	1,202,369.7	640,607.0	560	556	295-300	1.0	.02	300			
							335-340	2.5	.02	445			
							345-355	4.5	.02	850			
							360-370	5.5	.02	1280			
							380-390	2.0	.02	375			
							400-410	2.5	.02	380			
								2.0	.02	330			
							495-500	.5	.02	200			
							525-530	1.5	.02	570			
							545-550	1.0	.02	215			
AM 426	1-25-77	2035	1,201,610.2	643,080.8	700	681	455-470	1.5	.02	400			
								1.5	.02	640			
								5.5	.02	1140			
							485-495	1.5	.02	310			
							500-505	2.5	.02	330			
							515-520	1.0	.02	300			
							530-540	3.0	.02	720			
							630-635	1.5	.02	360			
							645-650	.5	.02	220			
							665-675	1.0	.02	270			
AM 428	1-26-77	2072	1,201,335.4	643,518.9	740	725	545-580	1.5	.02	335			
								17.0	.02	1750			
								6.5	.02	1700			
AM 430	1-24-77	2032	1,201,866.7	643,173.4	700	690	495-515	13.0	.02	1050			
							520-545	3.5	.02	390			
								.5	.02	215			
								4.5	.02	1920			
							605-610	.5	.02	200			
							615-620	2.5	.02	840			
AM 435-C	1-17-77	2133	1,201,734.3	644,793.8	185	185	100-110	3.0	.02	1730			
								1.5	.02	275			
							115-120	.5	.02	225			
							125-130	1.0	.02	330			
							130-135	1.0	.02	270			
							175-185	3.5	.02	640			
8 (160)					4345	3941							

Hole Number	DATE	ELEV	LOCATION N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MaxCPS	ROCK TYPE	samples	REMARKS
Am 437	1-20-76	1894	1,202,209.8	640,592.7	660	658	325-335	2.5	.02	340			
							360-380	7.0	.02	900			
								3.0	.02	450			
							385-400	2.0	.02	250			
								4.5	.02	1680			
							415-425	1.5	.02	260			
								1.0	.02	270			
							440-445	.5	.02	240			
							470-475	.5	.02	220			
							590-605	2.0	.02	310			
								2.0	.02	365			
Am 438	1-19-77	1877	1,201,996.2	640,588.9	680	676	340-345	2.0	.02	355			
							375-390	3.5	.02	700			
								1.0	.02	215			
								1.0	.02	280			
								2.0	.02	350			
							395-400	.5	.02	200			
							405-410	2.5	.02	400			
							420-430	3.5	.02	550			
							445-450	1.0	.02	220			
							465-485	2.0	.02	1200			
								1.0	.02	260			
								1.5	.02	300			
								2.0	.02	440			
							540-545	.5	.02	200			
							620-625	.5	.02	210			
							620-625	1.0	.02	280			
Am 439	1-18-77	1867	1,202,197.6	640,401.8	660	620	310-315	1.0	.02	210			
							345-360	9.5	.02	520			
							365-370	1.0	.02	305			
							370-380	3.0	.02	660			
							390-400	4.5	.02	320			
							445-450	.5	.02	220			
							550-555	.5	.02	200			
							570-580	1.0	.02	240			
								1.5	.02	445			
							580-590	1.5	.02	270			
Am 440	1-7-77	1900	1,202,592.5	640,407.0	560	556	350-380	3.5	.02	5200			
								4.0	.02	330			
								7.0	.02	1500			
							410-415	1.5	.02	260			
							415-420	1.0	.02	305			
							420-425	2.0	.02	370			
4					2560								
(164)					41901								

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	Max CPS	Rock TYPE	Samples	REMARKS
AM 447	1-21-77	1902	1,202,221.4	640,828.0	620	617	325-330	2.5	.02	620			
							370-390	4.0	.02	520			
								2.5	.02	305			
								1.0	.02	250			
							390-400	4.0	.02	2500			
							405-415	2.5	.02	340			
							425-435	2.0	.02	270			
							455-460	.5	.02	200			
							575-585	2.5	.02	650			
							585-590	1.0	.02	290			
Am 448	1-22-77	1930	1,201,992.1	641,025.6	720	669	380-385	1.5	.02	435			
							430-450	3.0	.02	375			
								3.5	.02	650			
								.5	.02	220			
							450-460	3.5	.02	1700			
							520-525	.5	.02	225			
							575-580	.5	.02	200			
							640-650	1.5	.02	400			
								1.0	.02	320			
Am 184-C	12-18-76	1982	1,202,002.7	641,224.2	698	698	465-480	4.0	.02	540			
								4.0	.02	750			
								.5	.02	230			
							480-490	3.0	.02	1850			
							495-505	4.0	.02	355			
							520-530	1.0	.02	235			
							550-555	1.0	.02	310			
							645-665	.5	.02	260			
								1.5	.02	290			
							670-675	2.5	.02	820			
							680-685	2.0	.02	430			
								.5	.02	210			
Am 337-C	12-14-76	2013	1,203,155.6	640,994.6	445	445	420-435	7.5	?	3000?			Century Probe
Am 365	1-4-77	1970	1,202,414.6	641,002.3	620	615	390-400	2.5	.02	680			
							435-445	3.5	.02	1150			
							410-415	1.0	.02	260			
							470-475	1.5	.02	415			
							575-585	3.0	.02	475			
							590-600	3.0	.02	650			
Am 366	1-6-77	1961	1,202,202.2	641,167.8	700	696	385-395	2.5	.02	550			
							440-465	4.5	.02	775			
								3.5	.02	725			
								1.0	.02	225			
								3.0	.02	800			
							475-485	.5	.02	200			
								.5	.02	200			
							590-605	.5	.02	235			
								2.5	.02	400			
							585-590	2.0	.02	660			
							625-630	2.5	.02	310			
							650-655	3.5	.02	355			

