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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

2 of 2

PRIMARY NAME: CHARLESTON ROAD MILL

ALTERNATE NAMES:
- ALANCO CUSTOM MILL
- ARMCO MILL
- TOMBSTONE MILL
- ARIZONA MINERAL RESOURCES MILL

COCHISE COUNTY MILS NUMBER: 730

LOCATION: TOWNSHIP 20 S RANGE 22 E SECTION 21 QUARTER NW
LATITUDE: N 31DEG 40MIN 58SEC LONGITUDE: W 110DEG 06MIN 20SEC
TOPO MAP NAME: TOMBSTONE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
- MILL GRAVITY
- MILL CYANIDE
- MILL FLOTATION

BIBLIOGRAPHY:
- ADMMR CHARLESTON RAOD MILL FILE
- MILL HAS GRAVITY, CYANIDE AND FLOTAION

ARMCO FACILITY

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PART A

INTRODUCTION

TOMBSTONE METALLURGICAL FACILITY

FEASIBILTY ANALYSIS

This report has been prepared as an analysis of the present condition, past history and future potential of the Tombstone Metallurgical Facility.

In connection with any judgement making descision, on the economic viability of the Tombstone Facility, we believed an explanation of the past history and concept were essential.

Therein we have compiled and summarized the history of the Tombstone Facility from a time shortly before it was conceived unto it's present condition.

HISTORY

In the late 1960's, substantial interest had been generated in the Tombstone Mining District as a target for mineral exploration. Marked increases in the prices received for precious and base metals appear to have been the main catalyst for the increased interest. Therein, several major mining companies began extensive exploration through the use of geological and geophysical interpretation, along with drilling.

Tombstone Mineral Reserves, Inc., (TMR) now Alanco Ltd., though not major, was one of these companies. In addition to the exploration and development work performed in the area, TMR pursued extensive lab work on the large tonnage of dump material available in and around the Tombstone District. This work revealed an excellent potential for an economic program to process this dump tonnage and recover the precious and base metal values contained therein.

One should note that at this time, TMR controlled one of the large mineral land position in and around the Tombstone District.

The original concept of the Mill, derived from the test work, was a custom ore processing facility to run not only material that was controlled by TMR, but that which other small mine producers, in and around Tombstone, could produce if only there was a facility available to them.

Therein TMR engineered and began construction of the facilty in the early 1970's. Due to economic setbacks the corporation encountered, the partially completed facility lay dormant until

the resurgence of the metals industry in the late 1970's, early 1980's.

In 1980, TMR acquired a mining service company called Alanco Ltd. and. upon acquisition, changed the name of TMR to Alanco Ltd. Alanco Ltd. was engaged in performing such services as mining claim layout, title abstract preparation and many geological exploration techniques. Through these services Alanco Ltd. began to participate in many mining projects and this prompted the company to review the concept of the Tombstone Metallurgical Facility.

Though outside financing was not available for the facility, a group of private investors supplied the needed capital to construct and install a gravity concentration and cyanide agitated leach circuits. These circuits, limited in capacity, were capable of processing high grade ores with reasonable recovery percentages. However, upon the completion of these circuits a depressed metals market was encountered which precluded the economic processing of many of the ore sources available to the Facility.

Anticipating an trend in the metals market, Alanco pursued two objectives. The first objective was the availability of high grade and medium grade ore sources for processing at the facility. Alanco researched the availability of these ore sources throughout Cochise County, southwestern New Mexico, and the Sonora and Chihuahua States of the Republic of Mexico. The survey determined that there was sufficient ore available if the crushing and agitated leach circuits were expanded. This coincided with the second objective which was the processing of the Gravity concentrates being produced by the COD Mine, which the Company owned an interest in.

Alanco expanded the crushing capacity to over 1,000 tons a day to minus 3/8 inch mesh and installed two large agitator tanks to the closed circuit agitated leach system. Unfortunately for Alanco, the projected increase in the prices for precious metals has not occured at this time.

Alanco Ltd. currently has completed a facility capable of processing high grade ores of small tonnage at today's prices for precious metals. The Facility is also capable of running lower grade ores, (small tonnage), at the prices which were current in 1982. This is not economically viable.

Therein Alanco Ltd. determined the facility would need to be capable of processing a wide variety of ores. It had to have the ability to process low grade ores at higher volumes, and be able to process these ores through the use of different concentrating methods combined with a variety of different chemical processes which are economical at today's metal prices and at lower market prices.

Alanco Ltd., by the production of this feasibity analysis, reviewed and documented what is a reasonable probability anaysis for such an ore processing facility.

We have looked at completing the facility based upon current prices of metals, from extreme varying grades of ores using standard recovery techniques and percentages and believe that this facility, as set forth herein, to be an economically viable project.

ARMCO MILL FACILITY

PRESENT CONDITION AND CURRENT CAPABILITIES

Alanco Ltd. has spent, to date, approximately Eight Hundred Sixty Five Thousand ($865,000.00) Dollars on the Mill Facility. The additional capital contribution of the private investor group of Six Hundred Thousand ($600,000) Dollars bring the current total investment in the Mill Facility to approximately One Million Four Hundred Sixty Five Thousand ($1,465,000.00) Dollars. This is based upon the additional equipment expenditures, construction costs capitalized, and the historical book value of the facility as carried on the books of Alanco Ltd. It is felt that replacement of the facilities buildings, conveyor superstructure, water supply system and ore bins would cost in excess of One Million ($1,000,000) Dollars, which taking into consideration the approximate book value it is carried at of One Hundred Fourteen Thousand (114,000), it would cost upwards of Two Million Three Hundred Fifty Thousand ($2,350,000) Dollars to replace the Facility as it now stands. This figure is felt to be somewhat conservative.

The current Mill Facility combines three forms of milling, cyanide closed circuit agitated leach, heap leach and gravity concentration. The Gravity circuit can process approximately 3 tons an hour or 75 tons a day on a 24 hour a day run. The cyanide closed circuit agitated leach system can process 14 tons an hour if the retention is calculated at one hour, however with the current limitation of the fine grind capacity at three tons an hour this would currently be beyond the systems capability. The heap leach system was designed to process 50 to 100 tons a day by loading the concrete cells, flooding with fresh cyanide solution, draining, then repeating the process, if recovery was enhanced sufficiently by doing so.

The current capabilities of each of the circuits presently operational at the facility are as follows:

1.) **CRUSHING CIRCUIT.** This circuit is completed to One Thousand (1,000) tons a day. It utilizes a 15" X 36" Universal Jaw Crusher for primary crushing and a Simons 3' short head cone

crusher for secondary crushing. Two coarse ore receiving bins will handle a combined capacity of Three Hundred (300) tons. Fine ore can either be conveyed to a fine ore storage bin or stacked on the ground. Pictures on pages 12, 13 and 14 show the crushing circuit that was completed in July of 1983. A flow diagram on page 20 shows the crushing circuit flow of ore.

2.) **GRINDING.** A 5' X 22" Harding Conical Ball Mill and a 4' X 16' custom made Rake Classifier have been installed to handle the fine grinding of ore. This currently feeds the Cyanide Agitator Tanks or the Gravity Tables, depending on the ore being processed, with a maximum capacity of three tons an hour. Pictures on page 17 show the existing grinding equipment.

3.) **FLOTATION.** An 8 cell flotation unit is currently installed in the Mill which was used in the initial stage as an agitator unit in the cyanide circuit before its conversion back to flotation. The conditioner tank is in position and the system needs minor plumbing to be able to process ore by flotation. This system when complete would have a maximum capacity of approximately 60 tons a day.

4.) **AGITATED LEACH.** One 5' X 6' and two 10' X 10' Agitator Tanks are currently being utilized in a Cyanide Agitated Leach Circuit. Pumps and high pressure pods along with air jets have been installed on the tanks all which aid in the processing of any ore in this circuit. These tanks as currently plumbed can be used as either batch or flow through processing. The maximum capacity is currently limited by the grinding circuit , which if sufficiently expanded, this circuit could process up to 500 tons a day. In order to achieve this capacity the retention time would need to be limited to less than two minutes. Pictures on pages 11, 16, 18 and 19 show various construction stages of the Vat Leaching Circuit. A flow diagram of this circuit can be found on page 23.

5.) **GRAVITY CONCENTRATION.** Two 6' X 16' Wilfley Concentration Tables have been installed. They are currently installed to run in series, with the middlings from the first table being feed to the second table and a concentrate split off of both tables being sent to a collection and drying pad with the tails being pumped to the tailing pond or to the cyanide circuit, whichever is best suited for the ore being processed. However, a splitter is installed in case an ore would have sufficient recovery to process only once across the tables, therein allowing the tables to operate in parallel. Pictures on page 17 show the 2 Gravity Tables. A flow diagram of the Gravity Table process can be found on page 21.

6.) **VAT LEACH (FLOOD).** Five cement Leaching Cells have been constructed. Each cell is 30' X 12' X 3' in size and can hold approximately 50 tons of crushed ore and are used for the flooding of ore opposed to the sprinkling method, this has been found to be more effective, by test results obtained at the facility, then conventional heap leach methods. Pictures on pages

14 and 15 show the newly constructed ponds. A flow diagram of the operation can be found on page 22.

7.) **HEAP LEACH.** A heap leach pad is installed with capacity of treating upwards of 200 T.P.D. subject to ore ameanabilities. Pad meets acceptable environmental standards and regulations.

8.) **MILL SOLUTION TANKS AND HOLDING PONDS.** Two ore storage bins have been converted over to Cyanide Solution Make-up Tanks that feed the Cyanide Circuit with fresh solution as needed. These tanks hold a combined capacity of 150 tons (36,000 gallons) of solution. Additional solution storage capacity is in three hypalon lined ponds, two pregnant solution ponds and one barren solution pond. Combined pregnant solution pond capacity is over 2,000 tons (480,000 gallons) and the barren solution pond capacity is 200 tons (48,000 gallons). Pictures on page 14 show the pregnant and barren solution ponds that take care of the heap leach cicuit. Four other ponds, 2 lined and 2 unlined, are not pictured.

9.) **WELL AND FRESH WATER STORAGE.** A well is located on the Mill sites and is capable of pumping approximately 60 gallons of water per minute. A water storage tank located near the crushing circuit is capable of storing 170 tons (41,000 gallons) of fresh water. A picture of the water storage tank can be found on page 11. The large horizontal tank is the fresh water storage tank.

10.) **LABORATORY.** The Facility has its own well equiped laboratory. A wide range of metallurgical testing can be performed at this facility including: fire assays, wet assays, flotation tests, gravity table tests, column leach tests, barrel leach tests, agitation leach tests and screen analysis along with many more all dealing with the design of a circuitry to most effectively recover the values contained in an ore.

Adjacent to the laboratory, there is a complete smelting and refining process located in this building. Two 120# hydraulic tilting furnaces are utilized to smelt zinc precipitates and one small furnace for anode and refined silver smelting. The current electrowinning process will refine approximately 300 ounces of Pictures of the laboratory and smelting facilities can be found on pages 25 through 34. A diagram of the laboratory can be found on page 24.

In addition to the pictures and diagrams mentioned throughout this summary on capabilitites, we have included an equipment list for the major items in inventory.

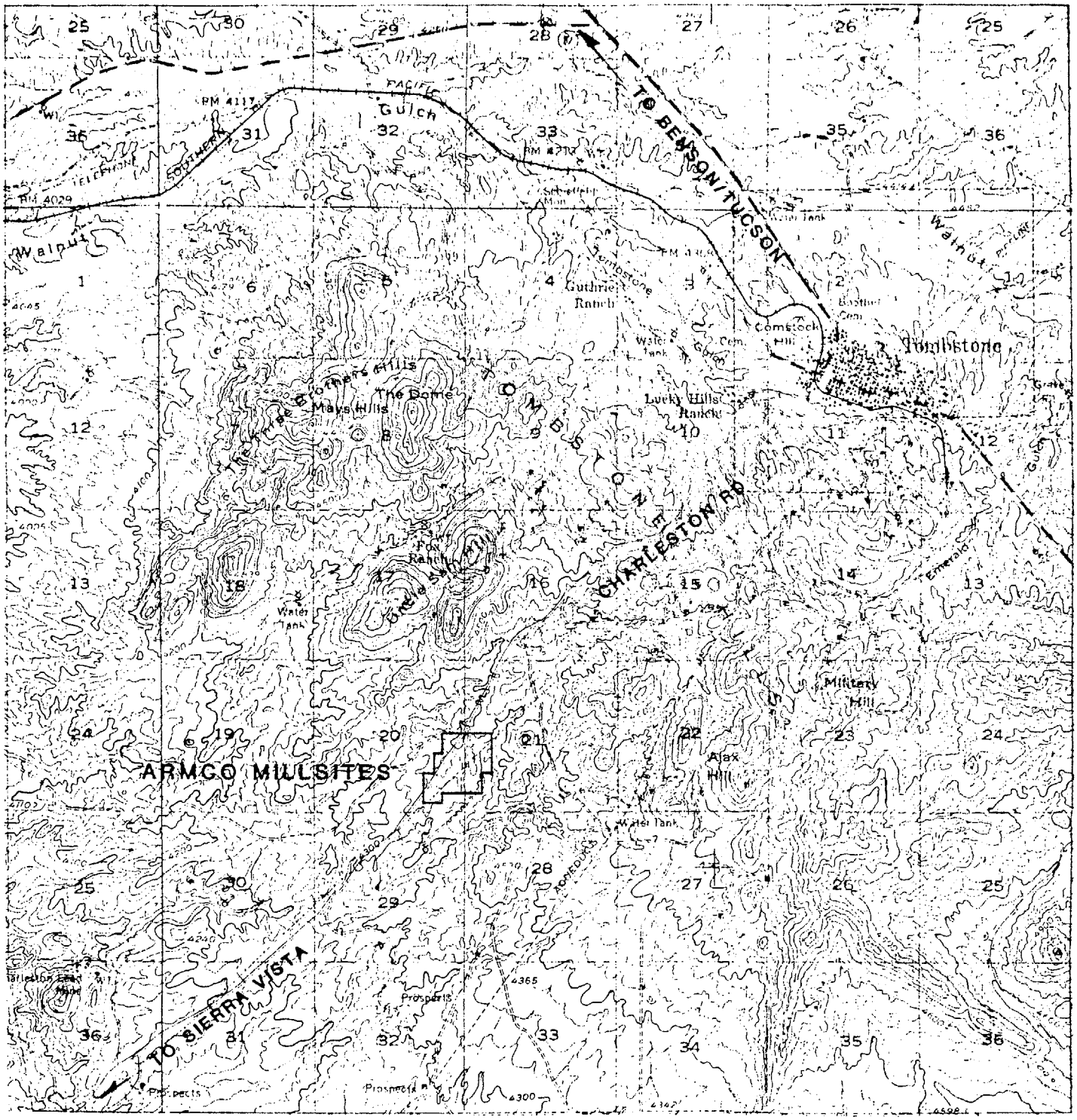
ARMCO MILL FACILITY

PROPERTY LOCATION AND DESCRIPTION

The Mill Facility is located in Cochise County, Arizona approximately Three and one-half miles Southwest of the city of Tombstone on the Charleston Road. The Charleston Road connects the town of Tombstone to Sierra Vista and Fort Huachuca which is approximately 18 miles west of Tombstone.

The original Mill Sites, there were four mill sites total, were located in the 1970's and encompassed an acreage position of Twenty acres. These Mill Sites were abandoned and relocated in 1985 for two reasons. The first reason was based upon the acreage that would need to be included for mill tailings disposal and expansion of the facilities processing capabilities. It was determined that there was only one feasible direction to take the mill tailings, which would necessitate expansion of the millsites, to the west which then dictated that any major expansion of the processing capabilities would need to be taken to the east of the present facility. The second reason was due to preliminary discussions with the United States Government, Arizona Office of the Bureau of Land Management, Department of Cadastral Survey. In this preliminary discussion it was pointed out that approval through Cadastral Survey would come quicker, thereby shortening the time requirements on processing patent application, if the millsites conformed to a subdivision survey.

Therein Alanco Ltd. relocated the Millsites, according to subdivision survey, and expanded the acreage to approximately 75 acres, being fifteen millsites in all. These millsites are now known as the ARMCO Millsite #1 through #15 and there proximity to the town of Tombstone is shown on the map on page 7. Additional maps on the following pages should afford the viewer a better understanding of the millsites and the facility layout.



