0410 0067

CLAIM APPRAISAL FOR THE AURORA PARTNERSHIP

Aurora, Nevada

Prepared for MINEREX RESOURCES LTD.

December 1987

WHITNEY & WHITNEY, INC.
CONSULTANTS FOR MINING INDUSTRY

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Claim Appraisal for The Aurora Partnership

Aurora, Nevada

Prepared For:
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December 1987

FIGURES

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PLATES

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Introduction

The Aurora Project is located in the Aurora mining district, Section 17 T5N, R28E, Mineral County, Nevada (Figure 1). The area is at a nominal elevation of 7200 feet. The climate is semi-arid, with warm summers and cold winters. The Aurora Partnership is managed and operated by Minerex Resources Ltd. Claims owned by the Aurora Partnership are the Mida, Humboldt East, Curry #2 (known collectively as the Silver Lining which abutt the Victor claim) and leased from Siskon Corporation subject to royalty; the Humboldt, Humboldt West, Astor, Alice a Dennis fraction, and Interprice fraction. The Aurora Partnership also leases subject to royalty the Belle Weather patented claim which abutts the eastern edge of the Victor claim (Figure 2), as well as the northern end of the Hilton Fee land for access and parking. In addition the Aurora Partnership also holds an extensive number of unpatented claims in the immediate area namely the Marcia claims (Figure 2). The Aurora Partnership has begun open pit mining on the Humboldt East claim, with final pit limits which will include portions of the Humboldt East, Mida, Humboldt, Humboldt West and Victor claims. The Victor claim is currently leased by Nevada Goldfields, Inc. with the underlying owner being Siskon Corp.

Summary of Conclusions

On November 18 through 20, 1987, John W. Whitney, mineral economist, William A. Fuchs, geologist, and Peter E. Lenz, mine engineer, made a site visit to the Aurora Partnership property. Based on the site visit, data collected, and an office review the following conclusions have been reached:

1. There is gold mineralization to the planned 6980-foot elevation bottom of the pit, and it is economic to mine and process at present prices under the proposed mine design.
2. It is technically impossible to open pit mine to the 6980 level without removing a portion of the Victor claim that is within the pit limits.
3. There is no known evidence of economic mineralization on the Victor claim, that apexes on the Victor claim.
4. Due to the absence of any surface sampling or drilling information, it is impossible to place a discrete mineral value on the Victor claim at this time.

Problem Description

The Aurora Partnership has defined open pit mineable reserves of over 1,900,000 tons grading 0.094 ounces per ton gold. A pit design has been formulated which will result in pit slopes of 50°, a 5.2 to 1 stripping ratio, and a final pit approximately 1500 feet long, 600 feet wide, and 300 feet deep. In order to mine the deposit to economical limits, it has been necessary to include a portion of the Victor claim in the final pit limits. The Victor claim is leased by Nevada Goldfields with lessor being Siskon Corp. Although the Aurora Partnership has inquired about making an arrangement with Nevada Goldfields regarding the Victor claim, negotiations have not yet succeeded. Whitney & Whitney, Inc. has been asked to investigate the situation and if possible place a value on the Victor claim. The results of this study will be used to assist in negotiations between the Aurora Partnership and Nevada Goldfields. In compliance with this task, Whitney & Whitney, Inc. has performed an on-site investigation covering geology, ore reserves, and the technical and economic feasibility of the proposed open pit.

The purpose of this review is two-fold: (1) to confirm that the pit design presently in use is the most efficient for extraction of the defined ore, and that with this design, removal of a

Figure 2. Claim Map of the Aurora Property

small portion of material contained on the Victor claim is necessary, and (2) to place a value on the Victor claim if possible.

Geology

The Aurora mining district lies in the northwest-trending Walker Lane belt of right-lateral strike slip faulting and within a broad regional N 60-65° E trending upwarp that extends through the mining districts of Bodie, Borealis, and the Lucky Boy mine. Figure 3 shows the general geology of the Aurora area.

The oldest volcanics are the Aurora Volcanics, 11.2-15.4 million-year-old andesitic (to latitic) agglomerates and flows, which unconformably overlie Mesozoic basement granite and metavolcanics. This unit is the host to the epithermal precious metal mineralization of the district, which has been dated at 10.3 million years. Above the Aurora Volcanics are the Bodie Canyon Volcanics, which consist of rhyolite flows, tuffs, and domes dated at 9.9-11.0 million years. This unit does not host the major veins of the district, but some of the rocks are pre-mineral and contain quartz stringer mineralization. The youngest volcanic in the district is a 0.25 million-year-old basalt.

The two major vein systems of the northern part of the district are the Wide West-Juniata and the Prospectus-Humboldt. Both have been offset right-laterally by the Prospectus fault. The Aurora Partnership is currently mining on the Humboldt vein system within the Humboldt East patented mining claim owned by the Partnership. Although historically relatively unproductive on the easternmost end, recent exploration found that barren surface exposures of the Humboldt did give some locally high assays. Subsequent drilling of over 120 holes found that the vein turned into ore at depth with an average ore thickness of perhaps 50 feet and occasional zones over 100 feet. Banded quartz-adularia veining represents higher grade material, with the ore minerals being electrum, acanthite, and naumannite (a silver selenide). The ore lies in intensely propylitically altered andesite. The vein dips an average of 80° to the north and has a sharp footwall, but a diffuse hanging-wall. There has been post-mineral regional tilting in this part of the district of at least 20° north, so that, upon formation, the hanging wall would have more clearly been a true hanging wall. An intense argillic zone lies in the hanging wall, but appears to be more closely related to the rhyolite contact than to the vein. Argillization is also found along the vein. Sulfide content in the vein is low, reaching a maximum of perhaps 2% pyrite in some adjacent argillized andesite. There are two separate economic vein zones, one on the footwall and one located more into the hanging wall. At various places one or the other is richer, and in places the two join together.

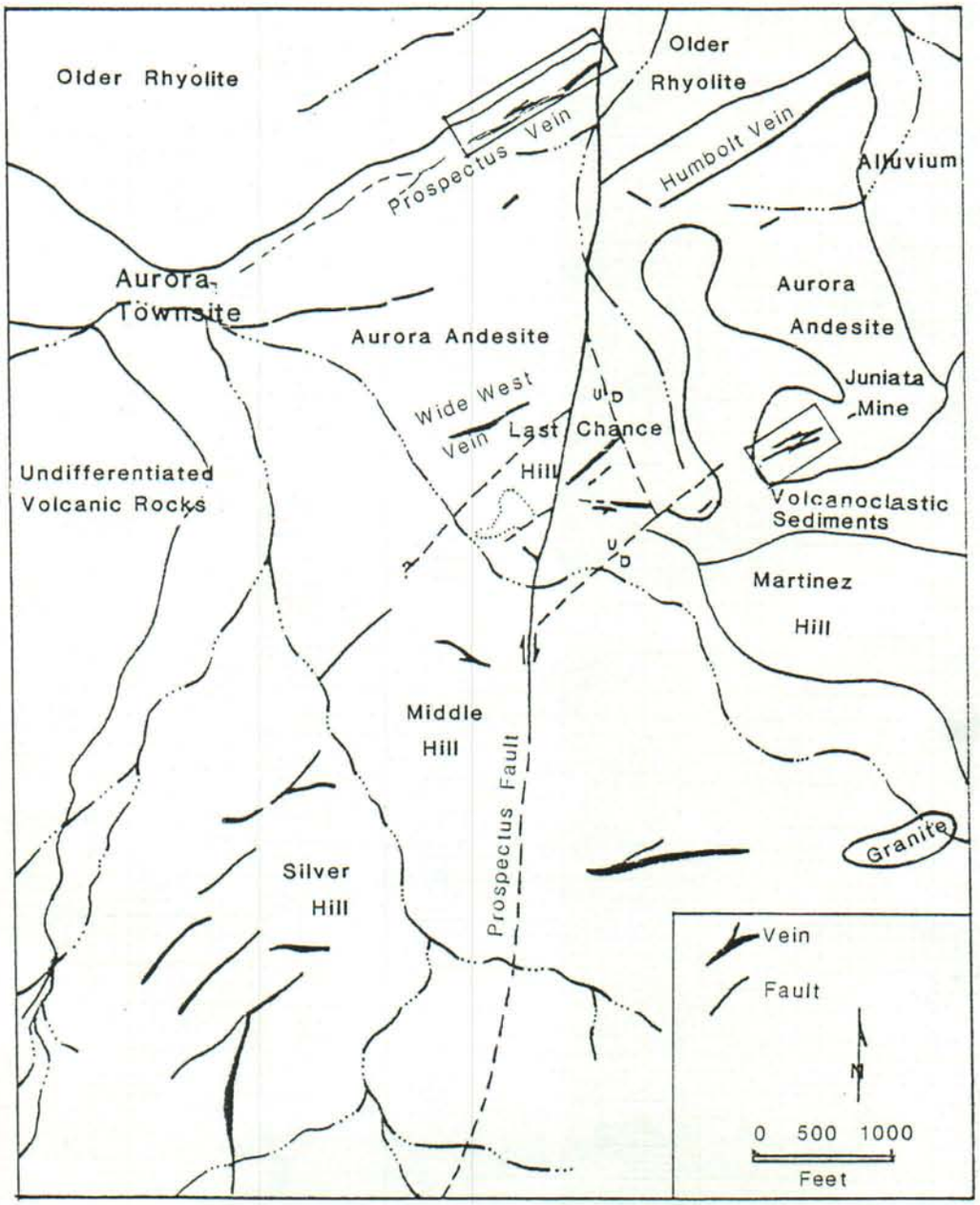
There is stringer chalcedony-quartz veining within rhyolite intrusive along the contact zone. This is evident from drilling and on the surface.

Whitney & Whitney, Inc.'s geological investigation focused on the following points:

1) Does drilling evidence support the Aurora Partnership's concept of economic gold mineralization to the depth of the currently planned pit (elevation 6980 feet)?
2) Is there evidence of economic mineralization on the Victor claim, either that apexes on the Aurora Partnership property or which apexes within the Victor claim?

On the first point, <u>there is clearly strong gold mineralization to the planned 6980-foot elevation bottom of the pit</u>. The report section below on Mine Plan will show that this mineralization is in fact economic. Cross sections which best show the deeper gold mineralization are sections 325, 725, and 1025. On section 325, drill holes AR-6, AR-35, and RC 86-27 prove a 90-foot true thickness zone averaging 0.10 oz Au/ton. Hole Ar-35 extends down to 6976

Figure 3. Generalized Geologic Map of the Aurora District



feet elevation in ore. Assays for this hole are given in Appendix A. Location of cross sections with respect to the claim boundaries is given in Figure 4.

On section 725, drill holes RC 86-24 and RC 86-25 prove a 60-foot true thickness zone averaging between 0.09 and 0.10 oz Au/ton. Hole RC 86-25 extends down to 6944 feet elevation in ore. Section 725 is shown as Plate 1.

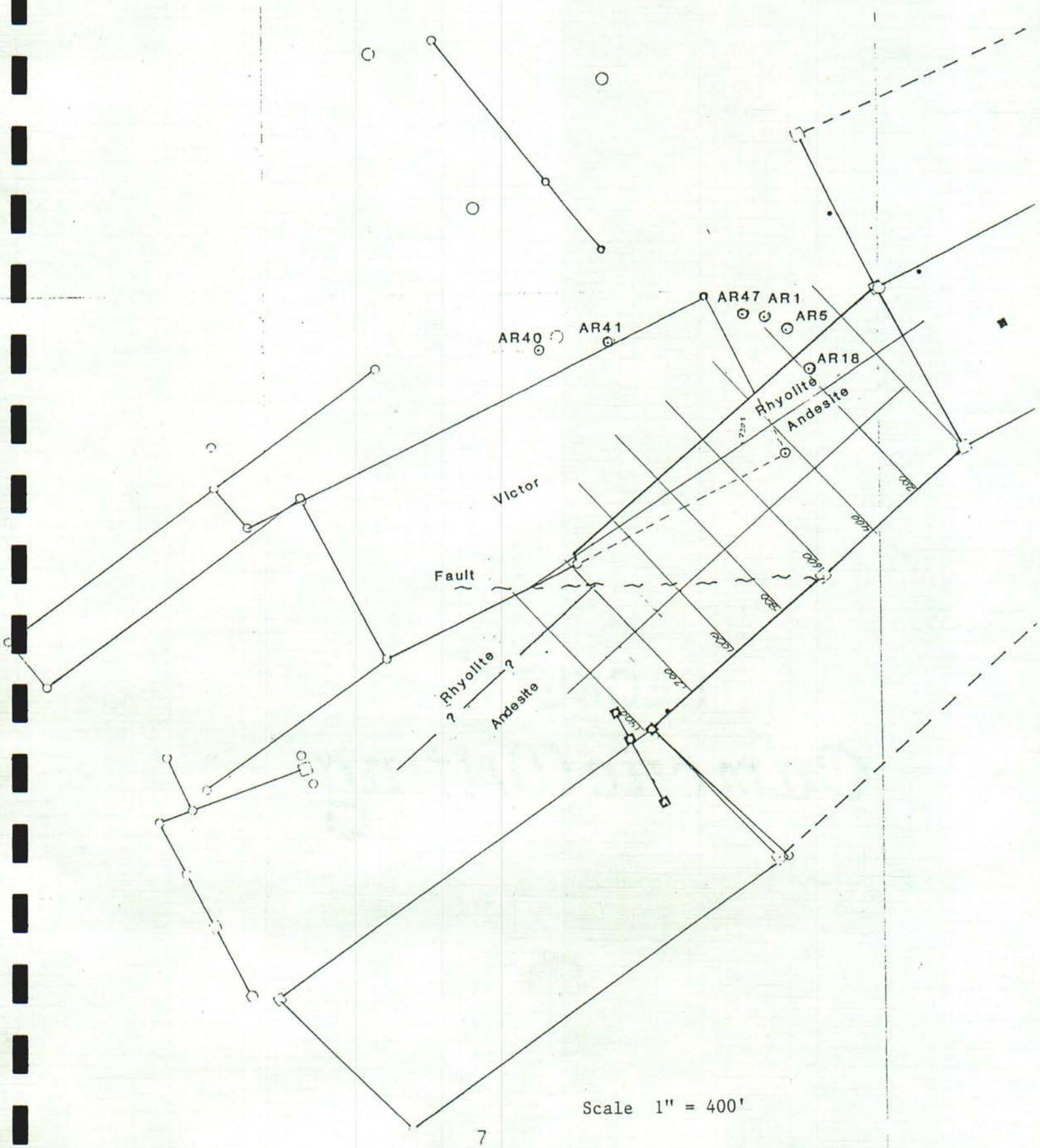
On section 1025 drill holes Ar-3, AR-4, DDH-1, DDH-2, AUR-13, and other holes prove a 57-65-foot true thickness zone averaging 0.15 oz Au/ton (on the basis of four holes). Hole AR-4 extends down to 7003 feet elevation in ore, with an assay of 0.123 oz Au/ton at the bottom of the hole (assays are given in Appendix A).