6 (170)

3805 49706

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	Max CPS	ROCK TYPE	Samples	REMARKS
Am 381	1-4-77	1946	1,202,578.8	640,817.5	580	572	370-375	2.0	.02	425			
							415-440	3.0	.02	1050			
								2.0	.02	500			
								2.0	.02	350			
								3.0	.02	3550			
							455-465	2.0	.02	320			
							480-485	.5	.02	200			
							525-530	2.0	.02	630			
							545-550	1.0	.02	580			
Am 383	1-5-77	1957	1,202,607.9	640,645.4	620	596	430-485	3.5	.02	700			
								.5	.02	230			
								2.0	.02	300			
								6.0	.02	900			
								3.5	.02	310			
								1.5	.02	410			
								.5	.02	200			
							495-500	1.0	.02	225			
							545-555	2.0	.02	315			
Am 390	12-14-76	1916	1,203,796.8	640,435.4	330	310	240-255	7.0	?	2950?			Century Probe
							270-290	15.5	?	3250?			
Am 390-C	12-18-76	1916	1,203,796.8	640,435.4	300	298	245-255	2.5	.02	500			
							275-290	8.0	.02	900			
Am 391	12-14-76	1904	1,203,719.3	640,551.2	320	295	225-240	7.0	?	6200?			Century Probe
Am 412	12-18-76	1802	1,203,675.5	639,829.0	160	161	65-70	1.0	.02	320			
							125-140	8.5	.02	1550			
Am 412-C	12-20-76	1802	1,203,675.5	639,829.0	145	144	125-140	9.0	.02	3700			
Am 431	1-5-77	2055	1,202,378.8	641,812.4	740	728	550-570	7.5	.02	700			
								3.0	.02	680			
							580-595	2.5	.02	640			
								2.5	.02	360			
								2.0	.02	500			
							640-650	1.0	.02	290			
Am 431-C	1-8-77	2055	1,202,378.8	641,812.4	618	618	560-570	4.5	.02	1250			
							575-595	3.0	.02	305			
								2.5	.02	275			
								1.5	.02	340			
								1.5	.02	340			
Am 434	12-21-76	2002	1,202,198.9	637,240.5	600	601	495-500	1.0	.02	315			
							520-540	1.0	.02	325			
								1.0	.02	350			
								4.0	.02	880			
Am 434-C	1-4-77	2002	1,202,198.9	637,240.5	545	545	530-540	1.5	.02	270			
								2.0	.02	355			
Am 435	1-12-77	1797	1,203,552.1	636,549.3	200	200	100-110	5.5	.02	3550			
							125-135	1.0	.02	250			
							175-185	2.5	.02	875			
12 (182)					5158 50864								

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	MaxCPS	Rock TYPE	Samples	REMARKS
Am 436	1-10-77	1938	1,203,983.0	636,232.6	300	300	220-225	2.5	.02	1530			
							270-280	2.0	.02	550			
AM 436-C	1-11-77	1938	1,203,983.0	636,232.6	280	280	220-225	3.0	.02	2950			
							270-280	.5	.02	205			
Am 444	1-7-77	1875	1,202,355.0	640,208.0	600	594	305-310	3.0	.02	660			
							340-350	3.5	.02	630			
							355-360	.5	.02	200			
							385-400	1.5	.02	260			
								2.0	.02	310			
							410-415	1.0	.02	270			
								1.5	.02	400			
							420-430	2.0	.02	475			
							560-570	3.0	.02	680			
Am 444-C	1-12-77	1875	1,202,355.0	640,208.0	575	575	305-315	.5	.02	215			
							340-350	3.0	.02	3000			
							355-360	.5	.02	200			
							365-370	1.5	.02	270			
							385-400	2.0	.02	270			
							410-420	2.0	.02	340			
								.5	.02	220			
								1.0	.02	370			
							420-430	1.5	.02	350			
							500-515	1.5	.02	360			
								1.0	.02	380			
4					1755		560-575	3.0	.02	760			
Am 353	1-31-77	1947	1,202,599.2	641,607.3	540	537	435-465	3.0	.02	1725			
								2.0	.02	320			
								4.5	.02	1760			
								3.0	.02	500			
Am 361	2-2-77	2033	1,201,524.4	642,630.2	800	802	655-660	4.0	.02	395			
							670-680	3.0	.02	330			
							770-780	2.0	.02	880			
Am 429	2-1-77	2058	1,201,464.5	642,984.6	725	723	515-525	2.0	.02	345			
							535-550	7.0	.02	1340			
							560-570	1.5	.02	260			
								1.5	.02	225			
							580-590	5.5	.02	1530			
							715-720	1.5	.02	310			
7 (189)					3820 54684								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	REMARKS
Am 362	2-3-77	2061	1,201,719.4	642,179.5	840	823	535-540	1.0	.02	280			
							575-585	3.0	.02	870			
							595-600	3.5	.02	650			
							615-625	3.5	.02	1350			
							645-655	4.5	.02	530			
							750-755	1.0	.02	260			
							765-775	1.5	.02	375			
Am 357	2-4-77	2040	1,201,986.2	642,203.8	740	735	620-630	6.0	.02	1250			
							675-685	2.5	.02	740			
							700-705	1.0	.02	280			
							715-720	1.5	.02	445			
							730-735	2.5	.02	640			
Am 360	2-6-77	2046	1,202,104.3	642,557.9	760	745	455-465	.5	.02	215			
							515-525	3.0	.02	425			
							530-545	.5	.02	230			
								1.5	.02	240			
								1.5	.02	225			
								1.5	.02	330			
							565-595	.5	.02	235			
								1.0	.02	260			
								1.5	.02	270			
							585-595	7.5	.02	1320			
							600-610	4.5	.02	570			
							665-670	.5	.02	215			
							675-695	6.0	.02	1940			
AM 345	2-6-77	1948	1,202,580.9	641,190.1	575	574	375-390	3.5	.02	850			
								2.5	.02	1290			
							420-430	3.0	.02	900			
							435-445	2.0	.02	600?			
							450-485	1.0	.02	220			
								.5	.02	215			
							455-465	2.5	.02	750			
								1.0	.02	3[illegible]0			
								1.0	.02	360			
								1.0	.02	250			
AM 358	2-7-77	2037	1,202,196.0	642,418.4	700	697	435-450	6.5	.02	680			
							520-525	1.0	.02	250			
							535-550	1.0	.02	270			
								3.0	.02	1300			
							550-560	5.5	.02	355			
								.5	.02	230			
							610-625	2.5	.02	680			
					58299			2.0	.02	600			
							645-650	.5	.02	280			
					3615		650-660	4.0	.02	750			
							660-665	1.5	.02	220			