LOCATION MAP

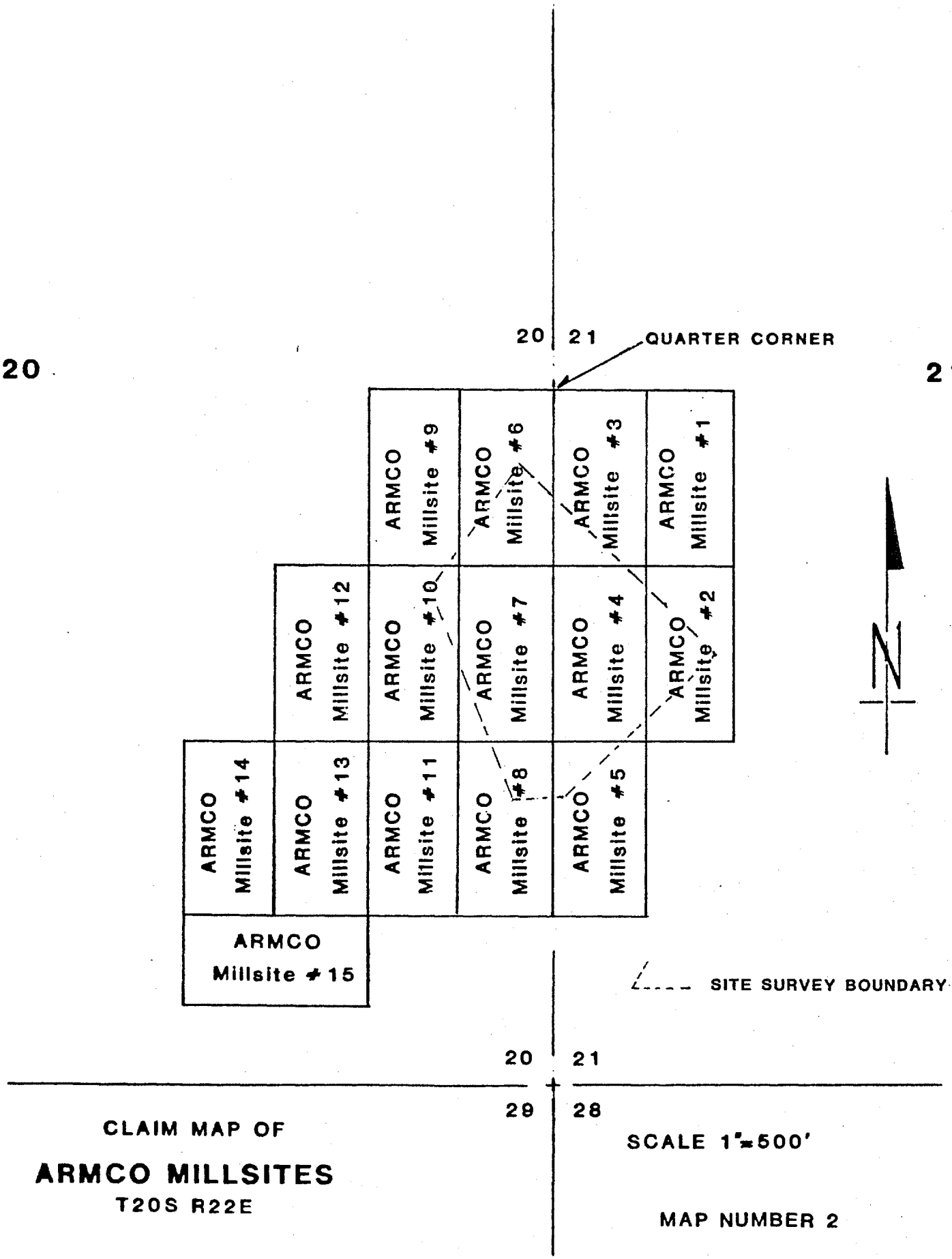
ARMCO MILLSITES

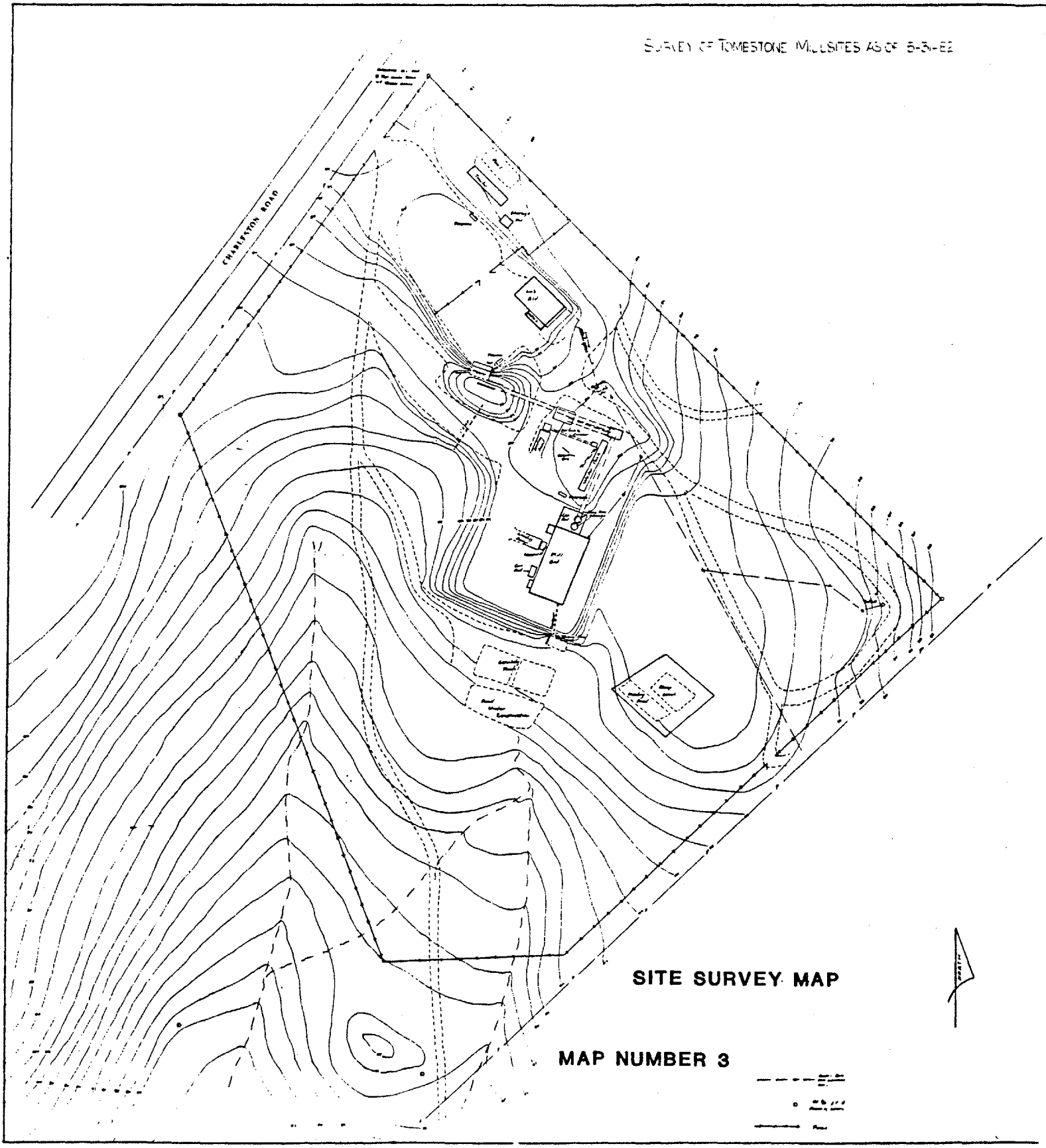
ALANCO LTD

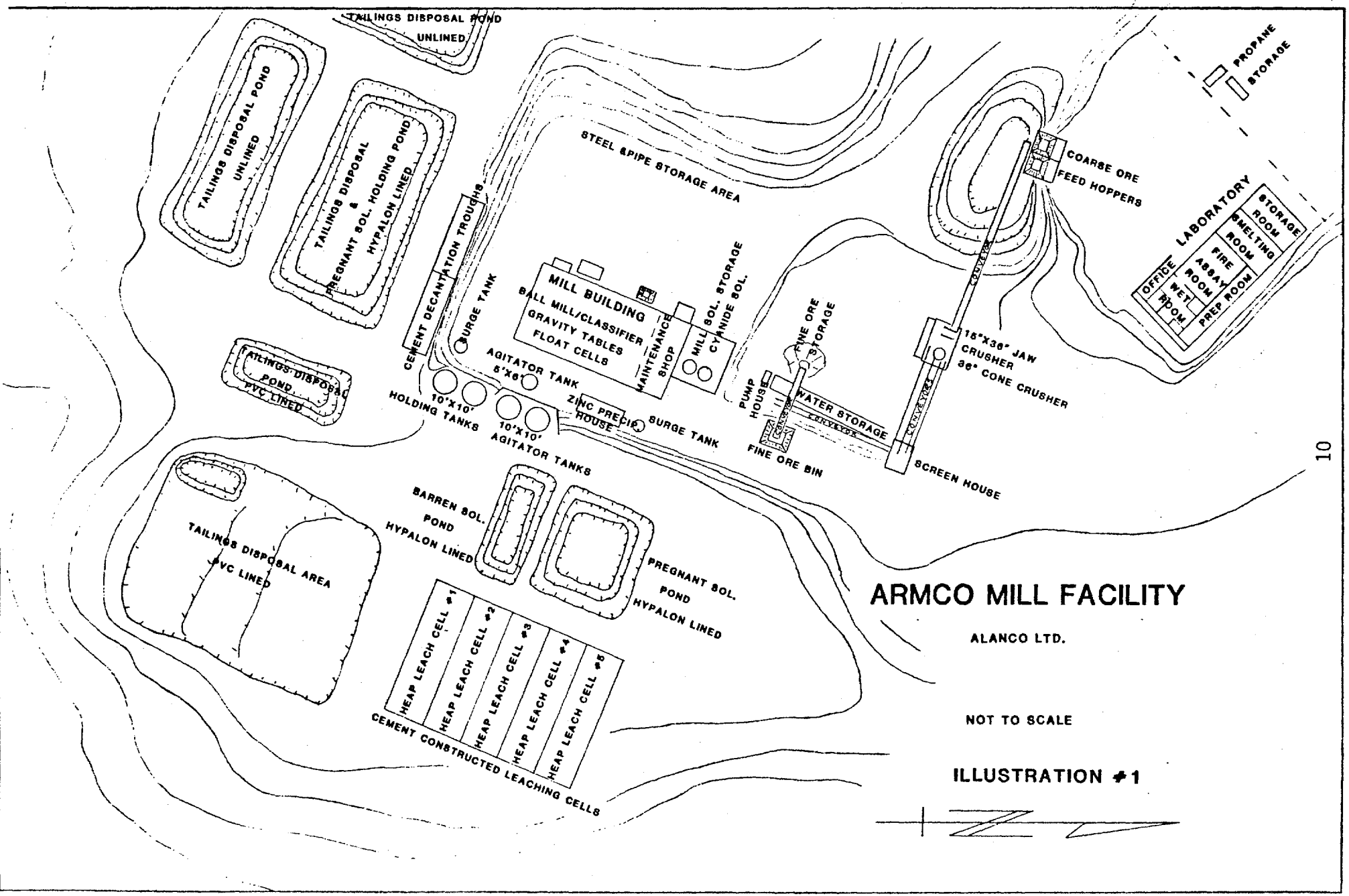
SCALE 1" = 1 MILE

N

MAP NUMBER ONE


20
21
QUARTER CORNER
20
21
ARMCO Millsite #9
ARMCO Millsite #6
ARMCO Millsite #3
ARMCO Millsite #1
ARMCO Millsite #12
ARMCO Millsite #10
ARMCO Millsite #7
ARMCO Millsite #4
ARMCO Millsite #2
ARMCO Millsite #14
ARMCO Millsite #13
ARMCO Millsite #11
ARMCO Millsite #8
ARMCO Millsite #5
ARMCO Millsite #15
N
SITE SURVEY BOUNDARY
20
21
29
28
CLAIM MAP OF
ARMCO MILLSITES
T20S R22E
SCALE 1"=500'
MAP NUMBER 2


SURVEY OF TOMBSTONE MILLSITES AS OF 5-31-82
CHARLESTON ROAD
SITE SURVEY MAP
MAP NUMBER 3

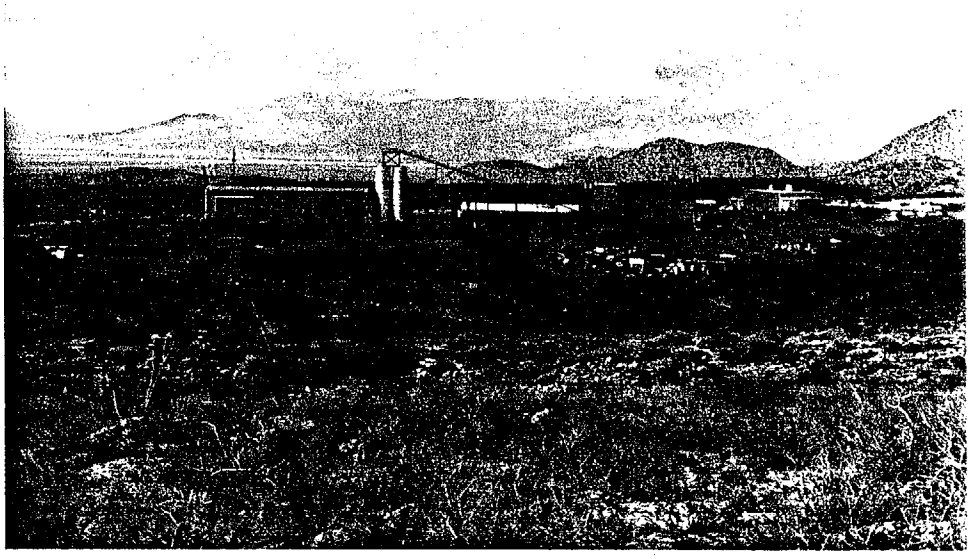


ARMCO MILL FACILITY

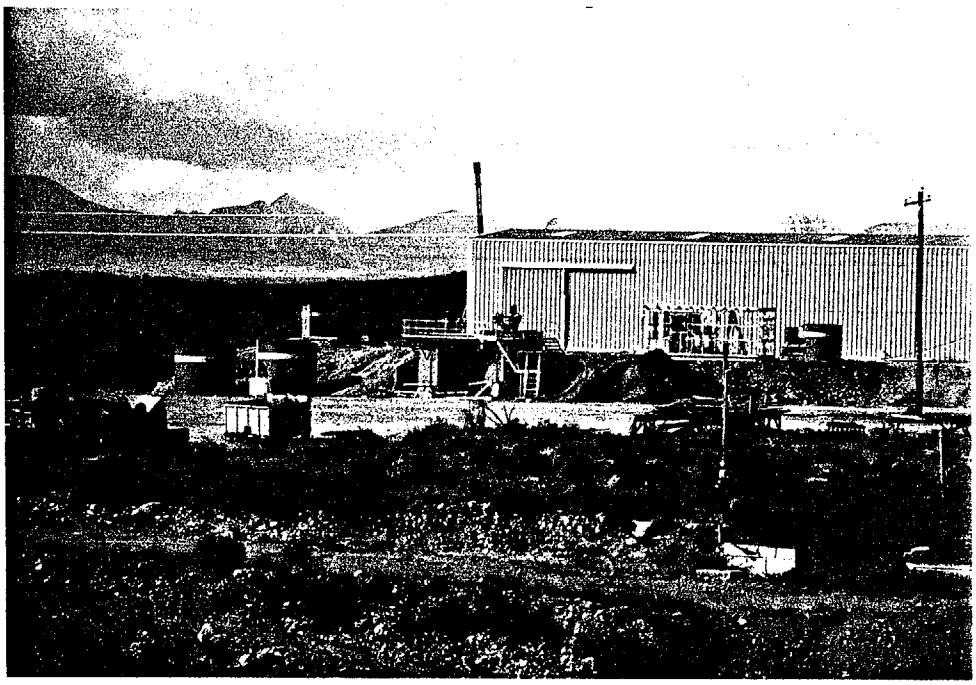
ALANCO LTD.

NOT TO SCALE

ILLUSTRATION #1

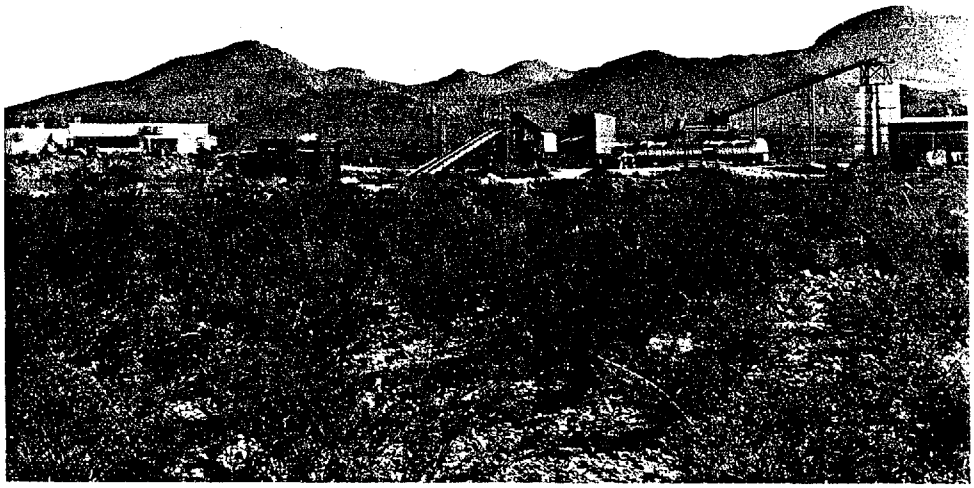


VIEW OF THE MILL FIACILITLY LOOKING TOWARD THE WEST
PHOTO #1



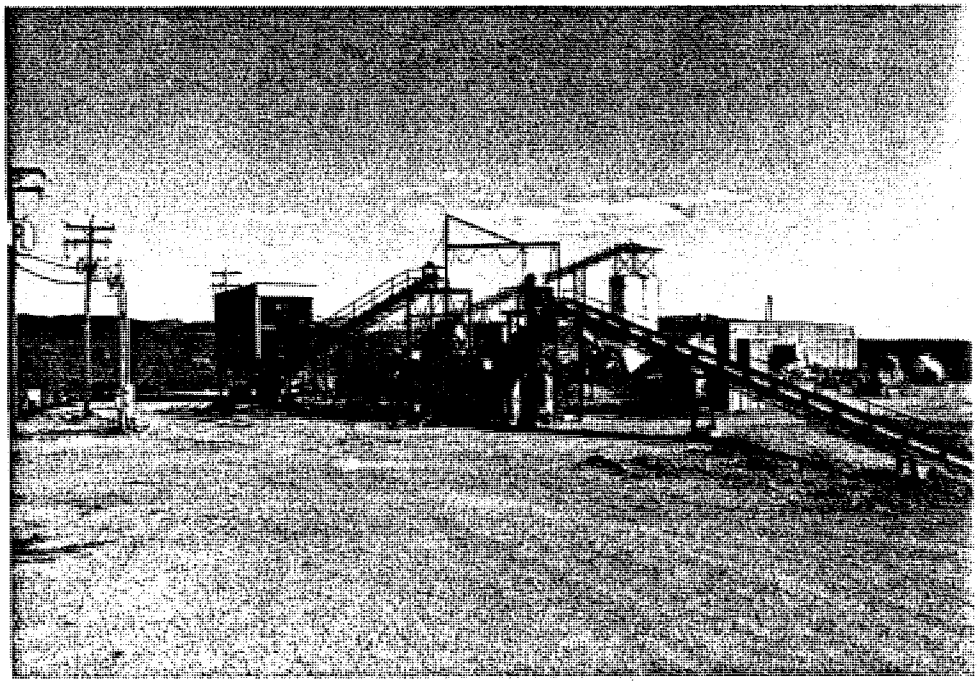
VIEW OF THE EAST SIDE OF THE MILL BUILDING SHOWING THE CYANIDE AGITATION TANKS AND THE CONSTRUCTION OF THE PRECIPITATION HOUSE.

PHOTO #2



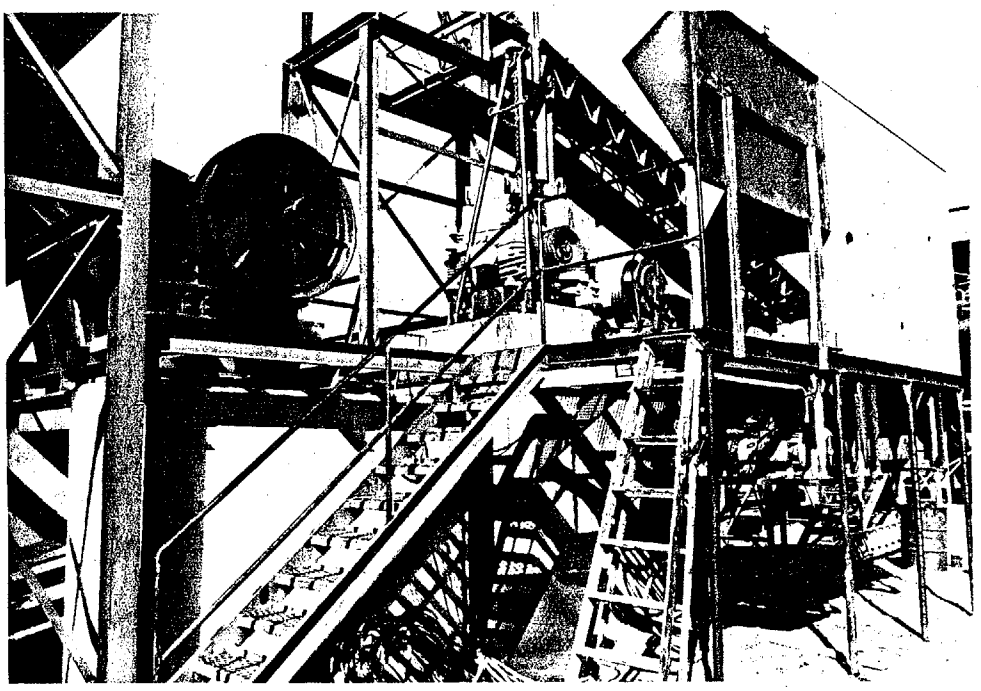
VIEW OF THE MILL FACILITY LOOKING TOWARD THE NORTHEAST.
PHOTO #3

VIEW OF THE JAW CRUSHER AND CONE CRUSHER, LABORATORY AND THE FRONT ENTRY GATE TO THE MILL FACILITY FROM THE CHARLESTON ROAD.
PHOTO #4



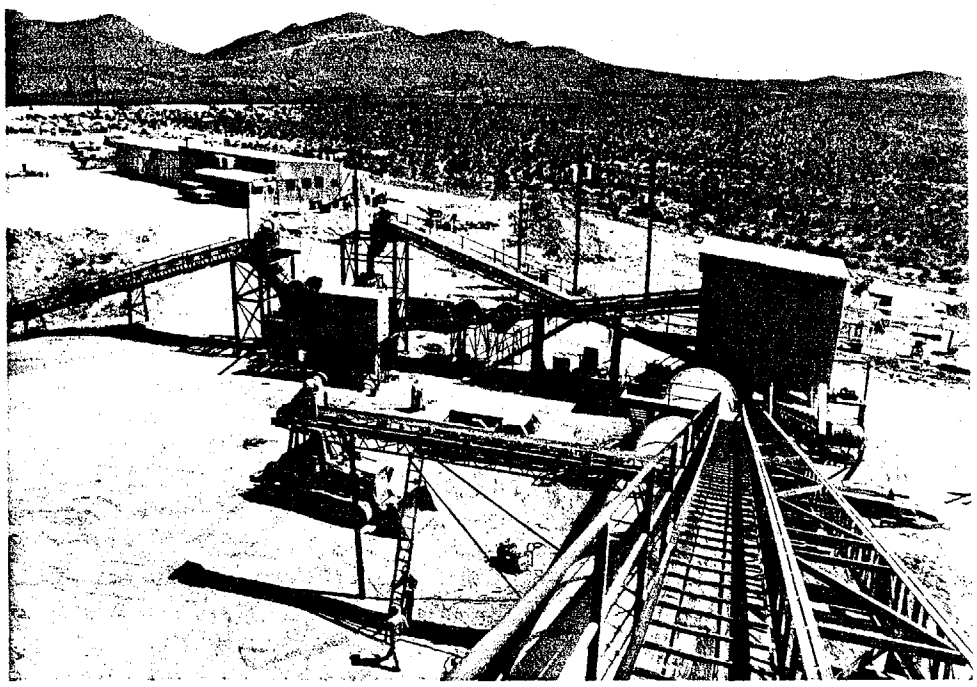
VIEW LOOKING TOWARD THE SOUTHEAST OF THE 1000 TON PER DAY CRUSHING CIRCUIT. THE YELLOW CRUSHING CIRCUIT HAS BEEN DISMANTLED AND MANY OF THE PARTS WERE USED IN THE NEW CRUSHING CIRCUIT.

PHOTO #5



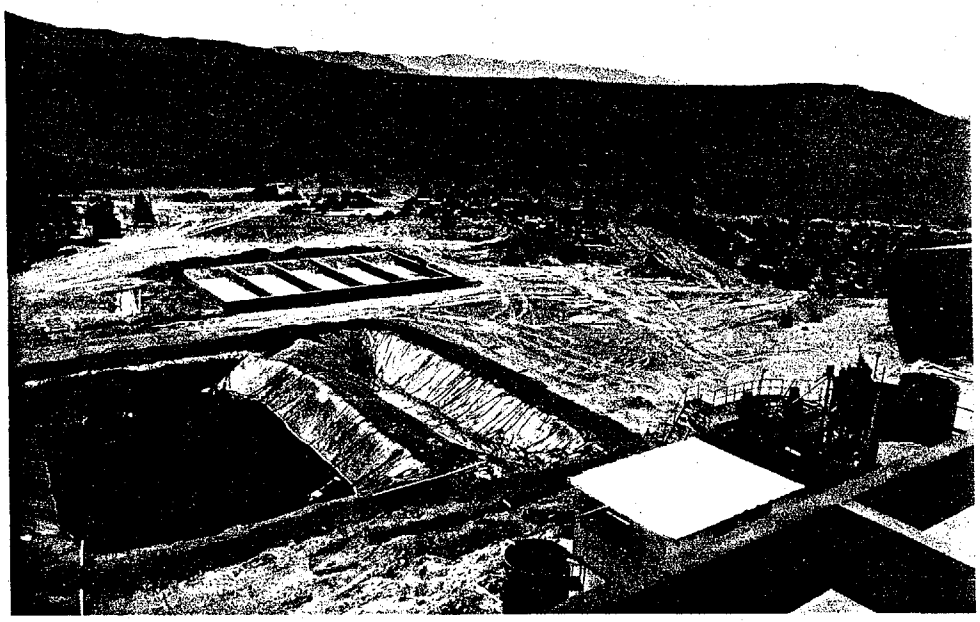
CLOSE UP VIEW OF THE 15" X 36" UNIVERSAL JAW CRUSHER AND SIMONS 3' SHORT HEAD CONE CRUSHER. BUILDING IN UPPER RIGHT CORNER IS THE HYDRAULIC UNIT USED TO CONTROL THE CONE CRUSHER.

PHOTO #6



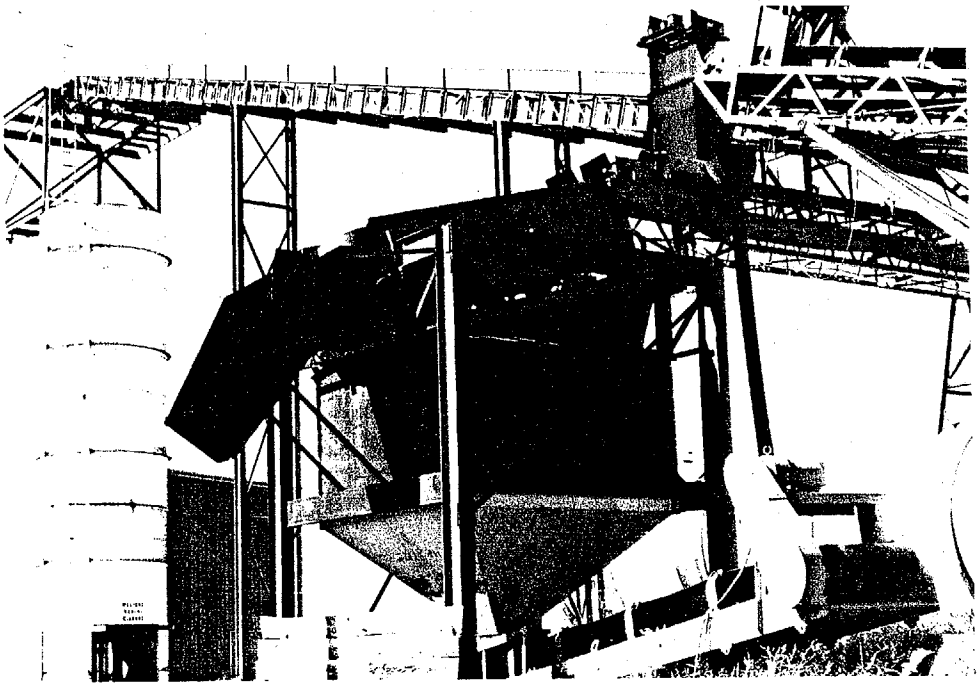
VIEW LOOKING NORTH TO THE NEWLY COMPLETED CRUSHING CIRCUIT. SHOWS THE LABORATORY AND OFFICE BUILDING IN UPPER LEFT HAND CORNER. THE FINE ORE BIN WILL BE LOCATED ON THE RIGHT SIDE OF THE FRESH WATER STORAGE TANK.

PHOTO #7

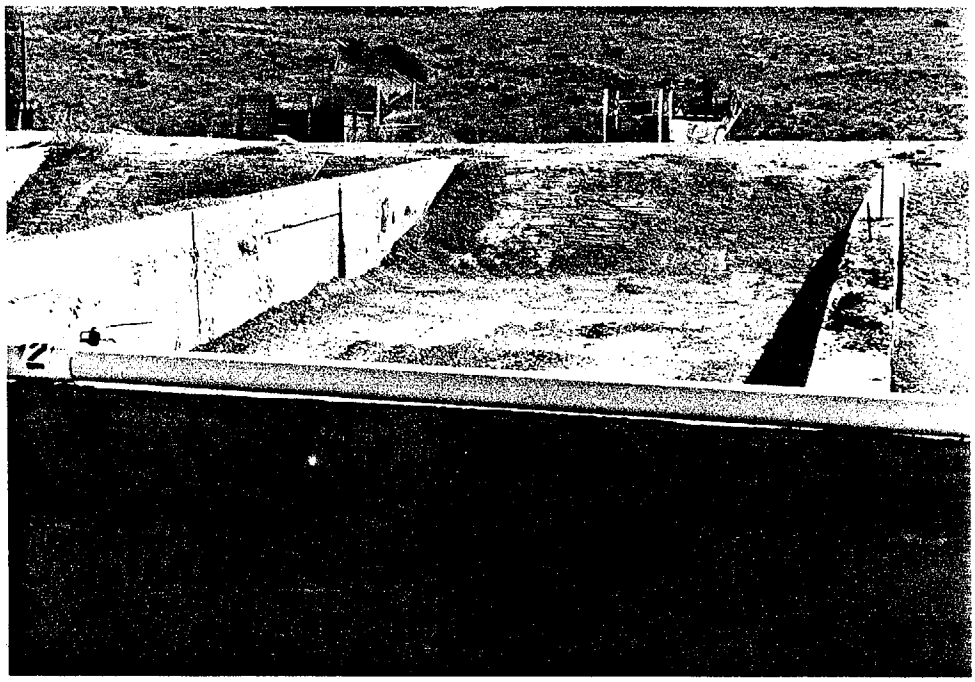


VIEW LOOKING EAST TOWARD THE NEWLY COMPLETED HEAP LEACH OPERATION. THE CEMENT VATS WILL HANDLE 50 TONS OF ORE APIECE. LARGE POND ON THE LEFT IS THE PREGNANT SOLUTION POND AND THE SMALLER POND IS THE BARREN SOLUTION POND.