On the second point, concerning evidence of economic mineralization on the Victor claim, the Aurora Partnership does not have any drilling results from holes on the Victor. At least one hole has been drilled on the Victor by another party. However, the Aurora Partnership does have drill results from holes collared just outside the Victor claim boundary. Notable in this respect are drill holes AR-1, AR-5, AR-18, AR-40, AR-41, and AR-47, all located near the northeast border of the Victor claim (see Figure 4). As can be seen from the assay sheets in Appendix A, all of these holes, which are in rhyolite, are unmineralized. W.A. Fuchs examined the chip logs for these holes and confirmed that they visually appear to be unmineralized. No surface sampling was conducted on the Victor claim by the Aurora Partnership or its partners, so that there is no available surface assay data indicating economic mineralization. Therefore Whitney & Whitney, Inc. has seen no evidence of economic mineralization on the Victor claim.

As to the second point, concerning mineralization that apexes on the Silver Lining Group, there is direct evidence that mineralization does indeed apex on the Silver Lining Group and that it extends onto the Victor claim at depth as described in more detail below. The mineralization consists of vein-quartz zones and vein-confined quartz stringer zones in the clay zone southeast of the rhyolite contact. There are usually one to two of these zones that dip moderately to the northwest and project under the Victor claim before they reach a depth of 400 feet from the surface. The zones aggregate 10-30 feet in true thickness, and, on the cross sections studied, contain subore grades ranging from 0.01-0.05 oz Au/ton at the shallow depths explored. They clearly apex within the Silver Lining claim group owned by the Aurora Partnership. By taking a 25-foot cross-section-perpendicular width, a thickness taken from the cross section, and a down-dip length starting at the Victor claim boundary and projecting it in a northwesterly direction to a depth of 400 feet below the surface, these zones on sections 1275, 1325, and 1450 contain respectively 13,000, 8000, and 12,500 tons of material. Assuming 10,000 tons per cross section, the projections on cross sections 450 to 1450 (40 cross sections) could contain about 500,000 tons of material beneath the Victor claim. It should be emphasized that this represents an exploration target because the grades would have to get better with depth in order to be economic. Most of the potential tonnage lies below that which the Aurora Partnership proposes to strip as waste. Two of these quartz zones within the clay zone can be seen on section 1275 (Plate 2).

In addition to the above, there is a mineralized zone along the rhyolite contact within the rhyolite intrusive. There is a very pronounced chalcedony-quartz stringer zone which can be seen on the surface and is seen to be gold-bearing from drill assay results. Drilling penetrates this zone sufficiently for analysis only on cross sections 1100, 1275, and 1325. Grades are mainly in the 0.01-0.02 oz Au/ton range, but there are scattered values of 0.030-0.055 oz Au/ton. In two cases drill samples from the bedrock, just below the soil-bedrock interface ran respectively 0.170 and 0.100 oz Au/ton. Assuming that this zone parallels the rhyolite contact, which roughly parallels the vein system in strike and dips about 70° north, there is an indicated true thickness of 40 feet. This is a minimum thickness because, on the three cross sections studied, the drill holes were collared right in the rhyolite-quartz stringer zone. Assuming a true thickness of 40

Figure 4. Plan view showing claims, cross sections, ryholite contact, and holes in ryholite.



feet, a cross-section-perpendicular width of 25 feet and a down-dip length from the Victor claim boundary projected north to a depth of 400 feet beneath the surface (480 feet on section 1275) one obtains an indicated potential tonnage of 40,000 tons per section. A conservative projection across 40 sections (1000 feet of strike) gives a potential tonnage of 1.5 million tons of material. A less conservative projection over 60 sections (1500 feet of strike) gives a potential tonnage of 2.5 million tons of material. Even if only a fraction of this zone attains ore grades it could add substantially to the reserve base of the Aurora Partnership. Lying as it does along the pit boundary, taking this material could also allow a deeper open pit cut on the main vein. Whitney & Whitney, Inc. believes that this rhyolite-quartz stringer zone basically apexes within the Silver Lining claim group of The Aurora Partnership. Section 1275 (Plate 2) shows the rhyolite quartz stringer zone.

There is another chalcedony-quartz stringer zone that is exposed in trenches on the Victor claim and lies up to 150 feet within the claim boundary in the southwest part of the claim. The zone is a minimum of 300 feet long and 100 feet wide as exposed at the surface. We do not have surface sampling information from the stringer zone on the Victor claim. One final area of mineralization on the Victor claim is a 7-foot wide northeast-trending chalcedony-quartz vein on the west central edge of the Victor claim. Immediately adjacent to it is a 15-foot chalcedony-quartz stringer zone, giving a total width to the zone of 22 feet. The zone can be followed along strike for 150 feet. Although there has been no mining of these areas in the past, they may represent a potential exploration target at depth.

Reserves

At least two independent reserve appraisals have been carried out at the Aurora Project. Excerpts from one of these studies have been reviewed by Whitney & Whitney, Inc. In this particular study, the ore body was modeled using geostatistical methods and reserves defined using block-Kriging. This is an acceptable approach and in many cases it is the preferred approach. However, geostatistical analysis has to be coupled with a good understanding of the geology of a particular deposit to be valid. A lack of information about this particular study prevents Whitney & Whitney, Inc. from commenting directly on its validity.

Another approach to determination of geologic reserves is also appropriate in this case. Since the ore-body is of the vein-type, the cross-sectional method can be used with good results. The Aurora Partnership's mine geologist has carried out this procedure and his results are in close accord with the block-Kriging results. The Aurora Partnership has based its mine design on the geologic reserves determined by the mine geologist.

Mineable reserves have been defined by the computer-generated ultimate open pit plan. Based on his cross-sections, the mine geologist constructed level maps for definition of geologic reserves by level (20 foot intervals). This data was digitized and used as a basis for the computerized mine design. The computer then determined the mineable reserves, i.e., those reserves included within the pit limits. Table 1 lists a summary of geologic and mineable reserves. Appendix B consists of the computerized output of mineable reserves by level.

Table 1. Summary of Reserves

	Geologic Reserves		Mineable Reserves	
	tons	Grade OPT Au	tons	Grade oz/t gold
Block-Kriging	2,698,000	0.095	-	-
Cross-sectional method	2,695,000	0.081	-	-
Level maps	-	-	1,910,000	0.095

Whitney & Whitney, Inc. reviewed the determination of mineable reserves by re-calculating reserves from selected level maps. Whitney & Whitney, Inc.'s results compare very closely with results listed in the computer output (Appendix B). Two of the level maps have been included as Plates 3 and 4 at the back of this report.

Although it is beyond the scope of this study to verify reserves in the sense of a formal audit, Whitney & Whitney, Inc.'s review of method and results indicate that the Aurora Partnership's reserve studies have been done in a professional manner and should provide a good estimate of actual reserves.

Mine Plan

Whitney & Whitney, Inc. has reviewed the Aurora Partnership pit plan for technical and economic feasibility. The mine design was completed by the Aurora Partnership personnel with the aid of an Australian mine design software package. According to the mine engineer, two other plans were previously submitted by independent consultants and these plans provided a basis for the final design.

The mine plan has been divided into two phases. The Phase 1 plan (Plate 5) has already commenced. It does not encroach on the Victor claim, but does call for construction of a ramp to be used during stripping of the upper levels which include a portion of the Victor claim. The Final Phase plan (Plate 6) shows the ultimate or final contours of the completed pit. From a technical viewpoint, the mine design (both phases) appears to be carefully engineered. Final pit slopes have been set at 50° with benches at 40 foot (vertical) intervals. The 50° slope angle is based in part on practice in the immediate area, however a slope stability analysis currently underway may produce a recommendation to change the pit slope angle. There is an argillic zone in the hanging wall of the vein which could cause slope stability problems. This might require a flattening of the final slope angle, at least on the northwest side of the pit. Certainly, a final slope angle appreciably greater than 50° is not warranted and would be risky considering the final pit dimensions.

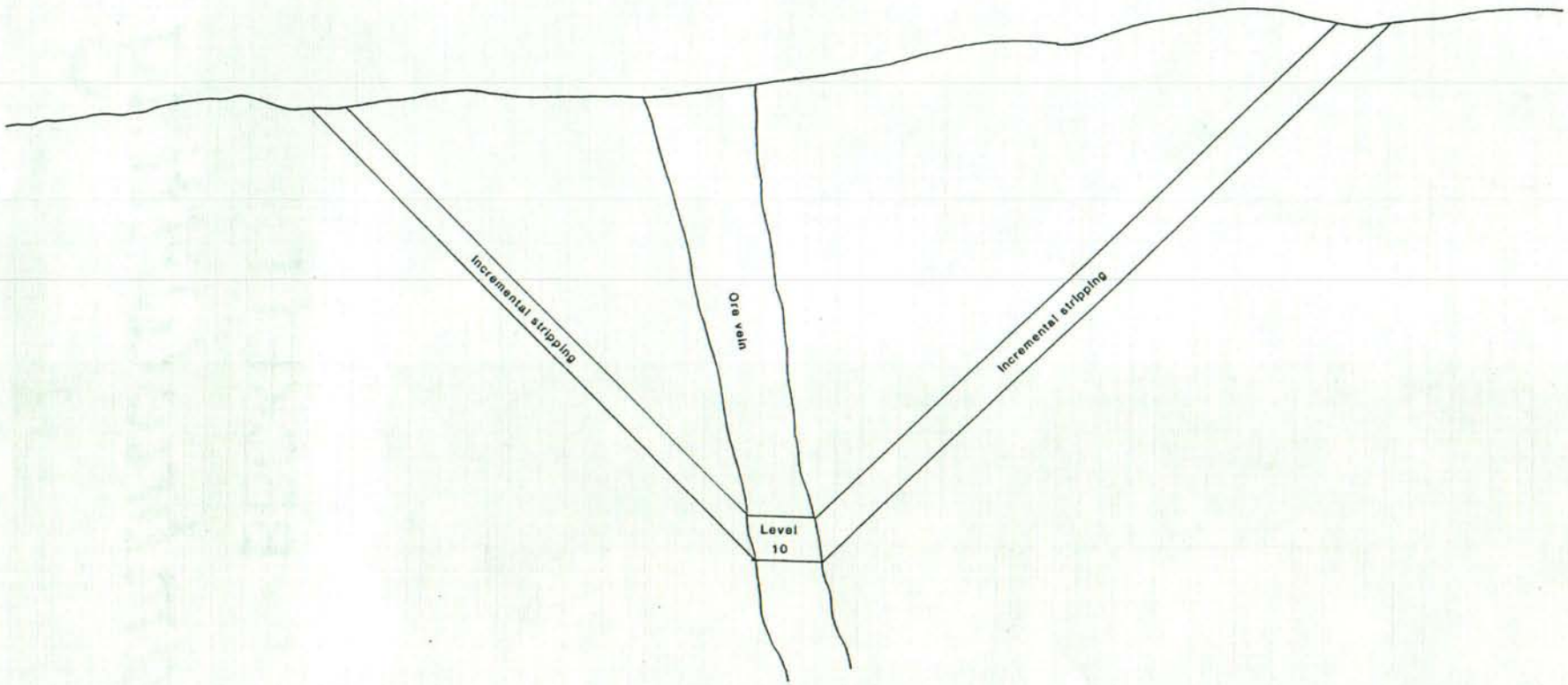
There is also one area in the western part of the pit where the slope takes on a convex form in plan view. Depending on the results of the slope stability analysis, this slope may have to be straightened since a convex slope is generally weaker than a straight or concave slope. Straightening of this section of the pit would increase the stripping ratio slightly, and also increase the affected area of the Victor claim.

In conclusion, in order for mining to proceed down to the depth proposed (6980 level), the pit slope on the northwest side of the vein <u>must</u> extend well into the Victor claim.

Whitney & Whitney, Inc. has also examined the economic justification for mining to the 6980 level. Basically, in order to mine each successive level in an open pit mine, stripping has to be done. The net value of ore in each level must be able to cover the costs of this "incremental stripping." Figure 5 shows the concept of incremental stripping. Since the Aurora Partnership mine plan calls for mining down to the 6980 level, an analysis was done to determine the economic justification for mining that particular level (6980-7000). The following discussion outlines this analysis.

The 6980 level contains about 88,000 tons of "mineable reserves" grading 0.11 ounces per ton (see Appendix B). At $450 per ounce, the gross value of the ore is $4,356,000. Expected recovery is 70 percent and total operating costs less mining and stripping are expected to be $10.00 per ton. The mining cost is approximately $1.00 per ton, as is stripping. Therefore, the net value of the 6980 level is:

Figure 5. Incremental stripping concept.