(194) 5

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	MAX CPS	Rock TYPE	SAMPLES	REMARKS
Am 359	2-8-77	2018	1,202,193.7	642,572.8	680	680	420-430	.5	.02	200			
								2.5	.02	330			
								1.0	.02	260			
							480 sec - 510	10.0	.02	950			
								3.0	.02	450		480-500	
								2.0	.02	375			
								1.0	.02	205			
								1.5	.02	340			
							515-525	.5	.02	215			
							525-540	9.5	.02	770		525-540	
							540-545	.5	.02	210			
							570-575	1.0	.02	310			
							575-585	3.5	.02	2950		575-585	
							610-615	1.0	.02	270			
							620-625	2.0	.02	580		620-625	
Am 349	2-8-77	1977	1,202,392.0	641,399.1	620	619	390-395	1.5	.02	230			
							420-435	4.5	.02	1100		420-435	
								2.5	.02	580			
							435-440	.5	.02	215			
							440-450	6.0	.02	1250		440-450	
							465-470	1.5	.02	360			
								2.0	.02	790		465-470	
							475-480	2.5	.02	320			
							480-485	1.0	.02	220			
Am 356	2-8-77	2044	1,202,205.2	642,005.1	760	761	560-570	1.5	.02	215			
								3.5	.02	1750		560-570	
							580-590	4.5	.02	470			
							600-615	.5	.02	215			
								2.5	.02	390			
							675-685	2.5	.02	680		675-685	
							720-725	.5	.02	260			
								2.0	.02	420			
							735-740	1.0	.02	250			
Am 338	2-14-77	1920	1,203,023.3	641,245.5	435	436	335-340	2.0	.02	1000			
							340-345	1.5	.02	325			
							345-365	14.0	.02	2275			
Am 422-C	2-14-77	1915	1,202,200.8	639,410.1	701	701	405-415	2.0	.02	585			
							435-440	.5	.02	220			
							450-480	15.5	.02	700			
								1.0	.02	275			
					61495		490-500	1.5	.02	330			
(199) 5							515-520	.5	.02	240			
					3196		525-530	1.0	.02	300			
							555-560	.5	.02	215			
							565-570	.5	.02	220	655-670	1.5 .02 420	
												2.5 .02 720	