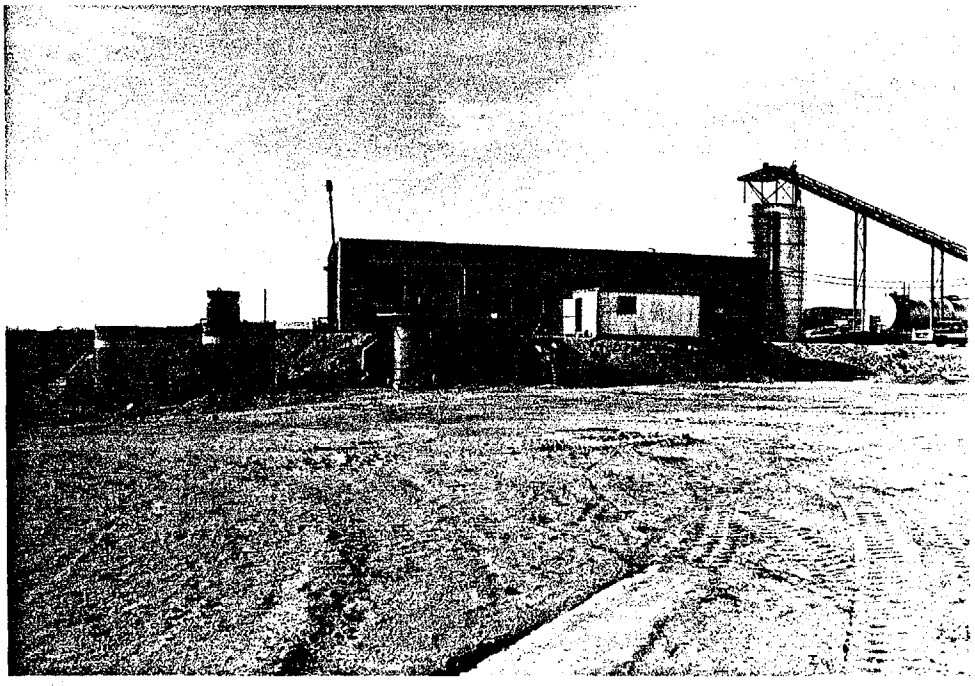
PHOTO #8



VIEW OF THE FINE ORE BIN AND SECONDARY SCREEN.
PHOTO #9

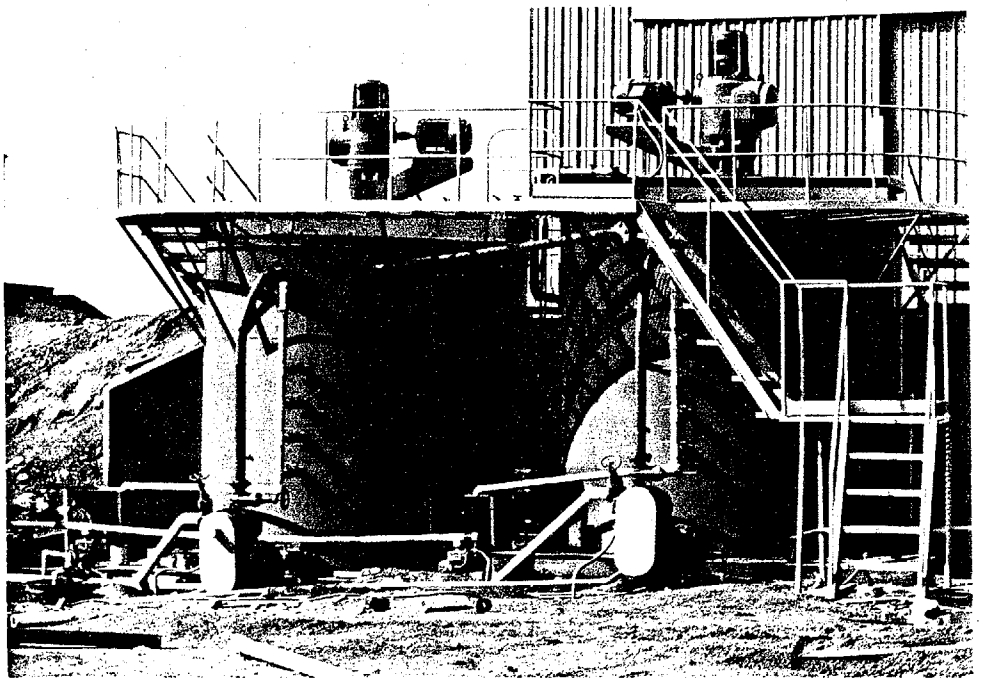


VIEW UP CLOSE OF THE LEACHING TANKS.
PHOTO #10



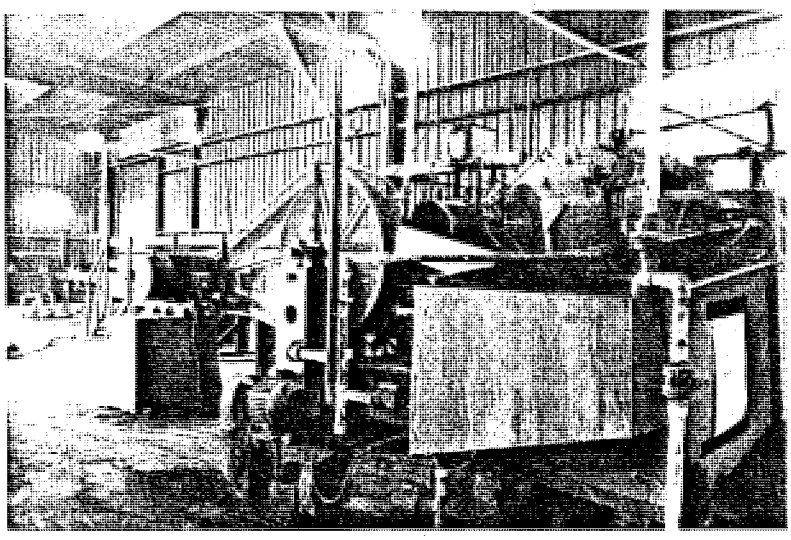
VIEW LOOKING WEST SHOWING THE CYANIDE MILL SOLUTION TANKS, THE TWO 10' X 10' CYUANIDE AGITATION TANKS AND THE TWO SOLUTION HOLDING TANKS, ZINC PRECIPITATION HOUSE AND MILL BUILDING.

PHOTO #11



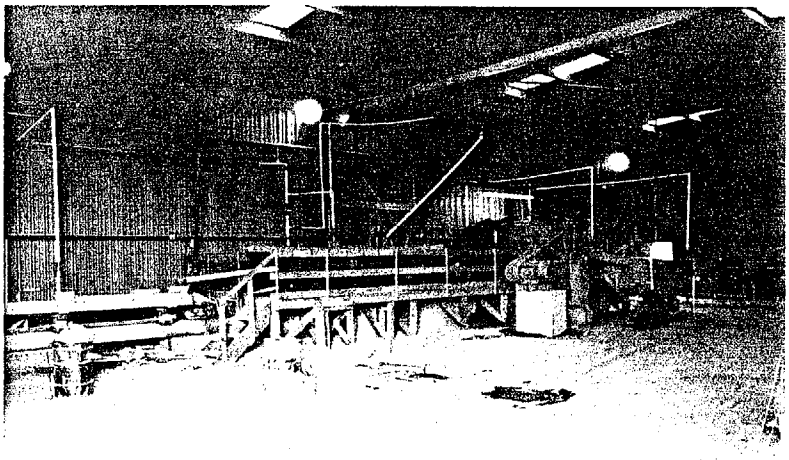
CLOSE-UP OF THE TWO 10' X 10' CYANIDE AGITATION TANKS SHOWING AGITATORS AND PUMPS.

PHOTO #12



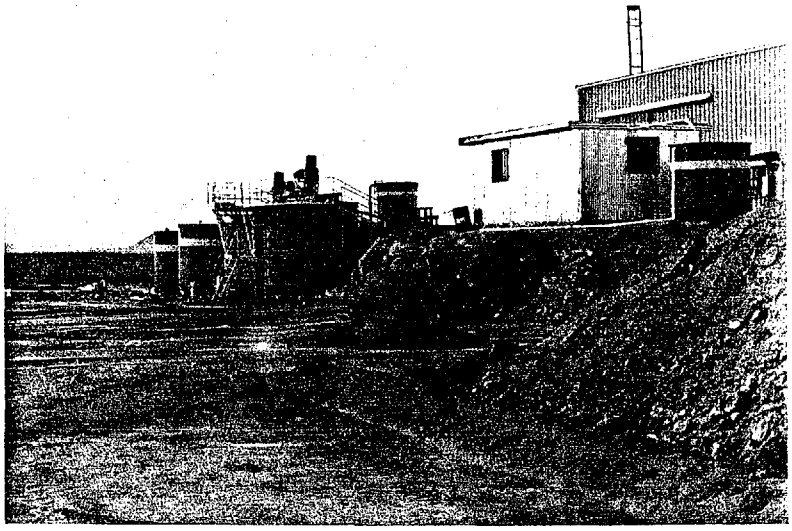
VIEW INSIDE THE MILL BUILDING OF THE BALL MILL AND RAKE CLASSIFIER. SHOWS THE GRAVITY TABLES AND A PORTION OF THE FLOTATION CELL IN THE FAR CORNER OF THE MILL BUILDING.

PHOTO #13

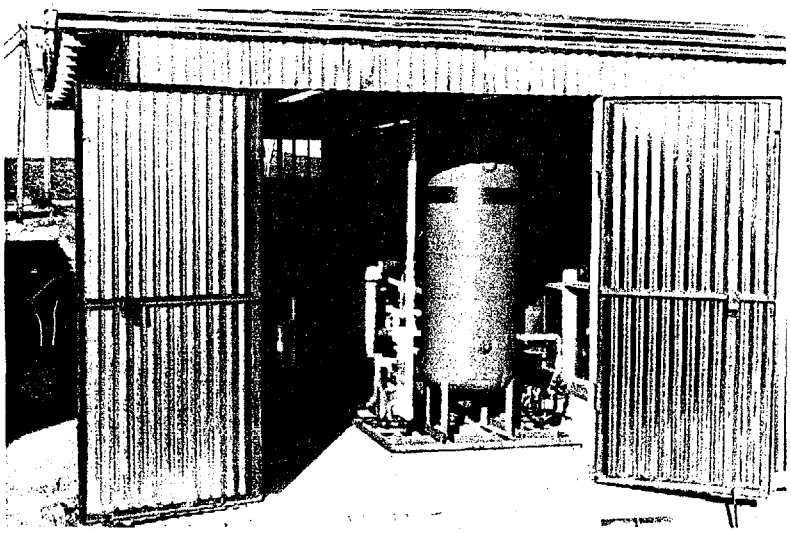


VIEW INSIDE THE MILL BUILDING SHOWING THE GRAVITY TABLES, BALL MILL AND RAKE CLASSIFIER.

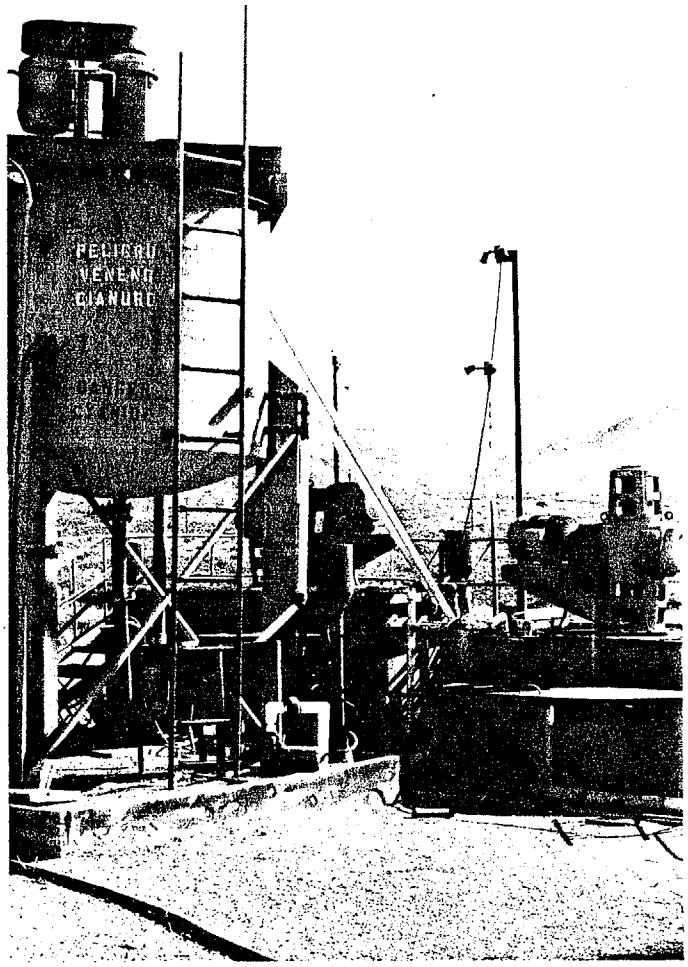
PHOTO #14



VIEW OF THE EAST SIDE OF THE MILL BUILDING SHOWING THE ZINC PRECIPITATION HOUSE AND CYANIDE AGITATION TANKS.
PHOTO #15



VIEW OF THE ZINC PRECIPITATION UNIT AND THE SOUTH END OF ZINC PRECIPITATION HOUSE.
PHOTO #16

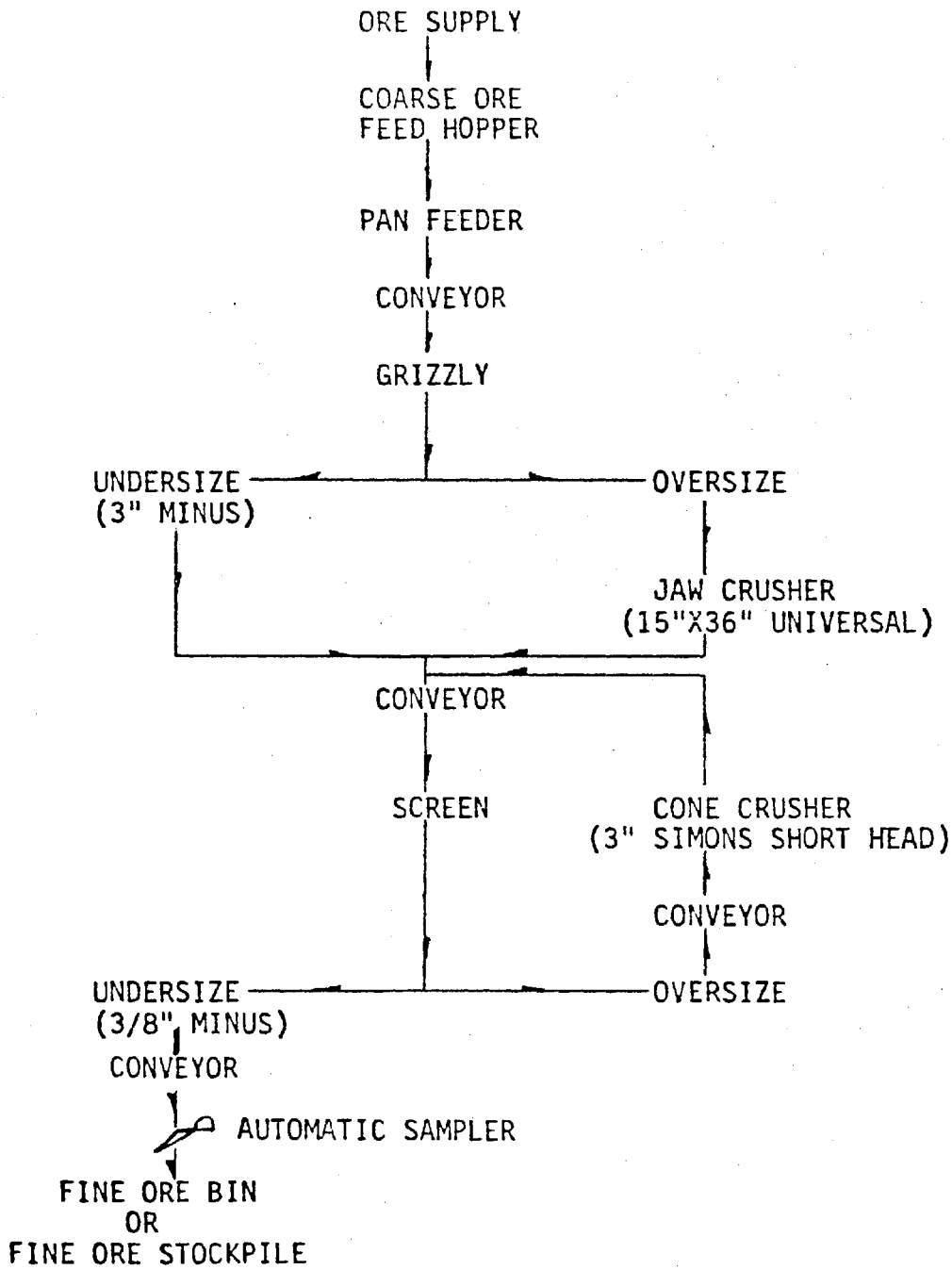


VIEW OF THE CYANIDE AGITATOR CIRCUIT. THE AGITATIORS CAN BE RAN AS A BATCH TYPE LEACHING SYSTEM FOR INDIVIDUAL HIGH GRADE ORES OR THEY CAN BE RAN AS A CONTINUOUS TANK TO TANK LEACHING SYSTEM FOR THE HIGHER TONNAGE LOWER GRADE MATERIAL.