Net Value = ($4,356,000 x 70%) - ($10 x 88,000 tons) - ($1 x 88,000 tons)

- ($1 x tons stripping)

Net Value = <u>$2,081,000 less stripping costs</u>

The recoverable gold on the 6980 level will cover the costs of incremental stripping of slightly over 2,000,000 tons. The depth to the 6980 level from the present surface varies from about 150 feet to 450 feet (within the pit limits), with the average being around 300 feet. The ore lies in a strip 860 feet long, 70 feet wide, and 20 feet thick. Assuming an overall slope angle of 45°, the amount of stripping required to mine this ore can be approximated by the following: two side panels, each 860 feet long, 20 feet thick, and 425 feet wide (side panels are at 45°, so for a 300 foot depth, the width of the panel = 300 feet x Cosec (45°) = 425 feet); two inverted half-cones (one at each end of the strip of ore), each 20 feet thick with truncated bottoms, 45° side angles, and a height of 300 feet. The total incremental stripping required is:

Stripping required = 2 x (860' x 70' x 20' / 13.5 ft^3/ton)

+ 2 x 1/2 x 1/3 (Base x Height of exterior - Base x Height of Interior)

Stripping required = 1,083,000 tons

+ 1/3 (3.1415 x 335^2 x 300' - 3.1415 x 315^2 x 280')/ 13.5 ft^3/ton

= 1,083,000 tons + 456,000 tons

+ <u>1,539,000 tons</u>

The net value of the 6980 level can be calculated as:

$2,081,000 - ($1 x 1,539,000 tons) = <u>$542,000</u>

Therefore, it is economically justifiable to mine the 6980 level.

Valuation of the Victor Claim

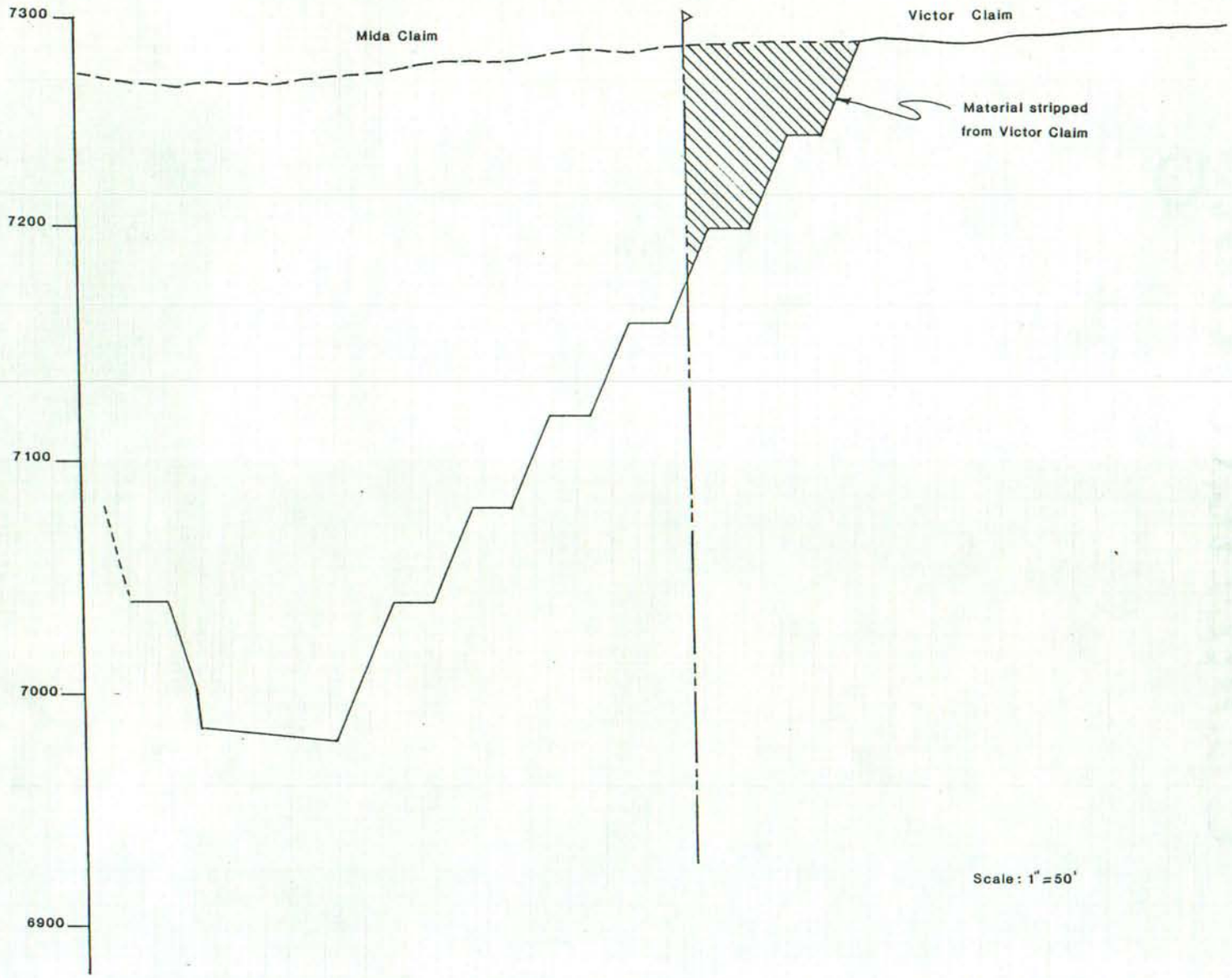
The results of Whitney & Whitney, Inc.'s investigation of the Victor claim indicate that it is impossible to place any particular value on the claim. There is no evidence of economic mineralization that apexes on the claim. From a strategic viewpoint, the claim is very important to the economics of the Aurora Project. Without access to the claim, the Aurora Partnership would have two choices; 1) construct a much smaller open pit which would cut mineable reserves by about half, or 2) mine the deposit using underground methods. The first option would not increase operating costs but the drastically reduced reserves might not provide enough of a return on investment to warrant mining. The second option would not reduce reserves, but would increase mining costs substantially. Again, the project economics might be jeapordized. Clearly, that portion of the Victor claim included in the Aurora Partnership pit design is essential to a successful project.

The entire surface area of the Victor claim is about 740,000 $feet^2$ (17 acres - see Figure 2). The portion of surface area of the claims included in the pit design is approximately 80,000 ft^2 or 11 percent of the total claim area (Plate 6). In terms of tonnage, the pit plan calls for

stripping of about 560,000 tons (presumably waste) from the southern edge of the Victor claim. The Victor claim contains about 10,960,000 tons (based on 13.5 ft^3/ton) in the top 200 foot thickness. Since the Aurora Partnership only plans to mine to a maximum of 200 feet in the Victor claim, the tonnage to be removed amounts to about 5 percent of that present in the top 200 feet based on present pit design. Figure 6 shows a cross-section of the proposed pit which demonstrates this.

It should also be noted in conclusion, that the Victor claim is bounded on three sides by property that belongs to the Aurora Partnership. It would not be possible for the owner of the Victor claim to mine any low grade bulk mineralization from that claim (which apexes on the claim) without having some type of joint arrangement for impinging upon Aurora Partnership ground. Therefore, even if economically attractive mineralization was found to apex on the Victor claim, it would still be difficult if not impossible to establish an economically feasible mining plan. Because of the facts described above, and because of this latter factor, it would be in the best interests of both parties if an agreement could be reached regarding the Victor claim. The amount of the Victor claim required by the present Aurora Partnership mining plan is described above, however, it should be pointed out that the mineralization presently being mined on the Silver Lining Group is open at depth and of good grade. Future drilling may well establish economically minable reserves below the presently planned pit bottom. If that happens, then the Aurora Partnership could well require at least the northeast one-half of the Victor claim to accomplish its mining. The value of any ore encountered on the Victor claim by the Aurora Partnership in the process of mining and which does not apex on the Silver Lining Group could be established by royalty agreement.

Figure 6. Cross-section N60° W crossing through 14500N, 9500E.
Proposed Aurora Pit



APPENDIX A

Assay Sheets

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

A PARTNERSHIP

Laboratory No: 26684

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AP-23,30-40	0.055	0.088	AR-1, 40- 45	-0.003	-0.003
P-23,40-50	0.125	0.128	AR-1, 45- 50	-0.003	0.003
AP-23,50-55	0.300	0.263	AR-1, 50- 55	-0.003	0.003
P-25,10-10	0.012	0.298	AR-1, 55- 60	-0.003	-0.003
P-25,10-20	0.009	0.239	AR-1, 60- 65	-0.003	0.003
AP-25,20-30	0.006	0.082	AR-1, 65- 70	-0.003	-0.003
P-25,30-40	0.003	0.041	AR-1, 70- 75	-0.003	-0.003
AP-25,40-45	0.020	0.067	AR-1, 75- 80	-0.003	0.003
P-26, 0-10	-0.003	0.035	AR-1, 80- 85	-0.003	0.003
AP-26,10-20	0.003	0.026	AR-1, 85- 90	-0.003	0.003
-26,20-30	0.006	0.018	AR-1, 90- 95	-0.003	0.003
-26,30-40	0.003	0.015	AR-1, 95-100	-0.003	-0.003
AP-26,40-50	-0.003	0.009	AR-1,100-105	-0.003	-0.003
-26,50-55	-0.003	0.009	AR-1,105-110	-0.003	-0.003
AP-27, 0- 5	0.006	0.038	AR-1,110-115	-0.003	0.003
-27, 5-10	0.006	0.053	AR-1,115-120	-0.003	-0.003
AP-27,10-15	0.003	0.047	AR-1,120-125	-0.003	-0.003
-27,15-20	0.020	0.105	AR-1,125-130	-0.003	-0.003
-27,20-30	0.012	0.058	AR-1,130-135	-0.003	-0.003
-1, 0-5	0.003	0.006	AR-1,135-140	-0.003	-0.003
1, 5-10	-0.003	0.003	AR-1,140-145	-0.003	-0.003
AR-1,10-15	0.003	0.006	AR-1,145-150	-0.003	-0.003
1,15-20	0.006	0.009	AR-1,150-155	-0.003	-0.003
AR-1,20-25	-0.003	0.009	AR-1,155-160	-0.003	-0.003
1,25-30	-0.003	0.012	AR-1,160-165	-0.003	-0.003
R-1,30-35	0.003	0.009	AR-1,165-170	-0.003	-0.003
1,35-40	0.003	0.003	AR-1,170-175	-0.003	-0.003

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousand
p = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HOLE NUMBER AR-1

INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5	.003	.006		
5-10	-.003	.003		
10-15	.003	.006		
15-20	.006	.009		
20-25	-.003	.009		
25-30	-.003	.012		
30-35	.003	.009		
35-40	.003	-.003		
40-45	-.003	.003		
45-50	-.003	.003		
50-55	-.003	.003		
55-60	-.003	-.003		
60-65				
65-180	-.003	.003		

NORTHING	14,909.0
EASTING	9,625.0
COLLAR ELEV.	7148.9
DIP	-45°
AZIMUTH	131°

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

AURORA PARTNERSHIP
P.O. BOX 1628
HAWTHORNE, NEVADA 89415

Date: February 11, 1986

Laboratory number: 26717

Analytical Method: AA-CN

Your Order Number:

Report on: 72 Samples, cuttings

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-4,120-125	0.216	0.239	AR-4,215-220	0.070	0.120
AR-4,125-130	0.128	0.204	AR-4,220-225	0.257	0.324
AR-4,130-135	0.201	0.277	AR-4,225-230	0.137	0.190
AR-4,135-140	0.338	0.680	AR-4,230-235	0.082	0.125
AR-4,140-145	0.061	0.303	AR-4,235-240	0.123	0.280
AR-4,145-150	0.038	0.102	AR-4,240-245	0.108	0.175
AR-4,150-155	0.012	0.023	AR-4,245-250	0.123	0.175
AR-4,155-160	0.020	0.047	AR-10, 0- 5	0.280	0.283
AR-4,160-165	0.015	0.050	AR-10, 5- 10	0.650	0.837
AR-4,165-170	0.009	0.020	AR-10, 10- 15	1.280	2.890
AR-4,170-175	0.058	0.344	AR-10, 15- 20	0.265	0.566
AR-4,175-180	0.044	0.207	AR-10, 20- 25	0.073	0.321
AR-4,180-185	0.023	0.029	AR-10, 25- 30	0.035	0.085
AR-4,185-190	0.020	0.023	AR-10, 30- 35	0.099	0.123
AR-4,190-195	0.006	0.018	AR-10, 35- 40	0.018	0.032
AR-4,195-200	0.012	0.044	AR-10, 40- 45	0.032	0.032
AR-4,200-205	0.070	0.076	AR-10, 45- 50	0.044	0.150
AR-4,205-210	0.102	0.099	AR-15, 0- 5	0.012	0.020
AR-4,210-215	0.178	0.146	AR-15, 5- 10	0.006	0.009

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousa
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

110'

HOLE NUMBER AR-5

INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5A	-.003	.006		
5-5B	-.003	.006		
5-10A	-.003	.003		
5-10B	-.003	.006		
10-15	-.003	.003		
15-20	-.003	.003		
20-25	-.003	.003		
25-30	-.003	.003		
30-35	-.003	.003		
35-40	-.003	-.003		
40-45	-.003	-.003		
45-50	-.003	-.003		
50-55	-.003	-.003		
55-60	-.003	-.003		
60-65	-.003	-.003		
65-70	-.003	.015		
70-75	-.003	-.003		
75-80	-.003	.003		
80-85	-.003	-.003		
85-90	-.003	-.003		
90-95	-.003	.003		
95-100	-.003	.003		
100-105	-.003	.018		
105-110	.003	.038		

NORTHING
14,863.0
EASTING
9,703.0
COLLAR ELEV.
7152.0
DIP
45°
AZIMUTH
131°

Amber Miller

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

RA PARTNERSHIP

Laboratory No: 26684

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-5, 35- 40	-0.003	-0.003	AR-5, 75- 80	-0.003	0.003
R-5, 40- 45	-0.003	-0.003	AR-5, 80- 85	-0.003	-0.003
AR-5, 45- 50	-0.003	-0.003	AR-5, 85- 90	-0.003	-0.003
R-5, 50- 55	-0.003	-0.003	AR-5, 90- 95	-0.003	0.003
AR-5, 55- 60	-0.003	-0.003	AR-5, 95-100	-0.003	0.003
R-5, 60- 65	-0.003	-0.003	AR-5,100-105	-0.003	0.018
AR-5, 65- 70	-0.003	0.015	AR-5,105-110	0.003	0.038
AR-5, 70- 75	-0.003	-0.003			

HUNTER MINING LABORATORY, INC.