Hole Number	DATE	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	REMARKS
AM 355	2-14-77	2035	1,202,185.1	641,818.7	695	695	535-540	1.0	.02	250			
							630-635	1.5	.02	360			
							665-675	1.0	.02	275			
AM 372	2-15-77	1996	1,203,196.1	640,608.9	520	488	390-400	4.5	.02	900			
							445-475	4.0	.02	1050			
								3.5	.02	1050			
								3.0	.02	600			
								1.5	.02	490			
								3.0	.02	620			
AM 380	2-17-77	1983	1,203,180.9	640,220.9	485	485	370-380	3.0	.02	540			
							405-420	3.5	.02	450			
								3.0	.02	1975			
							425-430	1.5	.02	420			
							430-455	17.5	.02	3000			
								5.0	.02	575			
AM 427-C	2-18-77	2078	1,201,595.9	643,387.1	787	786	545-580	1.0	.02	310			
								6.5	.02	1480			
								2.0	.02	480			
								2.5	.02	425			
								7.0	.02	1725			
							590-605	.5	.02	250			
								.5	.02	240			
								2.5	.02	660			
							645-650	.5	.02	205			
							660-665	1.5	.02	385			
AM 363	2-18-77	2041	1,201,797.6	642,023.6	780	780	535-555	3.5	.02	1625			
								1.5	.02	275			
								2.5	.02	360			
								.5	.02	220			
							555-565	3.5	.02	1880			
							570-575	3.0	.02	350			
							580-585	2.0	.02	500			
							590-595	.5	.02	240			
							720-730	1.5	.02	900			
							750-755	1.5	.02	310			
AM 364	2-18-77	2029	1,202,013.0	641,807.4	820	818	450-460	1.5	.02	630			
							500-520	3.5	.02	620			
								1.0	.02	250			
								3.0	.02	500			
							525-530	2.5	.02	1560			
							560-565	.5	.02	250			
							720-735	1.0	.02	320			
								1.5	.02	260			
								3.5	.02	560			
6 (205)					4087								
					65582								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	REMARKS
AM 384	2-18-77	1937	1,202,798.4	640,181.3	560	553	360-370	2.5	.02	825			
							390-405	6.5	.02	2300			
							415-425	4.0	.02	2070			
							~~435-445~~ 435-445	2.5	.02	330			
								2.0	.02	285			
							445-455	4.5	.02	540			
AM 486	2-19-77	2002	1,201,813.8	641,798.4	780	729	440-450	1.0	.02	260			
								3.0	.02	620			
							490-505	2.5	.02	480			
								2.5	.02	405			
							510-515	2.5	.02	1825			
							520-530	2.0	.02	225			
							545-555	1.5	.02	300			
							670-680	1.0	.02	305			
								.5	.02	235			
							690-695	2.0	.02	550			
AM 398	2-20-77	1917	1,203,376.5	640,034.5	385	383	265-275	3.5	.02	530			
							325-340	3.5	.02	3060			
								3.0	.02	1300			
AM 354	2-20-77	1977	1,202,216.9	641,577.5	680	681	390-400	3.5	.02	520			
							435-450	2.5	.02	750			
								.5	.02	225			
								3.5	.02	340			
							450-470	3.5	.02	1850			
								1.0	.02	260			
								5.5	.02	560			
							470-480	3.0	.02	560			
							490-495	.5	.02	250			
							505-510	.5	.02	215			
							575-580	1.5	.02	575			
							635-650	.5	.02	200			
								3.0	.02	610			
								1.5	.02	530			
AM 385	2-21-77	1911	1,202,942.5	640,088.2	490	487	330-340	5.0	.02	6730			
							355-370	7.5	.02	1120			
							370-380	1.5	.02	300			
							380-395	5.5	.02	675			
							395-400	1.0	.02	255			
							410-420	5.0	.02	720			
5 (210)					2895								

6-4-77

Hole Number	DATE	ELEV	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
Am 449	2-21-77	1874	1,202,189.1	640,026.8	640	637	335-340	.5	.02	215			
							390-400	2.0	.02	330			
								1.5	.02	320			
								.5	.02	200			
								10.0	.02	390			
								.5	.02	240			
							435-450	.5	.02	220			
								3.0	.02	365			
							455-465	1.5	.02	370			
							545-555	1.5	.02	290			
							590-600	1.0	.02	320			
								1.5	.02	250			
Am 450	2-22-77	1888	1,202,198.5	640,200.7	640	640	370-405	4.0	.02	350			
								1.0	.02	220			
								9.5	.02	395			
								1.5	.02	300			
								1.5	.02	230			
							445-455	2.0	.02	365			
							540-545	1.5	.02	290			
							595-610	.5	.02	230			
					~~128~~			1.5	.02	310			
Am 377	2-28-77	1988	1,202,998.4	640,775.6	590	590	420-425	3.0	.02	1225			
							465-475	3.0	.02	1780			
							475-490	3.5	.02	1410			
							490-505	3.0	.02	330			
								7.0	.02	675			
Am 386	3-1-77	2006	1,203,004.1	640,952.4	560	558	480-490	3.0	.02	700			
							490-500	3.0	.02	290			
Amw41	3-1-77	1891	1,202,602.1	640,194.2	560	552	345-355	1.5	.02	1460			
							355-365	2.0	.02	260			
							365-375	5.0	.02	960			
							385-390	.5	.02	200			
							405-415	1.5	.02	340			
							415-420	1.5	.02	290			
Am 376	3-2-77	2006	1,203,399.5	640,418.0	480	481	360-375	6.0	.02	1120	540-545	2.0	.02 320
							395-420	19.0	.02	2950			
							420-430	3.0	.02	640			
Am 442	3-2-77	1891	1,202,627.5	639,974.7	560	558	330-345	.5	.02	220			
							365-375	3.0	.02	1040			
							380-390	1.5	.02	360			
							420-425	1.0	.02	280			
							510-520	1.5	.02	410			
7 (217)					4030 72507								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
Am 413	3-3-77	2008	1,203,505.2	640,486.9	440	435	365 – 400	3.5	.02	1125			
								2.0	.02	400			
								2.5	.02	2175			
								5.5	.02	4150			
								5.5	.02	2300			
Am 374	3-3-77	2019	1,203,597.0	640,226.9	440	440	385 – 400	2.0	.02	560			
								4.5	.02	1200			
Am 378	3-3-77	1948	1,202,960.4	640,191.0	515	515	375 – 385	3.5	.02	2240			
							395 – 405	3.0	.02	1225			
							410 – 420	3.0	.02	490			
							420 – 425	1.5	.02	325			
							425 – 435	6.0	.02	1325			
							450 – 460	8.0	.02	900			
Am 373	3-4-77	2027	1,203,784.7	640,176.4	420	414	325 – 335	3.0	.02	520			
							370 – 385	8.0	.02	1020			
								.5	.02	280			
Am 371	3-5-77	2008	1,203,394.5	640,589.9	480	476	405 – 415	6.5	.02	1560			
							420 – 450	22.0	.02	1800			
Am 379	3-5-77	1973	1,203,019.4	640,400.2	540	540	395 – 410	6.5	.02	2830			
							425 – 485	1.5	.02	240			
								5.0	.02	270			
								1.0	.02	215			
								4.5	.02	475			
								6.0	.02	1400			
								4.5	.02	840			
								1.0	.02	350			
								4.0	.02	2075			
								7.5	.02	750			
Am 334	3-6-77	1844	1,203,397.7	641,201.1	330	327	295-300 mineralized			160			
Am 375	3-6-77	2005	1,203,398.6	640,208.0	440	438	355 – 365	3.5	.02	2520			
							385 – 390	.5	.02	250			
							405 – 425	14.0	.02	2300			
Am 394	3-6-77	1830	1,204,166.5	640,388.3	105	105	60 – 65	3.0	.02	1880			
Am 395	3-6-77	1819	1,204,006.4	640,611.9	110	100	60 – 70	4.0	.02	840			
							70 – 75	.5	.02	200			
							75 – 80	.5	.02	215			
Am 402	3-6-77	1857	1,203,522.0	640,973.3	285	278	235 – 245	1.0	.02	250			
Am 488	3-1-77	1674	1,205,403.2	638,046.2	300+100	296	BARREN						
Am 489	3-2-77	1683	1,205,424.5	638,461.5	165+75	164	BARREN						
Am 490	3-3-77	1725	1,207,303.7	643,042.0	200	199	BARREN						
Am 491	3-3-77	1704	1,207,326.7	642,573.0	160	162	BARREN						
15 (232)					5105	17612							