PHOTO #17

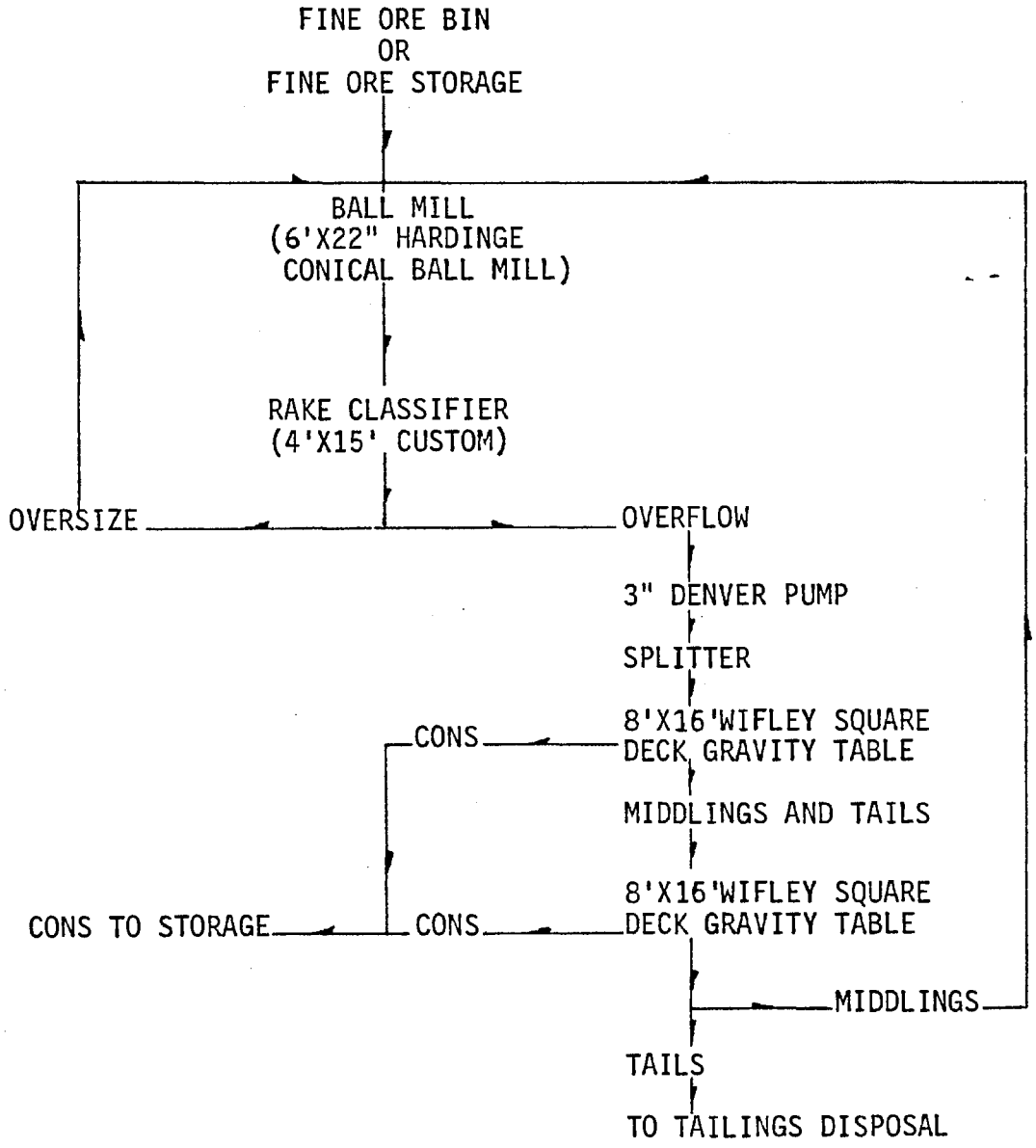
CURRENT CRUSHING CIRCUIT

1000 TONS PER 24 HRS. CAPACITY



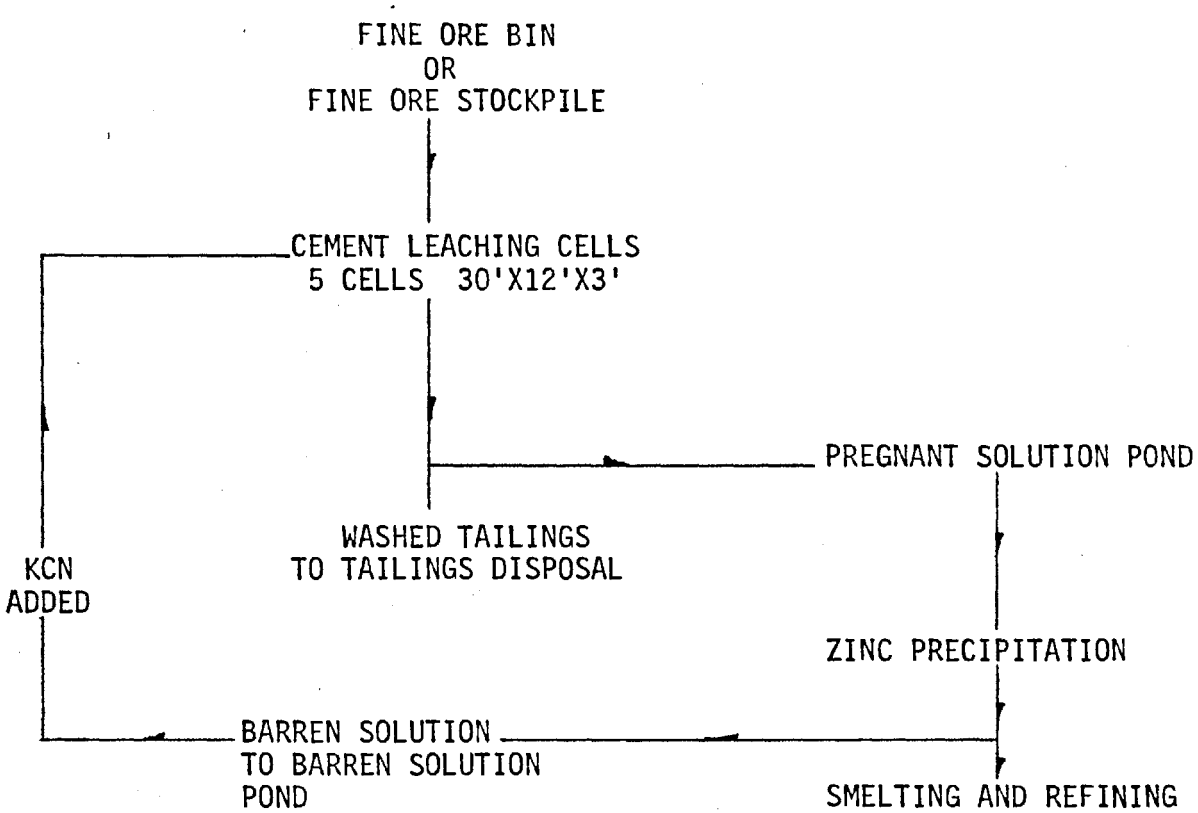
FLOW DIAGRAM NUMBER 1

CURRENT TABLING PROCESS



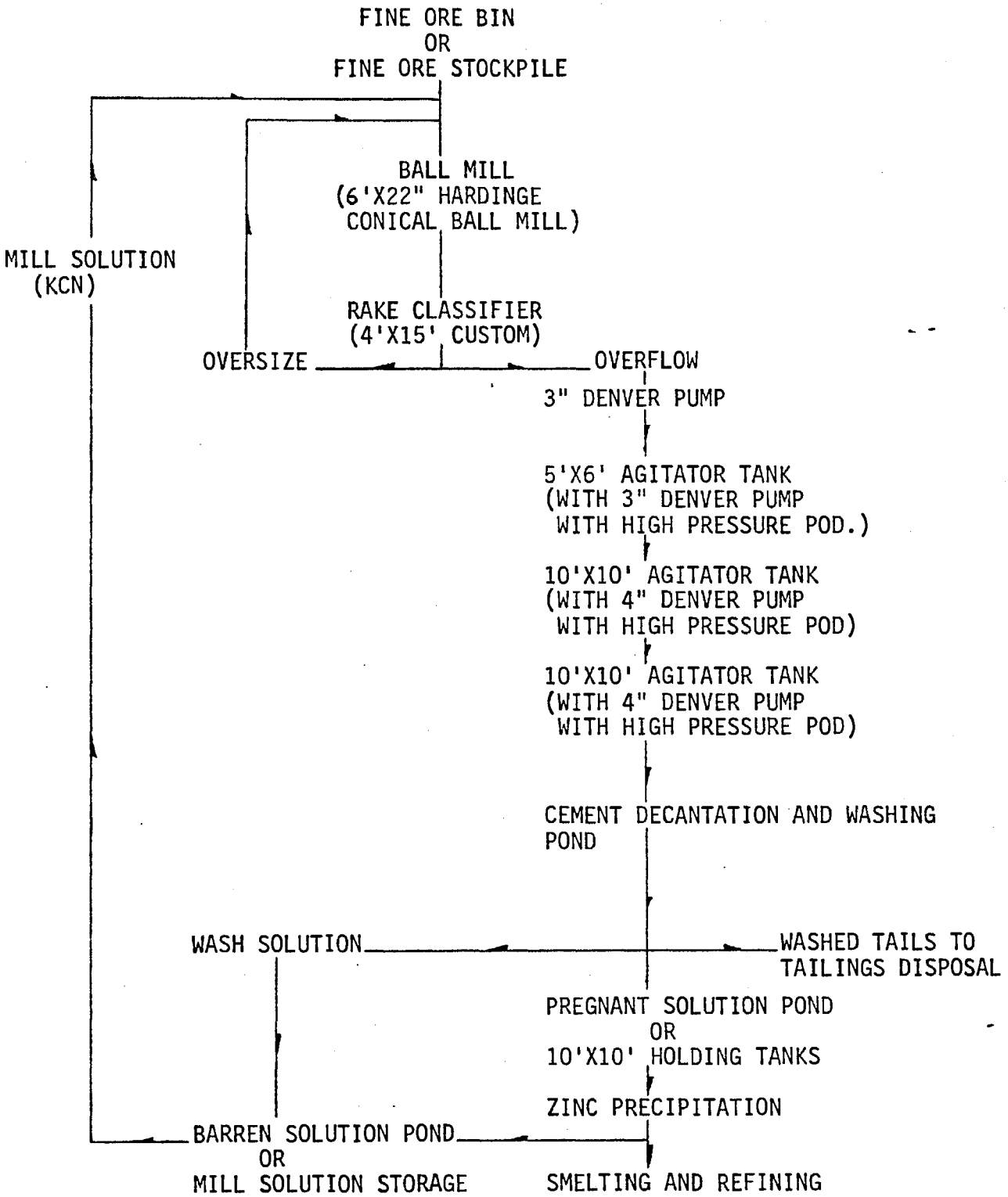
FLOW DIAGRAM NUMBER 2

CURRENT HEAP LEACH PROCESS
(FLOODING PROCESS)

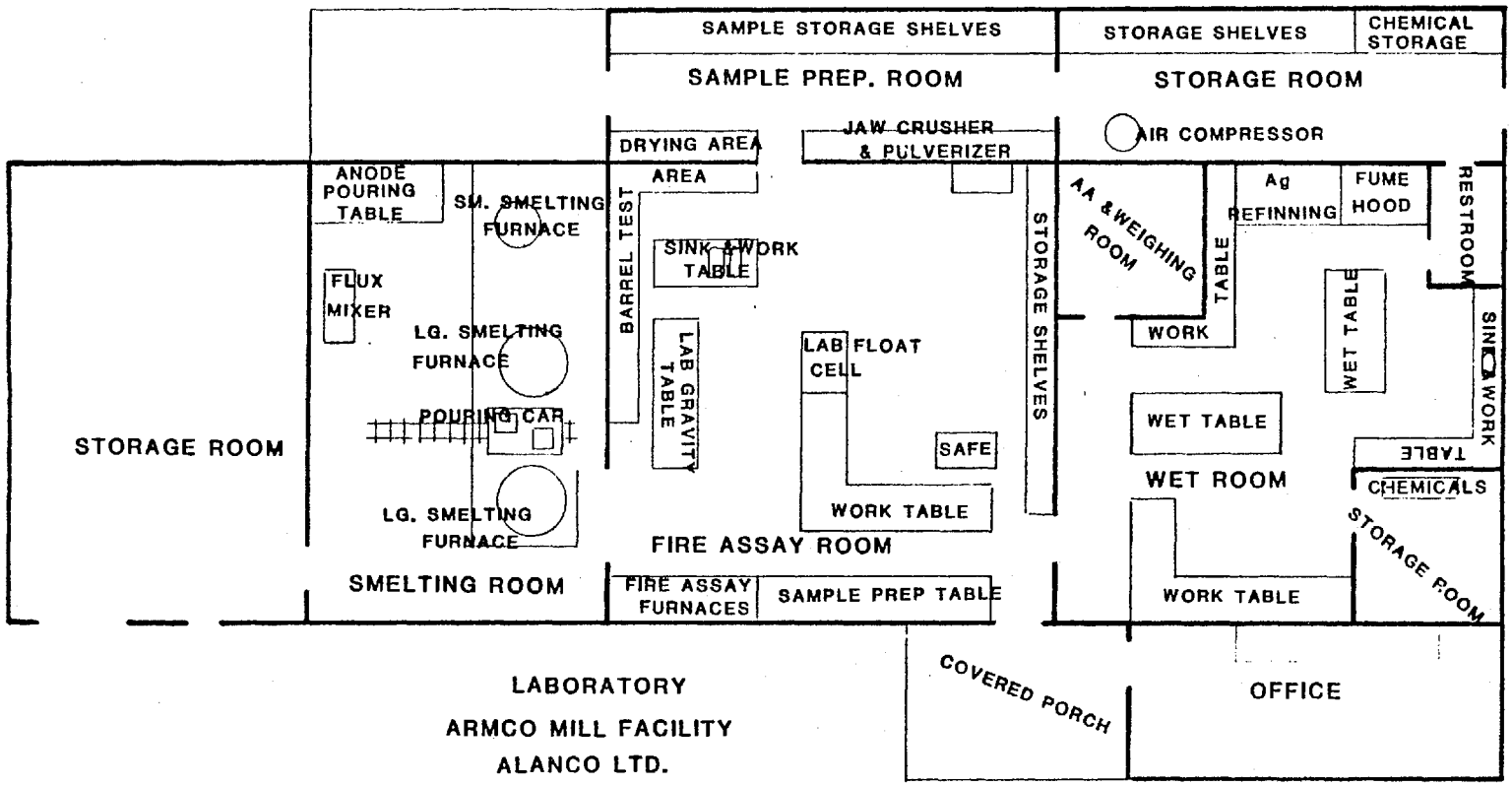


FLOW DIAGRAM NUMBER 3

CURRENT CYANIDE AGITATION PROCESS



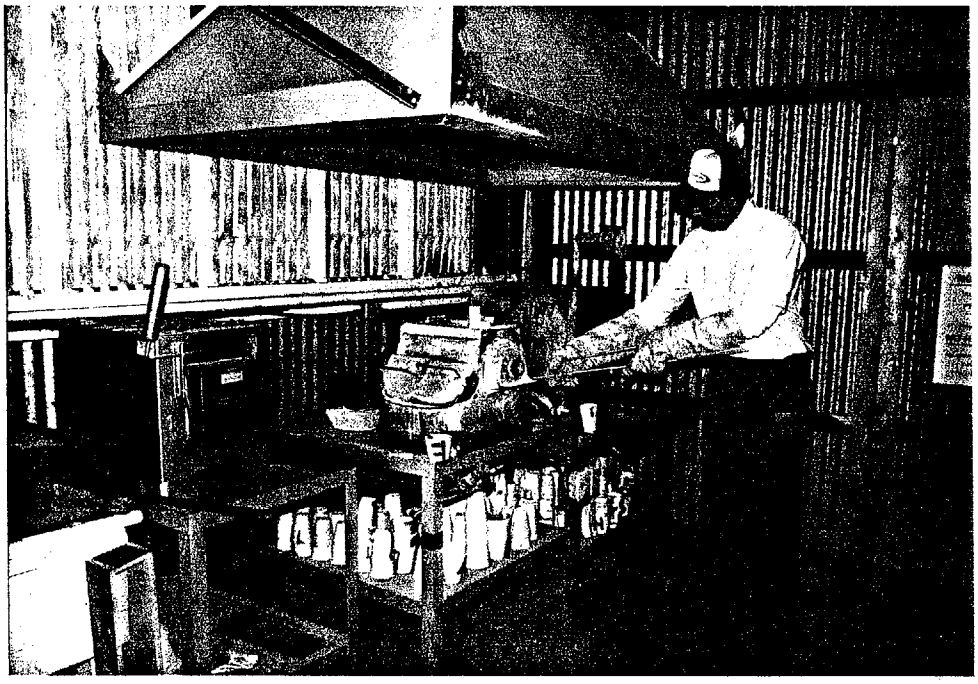
FLOW DIAGRAM NUMBER 4



LABORATORY
ARMCO MILL FACILITY
ALANCO LTD.

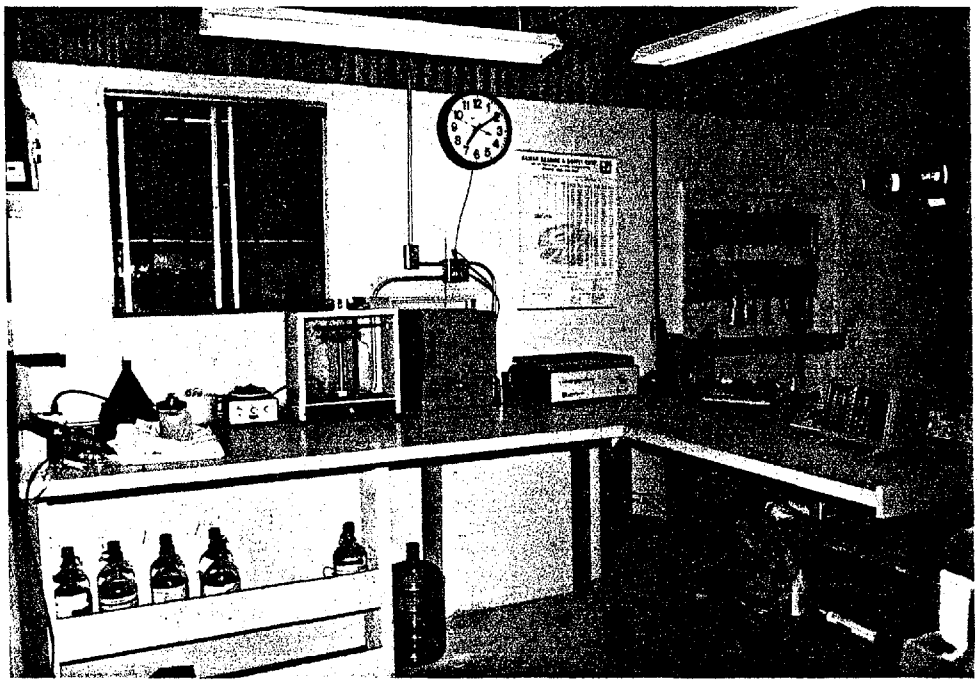
ILLUSTRATION NUMBER 2

VIEW OF THE FIRE ASSAY ROOM. THE TABLE ON THE RIGHT IS USED TO STORE MANY OF THE PULPS FROM ASSAY WORK DONE ON OUTSIDE ORE SOURCES. WORK TABLE ON THE LEFT IS USED FOR ASSAY PREPARATION.
PHOTO #18



METALLURGIST DOING FIRE ASSAYS.

PHOTO #19

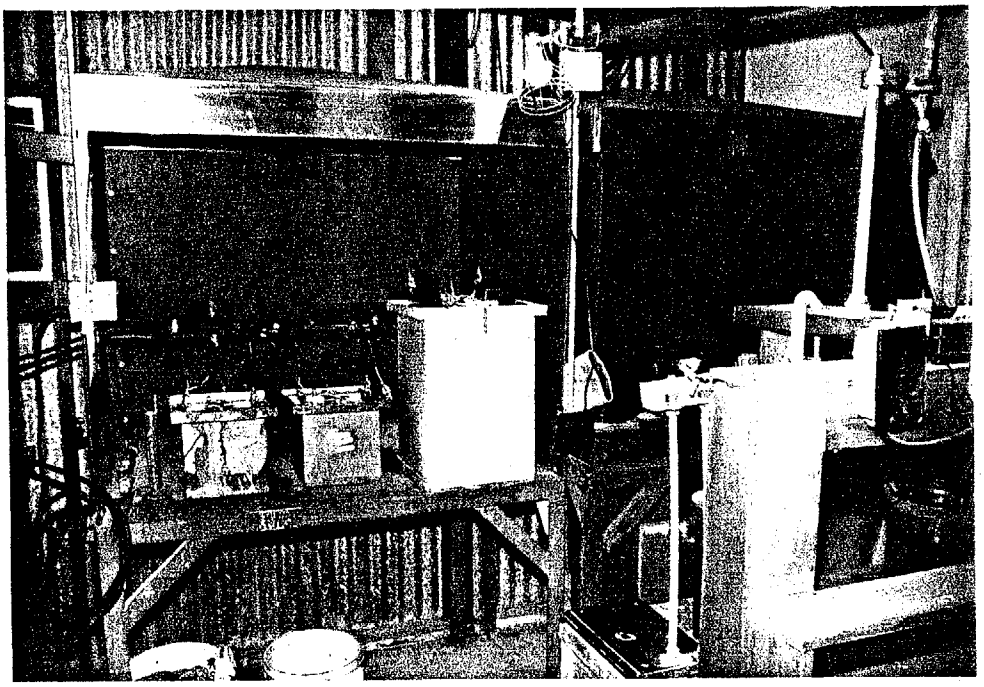


VIEW OF THE WET ASSAY ROOM.

PHOTO #20

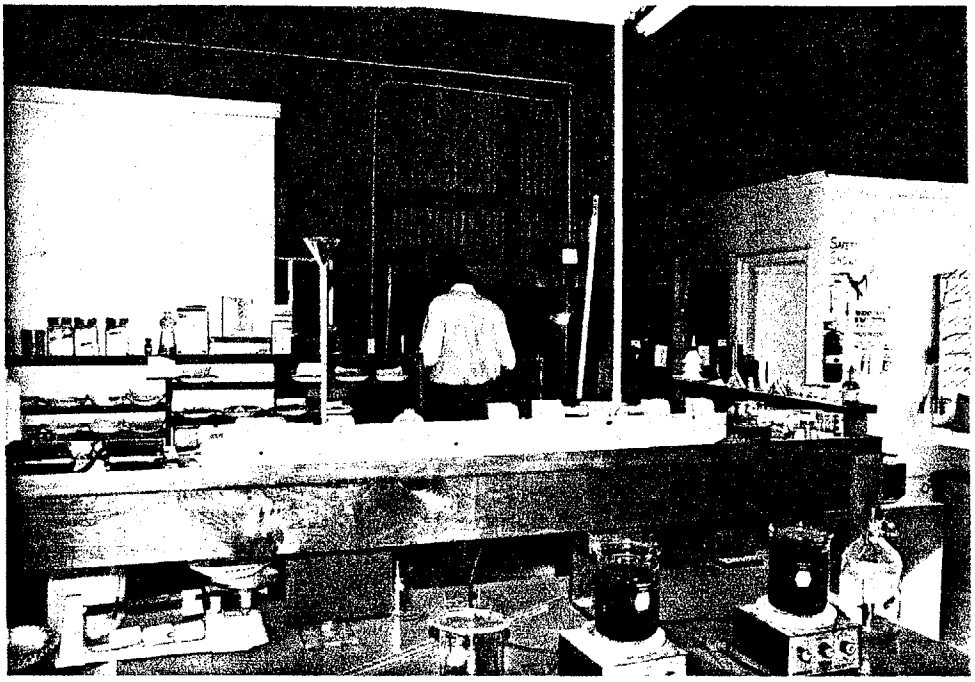
VIEW OF THE WET ASSAY ROOM.

PHOTO #21



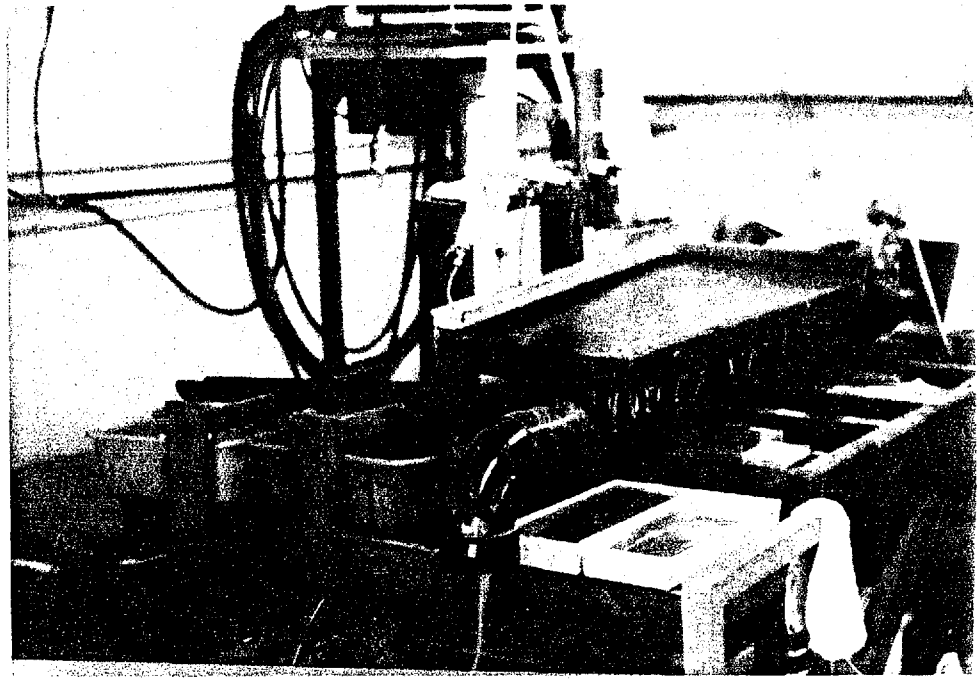
SILVER REFINING CELLS. APPROXIMATELY 300 OUNCES PER DAY OF REFINED .999 SILVER CAN BE PRODUCED IN THE CELLS.

PHOTO #22



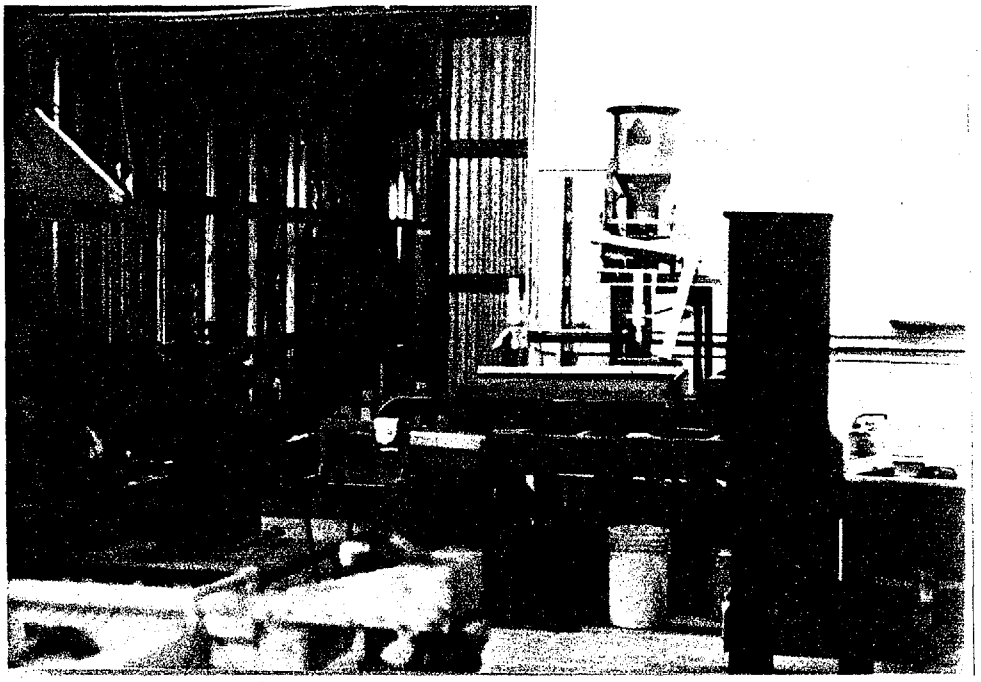
WET ASSAY ROOM. METALLURGIST WORKING AT THE SILVER REFINING CELLS.

PHOTO #23



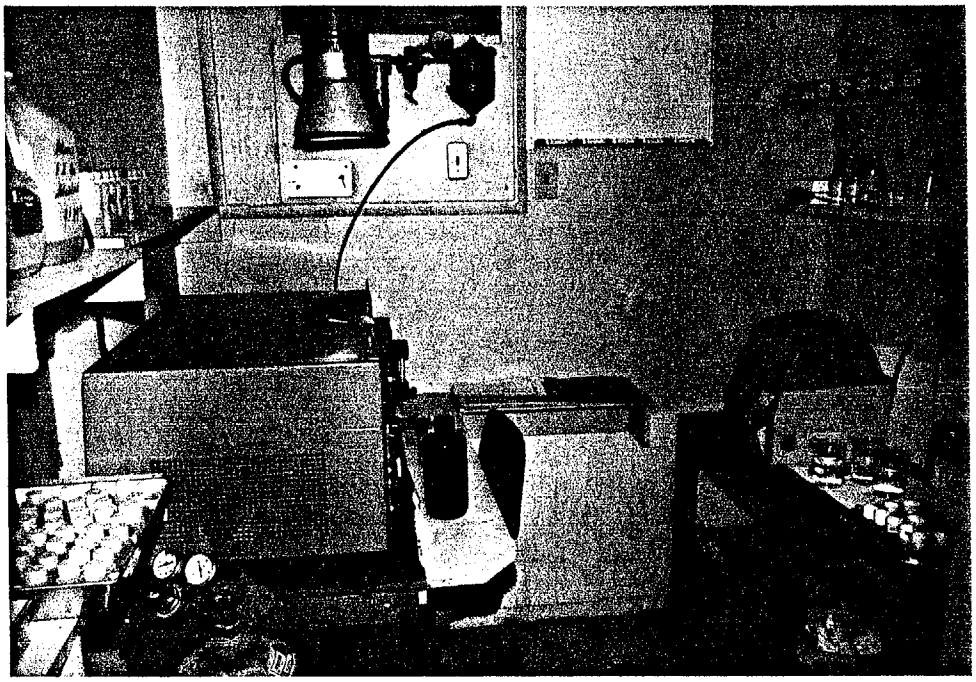
LABORATORY GRAVITY TABLE. A GRAVITY CONCENTRATION TEST IS BEING CONDUCTED ON A POTENTIAL ORE FOR THE MILL.