Gary M. Fechko

Gary M. Fechko

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousar
pb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

RORA PARTNERSHIP Laboratory No: 26718

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-3,160-165	-0.003	0.006	AR-4, 95-100	0.140	0.318
AR-3,165-170	-0.003	0.006	AR-4,100-105	0.265	0.438
AR-3,170-175	-0.003	0.003	AR-4,105-110	0.236	0.295
AR-3,175-180	-0.003	0.006	AR-4,110-115	0.478	0.510
AR-3,180-185	-0.003	0.006	AR-4,115-120	0.473	0.405
AR-3,185-190	-0.003	0.009	AR-7, 85- 90	0.149	0.569
AR-3,190-195	-0.003	0.012	AR-7, 95-100	0.044	0.099
AR-3,195-200	-0.003	0.009	AR-7,100-105	0.015	0.055
AR-4, 0- 5	0.558	0.478	AR-7,105-110	0.020	0.061
AR-4, 5- 10	0.102	0.166	AR-7,110-115	0.020	0.213
AR-4, 10- 15	0.085	0.120	AR-7,115-120	0.006	0.061
AR-4, 15- 20	0.058	0.044	AR-7,120-125	0.003	0.029
AR-4, 20- 25	0.067	0.073	AR-7,125-130	-0.003	0.058
AR-4, 25- 30	0.201	0.195	AR-7,130-135	-0.003	0.026
AR-4, 30- 35	0.207	0.260	AR-7,135-140	0.006	0.020
AR-4, 35- 40	0.820	0.525	AR-9, 0- 5	0.006	0.018
AR-4, 40- 45	0.350	0.198	AR-9, 5- 10	-0.003	0.012
AR-4, 45- 50	0.376	0.271	AR-9, 10- 15	-0.003	0.009
AR-4, 50- 55	0.190	0.146	AR-9, 15- 20	-0.003	0.006
AR-4, 55- 60	0.073	0.370	AR-9, 20- 25	-0.003	0.009
AR-4, 60- 65	0.023	0.193	AR-9, 25- 30	-0.003	0.006
AR-4, 65- 70	0.044	0.155	AR-9, 30- 35	0.006	0.032
AR-4, 70- 75	0.076	0.228	AR-9, 35- 40	0.003	0.029
AR-4, 75- 80	0.020	0.041	AR-9, 40- 45	0.035	0.090
AR-4, 80- 85	0.006	0.044	AR-9, 45- 50	0.184	0.207
AR-4, 85- 90	0.018	0.105	AR-9, 55-60A	0.123	0.111
AR-4, 90- 95	0.044	0.175	AR-9, 55-60B	0.225	0.178

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousa
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

AURORA PARTNERSHIP
P.O. BOX 1628
HAWTHORNE, NEVADA 89415

Date: February 24, 1986

Laboratory number: 26797

Analytical Method: AA-hot CN

Your Order Number:

Report on: 144 Samples,

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-18, 0- 5	0.003	0.032	AR-22,115-120	-0.003	0.003
AR-18, 5- 10	0.023	0.026	AR-22,120-125	-0.003	0.006
AR-18, 10- 15	0.006	0.015	AR-22,125-130	-0.003	0.012
AR-18, 15- 20	0.006	0.012	AR-22,130-135	-0.003	0.018
AR-18, 20- 25	0.003	0.015	AR-22,135-140	-0.003	0.038
AR-18, 25- 30	-0.003	0.012	AR-22,140-145	-0.003	0.015
AR-18, 30- 35	-0.003	0.012	AR-22,145-150	-0.003	0.009
AR-18, 35- 40	0.003	0.041	AR-23, 0- 5	-0.003	0.020
AR-18, 40- 45	-0.003	0.018	AR-23, 5- 10	-0.003	0.009
AR-18, 45- 50	-0.003	0.020	AR-23, 10- 15	-0.003	0.009
AR-18, 50- 55	-0.003	0.012	AR-23, 15- 20	-0.003	0.012
AR-22, 75- 80	-0.003	0.006	AR-23, 20- 25	0.003	0.023
AR-22, 80- 85	-0.003	0.003	AR-23, 25- 30	0.003	0.012
AR-22, 85- 90	-0.003	0.009	AR-23, 30- 35	-0.003	0.012
AR-22, 90- 95	-0.003	0.023	AR-23, 35- 40	0.015	0.015
AR-22, 95-100	-0.003	0.015	AR-23, 40- 45	0.088	0.044
AR-22,100-105	-0.003	0.009	AR-23, 45- 50	0.023	0.026
AR-22,105-110	-0.003	0.006	AR-23, 50- 55	0.041	0.038
AR-22,110-115	-0.003	0.006	AR-23, 55- 60	0.263	0.219

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per tho
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

55

HOLE NUMBER AR 18

5' INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5	.003	.03[illegible]		
5-10	.023	.03[illegible]		
10-15	.006	.01[illegible]		
15-20	.006	.01[illegible]		
20-25	.003	.01[illegible]		
25-30	-.003	[illegible]		
30-35	-.003	[illegible]		
35-40	.003	.0[illegible]		
40-45	-.003	[illegible]		
45-50	-.003	[illegible]		
50-55	-.003	[illegible]		

NORTHING
14,734.0
EASTING
9,778.0
COLLAR ELEV.
7158.0
DIP
45°
AZIMUTH
131°

VER.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

RORA PARTNERSHIP

Laboratory No: 26887

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-35, 95-100	0.055	0.177	AR-37, 60- 65	-0.003	0.003
AR-35,100-105	0.078	0.261	AR-37, 65- 70	-0.003	0.003
AR-35,105-110	0.055	0.168	AR-37, 70- 75	-0.003	0.003
AR-35,110-115	0.009	0.087	AR-37, 75- 80	-0.003	-0.003
AR-35,115-120	0.006	0.046	AR-37, 80- 85	-0.003	0.003
AR-35,120-125	0.009	0.041	AR-37, 85- 90	-0.004	0.003
AR-35,125-130	0.009	0.049	AR-37, 90- 95	-0.003	0.003
AR-35,130-135	0.006	0.052	AR-37, 95-100	-0.003	0.003
AR-35,135-140	0.009	0.049	AR-37,100-105	-0.003	0.003
AR-35,140-145	0.003	0.023	AR-37,105-110	-0.003	0.006
AR-35,145-150	0.006	0.017	AR-37,110-115	0.003	0.006
AR-36,150-155	0.003	0.020	AR-37,115-120	-0.003	0.006
AR-36,155-160	0.009	0.017	AR-37,120-125	-0.003	0.003
AR-36,160-165	-0.003	0.012	AR-37,125-130	-0.003	0.003
AR-36,165-170	0.006	0.052	AR-37,130-135	-0.003	0.017
AR-37, 0- 5	0.003	0.009	AR-37,135-140	-0.003	0.003
AR-37, 5- 10	0.006	0.009	AR-37,140-145	-0.003	0.003
AR-37, 10- 15	0.003	0.015	AR-37,145-150	-0.003	0.003
AR-37, 15- 20	0.012	0.020	AR-38, 0- 5	0.177	0.125
AR-37, 20- 25	-0.003	0.006	AR-38, 5- 10	0.009	0.015
AR-37, 25- 30	0.012	0.015	AR-38, 10- 15	0.006	0.012
AR-37, 30- 35	0.029	0.038	AR-38, 15- 20	0.003	0.012
AR-37, 35- 40	-0.003	0.003	AR-38, 20- 25	-0.003	0.026
AR-37, 40- 45	-0.003	0.003	AR-38, 25- 30	-0.003	0.012
AR-37, 45- 50	-0.003	0.003	AR-38, 30- 35	-0.003	0.017
AR-37, 50- 55	-0.003	0.003	AR-38, 35- 40	-0.003	0.009
AR-37, 55- 60	-0.003	0.003	AR-38, 40- 45	-0.003	0.015

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand. **ppb** = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

AURORA PARTNERSHIP
P.O. BOX 1628
HAWTHORNE, NEVADA 89415

Date: March 12, 1986

Laboratory number: 26930

Analytical Method: AA-hot CN

Your Order Number:

Report on: 52 Samples, cuttings

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-35,130-135	0.009	0.023	AR-35,225-230	0.113	0.290
AR-35,135-140	0.003	0.017	AR-35,230-235	0.044	0.087
AR-35,140-145	0.058	0.046	AR-35,235-238	0.044	0.096
AR-35,145-150	0.020	0.015	AR-47, 0- 5	-0.003	0.006
AR-35,150-155	0.116	0.061	AR-47, 5- 10	-0.003	0.015
AR-35,155-160	0.128	0.104	AR-47, 10- 15	-0.003	0.012
AR-35,160-165	0.061	0.055	AR-47, 15- 20	-0.003	0.006
AR-35,165-170	0.215	0.418	AR-47, 20- 25	-0.003	0.006
AR-35,170-175	0.235	0.531	AR-47, 25- 30	-0.003	0.006
AR-35,175-180	0.052	0.119	AR-47, 30- 35	-0.003	0.003
AR-35,180-185	0.067	0.247	AR-47, 35- 40	-0.003	0.003
AR-35,185-190	0.249	0.354	AR-47, 40- 45	-0.003	0.006
AR-35,190-195	0.015	0.131	AR-47, 45- 50	-0.003	0.009
AR-35,195-200	0.174	0.305	AR-47, 50- 55	-0.003	0.009
AR-35,200-205	0.081	0.093	AR-47, 55- 60	-0.003	0.006
AR-35,205-210	0.119	0.136	AR-47, 60- 65	-0.003	0.006
AR-35,210-215	0.023	0.044	AR-47, 65- 70	-0.003	0.006
AR-35,215-220	0.064	0.104	AR-47, 70- 75	-0.003	0.006
AR-35,220-225	0.044	0.075	AR-47, 75- 80	-0.003	0.006

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

AURORA PARTNERSHIP
P.O. BOX 1628
HAWTHORNE, NEVADA 89415

Date: February 28, 1986

Laboratory number: 26898

Analytical Method: AA-hot CN

Your Order Number:

Report on: 62 Samples, cuttings

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-40, 0- 5	0.012	0.029	AR-40, 95-100	-0.003	0.003
AR-40, 5- 10	0.009	0.032	AR-40,100-105	-0.003	0.003
AR-40, 10- 15	-0.003	0.003	AR-40,105-110	-0.003	0.003
AR-40, 15- 20	-0.003	-0.003	AR-40,110-115	-0.003	0.003
AR-40, 20- 25	-0.003	0.003	AR-40,115-120	-0.003	-0.003
AR-40, 25- 30	-0.003	-0.003	AR-40,120-125	-0.003	0.003
AR-40, 30- 35	0.003	0.003	AR-40,125-130	-0.003	0.003
AR-40, 35- 40	0.003	0.003	AR-40,130-135	-0.003	-0.003
AR-40, 40- 45	0.006	0.006	AR-40,135-140	-0.003	-0.003
AR-40, 45- 50	-0.003	0.003	AR-40,140-145	-0.003	0.006
AR-40, 50- 55	-0.003	0.003	AR-40,145-150	-0.003	0.003
AR-40, 55- 60	-0.003	0.003	AR-41, 0- 5	0.012	0.020
AR-40, 60- 65	0.003	0.003	AR-41, 5- 10	0.006	0.020
AR-40, 65- 70	0.003	-0.003	AR-41, 10- 15	0.006	0.026
AR-40, 70- 75	-0.003	-0.003	AR-41, 15- 20	-0.003	0.006
AR-40, 75- 80	-0.003	0.003	AR-41, 20- 25	-0.003	0.003
AR-40, 80- 85	-0.003	0.003	AR-41, 25- 30	-0.003	0.003
AR-40, 85- 90	-0.003	0.003	AR-41, 30- 35	-0.003	0.003
AR-40, 90- 95	-0.003	0.006	AR-41, 35- 40	-0.003	0.003

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousa
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

150

HOLE NUMBER AR 40

5' INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5	.012	.001		
5-10	.007	.003		
10-15	-.003	.003		
15-20	-.003	-.003		
20-25	-.003	.003		
25-30	-.003	-.003		
30-35	.003	.003		
35-40	.003	.003		
40-45	.006	.003		
45-50	-.003	.003		
50-55	-.003	.003		
55-60	-.003	.003		
60-65	.003	.003		
65-70	.003	-.003		
70-75	-.003	-.003		
75-80	-.003	.003		
80-85	-.003	.003		
85-90	-.003	.003		
90-95	-.003	.006		
95-100	-.003	.003		
100-105	-.003	.003		
105-110	-.003	.003		
110-115	-.003	.003		
115-120	-.003	-.003		
120-125	-.003	.003		
125-130	-.003	.003		
130-135	-.003	-.003		
135-140	-.003	-.003		
140-145	-.003	.006		
145-150	-.003	.003		

NORTHING
EASTING
COLLAR ELEV
DIP
90°
AZIMUTH

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE (702) 358-6227

RORA PARTNERSHIP Page: 2 Laboratory No: 26898

Sample Mark	Gold oz/ton	Silver oz/ton	Sample Mark	Gold oz/ton	Silver oz/ton
AR-41, 40-45	0.015	0.017	AR-41,100-105	-0.003	0.009
A -41, 45-50	-0.003	0.003	AR-41,105-110	-0.003	0.009
AR-41, 50- 55	-0.003	-0.003	AR-41,110-115	-0.003	0.006
A -41, 55- 60	-0.003	0.006	AR-41,115-120	-0.003	0.006
A -41, 60- 65	0.003	-0.003	AR-41,120-125	-0.003	0.006
A -41, 65- 70	-0.003	0.003	AR-41,125-130	-0.003	0.012
A -41, 70- 75	0.003	0.003	AR-41,130-135	-0.003	0.006
AR-41, 75- 80	-0.003	0.017	AR-41,135-140	-0.003	0.003
A -41, 80- 85	-0.003	0.006	AR-41,140-145	-0.003	0.006
AR-41, 85- 90	-0.003	0.006	AR-41,145-150	-0.003	0.009
A -41, 90- 95	-0.003	0.012	AR-41,150-155	-0.003	0.009
AR-41, 95-100	-0.003	0.009	AR-41,155-160	-0.003	0.003

HUNTER MINING LABORATORY, INC.