te	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	MAX CPS
3-77	1699	1,207,407.3	642,739.5	360	358	B A R R E N			
3-77	1780	1,204,618.0	647,799.9	180+100	178	B A R R E N			
3-77	1807	1,203,702.9	648,042.9	80	79	B A R R E N			
-77	1592	1,205,279.4	632,283.2	255	252	B A R R E N			
-77	1535	1,205,371.9	630,524.3	170	170	B A R R E N			
-77	1979	1,202,784.5	641,035.8	620	602	230-240	2.0	.02	470
						500-515	2.5	.02	610
							2.0	.02	300
							2.5	.02	260
-77	1908	1,202,796.8	640,617.2	540	537	340-355	4.0	.02	1020
							.5	.02	260
						375-385	3.5	.02	3070
						390-400	3.5	.02	1580
							2.5	.02	630
						405-415	4.0	.02	2000
						425-435	3.5	.02	320
						435-445	4.5	.02	915
-77	1896	1,203,994.9	640,173.4	255	249	B A R R E N			
-77	1860	1,203,858.1	639,845.9	240	235	125-135	5.0	.02	8500
						180-195	2.5	.02	1070
							2.0	.02	360
							3.0	.02	615
-77	1781	1,203,797.9	639,606.2	135	134	35-45	4.0	.02	805
-77	1986	1,202,569.0	638,783.8	605	604	485-490	.5	.02	210
						550-560	1.0	.02	275
							1.0	.02	340
						565-570	3.0	.02	425
77	1774	1,203,393.3	639,762.4	200	196	~~565-570~~ 85-95	2.5	.02	335
						155-170	6.5	.02	2220
							2.5	.02	260
-77	1778	1,203,216.2	639,768.3	280	276	145-165	.5	.02	225
							4.0	.02	1775
							2.0	.02	450
						220-235	5.5	.02	2600
-77	1910	1,202,939.7	639,266.1	460	459	355-375	3.5	.02	450
							1.5	.02	240
							6.0	.02	580
						425-435	3.5	.02	1350
				4480					
				82092					