PHOTO #24



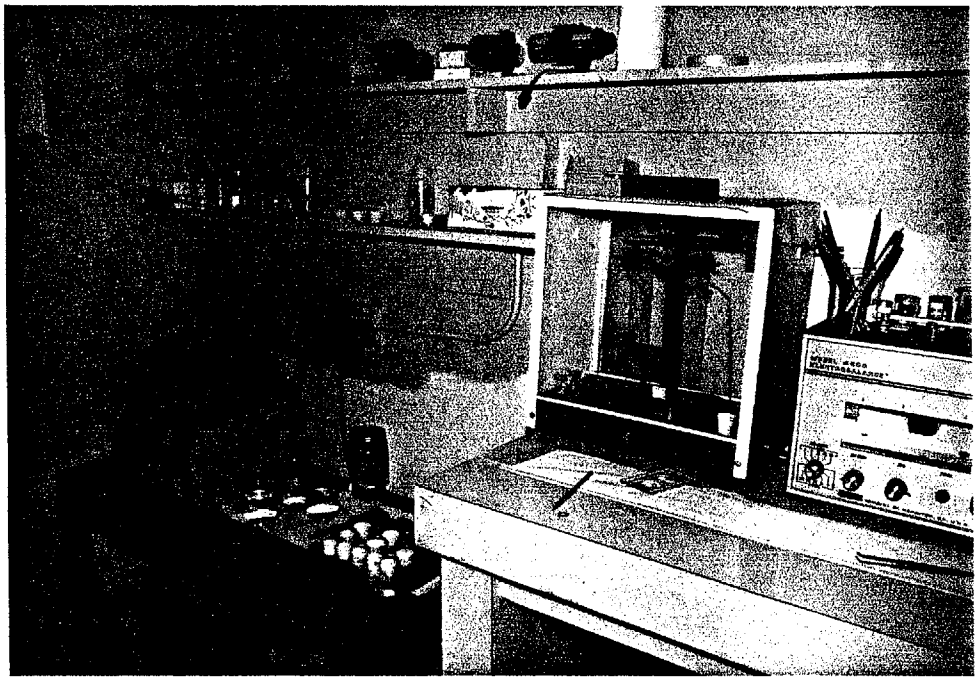
VIEW OF THE FIRE ASSAY ROOM SHOWING THE LABORATORY GRAVITY TABLE AND LABORATORY FLOTATION CELL. ROOM IN BACK GROUND IS THE SMELTING ROOM.

PHOTO #25



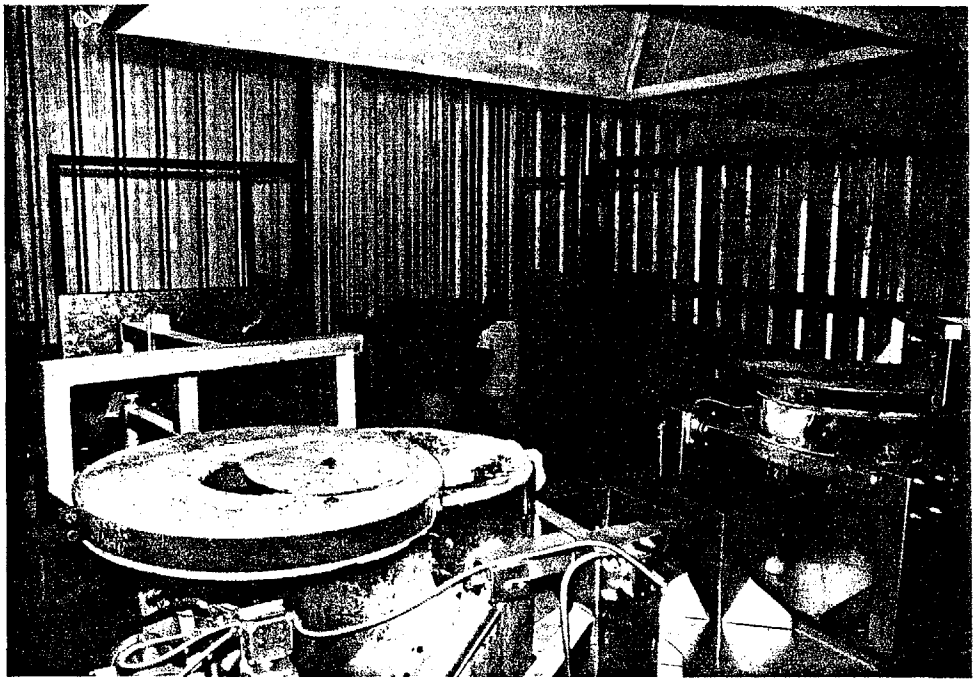
VIEW OF THE ATOMIC ABSORPTION UNIT

PHOTO #26



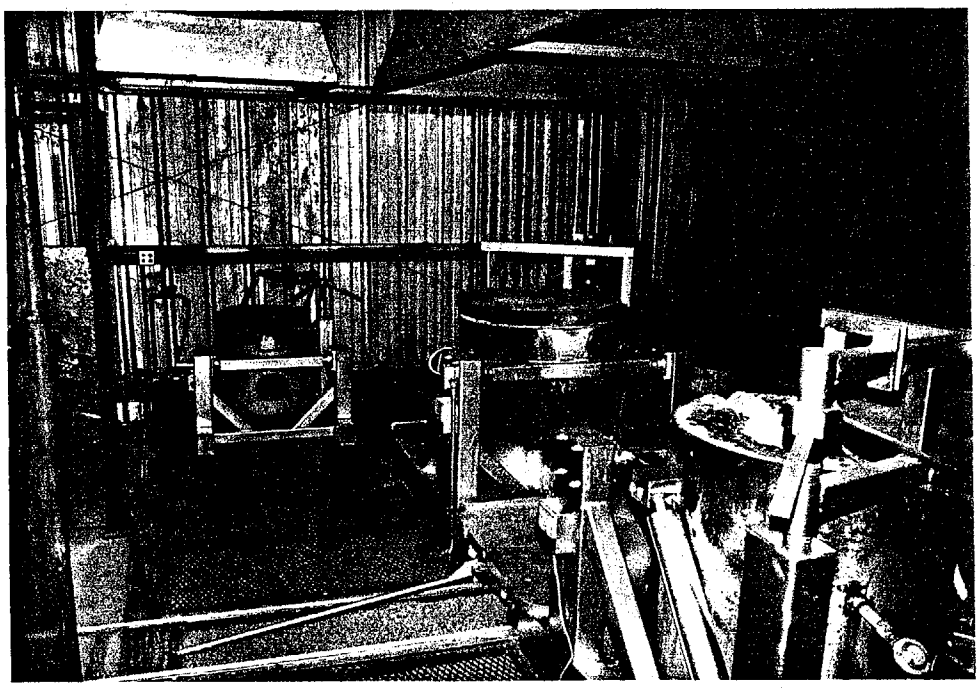
VIEW OF THE ASSAY SCALES

PHOTO #27



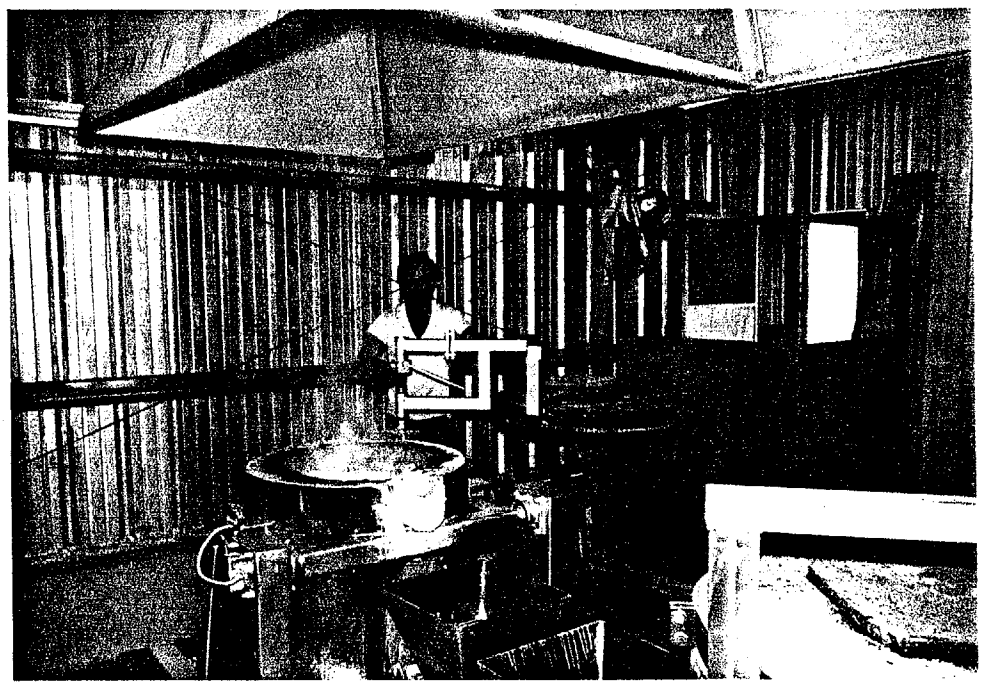
VIEW OF THE SMELTING ROOM SHOWING SMELTING FOREMAN MIXING ZINC PRECIPS WITH FLUXES MAKING THEM READY FOR SMELTING.

PHOTO #28



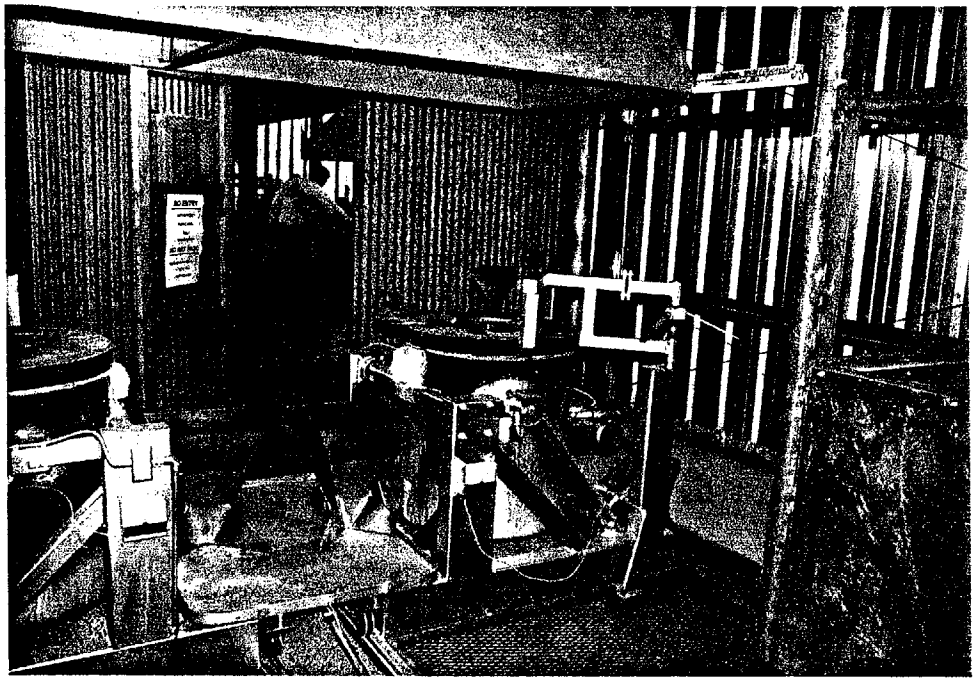
VIEW OF THE SMELTING ROOM SHOWING THE TWO LARGE HYDRAULIC TILTING FURNACES AND THE SMALL SMELTING FURNACE

PHOTO #29



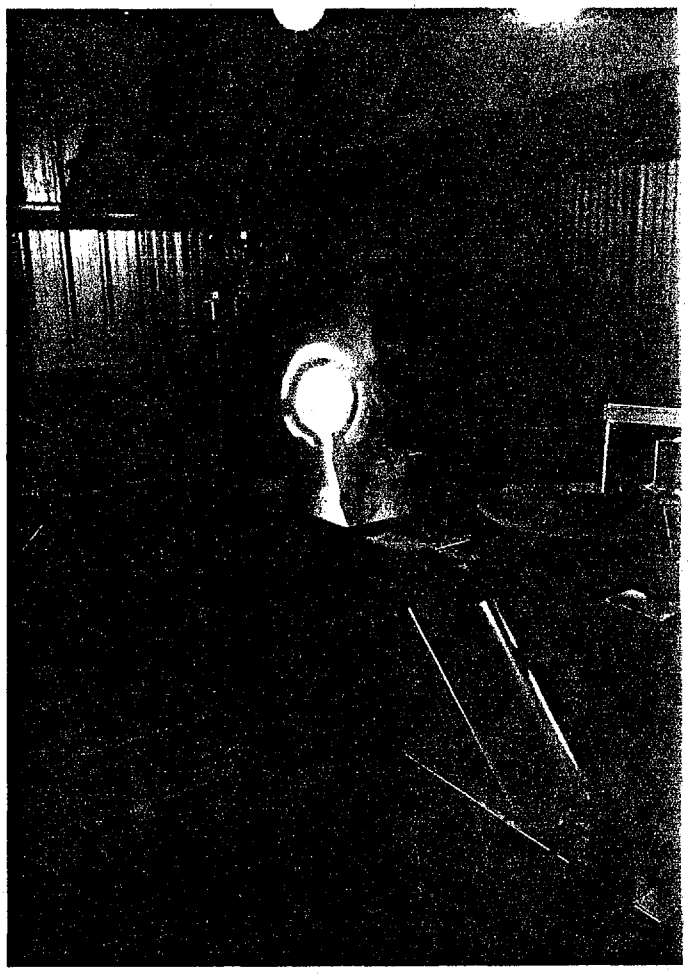
SMELTING ZINC PRECIPS.

PHOTO #30



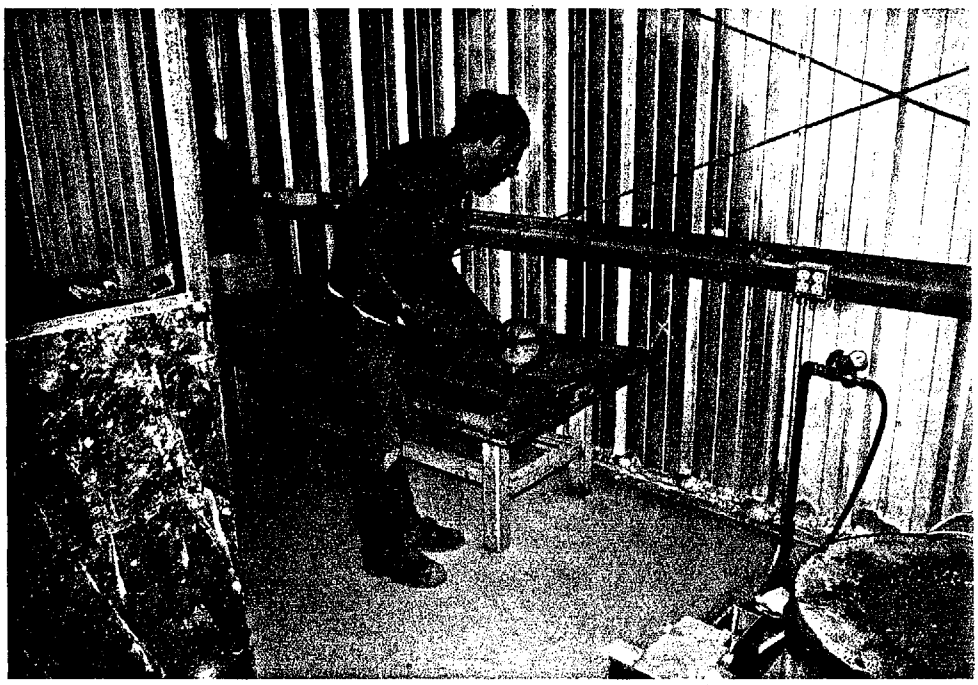
VIEW FROM SMELTING ROOM TO THE FIRE ASSAY ROOM.

PHOTO #31



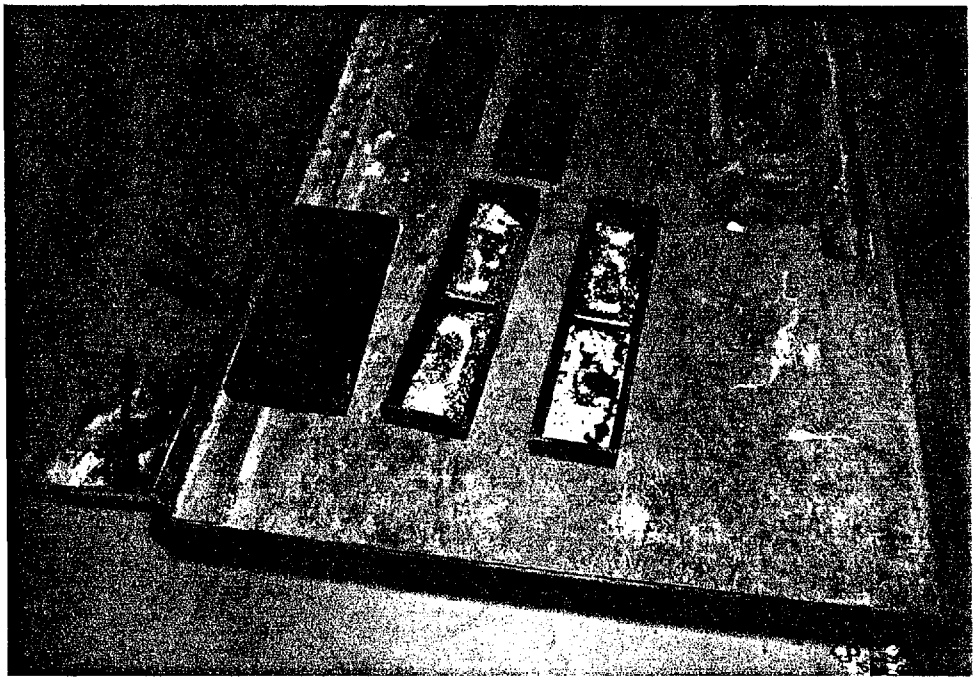
POURING ZINC PRECIPS.

PHOTO #32



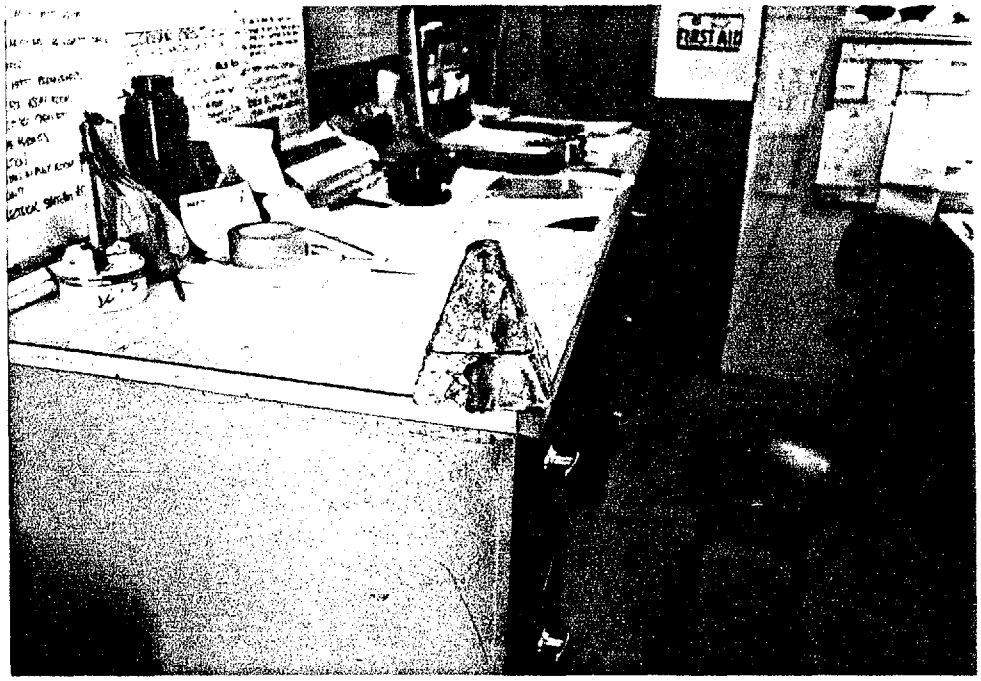
SMELTING FOREMAN POURING DORE' INTO FLAT BARS FOR SILVER REFINING PROCESS.

PHOTO #33



VIEW OF THE SILVER ANODES FOR THE SILVER REFINING CELLS.

PHOTO #34

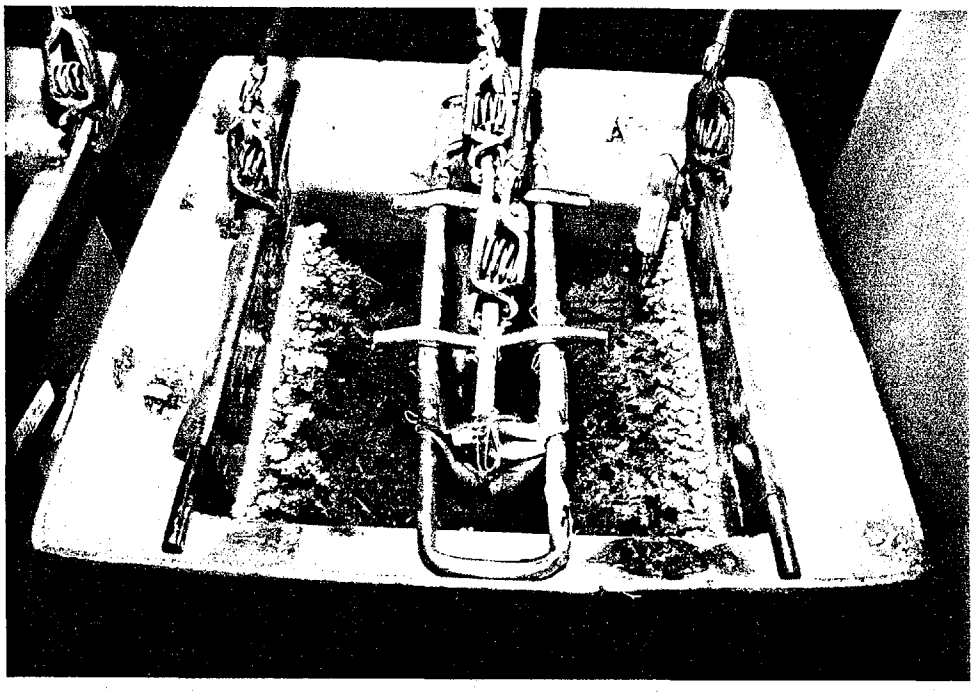


DORE' CONE (CONTAINS SILVER AND GOLD)

PHOTO #35

REFINING CELL PLATES READY TO BE SCRAPPED OF .999 REFINED SILVER.