Gary M. Fechko

Gary M. Fechko

by M. Beale

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousand
b = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

160

HOLE NUMBER AR 41

5' INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5	.012	.020		
5-10	.006	.020		
10-15	.006	.026		
15-20	-.003	.006		
20-25	-.003	.003		
25-30	-.003	.003		
30-35	-.003	.003		
35-40	-.003	.003		
40-45	.015	.017		
45-50	-.003	.003		
50-55	-.003	-.003		
55-60	-.003	.006		
60-65	.003	-.003		
65-70	-.003	.003		
70-75	.003	.003		
75-80	-.003	.007		
80-85	-.003	.003		
85-90	-.003	.006		
90-95	-.003	.011		
95-100	-.003	.021		
100-105	-.003	.009		
105-110	-.003	.006		
110-115	-.003	.003		
115-120	-.003	[illegible]		
120-125	-.003	.003		
125-130	-.003	.003		
130-135	-.003	.003		
135-140	-.003	.003		
140-145	-.003	.006		
145-150	-.003	.003		
150-155	-.003	.003		
155-160	-.003	.003		

NORTHING

EASTING

COLLAR ELEV

DIP 90°

AZIMUTH

150

HOLE NUMBER RA-11

AR-47

5' INTERVAL	A.A. Au Oz /TON	A.A. Ag Oz/TON	FIRE Au Oz/TON	FIRE Ag Oz/TON
0-5	-.003	.006		
5-10	-.003	.015		
10-15	-.003	.012		
15-20	-.003	.006		
20-25	-.003	.006		
25-30	-.003	.006		
30-35	-.003	.003		
35-40	-.003	.003		
40-45	-.003	.006		
45-50	-.003	.006		
50-55	-.003	.003		
55-60	-.003	.006		
60-65	-.003	.006		
65-70	-.003	.006		
70-75	-.003	.006		
75-80	-.003	.006		
80-85	-.003	.003		
85-90	-.003	.006		
90-95	-.003	.006		
95-100	-.003	.006		
100-105	-.003	.003		
105-110	-.003	.003		
110-115	-.003	.003		
115-120	-.003	.006		
120-125	-.003	.003		
125-130	-.003	.006		
130-135	-.003	.003		
135-140	-.003	.003		
140-145	-.003	.003		
145-150	-.003	.006		

NORTHING
EASTING
COLLAR ELEV.
DIP
90°
AZIMUTH
—

CRUSHER ASSAY RESULTS LOG

RECEIVED NOV 25 1987

11/24/86

RC 86 #25

SAMPLE #	DATE	SHIFT	A.A. Au OZ/TON	A.A. Ag OZ/TON	FIRE Au OZ/TON	FIRE Ag OZ/TON
0-10			.010	.042		
10-20	"Drilling but no return"					
20-30	"	"	"	"		
30-40			.010	.020		
40-50			TR	—		
50-60 #1			—	—		
" " #2			.006	.024		
" " #3			.004	.024		
60-70			.018	—		
70-80			.008	.044		
80-90			.018	.058		
90-100			.020	.036	.014	
100-?			—	—		
100-110			.008	.036	.009	
110-120			.012	—		
120-130			.018	—		
130-140			.084	.098	.096	
140-150			.006	.010		
150-160			.006	—		
160-170			.008	.050		
170-180			NO - FILTRATION			
180-190			" "	" "		
190-200			" "	" "		
200-205			.004	—		
205-210			.004	.010		
210-215			.004	—		
215-220			.004	.008	.005	
220-225			.010	—		
230-235			.004	.010		
235-240			.004	.100		
240-245			.006	.006		
245-250			.008	.008		
250-255			TR	.006		
255-260			.030	.042		
260-265			.014	.018		

K Hardy

CRUSHER ASSAY RESULTS LOG

RC 86# 25 11/24/86

SAMPLE #	DATE	SHIFT	A.A. Au OZ/TON	A.A. Ag OZ/TON	FIRE Au OZ/TON	FIRE Ag OZ/TON
260-270			.028	.050		
270-275			.006	.012		
275-280			—	—		
285-290			.004	—		
290-295			.012	.016		
295-300			.010	.026	.014	
300-305			.014	.020	.021	
300-305			.020	.024	.025	
310-315			.004	.008	.025	
315-320			.006	.010		
320-325			.010	—		
325-330			.012	—		
330-335			.066	.320	.093	
335-340			.082	.376	.102	
340-345			.088	.296	.144	
345-350			.320	.720	.620	
350-360			.290	.580	.669	
360-365			.050	.090	.062	
365-370			.014	.024	.026	
370-375			.024	.040	.029	
375-380			.010	.022		
385-390			.086	.072	.096	
390-395			.018	.034	—	
395-400			"NO FILTERATION"		—	
400-405			.060	.064	.068	
405-410			.140	.178	.119	
410-415			.198	—		
415-420			.078	.076	.050	
420-425			.016	.050	.028	
No # 425-430			.006	.012		
TD=430						

No * = the number was gone.

R Hatch

APPENDIX B

Mineable Reserves by Level

S U R P A C

PHASE I
LAYER 7050.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	15356.	0.130
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				15356.	0.130
very hg ore				0.	
Material Total				15356.	0.130
string 1				15356.	0.130
string 2	0	0.0741	2	8031.	0.133
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				8031.	0.133
very hg ore				0.	
Material Total				8031.	0.133
string 2				8031.	0.133
string 1 & 2				23387.	0.131
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				23387.	0.131
waste	W	0.0741	98	18225.	

S U R P A C

PHASE I
LAYER 7070.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	22016.	0.133
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				22016.	0.133
very hg ore				0.	
Material Total				22016.	0.133
string 1				22016.	0.133
string 2	0	0.0741	2	7797.	0.100
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				7797.	0.100
very hg ore				0.	
Material Total				7797.	0.100
string 2				7797.	0.100
string 1 & 2				29812.	0.125
string 3	0	0.0741	3	4922.	0.100
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				4922.	0.100
very hg ore				0.	
Material Total				4922.	0.100
string 3				4922.	0.100
string 1+2+3				34735.	0.121
waste	W	0.0741	98	30482.	

S U R P A C

PHASE I
LAYER 7090.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	9729.	0.185
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				3701.	0.160
very hg ore				6028.	0.200
Material Total				9729.	0.185
string 1				9729.	0.185
string 2	0	0.0741	2	27295.	0.090
waste				0.	
lg				0.	
lg ore				0.	
ore				9553.	0.061
hg ore				17743.	0.106
very hg ore				0.	
Material Total				27295.	0.090
string 2				27295.	0.090
string 1 & 2				37024.	0.115
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				37024.	0.115
waste	W	0.0741	98	79774.	

S U R P A C

PHASE I

LAYER 7110.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	8645.	0.168
waste				0.	
lg				1285.	0.020
lg ore				0.	
ore				5377.	0.076
hg ore				0.	
very hg ore				1983.	0.514
Material Total				8645.	0.168
string 1				8645.	0.168
string 2	0	0.0741	2	15527.	0.095
waste				0.	
lg				0.	
lg ore				3936.	0.031
ore				3965.	0.063
hg ore				6277.	0.100
very hg ore				1349.	0.350
Material Total				15527.	0.095
string 2				15527.	0.095
string 1 & 2				24172.	0.121
string 3	0	0.0741	3	6555.	0.098
waste				0.	
lg				0.	
lg ore				0.	
ore				1420.	0.090
hg ore				5135.	0.100
very hg ore				0.	
Material Total				6555.	0.098
string 3				6555.	0.098
string 1+2+3				30727.	0.116
waste	W	0.0741	98	112070.	

S U R P A C

PHASE I

LAYER 7130.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	17396.	0.124
waste				1178.	0.008
lg				5153.	0.015
lg ore				0.	
ore				6393.	0.062
hg ore				0.	
very hg ore				4673.	0.360
Material Total				17396.	0.124
string 1				17396.	0.124
string 2	0	0.0741	2	19010.	0.075
waste				0.	
lg				0.	
lg ore				3115.	0.030
ore				6283.	0.060
hg ore				9613.	0.100
very hg ore				0.	
Material Total				19010.	0.075
string 2				19010.	0.075
string 1 & 2				36406.	0.099
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				36406.	0.099
waste	W	0.0741	98	171175.	

S U R P A C

PHASE I

LAYER 7150.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	15077.	0.108
waste				0.	
lg				2169.	0.012
lg ore				0.	
ore				2204.	0.066
hg ore				8136.	0.100
very hg ore				2568.	0.250
Material Total				15077.	0.108
string 1				15077.	0.108
string 2	O	0.0741	2	17955.	0.052
waste				0.	
lg				10440.	0.016
lg ore				2079.	0.050
ore				0.	
hg ore				4772.	0.100
very hg ore				665.	0.300
Material Total				17955.	0.052
string 2				17955.	0.052
string 1 & 2				33033.	0.078
string 3	O	0.0741	3	4785.	0.100
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				4785.	0.100
very hg ore				0.	
Material Total				4785.	0.100
string 3				4785.	0.100
string 1+2+3				37818.	0.081
waste	W	0.0741	98	135326.	

S U R P A C

PHASE I
LAYER 7170.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	13888.	0.051
waste				509.	0.005
lg				7934.	0.020
lg ore				1131.	0.050
ore				2050.	0.068
hg ore				2263.	0.154
very hg ore				0.	
Material Total				13888.	0.051
string 1				13888.	0.051
string 2	O	0.0741	2	8456.	0.091
waste				0.	
lg				0.	
lg ore				2.	0.050
ore				3893.	0.080
hg ore				4561.	0.100
very hg ore				0.	
Material Total				8456.	0.091
string 2				8456.	0.091
string 1 & 2				22344.	0.066
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				22344.	0.066
waste	W	0.0741	98	156825.	

S U R P A C

PHASE I
LAYER 7190.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	15719.	0.048
waste				1192.	0.007
lg				6048.	0.016
lg ore				5023.	0.040
ore				1780.	0.076
hg ore				472.	0.110
very hg ore				1205.	0.213
Material Total				15719.	0.048
string 1				15719.	0.048
string 2	O	0.0741	2	1909.	0.050
waste				0.	
lg				0.	
lg ore				1909.	0.050
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				1909.	0.050
string 2				1909.	0.050
string 1 & 2				17628.	0.048
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				17628.	0.048
waste	W	0.0741	98	119511.	

S U R P A C

PHASE I
LAYER 7210.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	18335.	0.034
waste				4027.	0.005
lg				10059.	0.012
lg ore				2320.	0.042
ore				0.	
hg ore				1421.	0.118
very hg ore				508.	0.430
Material Total				18335.	0.034
string 1				18335.	0.034
string 2	0	0.0741	2	2581.	0.055
waste				0.	
lg				0.	
lg ore				2581.	0.055
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				2581.	0.055
string 2				2581.	0.055
string 1 & 2				20916.	0.037
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				20916.	0.037
waste	W	0.0741	98	114613.	

S U R P A C

PHASE I

LAYER 7230.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	1812.	0.055
waste				0.	
lg				0.	
lg ore				1812.	0.055
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				1812.	0.055
string 1				1812.	0.055
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				1812.	0.055
string 3	0	0.0741	3	6531.	0.040
waste				0.	
lg				0.	
lg ore				6531.	0.040
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				6531.	0.040
string 3				6531.	0.040
string 1+2+3				8343.	0.043
waste	W	0.0741	98	102861.	

S U R P A C

PHASE I
LAYER 7250.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	80638.	

S U R P A C

PHASE I

LAYER 7270.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	45830.	

S U R P A C

PHASE I

LAYER 7290.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	30107.	

S U R P A C

PHASE I

LAYER 7310.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	9B	4767.	

S U R P A C

PHASE I

LAYER 7330.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	361.	

S U R P A C

PHASE I
Final Summary

Date: 21-OCT-87

MATERIAL		STR RNGE	TONNES	gold
string 1				
	waste	1	6905.	0.006
	lg	1	32649.	0.015
	lg ore	1	10286.	0.044
	ore	1	17803.	0.069
	hg ore	1	53366.	0.130
	very hg ore	1	16964.	0.296
	Material Total		137974.	0.103
	string 1		137974.	0.103
string 2				
	waste	2	0.	
	lg	2	10440.	0.016
	lg ore	2	13622.	0.041
	ore	2	23693.	0.064
	hg ore	2	58792.	0.106
	very hg ore	2	2014.	0.333
	Material Total		108561.	0.084
	string 2		108561.	0.084
	string 1 & 2		246535.	0.095
string 3				
	waste	3	0.	
	lg	3	0.	
	lg ore	3	6531.	0.040
	ore	3	1420.	0.090
	hg ore	3	14842.	0.100
	very hg ore	3	0.	
	Material Total		22793.	0.082
	string 3		22793.	0.082
	string 1+2+3		269328.	0.094
stopes		5	0.	
waste		98	1202564.	

S U R P A C

FINAL PHASE
LAYER 6990.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	15411.	0.137
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				15411.	0.137
very hg ore				0.	
Material Total				15411.	0.137
string 1				15411.	0.137
string 2	0	0.0741	2	20200.	0.110
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				20200.	0.110
very hg ore				0.	
Material Total				20200.	0.110
string 2				20200.	0.110
string 1 & 2				35612.	0.121
string 3	0	0.0741	3	52032.	0.105
waste				0.	
lg				0.	
lg ore				0.	
ore				6599.	0.075
hg ore				45433.	0.110
very hg ore				0.	
Material Total				52032.	0.105
string 3				52032.	0.105
string 1+2+3				97644.	0.112
waste	W	0.0741	98	3939.	

S U R P A C

FINAL PHASE
LAYER 7010.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	8566.	0.151
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				8566.	0.151
very hg ore				0.	
Material Total				8566.	0.151
string 1				8566.	0.151
string 2	O	0.0741	2	60394.	0.117
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				60394.	0.117
very hg ore				0.	
Material Total				60394.	0.117
string 2				60394.	0.117
string 1 & 2				68960.	0.121
string 3	O	0.0741	3	27896.	0.107
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				27896.	0.107
very hg ore				0.	
Material Total				27896.	0.107
string 3				27896.	0.107
string 1+2+3				96856.	0.117
waste	W	0.0741	98	27213.	