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	cutoff	Max CPS	Rock Type	Samples	Remarks
AM406	3-8-77	1918	1,202,814.6	638,996.1	500	491	390-410	5.5	.02	430			
								7.5	.02	850			
							425-430	.5	.02	205			
							435-445	2.0	.02	335			
							460-465	1.0	.02	280			
AM407	3-9-77	1935	1,202,990.0	638,781.2	400	394	BARREN						Faulted off
AM403	3-14-77	1893	1,202,977.5	639,480.1	465	460	340-355	12.5	.02	1250			
							390-400	3.5	.02	750			
							400-430	8.5	.02	2350			
								16.5	.02	1200			
AM414	3-14-77	1938	1,202,796.4	638,622.9	455	453	390-410	1.0	.02	210			
								.5	.02	225			
								5.0	.02	820			
AM418	3-14-77	1936	1,202,606.1	638,992.8	620	614	445-460	5.5	.02	1060			
							460-465	1.5	.02	260			
							495-510	3.5	.02	500			
								3.0	.02	640			
							520-525	1.5	.02	520			
							545-560	13.0	.02	2600			
								2.5	.02	540			
								.5	.02	225			
AM443	3-14-77	1807	1,202,577.8	639,632.0	520	507	275-285	1.5	.02	330			
							320-330	2.0	.02	890			
								2.5	.02	650			
								1.0	.02	300			
							335-350	5.0	.02	1050			
								3.0	.02	1250			
							355-365	2.5	.02	1000			
							370-380	4.0	.02	590			
							400-410	2.0	.02	550			
AM410	3-15-77	1752	1,203,592.3	639,388.8	105	105	BARREN						
AM424	3-15-77	1899	1,202,609.0	639,206.6	600	599	405-420	3.5	.02	670			
								.5	.02	230			
								.5	.02	225			
								.5	.02	210			
							490-500	4.5	.02	1000			
								1.0	.02	220			
							505-520	4.0	.02	520			
								2.5	.02	390			
8 (254)					3655 85757								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
AM 487	3-15-77	1819	1,202,383.0	639,752.4	505	497	285-290	3.5	.02	1725			
							310-325	10.5	.02	1075			
							330-335	2.0	.02	350			
							335-360	7.5	.02	410			
								1.0	.02	240			
								1.5	.02	270			
								1.0	.02	215			
								.5	.02	200			
							360-375	9.5	.02	960			
							380-395	3.5	.02	315			
								2.5	.02	930			
AM 400	3-16-77	1928	1,203,217.0	639,443.5	300	284	185-195	2.0	.02	540			
							255-270	9.0	.02	1500			
AM 408	3-16-77	1839	1,203,423.9	639,206.3	150	148	B	A R	R E	N			
AM 409	3-16-77	1802	1,203,422.7	639,384.4	180	178	B	A R	R E	N			
AM 419	3-16-77	1940	1,202,435.1	639,026.2	640	638	450-460	1.5	.02	620			
							495-505	2.5	.02	940			
							515-525	7.0	.02	1675			
							535-540	1.0	.02	300			
							545-550	2.0	.02	410			
							560-570	2.0	.02	560			
							570-580	2.0	.02	375			
AM 376	3-17-77	1770	1,203,352.2	639,629.9	165	165	75-85	2.0	.02	1100			
							130-150	1.5	.02	275			
								.5	.02	215			
								2.0	.02	780			
AM 425	3-17-77	1898	1,202,579.5	639,368.5	705	704	370-390	4.5	.02	1450			
								2.0	.02	350			
							410-435	16.0	.02	500			
							455-465	3.5	.02	1250			
							475-480	1.0	.02	230			
							485-495	3.5	.02	280			
							565-575	1.5	.02	250			
AM 485	3-17-77	1960	1,204,140.8	636,132.6	255	240	210-225	1.5	.02	325			
								3.5	.02	540			
AM 479	3-18-77	1997	1,204,051.6	636,622.6	380	375	295-305 mineralized	mineralized					
AM 480	3-18-77	1886	1,204,216.7	635,968.5	165	162	80-105	mineralized					
AM 481	3-18-77	1894	1,203,675.8	636,016.9	210	210	110-120	4.0	.02	520			
11					3655								
(265)					89412								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
AM 420	3-19-77	1915	1,202,217.1	638,961.2	680	684	435-445	3.5	.02	1425			
							475-480	1.0	.02	215			
							490-505	7.0	.02	780			
								.5	.02	200			
							520-535	3.0	.02	630			
								4.0	.02	850			
							540-550	.5	.02	200			
								.5	.02	205			
								.5	.02	225			
AM 482	3-19-77	1786	1,203,600.7	635,802.9	105	105	5-15	mineralized		160			
AM 474	3-19-77	1702	1,203,205.2	636,191.2	75	75	40-55	9.0	.02	900			
							55-70	7.0	.02	1375			New Probe
AM 477	3-19-77	1734	1,203,436.6	636,881.3	210	210	110-120	5.5	.02	725			
							150-165	.5	.02	200			New Probe
								1.5	.02	230			
							165-175	3.0	.02	940			
								1.0	.02	250			
AM 423	3-20-77	1902	1,202,429.4	639,278.3	660	658	405-420	3.5	.02	1050			
								5.0	.02	330			
							440-460	16.5	.02	1250			
							460-480	16.0	.02	1850			
							485-500	8.0	.02	2600			New Probe
							505-510	3.5	.02	600			
							510-550	4.5	.02	1800			
								2.0	.02	450			
								3.5	.02	575			
								1.5	.02	250			
								5.5	.02	400			
								7.5	.02	1050	605-625	4.0 .02	300
												8.0 .02	920
AM 475	3-20-77	1795	1,203,436.1	636,006.7	120	115	5-15	4.5	.02	2600			
							40-50	2.0	.02	250			New Probe
							70-80	2.0	.02	350			
							85-100	13.0	.02	2900			
AM 483	3-20-77	1839	1,203,803.5	635,766.1	145	135	10-20	3.5	.02	580			New Probe
AM 484	3-20-77	1862	1,203,989.4	635,811.7	145	143	60-85	18.0	.02	7300			
							120-130	4.5	.02	2400			
AM 476	3-20-77	1748	1,203,394.1	636,381.6	180	175	80-140	6.5	.02	600			New Probe
							90-100	17.0	.02	900			
								6.0	.02	400			
							120-140	14.5	.02	6000			
9 (274)					2320 91732								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	Remarks
AM405	3-21-77	1906	1,202,863.3	639,377.5	520	520	370-380	5.5	.02?	4250			New Probe
							430-445	5.0	.02?	8700			
							450-470	11.0	.02?	2900			
AM421	3-21-77	1903	1,202,171.9	639,220.3	700	705	415-420	3.0	.02?	1400			New Probe
							445-460	1.5	.02	240			
								2.0	.02	2000			
							460-485	2.0	.02	500			
								9.0	.02	1500			
								1.5	.02	210			
							495-515	11.5	.02	4000			
							520-530	2.0	.02	350			
							530-535	3.5	.02	1850			
							560-575	2.5	.02	260			
								1.0	.02	225			
							610-615	1.5	.02	300			
							660-675	1.5	.02	290			
								2.0	.02	380			
AM470	3-21-77	1709	1,202,612.1	636,601.7	225	224	110-120	.5	.02	200			New Probe
							125-135	5.0	.02	350			
							145-155	4.5	.02	3000			
							155-165	5.0	.02	3600			
							170-175	2.0	.02	340			
AM471	3-21-77	1701	1,202,974.5	636,617.6	210	210	60-65	1.5	.02	360			New Probe
							70-75	.5	.02	220			
							85-90	.5	.02	220			
							100-120	5.5	.02	750			
								2.5	.02	1250			
								6.5	.02	430			
							140-155	7.5	.02	1950			
AM472	3-21-77	1955	1,203,102.7	636,277.3	80	79	25-40	9.0	.02	2150			New Probe
							45-50	1.5	.02	390			
AM473	3-21-77	1667	1,203,144.0	636,609.3	120	120	5-15	2.5	.02	410			New Probe
								1.0	.02	250			
							20-25	1.0	.02	240			
							35-40	1.5	.02	340			
							50-75	18.0	.02	1500			
							85-90	1.5	.02	380			
							90-100	4.5	.02	3000			
AM401	3-22-77	1906	1,203,235.0	639,020.7	300	300	B A R R E N						New Probe Faulted Out
					2155								
(281)					93887								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock Type	Samples	Remarks
Am 467	3-22-77	1808	1,202,415.9	636,613.8	225	224	100-105	2.0	.02	260			New Probe
							115-120	1.0	.02	230			Mineralized
							120-125	.5	.02	200			
Am 468	3-22-77	1818	1,202,585.8	636,792.2	390	389	235-245	6.5	.02	1075			New Probe
							245-255	2.0	.02	360			
							260-270	.5	.02	230			
							270-280	4.5	.02	1200			
							290-300	1.0	.02	260			
								1.5	.02	260			
							310-320	7.0	.02	1375			
							320-330	2.0	.02	370			
Am 416	3-23-77	1963	1,202,588.3	638,623.1	620	608	450-455	2.0	.02	250			New Probe
							480-490	4.5	.02	1250			
							520-540	11.5	.02	1200			
								.5	.02	230			
								.5	.02	210			
Am 466 (285) 4	3-23-77	1857	1,202,210.5	636,808.5	315 1550	313 95437	B A R R E N						
Am 417	3-28-77	1984	1,202,388.9	638,606.2	660	658	515-525	1.5	.02	355			
							545-560	2.0	.02	315			
								2.0	.02	325			
							575-590	3.5	.02	440			
								2.5	.02	320			
							595-605	2.5	.02	1300			
							605-620	4.0	.02	500			
								1.5	.02	240			
Am 464	3-28-77	1849	1,202,611.0	637,028.6	480	476	300-315	.5	.02	220			
								3.5	.02	380			
							340-345	1.5	.02	330			
							375-380	2.5	.02	510			
							385-395	3.0	.02	725			
							395-405		.02	750			
Am 469	3-28-77	1792	1,202,571.8	636,640.0	345	345	170-175	1.0	.02	215			
							180-185	.5	.02	225			
							190-195	1.0	.02	250			
								1.0	.02	275			
							195-200	1.5	.02	330			
							200-205	1.0	.02	270			
							210-220	3.5	.02	775			
								1.0	.02	300			
							245-255	1.5	.02	310			
7 288					3035 96922								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	Remarks
AM451	3-29-77	1948	1,202,390.6	638,216.4	660	660	555-565	4.0	.02	550			
							580-590	4.5	.02	725			
AM 462	3-29-77	1763	1,203,364.6	637,140.4	255	255	195-200	.5	.02	250			
							235-240	1.0	.02	260			
AM 463	3-29-77	1758	1,203,016.7	636,989.6	300	300	180-190	2.0	.02	975			
							200-210	.5	.02	210			
							220-230	5.0	.02	1000			
								.5	.02	230			
							260-270	2.5	.02	620			
AM 503	3-29-77	1893	1,200,230.9	634,479.8	815	824	B A R R E N						
Am 453	3-30-77	2006	1,202,201.4	638,007.0	740	735	560-575	mineralized		110			
							600-620	Mineralized		140			
							630-640	3.0	.02	590			
							660-665	2.5	.02	350			
AM 497	3-30-77	1825	1,201,616.6	635,796.1	170	170	B A R R E N						
AM 502	3-30-77	1790	1,199,893.5	635,470.0	515	515	170-180	1.0	.02	230			
AM 504	3-30-77	1852	1,198,955.9	635,388.9	1040	1047	735-750	Mineralized		105			
AM 433	3-31-77	1988	1,201,812.1	637,244.0	580	578	360-370	6.5	.02	600			
							435-445	1.5	.02	290			
AM 499	3-31-77	1737	1,200,843.3	634,723.3	285	284	10-20	.5	.02	100			
AM 505	3-31-77	1906	1,198,416.0	636,388.8	800	828	650-660	1.5	.02	340			
AM 432	4-1-77	1983	1,202,006.8	637,204.6	540	540	355-360	1.0	.02	260			
							365-375	1.5	.02	290			
							375-380	1.5	.02	375			
							380-390	4.0	.02	1060			
							400-410	3.5	.02	630			
							420-430	2.5	.02	525			
							435-445	3.5	.02	1300			
AM 500	4-1-77	2007	1,200,820.1	635,712.2	740	732	380-390	Mineralized		125			
AM 461	4-2-77	2066	1,200,193.7	637,167.9	820	822	640-650	4.0	.02	720			
AM 501	4-2-77	1996	1,200,621.0	635,857.1	660	664	B A R R E N						
AM 460	4-3-77	1989	1,200,351.7	637,233.0	860	861	620-635	2.0	.02	650			
								3.0	.02	750			
							815-825	3.0	.02	340			
AM 498	4-3-77	1788	1,201,443.8	633,529.6	525	523	B A R R E N						
AM 446	4-4-77	1984	1,201,234.5	637,205.6	780	778	525-535	.5	.02	215			
								2.0	.02	925			
							550-560	1.5	.02	420			
Am 459	4-4-77	2026	1,200,597.6	637,206.9	820	827	650-665	5.5	.02	1925			
Am 458	4-5-77				760	720	525-535	2.0	.02	730			
							545-555	4.5	.02	2175			
20 308					12665								
					109,587								