PHOTO #36



ONE OF THE REFINING CELLS SHOWING THE ACCUMULATION OF .999 REFINED SILVER. THE GOLD IS BEING SAVED IN THE CLOTH SOCK THAT THE SILVER ANODES ARE SUSPENDED IN.

PHOTO #37

ARMCO INVENTORY REPORT

UNITS	DESCRIPTION	SERIAL NUMBER
2	VICTOR JOURNEYMEN WELDING SET	
1	ORBIT DRILL PRESS #OR-1-12	#45
2	TABLE VISE	
2	SANDER-GRINDER	
5	KNIPES PORTABLE HEATER, MOD F1100	#8456845
2	VICTOR CUTTING TORCH SETS	
2	OXYGEN TANKS	
1	SEARS 41-PIECE TAP & DIE SET	
1	300 AMP. LINCOLN WELDER ON TRAILER	423781
1	WILFEY 2"PUMP & 10 H.P. MOTOR	#10195348
1	WILFEY 2" PUMP & 3 H.P. MOTOR	#10426799
1	ASH HYTOP VAC. PUMP & 7.5 H.P. MOT	#495852
1	BLOWER & 1 H.P. MOTOR	#KU184107
1	2" SLURRY PUMP AND MOTOR	#05857013
1	LINCOLN WELDER (200 AMP)	#A-365069
1	LINCOLN WELDER (GAS POWERED)	
1	300 TON/DAY ZINC PRECIP UNIT	
1	ASSAY FURNACE-JOHNSON #219	
1	CUSTOM ASSAY FURNACE	
1	SMALL ASSAY FURNACE-JOHNSON	
1	SMALL ELECTRIC ASSAY FURNACE	
1	LARGE SAFE (GARY)	
2	2 DRAWER FILE CABINET (LEGAL)	
2	FIRE PROOF FILE CABINET (LEGAL)	
1	WINDOW AIR/HEATER CONDITIONER	

ARMCO INVENTORY REPORT

UNITS	DESCRIPTION	SERIAL NUMBER
1	15' TOOL BENCH & MISC. TOOLS	
-	ASSORTED WELDING TOOLS	
1	5' X 7' METAL WELDING TABLE	
1	4'X15' METAL TABLEw/PIPECUTTER VISE	
12	TEEL PUMPS & DAYTON MOTORS	
2	LARGE TILTING FURNACE (GAS) CUSTOM	
1	MEDIUM FURNACE (GAS) CUSTOM	
1	PORTABLE SIEVE MIXER (TYLER)	
1	SAMPLE SPLITTER (SOILTEST)	
2	MEDIUM SAMPLE SPLITTER (CUSTOM)	
1	SPEEDAIRE PORTABLE AIR COMPRESSOR	#3Z4193
1	LARGE SPEEDAIRE AIR COMPRESSOR	
2	10' METAL TABLE (CUSTOM)	
2	VOLUME FAN (SIZE 33 #70M124)	
1	45 GAL. FIRE PROOF STORAGE CABINET	
1	FRIGIDAIRE REFRIGERATOR	
1	GE VACUUM PUMP	#5KH36KN90
1	250 GAL. STAINLESS STEEL TANK	
2	1,000 GAL. STEEL TANKS	
2	6' X 16' WIFLEY CONC. TABLE	
1	6" HYDRAULIC CONE (DOOR-OLIVER)	
1	40' X 24" CONVEYOR w/MOTOR	
1	72"X72" DRUM FILTER ASSEM w/motor	
1	1000 GAL RAISED AGITATOR TANK	
1	8 CELL 3'X3' FLOAT CELLSw/motors	

ARMCO INVENTORY REPORT

UNITS	DESCRIPTION	SERIAL NUMBER
1	RAKE CLASSIFIER 4X16' 20:1 REDUCER	
1	6'X22" HARDINGE CONICAL BALL MILL	
1	CONDITIONER TANK	
1	JEFFERY-TAYLOR PAN FEEDER	
1	LARGE FMC BIN	
1	MEDIUM FMC BIN	
1	15"X36" UNIVERSAL JAW CRUSHER	
1	WIFLEY LAB GRAVITY TABLE	
1	LAB CHIPMONK CRUSHER (BICO)	
1	LAB PULVERIZER (BICO)	
2	AINSWORTH SCALE	
2	OHAUS TRIPLE-BEAM BALANCE	
1	EEL ATOMIC ABSORPTION UNIT	
1	PERKIN-ELMER ATOMIC ABSORBTION UNIT	
1	REOSTAT TRANSFORMER (AMERICHEM ENG)	#061181F
2	TIME STIR PLATES	
1	LABLINE MULTI-MAGNISTER	#1439
1	Ph/ion METER 135 (CORNING)	#1439
1	Ph/TEMP METER 4 (CORNING)	#01195
-	BOXES ASSORTED GLASS BEAKERS	
1	GARDNER-DENVER TRAC DRILL	#RMC-10 235216
1	JOHN DEERE BACK HOE 290-130T	#JD-310-AD
3	ZEE FIRST AID KIT	
1	ZEE FIRST AID STRETCHER	
1	M.F. 3 YD. RUBBER TIRED LOADER	

ARMCO INVENTORY REPORT

UNITS	DESCRIPTION	SERIAL NUMBER
1	3' SIMONS SHORT HEAD CONE CRUSHER	
1	8'X22" HAARDINGE BALL MILL	
1	ASSAY SCALE	
1	LAB. FLOAT CELL (DENVER)	
3	DENVER REAGENT FEEDERS	
2	10'X10' AGITATION TANKS	
2	10'X10' HOLDING TANKS	
2	500 GAL. FUEL STORAGE TANKS & RACKS	
1	30"X75' CONVEYOR JAW TO SCREEN	
1	30"X80' CONVEYOR SCREEN TO CONE	
1	30"X120' CONVEYOR FEED BIN TO JAW	
1	24"X80' STACKING CONVEYOR	
1	24"X35' STACKING CONVEYOR	

PART B

HYPOTHESIS

The purpose of this study is to prove that the Tombstone Metalurgical Facility given the essential fixed and variable cost can operate profitably at todays' Metal Prices. The ore will be processed by means of a Gravity circuit, a Closed Circuit Agitated Leach Process, and a Flotation circuit. The analysis will also take into consideration the probability of encountering all known fixed and variable cost associated with such an operation, which will be processed through three respective Simulated Flow Profit Loss (SFPL) Electronic Speadsheets.

PROBABILITY ANALYSIS DEVELOPMENT

The basis used to develop and prove our hypothesis was to enter into our analysis all known variable costs and conditions associated with a custom milling facility. When the analysis process was first set in motion it was realized that there was a great amount of risk associated with the numerous sets of variables, and that in order to obtain feasable results the probabilty of "each" set of the variable's occurances had to be taken into consideration. These occurances then had to be combined in a random selection process to obtain a working model of an actual situation.

Since each set of variables , in most instances, is independent, a seperate probability analysis had to be performed on each set. The sets were then analyzed given their historical and/or operationally feasable set of constraints. These constraints were obtained from both qualititative (based primarily on experience) and quantitative (based upon facts or data related to the problem) information. (1) The data obtained from these information sources were then analyzed by finding their respective Mean (sum of data divided by the number of data) or arithmatic average. The mean is representative of each set of data and is also referred to as the Measure of Central Tendancy. Using this measure of central tendancy and the variables making up the sets of data, the Measure of Variation was calculated. This measure reflects by how much the numbers in each set vary. An example of would be to take the highest and lowest numbers in a set and find the difference. This difference is known as the range and is a measure of variation.

In this analysis a more useful measure of variation was integrated. This measure calculates the deviations from the mean and is known as the **Standard Deviation**. The Standard Deviation is found by subtracting the mean from each number in the set squaring these numbers, finding their mean and then taking the square root of this mean. This process is necessary because simply finding the mean of the deviations from the mean will always result in an answer of zero. The reason for this is because the negative and positive numbers will cancel each other out. (2) Once the standard deviation is known one standard deviation to the left and right of the mean contains 68% of all occurances of the sample, two standard deviations to the left and right of the mean represents 95% of of all the occurances of the sample.

Using the information obtained from these calculations each set of data was then graphed using their means' and standard deviations' as guides to find their distribution in relation to a Standard Normal Distribution. A Standard Normal Distribution has some unique characteristics (see illustration 3 on the following page) such as a "bell" shaped curve and a symmetry about a verticle center line (the Mean). The area between the graph and the X-axis is always equal to 1 or 100 percent of the occurences from the set. The importance of finding the distribution stems from the fact that many natural and social phenomena have aproximatley a Standard Normal Distribution. (3)

As stated the area under the curve represents 100 percent of the probability that an event will happen given the set of constraints (the minimum and maximum numbers) and the known occurances between these constraints.(4) The importance of this comes from the fact that decision making under uncertainty will give the decision maker very little confidence in the ability to assess the probabilities of success in the decision to be made. (5) By analyzing all available quantitative and qualitative information given the various criterion, the risk of a situation can be assessed in a more informed enviroment. Thus risk, which refers to the chance that some unknown event will occur, can be minimized to the utmost. (6)

In order to further establish the risk associated with a custom milling facility, the use of "Z-scores" was excluded from the analysis. Z-scores are calculated by taking any given number from the set of data, subtracting the mean, and then dividing by the standard deviation. This in turn will establish the probability of occurance between two points given the constraints of the distribution. In this analysis the sets of data were directly related to a standard normal distribution by relating each individual occurance with it's corresponding standard normal distribution occurance. This has the effect of discounting the probability of a favorable return.

- ILLUSTRATION 3 -

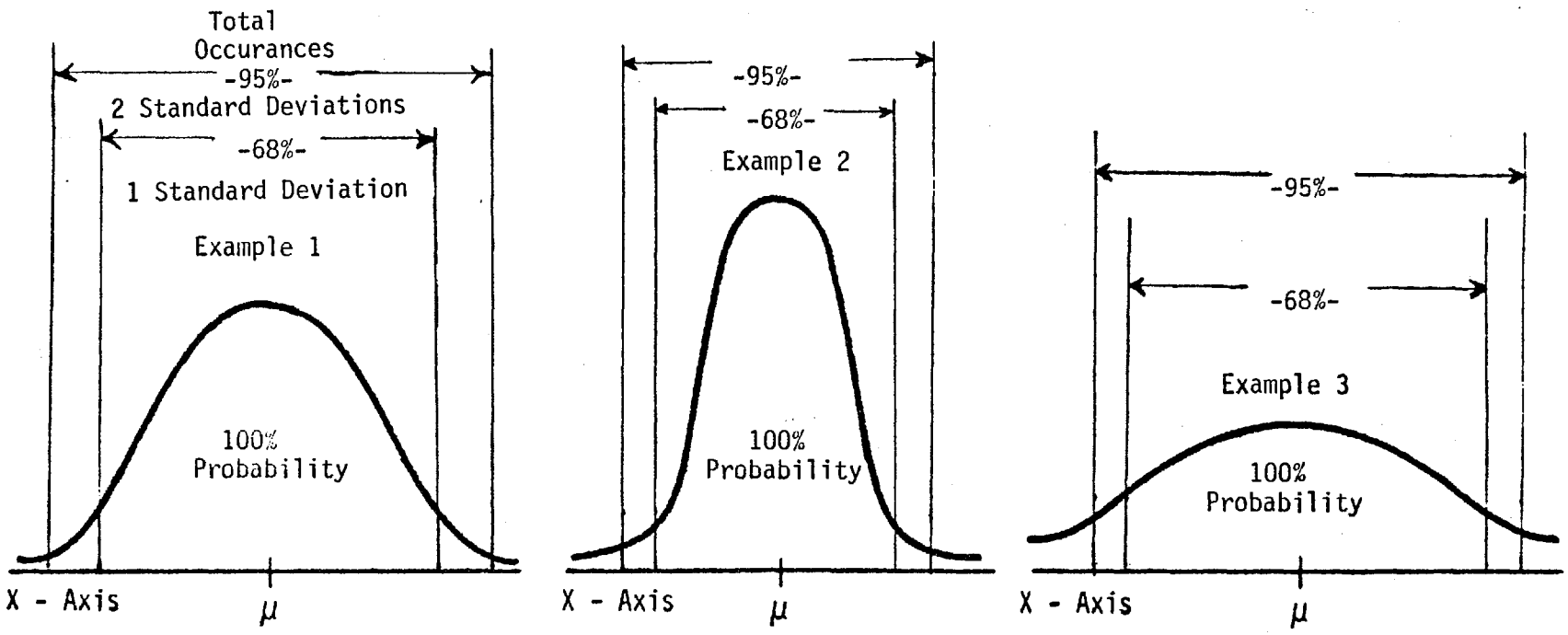
Example 1 - This Distribution represents a fair amount of Risk, and is representative of a Standard Normal Distribution.

Example 2 - This Distribution represents less Risk as the width of the "Bell" is fairly Narrow.

Example 3 - This Distribution represents a great deal of Risk as the "Bell" is very wide.

The Mean (μ) is in the center and the "Bell" is symetrical about the Mean. The area under this "Bell" represents 100% of the occurances of the sample data.

68% of all the sample data occurances take place between 1 standard deviation to the left and right of of the mean. 95% of all the sample data occurances take place between 2 standard deviations of the mean.



Three normal distributions

A computer assisted random number generation process was implemented to enhance the chance of random matching and of unforeseen circumstances and events arising. Each set of data was then related to its possibility of occurance matched against the standard normal distribution table. These "matched sets" of data were locked into vertical lookup tables which were tied to a SFPL Electronic Spreadsheet by means of randomly selected numbers for each set of variables. New random numbers were automatically generated every time the SFPL Spreadsheet was recalculated. This process was done by the computer 250 times, and one variable from each "matched set" was randomly choosen and integrated into the SFPL Spreadsheet at each recalculation.

Three SFPL Electronic Spreadsheets were designed, 1) Gravity, 2) Closed Circut Agitated Leach, and 3)Flotation. Each SFPL Spreadsheet is independent and contains its own sets of variables.

The Gravity Circut contains twelve variables which include:

	- Variables' Range -		
	Low	Mean	High
A) Gold Price	$299.00	$320.00	$341.00
B) Silver Price	$5.90	$6.20	$6.50
C) Gold Grade	.015	.02	.025
D) Silver Grade	2.0	2.5	3.0
E) Gold Recovery Percentage	- see note 1A -		
F) Silver Recovery Percentage	- see note 1A -		
G) Tonnage Per Day	- Fixed at 500 Tons -		
H) Operating Cost	$5.44	$6.94	$9.94
I) Lead Price	$0.10	$0.19	$0.28
J) Zinc Price	- Discounted out no consideration -		
K) Lead Grade	.54	.84	1.14
L) Zinc Grade	- Discounted out no consideration -		

note 1A) 1-All material is ground to 6 mesh and fed into the Jig. It is concentrated 10:1 and is estimated to recover 35% of all values.

2-The balance of the material is screened with 33.3% passing through a 20 mesh screen. The estimated tonnage is 150 lbs. and should contain 80% of the balance of the 65% left from the Jig concentrate.

3-This 150 tons is then sent to the tables and is concentrated at 10:1 and is estimated to recover 75% of all the values.

4-The Jig Concentrate (50 tons) and the table concentrate (15 tons) are then sent to the Flotation circuit and are concentrated at 13:1 with 80% of the values estimated to be recoverable.

5-The balance of the material is pumped through the Cyanide Leach Circuit. This material, being non-sulphide in form, will be readily amenable to Cyinide, and should require limited retention time. Approximately 60% of the Gold and Silver values should be recoverable.

The Closed Circuit Agitated Leach Process Contains 8 variables which include:

	- Variables' Range -		
	Low	Mean	High
A) Gold Price	$249.40	$343.41	$437.41
B) Silver Price	$3.77	$7.47	$11.18
C) Gold Grade	.005	.3	1.01
D) Silver Grade	.5	10	205
E) Gold Recovery Percentage	80%	87.5%	95%
F) Silver Recovery Percentage	50%	65%	80%
G) Tonnage - Per Day	60	80	100
H) Operating Cost Per Ton	$15.70	$20.95	$26.20

The Flotation Circuit contains 19 variables which include:

	- Variables' Range -		
	Low	Mean	High
A) Gold Price	$249.40	$343.41	$437.41
	- Variables' Range -		
	Low	Mean	High
B) Silver Price	$3.77	$7.47	$11.18
C) Gold Grade	.01	.11	.21
D) Silver Grade	1	4.5	8
E) Gold Recovery Percentage	85%	90%	95%
E1) Gold Rec.% Lead Con.	60%	80%	100%
E2) Gold Rec.% Zinc Con.	0%	20%	40%
F) Silver Recovery Percentage	85%	90%	95%
F1) Silver Rec.% Lead Con.	60%	80%	100%
F2) Silver Rec.% Zinc Con.	0%	20%	40%
G) Tonnage - Per Day	60	80	100
H) Operating Cost Per Ton	$15.70	$20.95	$26.20
I) Lead Price	$0.117	$0.23	$0.34
J) Zinc Price	$0.35	$0.46	$0.575
K) Lead Grade	.5	3.5	6.5
L) Zinc Grade	.5	4.0	7.5
M) Lead Recovery Percentage	85%	90%	95%
N) Zinc Recovery Percentage	85%	90%	95%
O) Concentration Ratio	7.4	13.9	111.0

It should be noted that their is no exact answer to this analysis, as is the case in many real life situations. The best one can do when faced with such a dilemma is to construct a mathematical model (SFPL Electronic Spreadsheet) which gives the probability of certain outcomes. (7) That is what this analysis

represents, a mathmatical model which will lead to a maximum decision criterion which is, at it's best, a pesimistic or conservative approach to arrive at a decision. This approach is especially useful when the criterion you are working with has a basis in uncertainty. (8) The process and analysis used to calculate these variables is discussed in the following section.

HOW THE VARIABLES WERE DETERMINED

Gold and Silver Price

The Gold and Silver prices used in this analysis are quoted from the Engineering and Mining Journal and are based on the weekly Handy & Harmon New York closing prices. The quotations cover the period from January 1979 to September 1985.

In the analysis some rather gross disparities in the metal prices became quite evident. These disparities stemmed from the, what we felt, inflated prices of 1980. In our estimation these prices are unreal, and in taking a ultra-conservative posture would not likley be repeated. To correct this situation the 1980 prices had to be dicounted in some acceptable manner.

Several alternatives were available:

1) Discount the prices with some type of Cost-of-Living Index.
   e.g. Consumer Price Index.
2) Discount the prices by finding the "real" rate of inflation for the time periods.
3) Discount the prices by averaging the highest and lowest years.

The third approach was choosen not only for it's simplicity but also because it was felt that this would be more representative of the group, beings that the high and low years were not in proportion with the sample years.

For comparitive purposes the high, the low, the mean, and the standard deviations for the actual and adjusted prices used are listed below.

	High	Mean	Low	Stand. Dev.
- ACTUAL -				
Gold	$737.80	$410.17	$221.41	107.99
Silver	$ 44.93	$11.006	$ 5.112	5.8369
- GRAVITY ADJUSTED METAL PRICES -				
Gold	$341.00	$320.00	$299.00	
Silver	$ 6.50	$ 6.20	$ 5.90	

	High	Mean	Low
- CLOSED CIRCUIT AGITATED LEACH ADJUSTED METAL PRICES -			
Gold	$437.41	$343.41	$249.40
Silver	$ 11.18	$ 7.47	$ 3.77
- FLOTATION ADJUSTED METAL PRICES -			
Gold	$437.41	$343.41	$249.40
Silver	$ 11.18	$ 7.47	$ 3.77

From the comparitive table above it is evident that the adjusted prices used bear a very slight resembelence to the actual occurances. The actual table in our opinion is not an acurate measure of what could be expected to happen in the future. Using this premise we can demonstrate our theory. If the actual occurance table is used this would mean that within one standard deviation to the left and right of the mean, which encompasses 68% of the probability of occurance, the price of gold would be between a high of $518.16 (410.17 + 107.99) and a low of $302.18 (410.17 - 107.99). To include 95% of the probability or two standard deviations to the left and right of the mean, the price of gold would increase the range from a high of $626.15 to a low of $194.19. This in our opinion is unrealistic as we do not expect the price of gold to go below the $300.00 mark.

Using today's prices with a minimum variation, based upon the past three years, we adjusted the standard deviation to reflect a more conservative stance. From the actual occurance table we adusted the high and low years by averageing them as mentioned above, which inturn adjusted the mean to a figure that was more realistic in respect to the metal prices of the preceding three years. The low was then anticipated to be at the minimum, $280.00. This was arrived at by looking at the actual occurance of the price of gold, where in the last 3 years the price had dipped below $300.00 for a period of only three weeks or 2% of the sample period. The lowest price that gold reached during this three week period was $287.16. One should also note that the highest price of gold during this same three year period is $505.30, and that the price of gold was above the $400.00 mark for 58 weeks which is 37% of the sample period.

Having established the minimum price of gold to be $280.00, it was realized that there was still the possibility of gold falling below this price. From this assumption it was determined that in accordance with a standard normal distribution this minimum of $280.00 should be the lower constraint of the 95% probability or two standard deviations from the mean. In order to further establish our conservitive stance we did not equally distribute these two standard deviations. Instead, the probability was discounted further by assuming a more volitle market for metals. The distribution in the first standard deviation was based on 68% of the possible occurances instead of 50%. The standard normal distribution curve as a direct result was widened, thus increasing the risk of lower metal prices, but at the same time increasing the chance of high prices since the actual occurance

were matched with their respective standard normal ditribution occurances as mentioned earlier.

Refering back to the Gravity Adjusted Metal Price table on page 44, the minimum price that we allowed gold to reach in this analysis is $299.00. Again, in our opionion, we do not expect the price of gold to go below $300.00. It is also evident that the figure we used as the adjusted high is below the actual mean, this again is due to the fact that we do not believe that metals market will reach the inflated prices of the 1980's. We also are working from a very conservative base and wanted to establish the expected values to be paid on the processed ore to fairly represent what are, today's market prices.

This analysis is somewhat more stringent on the gravity circuit mainly because at this time we have direct access to the ore. The analysis on the flotation and agitated leach circuit is a bit more representative of a standard normal distribution, but at this time neiter system has been implemented at the Tombstone facility.

Lead and Zinc Price

The prices for lead and zinc are determined by taking an analysis of the past year and a half, qouted from the Engineering and Mining Journal. These prices seem to be a fair representation of the prices that could be expected from processed ore given todays market price. They also are set against a standard normal distribution.

The price of lead under the gravity circuit is dicounted for the same reason as mentioned for gold and silver. This results in a mean of .19 with a high of .28 and a low of .10. The mean, based on the calculated year and a half average for lead, used in the flotation cicuit is .23 with a high and low respectivley of .34 and .117.

Zincs' calculated mean is .46 with a high of .575 and .35 as a low. This again is based on the price of zinc for the past year and a half, and is set against a standard normal distribution.

Ore Grades

Gravity Circuit

The grade range given gold is based primarily on actual assay's performed by Alanco Ltd., historical data, and the in house expertise of Mr. Anthony Lane. Mr. Lane holds a degree in Mining Engineering and Geology from the Royal School of Mines in London, England, and has 30 years experience in the field of Mining.

The mean gold grade obtained from Alancos' assay's is .025. Keeping with a conservative outlook, 50% of the high assay's were discounted. This had the effect of making .025 the high, .02 the mean, and .015 the low for this distribution.

The grade range given silver is based primarily on the sample results received from Alanco Ltd.s' assay's preformed on the dump material found in abundance around the Tombstone area. The mean is determined to be 2.5, and is allowed to vary by only .5 ounces on the high (3.0) and the low (2.0) side.

Lead has an average assay of 1.27 from the samples performed by Alanco. Further research of historical data report the average historical mean assay to be .84. (9) The .84 has been determined to be a more representative mean and is used as such in this analysis. The high (1.14) is determined by discounting the the average from Alancos' assay by 10% (1.27 - 10% = 1.143). The historical mean (.84) is then subtracted from the adjusted high (1.14) to determine the range (.3). The range is then subtracted from the historical mean (.84 - .3) to arrive at the low of .54.