S U R P A C

FINAL PHASE
LAYER 7030.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	18982.	0.129
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				18982.	0.129
very hg ore				0.	
Material Total				18982.	0.129
string 1				18982.	0.129
string 2	0	0.0741	2	49027.	0.116
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				49027.	0.116
very hg ore				0.	
Material Total				49027.	0.116
string 2				49027.	0.116
string 1 & 2				68008.	0.119
string 3	0	0.0741	3	29125.	0.108
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				29125.	0.108
very hg ore				0.	
Material Total				29125.	0.108
string 3				29125.	0.108
string 1+2+3				97133.	0.116
waste	W	0.0741	98	59881.	

S U R P A C

FINAL PHASE
LAYER 7050.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	22538.	0.132
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				22538.	0.132
very hg ore				0.	
Material Total				22538.	0.132
string 1				22538.	0.132
string 2	0	0.0741	2	50547.	0.111
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				50547.	0.111
very hg ore				0.	
Material Total				50547.	0.111
string 2				50547.	0.111
string 1 & 2				73085.	0.118
string 3	0	0.0741	3	31404.	0.109
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				31404.	0.109
very hg ore				0.	
Material Total				31404.	0.109
string 3				31404.	0.109
string 1+2+3				104489.	0.115
waste	W	0.0741	98	142956.	

S U R P A C

FINAL PHASE
LAYER 7070.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	26407.	0.137
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				26407.	0.137
very hg ore				0.	
Material Total				26407.	0.137
string 1				26407.	0.137
string 2	O	0.0741	2	44745.	0.104
waste				0.	
lg				0.	
lg ore				0.	
ore				21223.	0.093
hg ore				23522.	0.113
very hg ore				0.	
Material Total				44745.	0.104
string 2				44745.	0.104
string 1 & 2				71151.	0.116
string 3	O	0.0741	3	30747.	0.113
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				30747.	0.113
very hg ore				0.	
Material Total				30747.	0.113
string 3				30747.	0.113
string 1+2+3				101898.	0.115
waste	W	0.0741	98	182543.	

S U R P A C

FINAL PHASE
LAYER 7090.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	27041.	0.118
waste				0.	
lg				0.	
lg ore				0.	
ore				17312.	0.080
hg ore				3701.	0.160
very hg ore				6028.	0.200
Material Total				27041.	0.118
string 1				27041.	0.118
string 2	0	0.0741	2	64409.	0.091
waste				0.	
lg				0.	
lg ore				0.	
ore				34137.	0.068
hg ore				30272.	0.118
very hg ore				0.	
Material Total				64409.	0.091
string 2				64409.	0.091
string 1 & 2				91450.	0.099
string 3	0	0.0741	3	19748.	0.140
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				19748.	0.140
very hg ore				0.	
Material Total				19748.	0.140
string 3				19748.	0.140
string 1+2+3				111198.	0.106
waste	W	0.0741	98	291398.	

S U R P A C

FINAL PHASE
LAYER 7110.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	31164.	0.109
waste				0.	
lg				1285.	0.020
lg ore				0.	
ore				15225.	0.072
hg ore				12671.	0.100
very hg ore				1983.	0.514
Material Total				31164.	0.109
string 1				31164.	0.109
string 2	O	0.0741	2	47235.	0.113
waste				0.	
lo				0.	
lg ore				3936.	0.031
ore				6551.	0.065
hg ore				35399.	0.121
very hg ore				1349.	0.350
Material Total				47235.	0.113
string 2				47235.	0.113
string 1 & 2				78399.	0.111
string 3	O	0.0741	3	31497.	0.106
waste				0.	
lg				0.	
lg ore				0.	
ore				17278.	0.084
hg ore				14219.	0.132
very hg ore				0.	
Material Total				31497.	0.106
string 3				31497.	0.106
string 1+2+3				109896.	0.110
waste	W	0.0741	98	343643.	

S U R P A C

FINAL PHASE
LAYER 7130.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	0	0.0741	1	33260.	0.113
waste				1178.	0.008
lg				5153.	0.015
lg ore				0.	
ore				6393.	0.062
hg ore				15863.	0.100
very hg ore				4673.	0.360
Material Total				33260.	0.113
string 1				33260.	0.113
string 2	0	0.0741	2	65061.	0.106
waste				0.	
lg				0.	
lg ore				3115.	0.030
ore				16134.	0.065
hg ore				45812.	0.125
very hg ore				0.	
Material Total				65061.	0.106
string 2				65061.	0.106
string 1 & 2				98321.	0.108
string 3	0	0.0741	3	18423.	0.114
waste				0.	
lg				0.	
lg ore				0.	
ore				9505.	0.080
hg ore				8918.	0.150
very hg ore				0.	
Material Total				18423.	0.114
string 3				18423.	0.114
string 1+2+3				116744.	0.109
waste	W	0.0741	98	481149.	

S U R P A C

FINAL PHASE
LAYER 7150.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	36759.	0.106
waste				0.	
lg				2169.	0.012
lg ore				0.	
ore				11089.	0.077
hg ore				20933.	0.114
very hg ore				2568.	0.250
Material Total				36759.	0.106
string 1				36759.	0.106
string 2	O	0.0741	2	51508.	0.103
waste				0.	
lg				15574.	0.015
lg ore				2611.	0.050
ore				0.	
hg ore				32658.	0.145
very hg ore				665.	0.300
Material Total				51508.	0.103
string 2				51508.	0.103
string 1 & 2				88267.	0.104
string 3	O	0.0741	3	24415.	0.082
waste				0.	
lg				0.	
lg ore				0.	
ore				16440.	0.074
hg ore				7976.	0.100
very hg ore				0.	
Material Total				24415.	0.082
string 3				24415.	0.082
string 1+2+3				112682.	0.099
waste	W	0.0741	98	439271.	

S U R P A C

FINAL PHASE
LAYER 7170.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	29682.	0.072
waste				509.	0.005
lg				7935.	0.020
lg ore				1131.	0.050
ore				11391.	0.081
hg ore				8716.	0.114
very hg ore				0.	
Material Total				29682.	0.072
string 1				29682.	0.072
string 2	O	0.0741	2	78101.	0.106
waste				3640.	0.005
lg				10094.	0.010
lg ore				8758.	0.050
ore				3893.	0.080
hg ore				51717.	0.144
very hg ore				0.	
Material Total				78101.	0.106
string 2				78101.	0.106
string 1 & 2				107783.	0.097
string 3	O	0.0741	3	5210.	0.010
waste				0.	
lg				5210.	0.010
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				5210.	0.010
string 3				5210.	0.010
string 1+2+3				112993.	0.093
stopes	V	0.0741	5	2836.	1.000
waste	W	0.0741	98	464841.	

S U R P A C

FINAL PHASE
LAYER 7190.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	41864.	0.095
waste				1192.	0.007
lg				12373.	0.013
lg ore				4642.	0.038
ore				5175.	0.084
hg ore				7422.	0.133
very hg ore				11060.	0.201
Material Total				41864.	0.095
string 1				41864.	0.095
string 2	O	0.0741	2	36890.	0.087
waste				1993.	0.006
lg				6103.	0.015
lg ore				4874.	0.047
ore				6787.	0.083
hg ore				11560.	0.105
very hg ore				5572.	0.200
Material Total				36890.	0.087
string 2				36890.	0.087
string 1 & 2				78753.	0.092
string 3	O	0.0741	3	19665.	0.096
waste				0.	
lg				3025.	0.010
lg ore				8478.	0.050
ore				0.	
hg ore				8162.	0.175
very hg ore				0.	
Material Total				19665.	0.096
string 3				19665.	0.096
string 1+2+3				98418.	0.092
stopes	V	0.0741	5	2929.	1.000
waste	W	0.0741	98	440344.	

S U R P A C

FINAL PHASE
LAYER 7210.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	46330.	0.074
waste				4027.	0.005
lg				15630.	0.013
lg ore				2709.	0.042
ore				5961.	0.095
hg ore				17495.	0.132
very hg ore				508.	0.430
Material Total				46330.	0.074
string 1				46330.	0.074
string 2	O	0.0741	2	33037.	0.076
waste				0.	
lg				8082.	0.013
lg ore				10893.	0.052
ore				8763.	0.089
hg ore				0.	
very hg ore				5299.	0.200
Material Total				33037.	0.076
string 2				33037.	0.076
string 1 & 2				79367.	0.075
string 3	O	0.0741	3	17508.	0.111
waste				0.	
lg				1094.	0.010
lg ore				2949.	0.030
ore				5408.	0.080
hg ore				8057.	0.175
very hg ore				0.	
Material Total				17508.	0.111
string 3				17508.	0.111
string 1+2+3				96875.	0.081
stopes	V	0.0741	5	2923.	1.000
waste	W	0.0741	98	481075.	

S U R P A C

FINAL PHASE
LAYER 7230.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	34927.	0.098
waste				0.	
lg				5213.	0.017
lg ore				13759.	0.047
ore				2010.	0.090
hg ore				8914.	0.149
very hg ore				5030.	0.230
Material Total				34927.	0.098
string 1				34927.	0.098
string 2	O	0.0741	2	19124.	0.082
waste				1469.	0.005
lg				1292.	0.016
lg ore				1538.	0.055
ore				10400.	0.084
hg ore				4424.	0.131
very hg ore				0.	
Material Total				19124.	0.082
string 2				19124.	0.082
string 1 & 2				54051.	0.092
string 3	O	0.0741	3	17017.	0.065
waste				0.	
lg				6097.	0.016
lg ore				6531.	0.040
ore				0.	
hg ore				4389.	0.170
very hg ore				0.	
Material Total				17017.	0.065
string 3				17017.	0.065
string 1+2+3				71068.	0.086
stopes	V	0.0741	5	2909.	1.000
waste	W	0.0741	98	478533.	

S U R P A C

FINAL PHASE
LAYER 7250.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	18546.	0.072
waste				2183.	0.005
lg				8867.	0.018
lg ore				1908.	0.050
ore				0.	
hg ore				1364.	0.100
very hg ore				4224.	0.222
Material Total				18546.	0.072
string 1				18546.	0.072
string 2	O	0.0741	2	36406.	0.079
waste				843.	0.005
lg				11935.	0.012
lg ore				6088.	0.045
ore				7787.	0.074
hg ore				5252.	0.106
very hg ore				4502.	0.290
Material Total				36406.	0.079
string 2				36406.	0.079
string 1 & 2				54953.	0.076
string 3	O	0.0741	3	4138.	0.064
waste				0.	
lg				2748.	0.010
lg ore				0.	
ore				0.	
hg ore				1390.	0.170
very hg ore				0.	
Material Total				4138.	0.064
string 3				4138.	0.064
string 1+2+3				59091.	0.076
stopes	V	0.0741	5	4633.	1.000
waste	W	0.0741	98	455512.	

S U R P A C

FINAL PHASE
LAYER 7270.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	1978.	0.051
waste				0.	
lg				0.	
lg ore				1446.	0.045
ore				532.	0.066
hg ore				0.	
very hg ore				0.	
Material Total				1978.	0.051
string 1				1978.	0.051
string 2	O	0.0741	2	39068.	0.048
waste				1498.	0.005
lg				21756.	0.014
lg ore				2954.	0.044
ore				5787.	0.080
hg ore				7072.	0.134
very hg ore				0.	
Material Total				39068.	0.048
string 2				39068.	0.048
string 1 & 2				41046.	0.048
string 3	O	0.0741	3	7197.	0.013
waste				0.	
lg				7197.	0.013
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				7197.	0.013
string 3				7197.	0.013
string 1+2+3				48242.	0.043
stopes	V	0.0741	5	5445.	1.000
waste	W	0.0741	98	406889.	

S U R P A C

FINAL PHASE
LAYER 7290.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	3891.	0.061
waste				0.	
lg				1502.	0.015
lg ore				0.	
ore				2389.	0.090
hg ore				0.	
very hg ore				0.	
Material Total				3891.	0.061
string 1				3891.	0.061
string 2	O	0.0741	2	39938.	0.049
waste				0.	
lg				22031.	0.015
lg ore				6300.	0.044
ore				7389.	0.086
hg ore				4219.	0.167
very hg ore				0.	
Material Total				39938.	0.049
string 2				39938.	0.049
string 1 & 2				43829.	0.050
string 3	O	0.0741	3	3598.	0.014
waste				0.	
lg				3598.	0.014
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				3598.	0.014
string 3				3598.	0.014
string 1+2+3				47428.	0.047
stopes	V	0.0741	5	7092.	1.000
waste	W	0.0741	98	387026.	

S U R P A C

FINAL PHASE
LAYER 7310.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	1572.	0.020
waste				0.	
lg				1572.	0.020
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				1572.	0.020
string 1				1572.	0.020
string 2	O	0.0741	2	28416.	0.060
waste				0.	
lg				9528.	0.018
lg ore				9488.	0.043
ore				5790.	0.083
hg ore				1982.	0.160
very hg ore				1629.	0.200
Material Total				28416.	0.060
string 2				28416.	0.060
string 1 & 2				29988.	0.058
string 3	O	0.0741	3	4131.	0.010
waste				0.	
lg				4131.	0.010
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				4131.	0.010
string 3				4131.	0.010
string 1+2+3				34119.	0.052
stopes	V	0.0741	5	7398.	1.000
waste	W	0.0741	98	510972.	

S U R P A C

FINAL PHASE
LAYER 7330.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	15285.	0.063
waste				0.	
lg				1747.	0.020
lg ore				12285.	0.047
ore				0.	
hg ore				0.	
very hg ore				1253.	0.280
Material Total				15285.	0.063
string 1				15285.	0.063
string 2	O	0.0741	2	23785.	0.056
waste				0.	
lg				5593.	0.015
lg ore				10399.	0.048
ore				5838.	0.088
hg ore				1955.	0.125
very hg ore				0.	
Material Total				23785.	0.056
string 2				23785.	0.056
string 1 & 2				39070.	0.059
string 3	O	0.0741	3	736.	0.025
waste				0.	
lg				736.	0.025
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				736.	0.025
string 3				736.	0.025
string 1+2+3				39806.	0.058
stopes	V	0.0741	5	9254.	1.000
waste	W	0.0741	98	328976.	