Hole Number	Date	Elev	Location N	Location E	Depth Drilled	Depth Probed	Mineral Zones	Thickness	Cutoff	Max CPS	Rock TYPE	Samples	Remarks
Am 478	4-5-77	1967	1,199,800.3	637,218.9	760	761	B	A R	R E	N			
Am 445	4-6-77				780	769	545-555	2.5	.02	305			
							570-580	1.5	.02	460			
								2.0	.02	1000			
Am 454 310	4-11-77				620	615	500-505	.5	.02	220			
							530-535	2.0	.02	250			
							540-550	5.0	.02	1020			
							560-565	1.0	.02	260			
							570-575	.5	.02	230			
Am 452	4-12-77				620	612	500-510	2.0	.02	400			
							515-525	1.5	.02	330			
							560-565	.5	.02	210			
							565-570	2.0	.02	210			
							570-58	5.0	.02	625			
Am 465	4-12-77				570	567	405-410	.5	.02	230			
							410-415	.5	.02	210			
							475-485	2.5	.02	1180			
								.5	.02	220			
							490-500	3.5	.02	380			
							505-515	3.5	.02	280			
Am 455	4-13-77				645	636	460-470	.5	.02	210			
							520-525	2.0	.02	430			
							525-530	1.5	.02	470			
							530-545	1.5	.02	340			
								1.0	.02	225			
								1.5	.02	235			
							560-575	2.0	.02	290			
								1.5	.02	240			
								1.0	.02	225			
Am 456	4-13-77				620	618	460-470	1.5	.02	390			
								1.0	.02	230			
							470-480	2.5	.02	440			
							505-510	.5	.02	210			
								1.5	.02	260			
							510-520	1.0	.02	350			
							520-525	3.5	.02	575			
Am 244-c	4-14-77				210 (60)	200	75-80	1.5	.02	420			
Am 279	4-14-77				285 (60)	273	50-60	4.5	.02	1000			
								3.0	.02	560			
							150-165	7.5	.02	750			
							165-170	1.5	.02	300			
								.5	.02	215			
							195-200	1.0	.02	250			
7+2 315					4755								
					114 342								