Agitated Leach Circuit

The gold grade under this process is determined primarily from assay's performed by Alanco on ore obtained from S.E. Arizona, S.W. New Mexico, and the States of Sonora and Chihuahua, Republic of Mexico. Historical Data and in-house expertise provide the basis for this analysis. The mean is discounted and set at .3, and is allowed to vary by aproximately 1 ounce on the high side (the actual occurances from the data obtained was considerably higher). The anticipated low, given a custom milling facility, is set at .005.

The grade of silver is determined primarily in the same manner as gold. A mean of 10 is calculated, and the low is establish to be 0.5 with a dicounted high of 205. Actual assay's from material that was run, and most likley hand-cobbed (hand sorted and concentrated), provide documented silver ore grades as high as 1200 ounces per ton. The basis for the low is set on the amount of tonnage that will be run. This is primarily based on qualitative information.

Flotation Circuit

The grade of ore under a flotation circuit is based on a review of ore tested by Alanco Ltd. and from historical data provided by the Bureau of Mines on ore recovery from the State of Arizona. (10) This analysis is also based primarily on qualitative information. The mean for gold is calculated to be .11. The high and low were allowed to vary by .1 in both directions giving a high of .21 and .01 as a low.

Silver, Lead, and Zinc are analyzed in the same fashion. Silvers' mean is calculated to be 4.5 and is allowed to vary by 3.5 in both directions. This results in a low of 1 and a high of 8. Lead has a mean of 3.5 and is allowed to vary 3 points in both directions. The high constraint is 6.5 while the lower constraint is .5. Zincs' mean is 4, the high is 7.5 and the low is .5. This, like silver, has a variance of 3.5

Tonnage

The tonnage is fixed for the gravity circuit at 500 tons a day. The basis for this constraint is calculated from the approximately 1,000,000 tons of dump material located near the Tombstone facility. We reasoned, prior to computing the flow sheet, that based upon the grade, this would be the minimum amount of tonnage required to feasibly operate.

Tonnage figures for both the agitated leach and flotation circuit are allowed to be randomly choosen and are based primarily on estimates. The mean for these randomly choosen tonnage figures is 80 with low and high constraints of 60 and 100 respectivley. These figures represent the maximum capacity installed for each of these circuits, and analyzation of historical production in Southeastern Arizona.

Recovery Percentages & Concentration Ratios

Gravity Circuit

The recovery percentages for the gravity circuit are discussed in the preceding Probabilty Analysis Development section.

Closed Circuit Agitated Leach

The recovery percentages for both gold and silver are based on historical recovery as interpreted by Arthur Taggart (11) and are pretty much standard. The high figure is 95% for gold and 80% for silver with a low of 80% and 50%. The calculated means are 87.5% and 65% respectivley.

Flotation

The conclusion drawn from experience and historical information show that both gold and silver recovery has a direct relationship to lead concentrate recovery. As the recovery of lead increases the gold and silver recoveries also increases with the balance going to the zinc concentrate. The concentration ratio on the other hand has an inverse relationship to the recovery ratios of both lead and zinc. History and experience has shown that as the grade of lead and zinc increases the concentration ratio decreases porportionally. (12)

A note should be made that all of the recovery percentages are drawn mainly from working experience, and that the recovery percentages used in this analysis are based on a very conservative and pessimistic analysis.

OPERATING COST

There are many aspects one must consider in mining in order to develop a reasonably accurate model of any operation,

considering the fact that almost every specific item encountered could be considered a variable. Operating costs is singularly one of the most important variables as is true in any operation, whether it be manufacturing, farming, services rendered or any other business and milling and refining of ore is certainly no exception.

It is due to this importance that we have relied upon the "Capital and Operating Cost Estimating System Manual for Mining and Benefication of Metallic and Nonmetallic Minerals Except Fossil Fuels in the United States and Canada"1 for the determination of these values.

This manual was developed for the United States Bureau of Mines by: George K. Clement Jr., Robert L. Miller & Philip A. Seibert of Computer Services and Management Consultants, Inc., Woodland Hills, California; Louis Avery, Private Consultant, Los Angeles, California; and Harold Bennett of the Minerals Availability Office, Bureau of Mines, Denver, Colorado. The intent of the manual was to develop a system by which the federal government could appraise its mineral position and prepare programs to insure against critical shortages of strategic and non-strategic metals and minerals by means of computerized mineral inventory. The developers of this manual collected and analyzed information that was supplied by over 60 mining companies, this includes most of the major mining companies, and developed this manual which is a useful tool in determining capital and operating costs in most form of mining and milling.

In using this manual certain variables had to be pre-determined in order to accurately project the operational cost associated with each circuit in the milling operation. These variables were determined by inter-company expertise and are as follows:

I. GRAVITY MILLING OPERATION:

a.) Crushing to minus 3/8 material (.95 cm.)
b.) work index on rock hardness of 12
c.) Grinding to minus 6 mesh
d.) 500 tons a day
e.) Jig concentration first milling phase w/ 10:1 concentration ratio
f.) Jig recovery of 35%
g.) Tails material to be screened
h.) 33.3% of tails to pass 20 mesh screen
i.) screened material to contain 80% of the balance of the values
j.) Screened tails to be tabled
k.) Table recovery of 75%
l.) Table concentration ratio of 10:1
m.) Table cons and Jig cons to regrind
n.) Regrind from average 6 mesh to 80 mesh
o.) Regrind material to flotation with concentration ratio of 15:1

p.) Flotation recovery of 80%
q.) All tails to cyanide agitated leach as material is oxide in nature
r.) Retention time less than two minutes
s.) Cyanide agitated leach recovery of 60%

II. FLOTATION MILLING OPERATION:

a.) 100 tons a day
b.) work index on rock hardness of 12
c.) crushing to minus 3/8" material (.95 cm.)
d.) grinding to minus 100 mesh
e.) Two-product flotation
f.) Concentration ratio 13:1

III. CYANIDE AGITATED LEACH OPERATION:

a.) 100 tons a day
b.) work index on rock hardness of 12
c.) crushing to minus 3/8" material (.95 cm.)
d.) grinding to minus 100 mesh

The following is a discussion of each of these operating costs.

GRAVITY MILLING OPERATION
500 TONS A DAY

With the aforementioned predetermined variables substituted in the Operating Cost Electronic Spreadsheet, the computer generated the two tables (Table 2A and 2B) for the gravity milling operating cost. Table 2A shows the figures arrived at for the base cost and escalation factors for each area (Labor, Supplies and Material, and Equipment Operation) in each phase of the milling circuit. These values are then summarized in the Item Cost Spreadsheet (Table 2B), wherein the operating cost per day and per ton were calculated.

We then analyzed the arrived at operating cost, by using the per day Labor cost, figure of $1,475.32 or $44,259.60 per month by allowing 30% for employer paid benefits and arrived at the Gross Monthly Payroll of $30,981.72. Calculating the labor at the Mill to be: (1) Mill Manager at $3,000.00; (1) Metallurgist at $3,000.00; (1) Secretary at $1,000.00; (4) Shift Foreman at $1,800.00 each and the balance of the men at an average of $8.00 an hour or 15 men (all figures are per month unless otherwise stated), we then graphed the needs of the mill if operating 500 tons a day, and arrived at the Graph labeled Graph 2A Estimated Manpower Requirements (located on page 70).

From this graph we determined that the allocation for labor, based upon the Tombstone labor market, was quite reasonable.

There are many forms of overlapping schedules, for 24 hour a day 7 day a week operations, which could possibly be used to

reduce the number of employees or at least more equitably distribute the man hour requirements, but, this was not felt to be necessary at this time. We did believe it to be necessary to show that the allocation of labor cost and time were sufficient to run the proposed operation.

Not added in to the base operating cost was any allocation for overhead of the parent company, Alanco Ltd.. Determining the figure to allocate was arbitrary and was set at $.45 a ton or $6,750 a month. This made the arrived at cost for milling of $6.94 a ton, which we used as the mean or average operating cost.

With the mean established at $6.94 it was determined that, even with a maximum effort to conserve power consumption, chemicals, and labor, the operating cost would not drop below $5.44 a ton. This established the lower constraint and was distributed by using $.50 a ton as the deviation. Realizing the operating cost could be more volatile on the high side, due to unforeseen circumstances beyond our control, we doubled the deviation of the low side, which set the high side constraint at $9.94 a ton.

Other costs used in the SFPL Spreadsheet were: $1.50 to load and haul the material from the nearby sight and $.50 an ounce for refining the silver and gold produced in the cyanide agitated leach phase of this operation (this figure has so far held true from practical experience at the MIll Facility).

How these operating costs relate to the SFPL electronic spreadsheet will be discussed in Part B, Section 4, Titled Gravity Milling Operation.

FLOTATION MILLING OPERATION
100 TONS A DAY

With the predetermined variables, listed on page 50, substituted in the Operating Cost Electronic Spreadsheet, the computer generated two tables (Table 2C and 2D) for the flotation milling operating cost. Table 2C shows the figures arrived at for the base cost and escalation factors for each area (Labor, Supplies and Material, and Equipment Operation) in each phase of the milling circuit. These values are then summarized in the Item Cost Spreadsheet (Table 2D), wherein the operating cost per day and per ton were calculated.

The established per ton operating cost would have been used as the mean for the lookup table, in the SFPL Electronic Spreadsheet, except that the figure arrived at in the Cyanide Operation was within cents of the identical figure. We chose to utilize the Cyanide Operating figure as the mean for both operations. This is based on the projected operation of the finished Facility incurring overlapping responsibilities. The table that was used is discussed further in the Cyanide Operation immediately following.

Analyzation of the arrived at labor cost was not performed in this analysis, as it was in the Gravity Milling Operation, primarily due to the fact that there will be overlapping personnel which would reduce labor requirements and spread part of the savings over both operatiing cost figures. This would undoubtedly make each of these operations more profitable.

All operating cost figures were included in the Operating Cost Electronic Spreadsheet, including an item for General Expense of $53.66 a day. This was calculated by the Operating Cost Estimating System, which increased the total allocation for overhead expense to the parent to approximately $8,350.00 a month.

How this operating cost relates to the SFPL Electronic Spreadsheet will be discussed in Part B, Section 5, Titled Flotation Milling Operation.

CYANIDE AGITATED LEACH OPERATION
100 TONS A DAY

With the predetermined variables, listed on page 50, substituted in the Operating Cost Electronic Spreadsheet, the computer generated two tables (Table 2E and 2F) for the cyanide agitated leach operating cost. Table 2E shows the figures arrived at for the base cost and escalation factors for each area (Labor, Supplies and Material, and Equipment Operation) in each phase of the milling circuit. These values are then summarized in the Item Cost Spreadsheet (Table 2F), wherein the operating cost per day and per ton were calculated.

All operating cost figures were included in the Operating Cost Electronic Spreadsheet, including an item for General Expense of $53.66 a day. This was calculated by the Operating Cost Estimating System, which increased the total allocation for overhead expense to the parent to approximately $9,950.00 a month.

The operating cost of $20.95 a ton became the established mean for the SFPL Electronic Spreadsheet and, based upon the Operating Cost Estimating System Manual, a variance of plus or minus 25% was used. These variances were further discounted by an unequal distribution, with 68% of the variance falling within one standard deviation of the mean and 95% within two standard deviations.

Again analyzation of the arrived at labor cost was not performed in this analysis, as it was in the Gravity Milling Operation, primarily due to the fact that there will be overlapping personnel which would reduce labor requirements and spread part of the savings over all three of the operating cost figures. This would undoubtedly make each of these operations more profitable.

SUMMATION
OF
HOW THE VARIABLES WERE DETERMINED

In the previous discussions on variables, we explained how the ranges and limits were determined. In order for these to be applied properly and adequately in the SFPL Electronic Spreadsheet, Tables were created that would allow electronic simulation of what is anticipated as actual performance characteritics of each of the three Mill Circuits. The three SFPL Electronic Spreadsheets objectivity is enhanced by random selection performed by the computer.

In review of these Tables, which are included on the following pages, there are a few items of information which may help one understand them. All of the Tables which incorporate:

a.) the number 3 are the Tables that were used by the computer in the SFPL Electronic Spreadsheets.

b.) the number 2 are based upon the Operating Cost Estimating System (previously mentioned) which were used to develop the operating cost tables used by the computer in the SFPL Electronic Spreadsheets.

c.) the number 1 are historical data on the prices of precious metals and have been furnished for comparitive purposes only.

Of the Tables incorporating the number 3, letter designations were incorporated for ease of reference. The letter designations are as follow:

	Gravity Operation	Flotation Operation	Cyanide Operation
Gold Price	G-A	F-A	C-A
Silver Price	G-B	F-B	C-B
Gold Grade	G-C	F-C	C-C
Silver Grade	G-D	F-D	C-D
Gold Recovery %		F-E	C-E
Silver Recovery %		F-E	C-F
Tonnage		F-G	C-G
Operating Cost	G-H	F-H	C-H
Lead Price	G-I	F-I	
Zinc Price		F-J	
Lead Grade	G-K	F-K	
Zinc Grade		F-L	
Lead Recovery %		F-E	
Zinc Recovery %		F-E	
Concentration Ratio		F-O	

TABLE 1

1979 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$223.57	$6.00	37.283
WEEK 2	$221.41	$6.00	36.910
WEEK 3	$225.56	$6.20	36.394
WEEK 4	$234.13	$6.51	35.988
WEEK 5	$232.51	$6.70	34.728
WEEK 6	$247.29	$7.26	34.077
WEEK 7	$246.06	$7.36	33.429
WEEK 8	$250.40	$7.86	31.858
WEEK 9	$249.12	$7.70	32.349
WEEK 10	$240.27	$7.32	32.845
WEEK 11	$240.74	$7.22	33.321
WEEK 12	$242.02	$7.52	32.184
WEEK 13	$243.27	$7.60	31.992
WEEK 14	$240.12	$7.45	32.236
WEEK 15	$238.31	$7.53	31.663
WEEK 16	$234.63	$7.39	31.740
WEEK 17	$240.90	$7.54	31.957
WEEK 18	$246.92	$7.99	30.888
WEEK 19	$250.48	$8.31	30.155
WEEK 20	$255.39	$8.34	30.632
WEEK 21	$265.28	$8.60	30.860
WEEK 22	$273.56	$8.62	31.745
WEEK 23	$276.94	$8.49	32.603
WEEK 24	$279.19	$8.44	33.076
WEEK 25	$281.18	$8.63	32.599
WEEK 26	$280.10	$8.59	32.619
WEEK 27	$285.58	$8.73	32.723
WEEK 28	$289.37	$9.01	32.107
WEEK 29	$297.98	$9.27	32.142
WEEK 30	$304.90	$9.46	32.218
WEEK 31	$293.39	$9.02	32.544
WEEK 32	$293.48	$8.89	33.000
WEEK 33	$298.45	$9.07	32.914
WEEK 34	$307.02	$9.44	32.520
WEEK 35	$316.36	$10.16	31.142
WEEK 36	$329.75	$11.49	28.688
WEEK 37	$338.53	$12.53	27.009
WEEK 38	$369.30	$15.29	24.153
WEEK 39	$384.87	$16.03	24.015
WEEK 40	$402.60	$16.45	24.468
WEEK 41	$398.95	$17.05	23.405
WEEK 42	$391.49	$17.00	23.032
WEEK 43	$387.91	$17.00	22.812
WEEK 44	$377.23	$16.22	23.257
WEEK 45	$388.11	$16.41	23.655
WEEK 46	$389.56	$16.12	24.163
WEEK 47	$391.50	$16.20	24.161
WEEK 48	$405.71	$17.68	22.942
WEEK 49			
WEEK 50			
WEEK 51			
WEEK 52			

1980 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$594.00	$37.52	15.832
WEEK 2	$615.51	$34.99	17.591
WEEK 3	$737.80	$44.93	16.421
WEEK 4	$733.50	$37.85	19.379
WEEK 5	$663.75	$35.01	18.958
WEEK 6	$690.40	$36.20	19.071
WEEK 7	$690.15	$37.13	18.587
WEEK 8	$638.31	$32.44	19.678
WEEK 9	$635.55	$34.10	18.637
WEEK 10	$628.70	$34.71	18.112
WEEK 11	$564.09	$27.97	20.167
WEEK 12	$515.70	$19.61	26.297
WEEK 13	$517.75	$16.22	31.920
WEEK 14	$497.68	$14.38	34.603
WEEK 15	$528.50	$15.73	33.598
WEEK 16	$515.17	$14.44	35.681
WEEK 17	$516.42	$13.89	37.179
WEEK 18	$511.70	$13.20	38.776
WEEK 19	$512.30	$12.98	39.468
WEEK 20	$516.75	$12.77	40.465
WEEK 21	$509.60	$11.51	44.282
WEEK 22	$524.10	$12.96	40.432
WEEK 23	$572.85	$15.35	37.328
WEEK 24	$604.43	$16.22	37.269
WEEK 25	$598.23	$15.54	38.496
WEEK 26	$616.80	$15.74	39.186
WEEK 27			
WEEK 28			
WEEK 29			
WEEK 30			
WEEK 31	$631.10	$15.95	39.572
WEEK 32	$629.70	$15.90	39.613
WEEK 33	$617.55	$15.71	39.314
WEEK 34	$631.09	$16.02	39.388
WEEK 35	$632.80	$16.03	39.480
WEEK 36	$643.75	$16.59	38.797
WEEK 37	$677.70	$19.71	34.390
WEEK 38	$670.75	$20.66	32.466
WEEK 39	$705.60	$22.65	31.146
WEEK 40	$670.85	$20.80	32.255
WEEK 41	$681.24	$21.33	31.938
WEEK 42	$672.82	$20.92	32.165
WEEK 43	$647.40	$19.28	33.571
WEEK 44	$636.96	$18.96	33.591
WEEK 45	$630.12	$18.94	33.273
WEEK 46	$613.06	$18.19	33.706
WEEK 47	$625.15	$18.88	33.111
WEEK 48	$623.51	$18.64	33.444
WEEK 49	$627.61	$18.39	34.120
WEEK 50	$584.20	$15.87	36.820
WEEK 51	$572.86	$15.40	37.193
WEEK 52	$599.41	$16.35	36.661

1981 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$589.83	$15.63	37.729
WEEK 2	$586.85	$15.81	37.118
WEEK 3	$562.70	$14.98	37.563
WEEK 4	$564.75	$14.91	37.867
WEEK 5	$515.25	$13.30	38.734
WEEK 6	$496.75	$13.11	37.890
WEEK 7	$502.95	$13.28	37.878
WEEK 8	$505.12	$13.01	38.821
WEEK 9	$497.20	$12.69	39.168
WEEK 10			
WEEK 11			
WEEK 12			
WEEK 13			
WEEK 14	$519.40	$12.10	42.939
WEEK 15	$510.60	$11.62	43.956
WEEK 16	$478.87	$11.14	42.976
WEEK 17	$488.40	$11.36	43.000
WEEK 18	$482.65	$11.10	43.481
WEEK 19	$480.65	$11.00	43.703
WEEK 20	$484.55	$10.96	44.194
WEEK 21	$478.15	$10.80	44.289
WEEK 22	$472.87	$10.51	45.013
WEEK 23	$471.05	$10.35	45.525
WEEK 24	$467.10	$10.25	45.561
WEEK 25	$462.45	$10.10	45.769
WEEK 26	$455.80	$9.86	46.217
WEEK 27	$422.81	$8.57	49.364
WEEK 28	$405.85	$8.58	47.301
WEEK 29	$412.15	$8.84	46.602
WEEK 30	$409.05	$8.65	47.278
WEEK 31	$404.54	$8.49	47.665
WEEK 32	$393.33	$8.40	46.841
WEEK 33	$406.50	$8.88	45.802
WEEK 34	$424.30	$9.42	45.023
WEEK 35	$416.50	$8.95	46.525
WEEK 36	$430.90	$9.45	45.597
WEEK 37	$443.87	$10.62	41.795
WEEK 38	$452.45	$10.76	42.060
WEEK 39	$455.75	$9.91	45.998
WEEK 40	$430.75	$9.12	47.210
WEEK 41	$445.30	$9.38	47.473
WEEK 42	$444.47	$9.45	47.015
WEEK 43	$433.85	$9.12	47.550
WEEK 44	$427.14	$9.04	47.25
WEEK 45	$429.25	$9.12	47.066
WEEK 46	$416.85	$8.73	47.771
WEEK 47	$401.85	$8.15	49.294
WEEK 48	$401.83	$8.09	49.669
WEEK 49	$413.25	$8.32	49.687
WEEK 50	$411.50	$8.60	47.837
WEEK 51	$415.90	$8.72	47.673
WEEK 52	$403.52	$8.28	48.734

1982 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$397.37	$8.07	49.225
WEEK 2	$399.35	$8.23	48.535
WEEK 3	$382.25	$7.97	47.991
WEEK 4	$374.75	$7.89	47.526
WEEK 5	$380.15	$8.04	47.258
WEEK 6	$380.93	$8.25	46.150
WEEK 7	$379.58	$8.55	44.384
WEEK 8	$371.93	$8.35	44.529
WEEK 9	$363.41	$7.93	45.827
WEEK 10	$353.03	$7.66	46.075
WEEK 11	$329.55	$7.03	46.864
WEEK 12	$317.65	$7.11	44.707
WEEK 13	$326.36	$7.16	45.587
WEEK 14	$323.50	$7.08	45.711
WEEK 15	$347.12	$7.45	46.585
WEEK 16	$359.95	$7.52	47.891
WEEK 17	$348.80	$7.24	48.176
WEEK 18	$354.65	$7.13	49.719
WEEK 19	$338.98	$6.86	49.399
WEEK 20	$331.40	$6.69	49.536
WEEK 21	$339.90	$6.70	50.723
WEEK 22	$327.33	$6.44	50.819
WEEK 23	$319.08	$5.99	53.302
WEEK 24	$326.40	$5.97	54.664
WEEK 25	$314.10	$5.34	58.824
WEEK 26	$304.10	$5.11	59.487
WEEK 27	$310.65	$5.68	54.701
WEEK 28	$314.93	$5.88	53.605
WEEK 29	$349.10	$6.42	54.368
WEEK 30	$355.60	$6.92	51.357
WEEK 31	$347.18	$6.89	50.367
WEEK 32	$347.62	$6.91	50.292
WEEK 33	$336.10	$6.36	52.837
WEEK 34	$356.08	$6.92	51.441
WEEK 35	$407.65	$8.07	50.539
WEEK 36	$416.74	$8.02	51.988
WEEK 37	$464.50	$9.07	51.226
WEEK 38	$445.30	$9.03	49.335
WEEK 39	$432.27	$8.88	48.662
WEEK 40	$406.60	$8.27	49.189
WEEK 41	$406.65	$8.40	48.393
WEEK 42	$437.62	$9.68	45.197
WEEK 43	$430.45	$10.07	42.750
WEEK 44	$419.42	$9.95	42.144
WEEK 45	$425.60	$10.55	40.360
WEEK 46	$405.35	$9.90	40.956
WEEK 47	$409.87	$9.62	42.601
WEEK 48	$408.58	$9.34	43.729
WEEK 49	$439.55	$10.04	43.766
WEEK 50	$443.60	$10.59	41.886
WEEK 51	$440.58	$10.39	42.387
WEEK 52	$443.87	$10.64	41.712
WEEK 53	$457.47	$11.03	41.493