S U R P A C

FINAL PHASE
LAYER 7350.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	6577.	0.077
waste				0.	
lg				1577.	0.015
lg ore				0.	
ore				3369.	0.090
hg ore				1630.	0.110
very hg ore				0.	
Material Total				6577.	0.077
string 1				6577.	0.077
string 2	O	0.0741	2	29059.	0.055
waste				0.	
lg				5219.	0.019
lg ore				17074.	0.048
ore				5640.	0.069
hg ore				0.	
very hg ore				1125.	0.250
Material Total				29059.	0.055
string 2				29059.	0.055
string 1 & 2				35636.	0.059
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				35636.	0.059
stopes	V	0.0741	5	8392.	1.000
waste	W	0.0741	98	261051.	

S U R P A C

FINAL PHASE
LAYER 7370.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	3183.	0.129
waste				0.	
lg				429.	0.025
lg ore				0.	
ore				0.	
hg ore				1670.	0.110
very hg ore				1083.	0.200
Material Total				3183.	0.129
string 1				3183.	0.129
string 2	O	0.0741	2	32745.	0.041
waste				0.	
lg				11622.	0.015
lg ore				18776.	0.047
ore				1362.	0.070
hg ore				0.	
very hg ore				986.	0.200
Material Total				32745.	0.041
string 2				32745.	0.041
string 1 & 2				35928.	0.049
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				35928.	0.049
stopes	V	0.0741	5	7566.	1.000
waste	W	0.0741	98	224651.	

S U R P A C

FINAL PHASE
LAYER 7390.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
string 1	O	0.0741	1	4646.	0.128
waste				0.	
lg				0.	
lg ore				1364.	0.035
ore				0.	
hg ore				1328.	0.106
very hg ore				1954.	0.209
Material Total				4646.	0.128
string 1				4646.	0.128
string 2	O	0.0741	2	18007.	0.034
waste				0.	
lg				8681.	0.012
lg ore				7963.	0.047
ore				619.	0.060
hg ore				743.	0.140
very hg ore				0.	
Material Total				18007.	0.034
string 2				18007.	0.034
string 1 & 2				22653.	0.054
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				22653.	0.054
stopes	V	0.0741	5	6306.	1.000
waste	W	0.0741	98	190257.	

S U R P A C

FINAL PHASE
LAYER 7410.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
string 2	O	0.0741	2	76.	0.020
waste				0.	
lg				76.	0.020
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				76.	0.020
string 2				76.	0.020
string 1 & 2				76.	0.020
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				76.	0.020
stopes	V	0.0741	5	674.	1.000
waste	W	0.0741	98	147834.	

S U R P A C

FINAL PHASE
LAYER 7430.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	80974.	

S U R P A C

FINAL PHASE
LAYER 7450.0

Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	26161.	

S U R P A C

FINAL PHASE
LAYER 7470.0

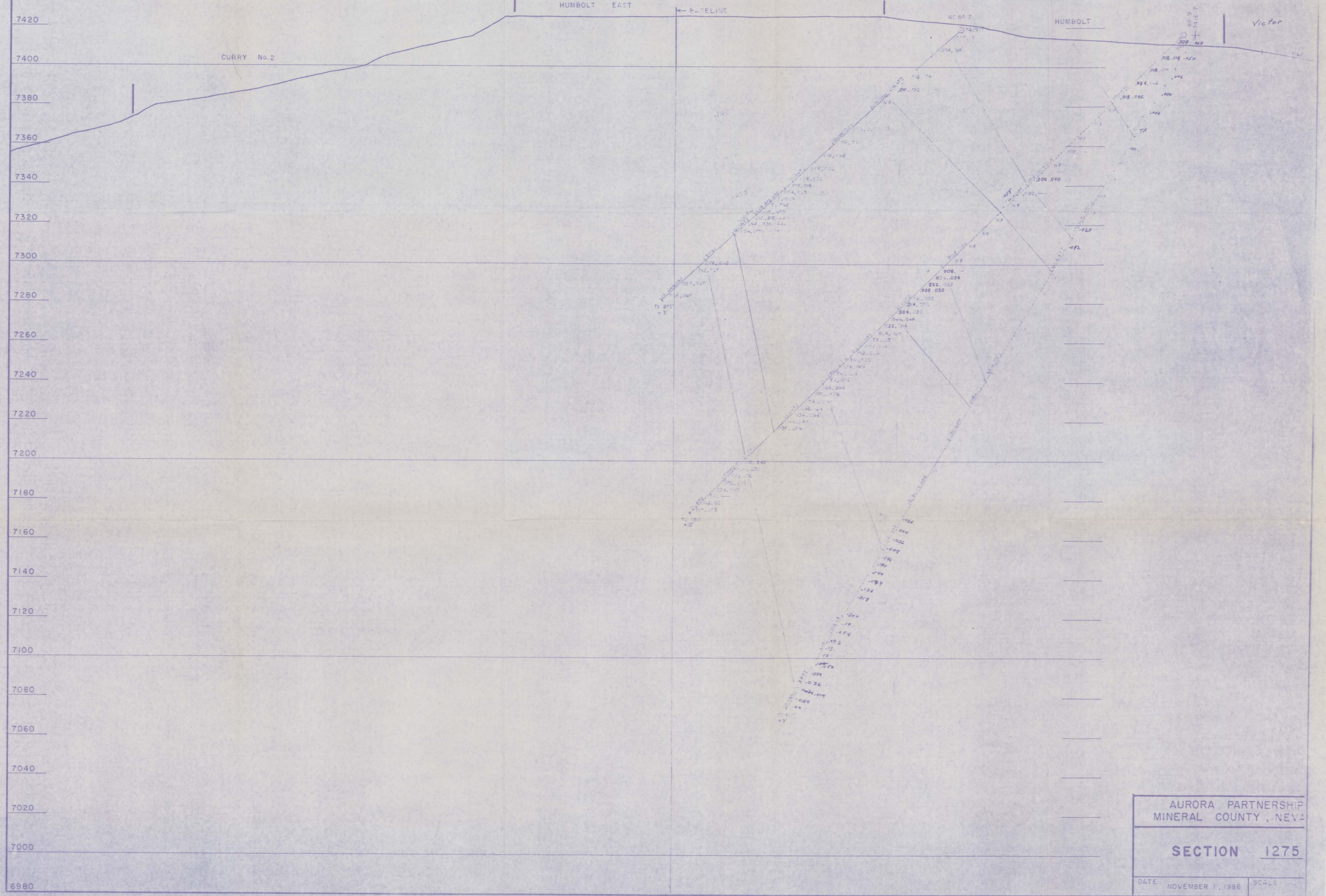
Date: 21-OCT-87

MATERIAL	TYPE	S.G.	STR.ISL	TONNES	gold
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 1				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 2				0.	
string 1 & 2				0.	
waste				0.	
lg				0.	
lg ore				0.	
ore				0.	
hg ore				0.	
very hg ore				0.	
Material Total				0.	
string 3				0.	
string 1+2+3				0.	
waste	W	0.0741	98	651.	

S U R P A C — FINAL PHASE — Date: 21-OCT-87

Final Summary

MATERIAL		STR RNGE	TONNES	gold
string 1				
	waste	1	9088.	0.006
	lg	1	65451.	0.016
	lg ore	1	39245.	0.045
	ore	1	80848.	0.079
	hg ore	1	193612.	0.127
	very hg ore	1	40364.	0.249
	Material Total		428609.	0.102
	string 1		428609.	0.102
string 2				
	waste	2	9443.	0.005
	lg	2	137587.	0.014
	lg ore	2	114766.	0.046
	ore	2	148099.	0.078
	hg ore	2	436755.	0.123
	very hg ore	2	21128.	0.235
	Material Total		867779.	0.089
	string 2		867779.	0.089
	string 1 & 2		1296387.	0.094
string 3				
	waste	3	0.	
	lg	3	33835.	0.012
	lg ore	3	17958.	0.043
	ore	3	55230.	0.079
	hg ore	3	237463.	0.120
	very hg ore	3	0.	
	Material Total		344486.	0.099
	string 3		344486.	0.099
	string 1+2+3		1640873.	0.095
stopes		5	68356.	1.000
waste		98	6857740.	

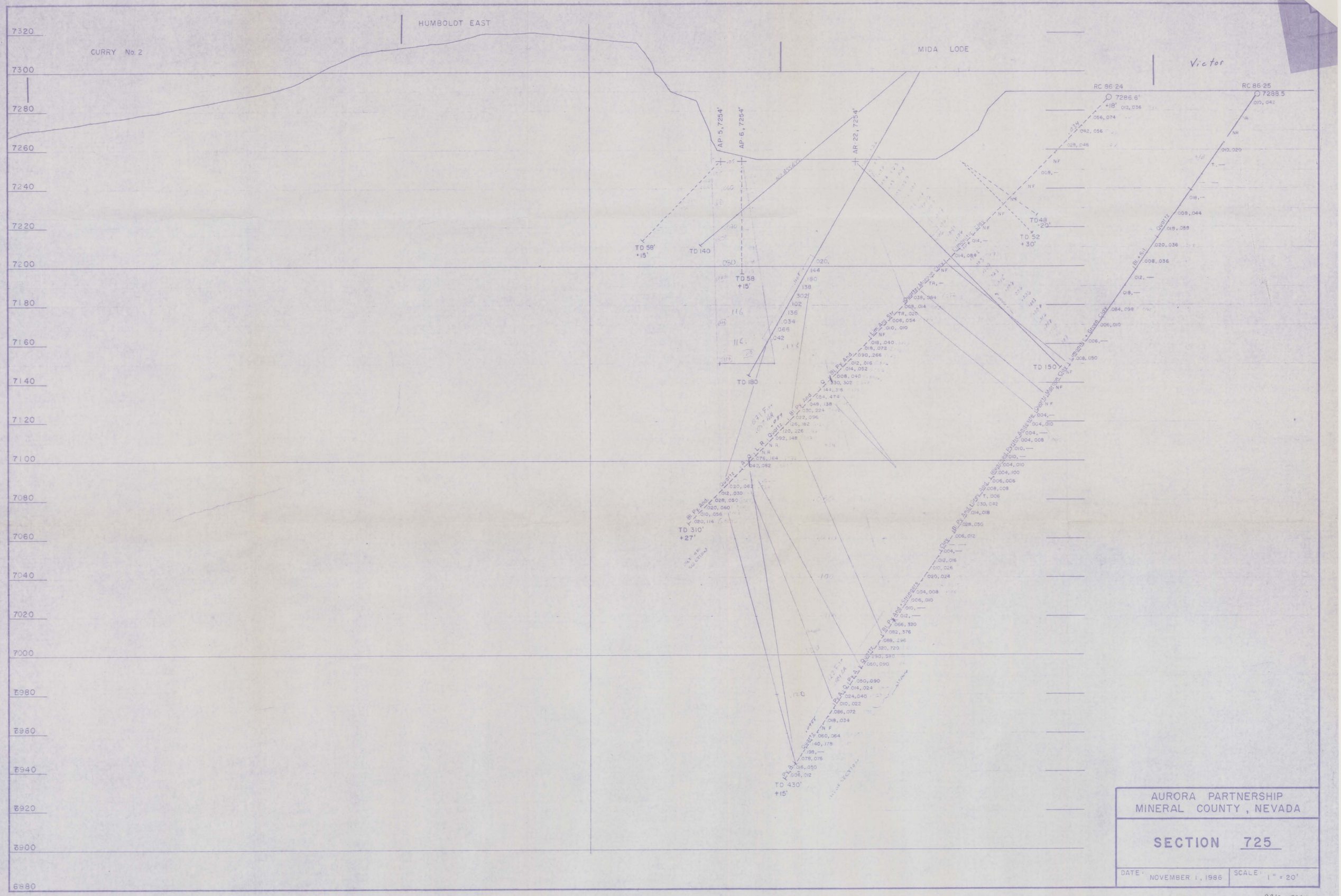


AURORA PARTNERSHIP
MINERAL COUNTY, NEVA

SECTION 1275

DATE: NOVEMBER 1, 1986 | SCALE:

0410 0067



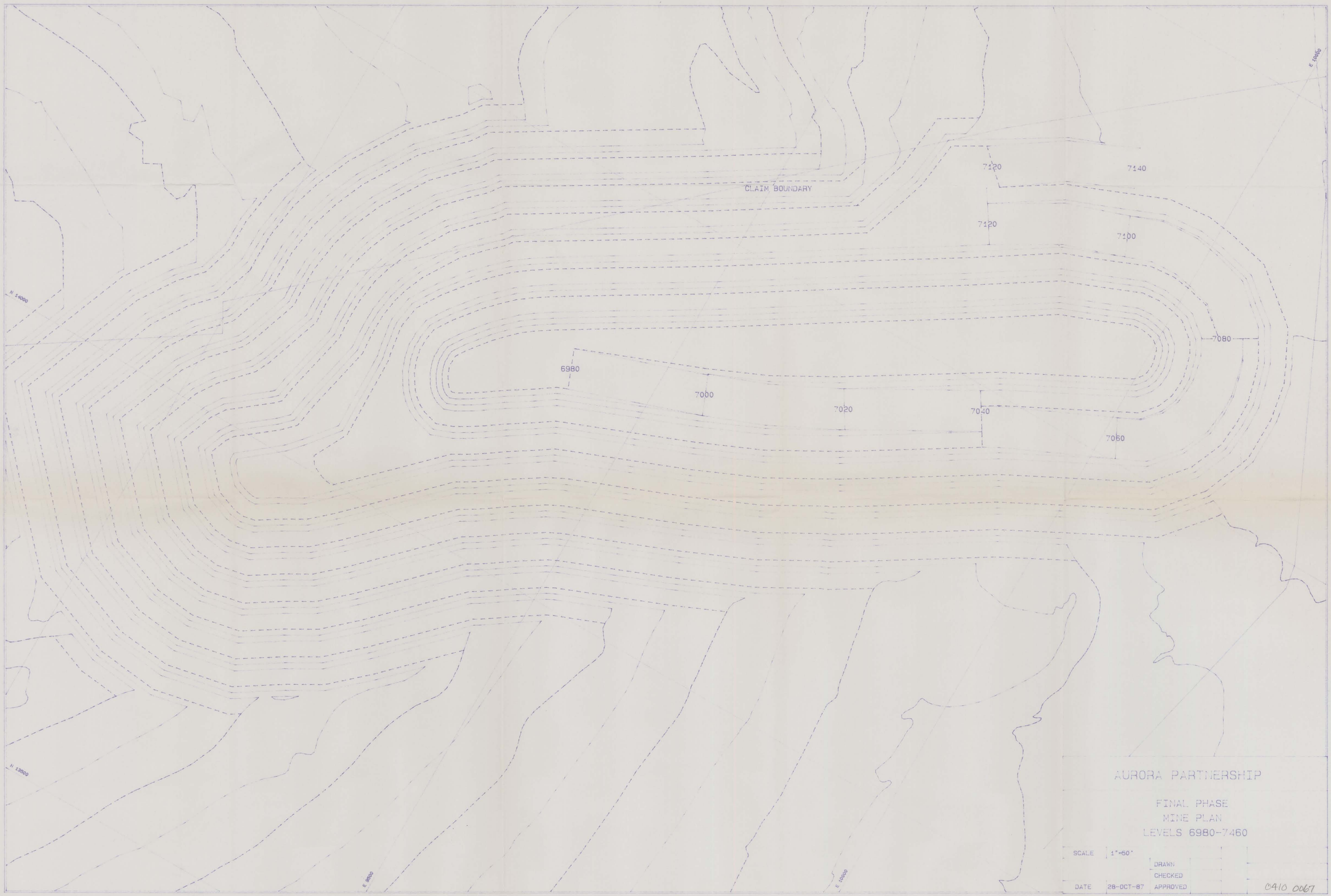
AURORA PARTNERSHIP
MINERAL COUNTY, NEVADA

SECTION 725

DATE: NOVEMBER 1, 1986

SCALE: 1" = 20'

0410 0067.