438

184C

207	241	275C	309	343	377	411	445	479
208	242	276	310	344	378	412C	446	480
209	243	277	311	345	379	413	447	481
210	244C	278	312	346	380	414	448	482
211	245	279	313	347	381	415	449	483
212	246	280	314	348	382	416	450	484
213	247	281	315	349	383	417	451	485
214	248	282	316	350	384	418	452	486
215	249	283	317	351	385	419	453	487
216	250	284	318	352	386	420	454	488
217	251	285	319	353	387	421	455	489
218	252	286	320	354	388	422-D	456	490
219	253	287	321	355	389	423	457	491
220 Not Used	254C	288	322	356	390C	424	458	492
221	255	289C	323	357	391	425	459	493
222C	256	290	324	358	392	426	460	494
223 Not Used	257	291	325	359	393	427C	461	495
224	258	292	326	360	394	428	462	496
225	259	293	327	361	395	429	463	497
226	260	294	328	362	396	430	464	498
227	261	295	329	363	397	431C	465	499
228	262	296	330	364	398	432	466	500
229C	263	297	331	365	399	433	467	501
230	264	298	332	366	400	434C	468	502
231	265	299	333	367	401	435C	469	503
232	266	300	334	368	402	436C	470	504
233	267	301	335	369	403	437	471	505
234 Found?	268	302	336	370	404	438	472	506
235	269	303	337C	371	405	439	473	507
236	270	304	338	372	406	440	474	508
237	271	305	339	373	407	441	475	509 513
238	272	306	340	374	408	442	476	510 514
239	273C	307	341	375	409	443	477	511 515
240	274C	308	342	376	410	444C	478	512