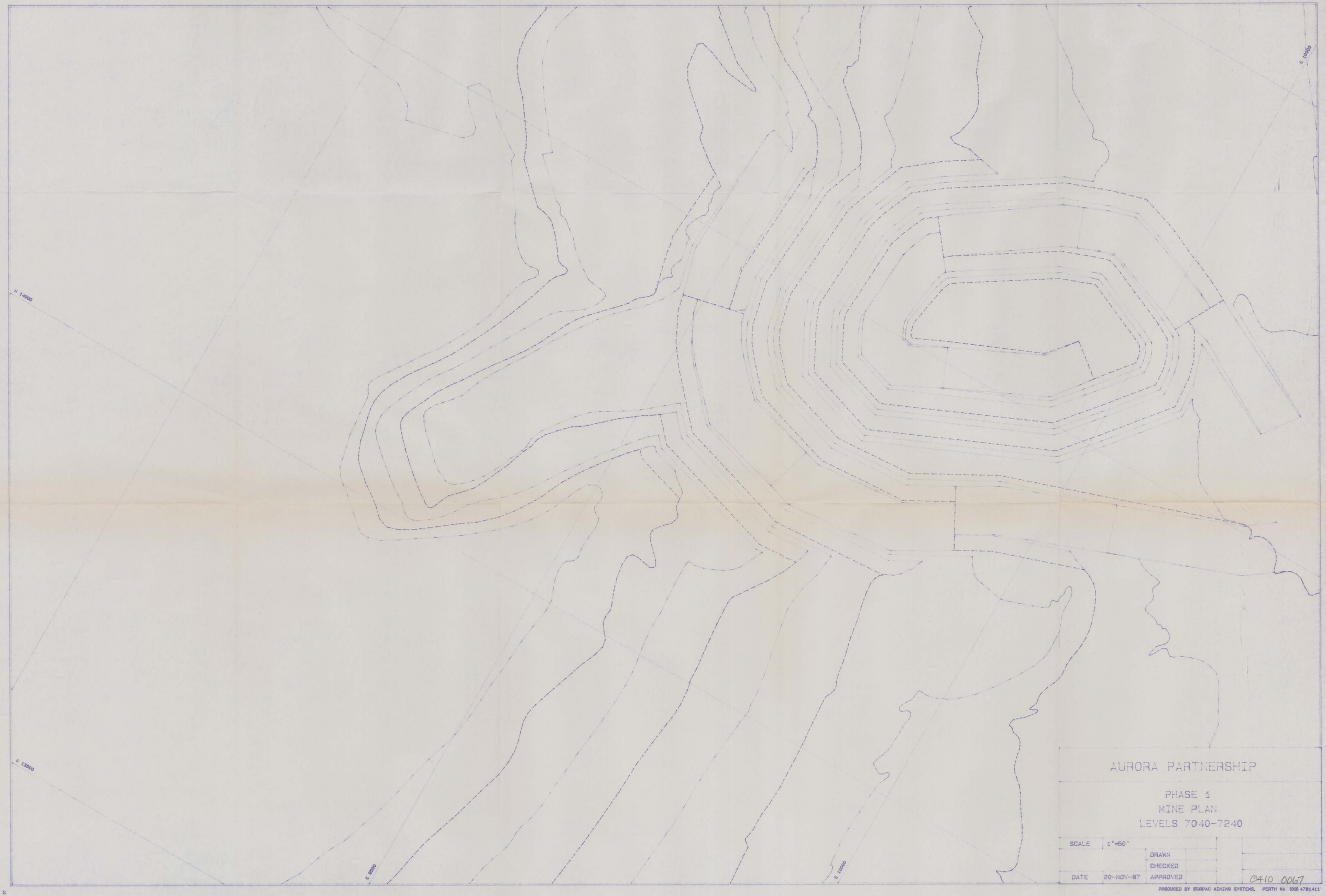
AURORA PARTNERSHIP

FINAL PHASE
MINE PLAN
LEVELS 6980-7460

SCALE	1"=50'		
		DRAWN	
		CHECKED	
DATE	28-OCT-87	APPROVED	

C410 0067

PRODUCED BY SURPAC MINING SYSTEMS, PERTH WA (09) 4781411



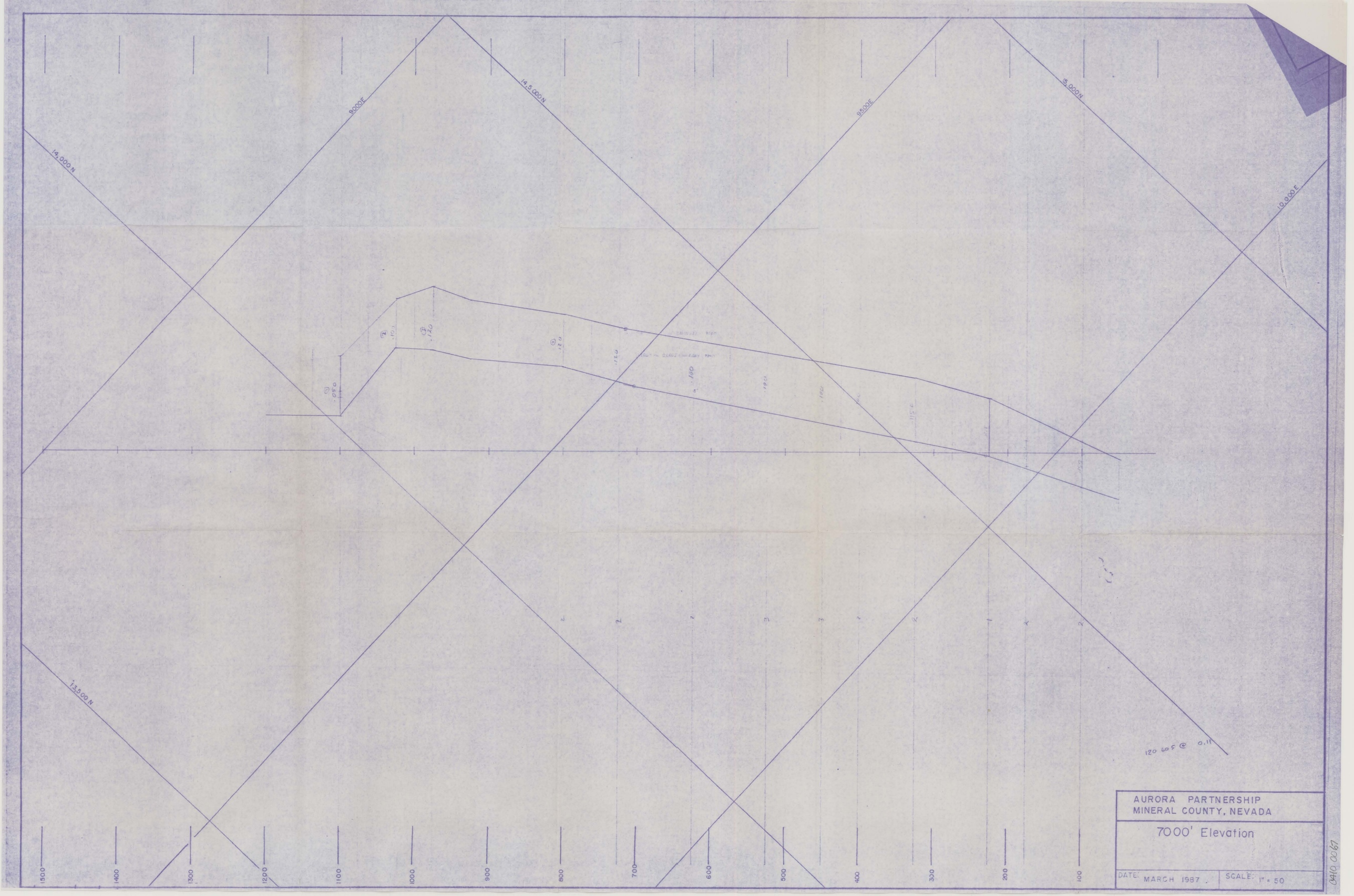
AURORA PARTNERSHIP

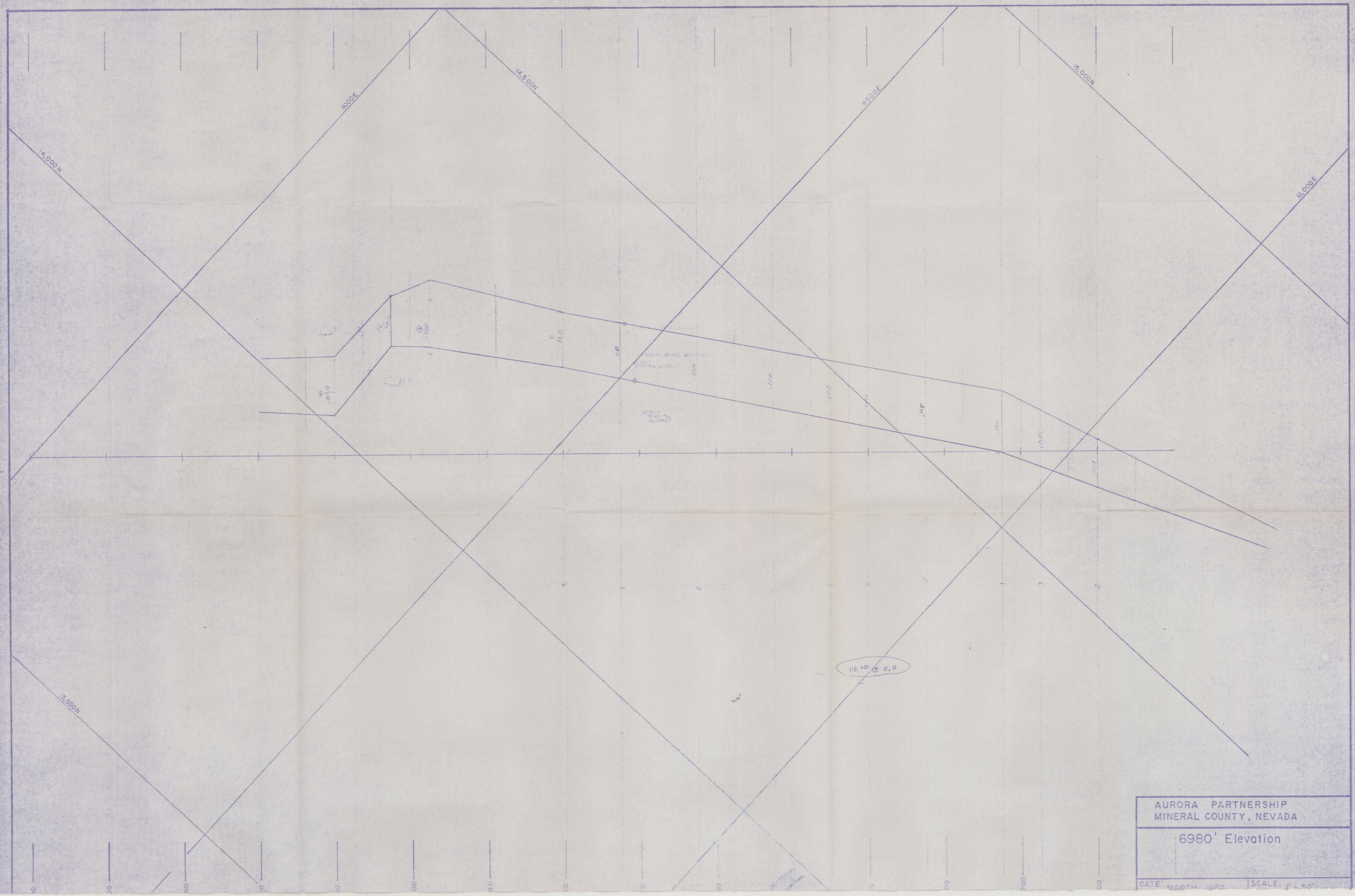
PHASE 1
MINE PLAN
LEVELS 7040-7240

SCALE	1"=50'		
		DRAWN	
		CHECKED	
DATE	20-NOV-87	APPROVED	

0410 0067

PRODUCED BY SURPAC MINING SYSTEMS, PERTH WA (09) 4781411


14,000 N
9000E
14,500 N
9500E
15,000 N
10,000 E
13,500 N
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
120 bcf @ 0.11
AURORA PARTNERSHIP
MINERAL COUNTY, NEVADA
7000' Elevation
DATE: MARCH 1987
SCALE: 1" = 50
0410 0067


14,000N
9000E
14,500N
9500E
15,000N
10,000E
13,500N
118,600 @ 0.11
AURORA PARTNERSHIP
MINERAL COUNTY, NEVADA
6980' Elevation
DATE:
SCALE: 1" = 50'