1983 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$455.00	$11.15	40.810
WEEK 2	$482.10	$12.23	39.413
WEEK 3	$490.25	$12.88	38.074
WEEK 4	$488.30	$13.03	37.466
WEEK 5	$501.65	$14.08	35.626
WEEK 6	$495.70	$14.06	35.251
WEEK 7	$505.30	$14.59	34.626
WEEK 8	$473.87	$13.64	34.753
WEEK 9	$418.90	$10.71	39.102
WEEK 10	$423.90	$10.67	39.735
WEEK 11	$424.05	$10.83	39.140
WEEK 12	$414.60	$10.38	39.942
WEEK 13	$413.56	$10.55	39.2
WEEK 14	$424.25	$11.08	38.306
WEEK 15	$432.15	$11.45	37.752
WEEK 16	$438.55	$12.16	36.076
WEEK 17	$433.80	$12.10	35.854
WEEK 18	$431.95	$12.32	35.069
WEEK 19	$440.35	$12.97	33.961
WEEK 20	$440.22	$13.28	33.139
WEEK 21	$437.71	$13.21	33.124
WEEK 22	$417.87	$12.62	33.121
WEEK 23	$406.00	$11.35	35.761
WEEK 24	$411.43	$11.60	35.474
WEEK 25	$419.00	$12.05	34.768
WEEK 26	$416.52	$11.65	35.765
WEEK 27	$415.16	$11.55	35.936
WEEK 28	$427.05	$12.22	34.961
WEEK 29	$425.53	$12.23	34.796
WEEK 30	$424.25	$12.34	34.380
WEEK 31	$412.05	$11.76	35.038
WEEK 32	$410.79	$11.68	35.185
WEEK 33	$419.65	$12.35	33.986
WEEK 34	$422.48	$12.56	33.642
WEEK 35	$416.59	$12.17	34.228
WEEK 36	$415.06	$12.21	33.997
WEEK 37	$407.00	$11.80	34.503
WEEK 38	$411.32	$11.90	34.561
WEEK 39	$410.92	$11.71	35.100
WEEK 40	$392.68	$10.29	38.150
WEEK 41	$397.78	$10.33	38.507
WEEK 42	$394.05	$9.84	40.045
WEEK 43	$391.47	$9.22	42.467
WEEK 44	$380.30	$8.67	43.848
WEEK 45	$381.61	$8.96	42.614
WEEK 46	$380.02	$8.77	43.356
WEEK 47	$375.50	$8.58	43.790
WEEK 48	$398.15	$9.37	42.496
WEEK 49	$396.75	$9.55	41.544
WEEK 50	$387.09	$9.13	42.379
WEEK 51	$378.22	$8.72	43.373
WEEK 52	$379.91	$8.87	42.837

1984 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$376.87	$8.44	44.633
WEEK 2	$369.20	$8.01	46.098
WEEK 3	$370.32	$8.10	45.701
WEEK 4	$367.99	$8.15	45.179
WEEK 5	$377.62	$8.64	43.721
WEEK 6	$381.49	$8.85	43.086
WEEK 7	$380.38	$9.01	42.240
WEEK 8	$394.56	$9.47	41.680
WEEK 9	$395.75	$9.66	40.955
WEEK 10	$400.85	$9.90	40.485
WEEK 11	$396.00	$9.62	41.155
WEEK 12	$391.41	$9.50	41.214
WEEK 13	$388.15	$9.57	40.546
WEEK 14	$382.06	$9.28	41.170
WEEK 15	$381.88	$9.22	41.400
WEEK 16	$381.43	$9.18	41.533
WEEK 17	$382.38	$9.25	41.333
WEEK 18	$376.93	$9.00	41.867
WEEK 19	$372.57	$8.69	42.868
WEEK 20	$374.63	$8.93	41.970
WEEK 21	$379.73	$9.11	41.673
WEEK 22	$387.50	$9.27	41.812
WEEK 23	$390.92	$9.26	42.220
WEEK 24	$375.02	$8.63	43.440
WEEK 25	$370.70	$8.57	43.280
WEEK 26	$370.80	$8.38	44.258
WEEK 27	$364.10	$7.95	45.820
WEEK 28	$341.63	$7.38	46.278
WEEK 29	$347.04	$7.46	46.545
WEEK 30	$338.94	$7.14	47.490
WEEK 31	$342.62	$7.23	47.375
WEEK 32	$345.35	$7.59	45.512
WEEK 33	$350.53	$7.84	44.733
WEEK 34	$348.31	$7.61	45.745
WEEK 35	$348.75	$7.56	46.106
WEEK 36	$339.92	$7.14	47.616
WEEK 37	$339.11	$7.18	47.249
WEEK 38	$338.85	$7.16	47.338
WEEK 39	$345.57	$7.56	45.740
WEEK 40	$345.84	$7.54	45.885
WEEK 41	$338.93	$7.19	47.131
WEEK 42	$339.54	$7.26	46.794
WEEK 43	$338.90	$7.32	46.278
WEEK 44	$336.43	$7.29	46.143
WEEK 45	$345.98	$7.65	45.255
WEEK 46	$346.15	$7.66	45.189
WEEK 47	$342.11	$7.49	45.685
WEEK 48	$331.68	$7.22	45.932
WEEK 49	$329.83	$7.05	46.757
WEEK 50	$324.85	$6.80	47.793
WEEK 51	$310.36	$6.40	48.501
WEEK 52	$310.03	$6.42	48.328

1985 Ending Week Average	Gold	Silver	Ratio
WEEK 1	$303.65	$6.09	49.888
WEEK 2	$301.76	$6.01	50.201
WEEK 3	$303.40	$6.10	49.721
WEEK 4	$302.82	$6.09	49.732
WEEK 5	$302.83	$6.22	48.655
WEEK 6	$301.52	$6.15	49.011
WEEK 7	$302.80	$6.23	48.587
WEEK 8	$300.93	$6.13	49.071
WEEK 9	$287.16	$5.67	50.681
WEEK 10	$288.91	$5.69	50.801
WEEK 11	$290.63	$5.66	51.357
WEEK 12	$314.72	$6.22	50.589
WEEK 13	$324.85	$6.55	49.580
WEEK 14			
WEEK 15			
WEEK 16			
WEEK 17			
WEEK 18	$316.47	$6.22	50.887
WEEK 19	$313.17	$6.27	49.923
WEEK 20	$322.57	$6.54	49.292
WEEK 21	$316.91	$6.19	51.172
WEEK 22	$312.96	$6.15	50.929
WEEK 23	$315.41	$6.11	51.664
WEEK 24	$314.70	$6.16	51.104
WEEK 25	$319.92	$6.28	50.983
WEEK 26	$315.93	$6.15	51.379
WEEK 27	$310.83	$5.95	52.226
WEEK 28	$313.63	$6.04	51.925
WEEK 29	$320.42	$6.15	52.066
WEEK 30	$318.37	$6.09	52.243

Notations to Table

Number of Entries	327
GOLD	
Mean	410.17
Standard Deviation	107.99
Low	221.41
High	737.8
SILVER	
Mean	11.006
Standard Deviation	5.8369
Low	5.112
High	44.93
G-S RATIO	
Mean	40.551
Standard Deviation	8.3072
Low	15.832
High	59.487
Adjusted Mean	41.56

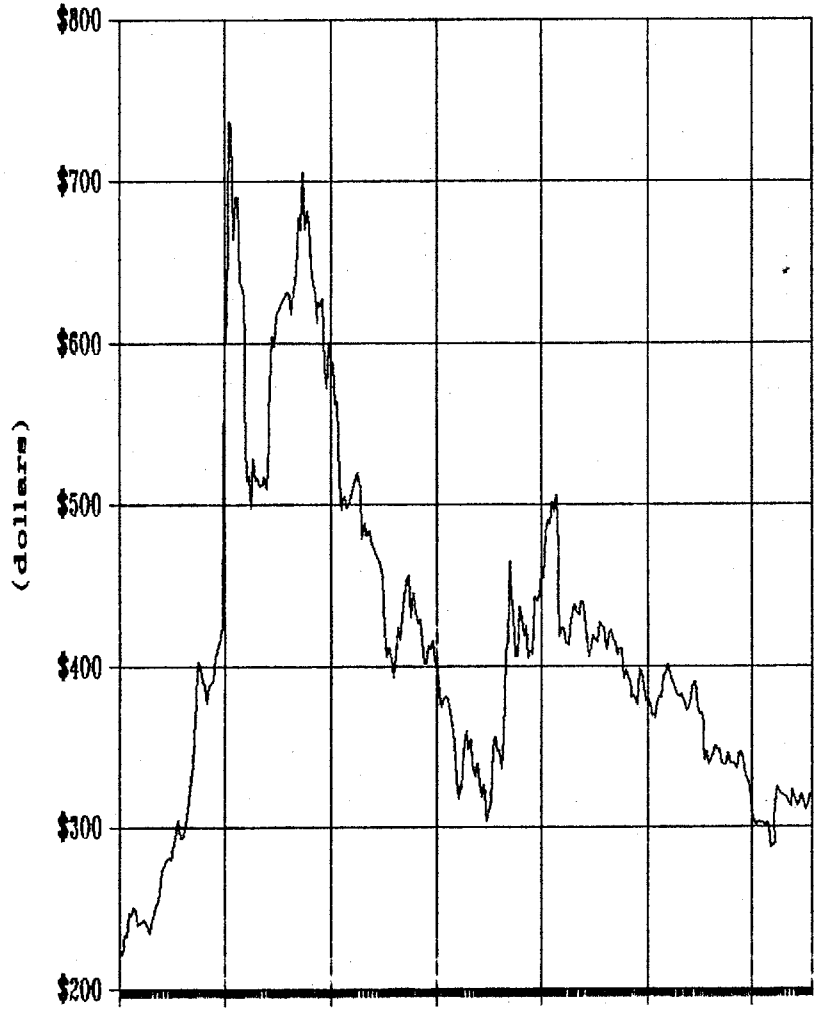
WEEKLY ANALYSIS OF PRICE OF GOLD AND SILVER

QUOTATIONS FROM THE ENGINEERING AND MINING JOURNAL

BASED UPON HANDY & HARMON - NEW YORK CLOSING PRICES

GOLD

HISTORICAL OCCURENCE

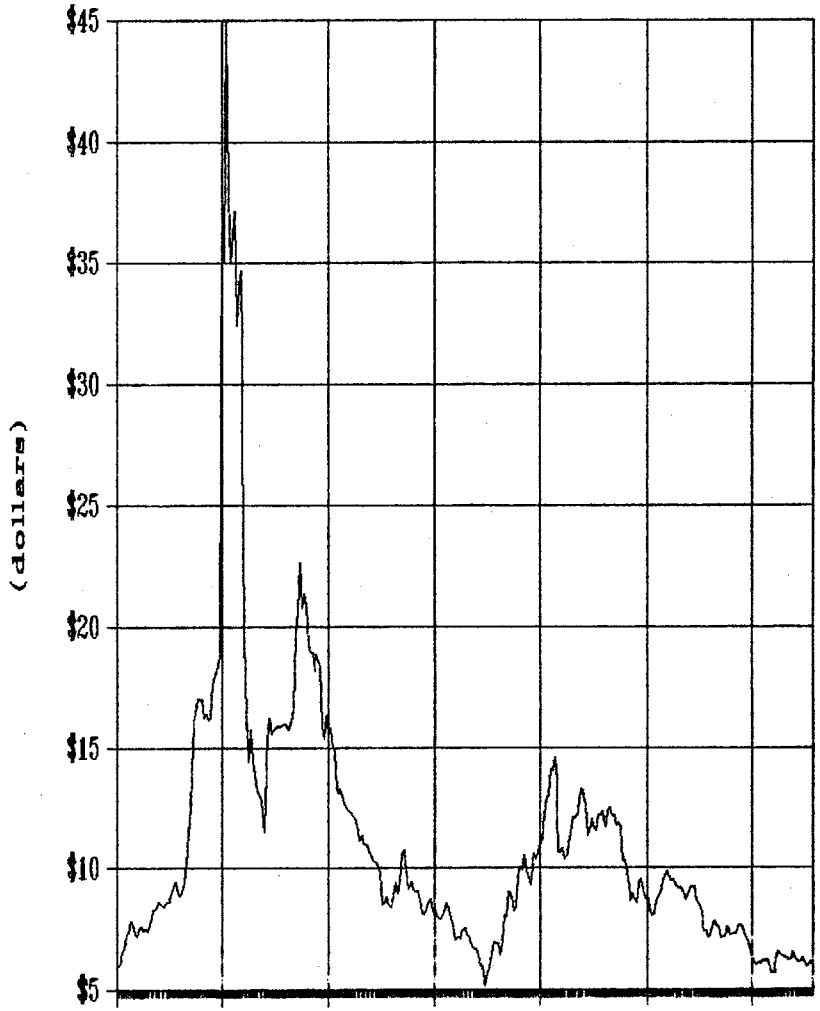


January 1979 - September 1985

GRAPH - 1A

SILVER

HISTORICAL OCCURENCE



January 1979 - September 1985

GRAPH - 1B

TABLE G3-A				TABLE F3-A				TABLE C3-A			
GOLD PRICE - PER OUNCE				GOLD PRICE - PER OUNCE				GOLD PRICE PER OUNCE			
Adjusted				Adjusted				Adjusted			
0	$299.00	0.5	$320.00	0	$249.40	0.5	$343.41	0	$249.40	0.5	$343.41
0.01	$303.72	0.51	$320.18	0.01	$270.51	0.51	$344.19	0.01	$270.51	0.51	$344.19
0.02	$305.62	0.52	$320.35	0.02	$279.06	0.52	$344.98	0.02	$279.06	0.52	$344.98
0.03	$306.83	0.53	$320.53	0.03	$284.47	0.53	$345.77	0.03	$284.47	0.53	$345.77
0.04	$307.75	0.54	$320.70	0.04	$288.55	0.54	$346.55	0.04	$288.55	0.54	$346.55
0.05	$308.49	0.55	$320.88	0.05	$291.87	0.55	$347.35	0.05	$291.87	0.55	$347.35
0.06	$309.12	0.56	$321.06	0.06	$294.69	0.56	$348.14	0.06	$294.69	0.56	$348.14
0.07	$309.67	0.57	$321.23	0.07	$297.16	0.57	$348.93	0.07	$297.16	0.57	$348.93
0.08	$310.16	0.58	$321.41	0.08	$299.38	0.58	$349.73	0.08	$299.38	0.58	$349.73
0.09	$310.61	0.59	$321.59	0.09	$301.39	0.59	$350.54	0.09	$301.39	0.59	$350.54
0.1	$311.03	0.6	$321.77	0.1	$303.25	0.6	$351.34	0.1	$303.25	0.6	$351.34
0.11	$311.41	0.61	$321.96	0.11	$304.98	0.61	$352.16	0.11	$304.98	0.61	$352.16
0.12	$311.78	0.62	$322.14	0.12	$306.59	0.62	$352.98	0.12	$306.59	0.62	$352.98
0.13	$312.12	0.63	$322.32	0.13	$308.11	0.63	$353.81	0.13	$308.11	0.63	$353.81
0.14	$312.44	0.64	$322.51	0.14	$309.56	0.64	$354.64	0.14	$309.56	0.64	$354.64
0.15	$312.75	0.65	$322.70	0.15	$310.93	0.65	$355.48	0.15	$310.93	0.65	$355.48
0.16	$313.04	0.66	$322.89	0.16	$312.25	0.66	$356.33	0.16	$312.25	0.66	$356.33
0.17	$313.32	0.67	$323.08	0.17	$313.51	0.67	$357.19	0.17	$313.51	0.67	$357.19
0.18	$313.59	0.68	$323.27	0.18	$314.72	0.68	$358.06	0.18	$314.72	0.68	$358.06
0.19	$313.85	0.69	$323.47	0.19	$315.90	0.69	$358.95	0.19	$315.90	0.69	$358.95
0.2	$314.11	0.7	$323.67	0.2	$317.04	0.7	$359.84	0.2	$317.04	0.7	$359.84
0.21	$314.36	0.71	$323.87	0.21	$318.14	0.71	$360.75	0.21	$318.14	0.71	$360.75
0.22	$314.59	0.72	$324.08	0.22	$319.21	0.72	$361.67	0.22	$319.21	0.72	$361.67
0.23	$314.83	0.73	$324.29	0.23	$320.26	0.73	$362.61	0.23	$320.26	0.73	$362.61
0.24	$315.06	0.74	$324.50	0.24	$321.28	0.74	$363.56	0.24	$321.28	0.74	$363.56
0.25	$315.28	0.75	$324.72	0.25	$322.27	0.75	$364.54	0.25	$322.27	0.75	$364.54
0.26	$315.50	0.76	$324.94	0.26	$323.25	0.76	$365.54	0.26	$323.25	0.76	$365.54
0.27	$315.71	0.77	$325.17	0.27	$324.21	0.77	$366.56	0.27	$324.21	0.77	$366.56
0.28	$315.92	0.78	$325.41	0.28	$325.15	0.78	$367.60	0.28	$325.15	0.78	$367.60
0.29	$316.13	0.79	$325.64	0.29	$326.07	0.79	$368.68	0.29	$326.07	0.79	$368.68
0.3	$316.33	0.8	$325.89	0.3	$326.98	0.8	$369.78	0.3	$326.98	0.8	$369.78
0.31	$316.53	0.81	$326.15	0.31	$327.87	0.81	$370.92	0.31	$327.87	0.81	$370.92
0.32	$316.73	0.82	$326.41	0.32	$328.75	0.82	$372.09	0.32	$328.75	0.82	$372.09
0.33	$316.92	0.83	$326.68	0.33	$329.62	0.83	$373.31	0.33	$329.62	0.83	$373.31
0.34	$317.11	0.84	$326.96	0.34	$330.48	0.84	$374.57	0.34	$330.48	0.84	$374.57
0.35	$317.30	0.85	$327.25	0.35	$331.33	0.85	$375.88	0.35	$331.33	0.85	$375.88
0.36	$317.49	0.86	$327.56	0.36	$332.17	0.86	$377.26	0.36	$332.17	0.86	$377.26
0.37	$317.68	0.87	$327.88	0.37	$333.01	0.87	$378.70	0.37	$333.01	0.87	$378.70
0.38	$317.86	0.88	$328.23	0.38	$333.83	0.88	$380.23	0.38	$333.83	0.88	$380.23
0.39	$318.04	0.89	$328.59	0.39	$334.66	0.89	$381.84	0.39	$334.66	0.89	$381.84
0.4	$318.23	0.9	$328.97	0.4	$335.47	0.9	$383.57	0.4	$335.47	0.9	$383.57
0.41	$318.41	0.91	$329.39	0.41	$336.28	0.91	$385.42	0.41	$336.28	0.91	$385.42
0.42	$318.59	0.92	$329.84	0.42	$337.08	0.92	$387.44	0.42	$337.08	0.92	$387.44
0.43	$318.77	0.93	$330.33	0.43	$337.88	0.93	$389.65	0.43	$337.88	0.93	$389.65
0.44	$318.94	0.94	$330.88	0.44	$338.68	0.94	$392.13	0.44	$338.68	0.94	$392.13
0.45	$319.12	0.95	$331.51	0.45	$339.47	0.95	$394.95	0.45	$339.47	0.95	$394.95
0.46	$319.30	0.96	$332.25	0.46	$340.26	0.96	$398.26	0.46	$340.26	0.96	$398.26
0.47	$319.47	0.97	$333.17	0.47	$341.05	0.97	$402.34	0.47	$341.05	0.97	$402.34
0.48	$319.65	0.98	$334.38	0.48	$341.83	0.98	$407.76	0.48	$341.83	0.98	$407.76
0.49	$319.83	0.99	$336.28	0.49	$342.62	0.99	$416.30	0.49	$342.62	0.99	$416.30
		1	$341.00			1	$437.41			1	$437.41

TABLE G3-B				TABLE F3-B				TABLE C3-B			
SILVER PRICE - PER OUNCE				SILVER PRICE - PER OUNCE				SILVER PRICE PER OUNCE			
	Adjusted				Adjusted				Adjusted		
0	$5.90	0.5	$6.20	0	$3.77	0.5	$7.47	0	$3.77	0.5	$7.47
0.01	$5.97	0.51	$6.20	0.01	$4.60	0.51	$7.50	0.01	$4.60	0.51	$7.50
0.02	$5.99	0.52	$6.21	0.02	$4.93	0.52	$7.53	0.02	$4.93	0.52	$7.53
0.03	$6.01	0.53	$6.21	0.03	$5.15	0.53	$7.57	0.03	$5.15	0.53	$7.57
0.04	$6.02	0.54	$6.21	0.04	$5.31	0.54	$7.60	0.04	$5.31	0.54	$7.60
0.05	$6.04	0.55	$6.21	0.05	$5.44	0.55	$7.63	0.05	$5.44	0.55	$7.63
0.06	$6.04	0.56	$6.22	0.06	$5.55	0.56	$7.66	0.06	$5.55	0.56	$7.66
0.07	$6.05	0.57	$6.22	0.07	$5.65	0.57	$7.69	0.07	$5.65	0.57	$7.69
0.08	$6.06	0.58	$6.22	0.08	$5.74	0.58	$7.72	0.08	$5.74	0.58	$7.72
0.09	$6.07	0.59	$6.22	0.09	$5.82	0.59	$7.75	0.09	$5.82	0.59	$7.75
0.1	$6.07	0.6	$6.23	0.1	$5.89	0.6	$7.79	0.1	$5.89	0.6	$7.79
0.11	$6.08	0.61	$6.23	0.11	$5.96	0.61	$7.82	0.11	$5.96	0.61	$7.82
0.12	$6.08	0.62	$6.23	0.12	$6.02	0.62	$7.85	0.12	$6.02	0.62	$7.85
0.13	$6.09	0.63	$6.23	0.13	$6.08	0.63	$7.88	0.13	$6.08	0.63	$7.88
0.14	$6.09	0.64	$6.24	0.14	$6.14	0.64	$7.92	0.14	$6.14	0.64	$7.92
0.15	$6.10	0.65	$6.24	0.15	$6.19	0.65	$7.95	0.15	$6.19	0.65	$7.95
0.16	$6.10	0.66	$6.24	0.16	$6.24	0.66	$7.98	0.16	$6.24	0.66	$7.98
0.17	$6.10	0.67	$6.24	0.17	$6.29	0.67	$8.02	0.17	$6.29	0.67	$8.02
0.18	$6.11	0.68	$6.25	0.18	$6.34	0.68	$8.05	0.18	$6.34	0.68	$8.05
0.19	$6.11	0.69	$6.25	0.19	$6.39	0.69	$8.09	0.19	$6.39	0.69	$8.09
0.2	$6.12	0.7	$6.25	0.2	$6.43	0.7	$8.12	0.2	$6.43	0.7	$8.12
0.21	$6.12	0.71	$6.26	0.21	$6.48	0.71	$8.16	0.21	$6.48	0.71	$8.16
0.22	$6.12	0.72	$6.26	0.22	$6.52	0.72	$8.19	0.22	$6.52	0.72	$8.19
0.23	$6.13	0.73	$6.26	0.23	$6.56	0.73	$8.23	0.23	$6.56	0.73	$8.23
0.24	$6.13	0.74	$6.26	0.24	$6.60	0.74	$8.27	0.24	$6.60	0.74	$8.27
0.25	$6.13	0.75	$6.27	0.25	$6.64	0.75	$8.31	0.25	$6.64	0.75	$8.31
0.26	$6.14	0.76	$6.27	0.26	$6.68	0.76	$8.35	0.26	$6.68	0.76	$8.35
0.27	$6.14	0.77	$6.27	0.27	$6.72	0.77	$8.39	0.27	$6.72	0.77	$8.39
0.28	$6.14	0.78	$6.28	0.28	$6.75	0.78	$8.43	0.28	$6.75	0.78	$8.43
0.29	$6.14	0.79	$6.28	0.29	$6.79	0.79	$8.47	0.29	$6.79	0.79	$8.47
0.3	$6.15	0.8	$6.28	0.3	$6.82	0.8	$8.51	0.3	$6.82	0.8	$8.51
0.31	$6.15	0.81	$6.29	0.31	$6.86	0.81	$8.56	0.31	$6.86	0.81	$8.56
0.32	$6.15	0.82	$6.29	0.32	$6.89	0.82	$8.60	0.32	$6.89	0.82	$8.60
0.33	$6.16	0.83	$6.30	0.33	$6.93	0.83	$8.65	0.33	$6.93	0.83	$8.65
0.34	$6.16	0.84	$6.30	0.34	$6.96	0.84	$8.70	0.34	$6.96	0.84	$8.70
0.35	$6.16	0.85	$6.30	0.35	$7.00	0.85	$8.75	0.35	$7.00	0.85	$8.75
0.36	$6.16	0.86	$6.31	0.36	$7.03	0.86	$8.81	0.36	$7.03	0.86	$8.81
0.37	$6.17	0.87	$6.31	0.37	$7.06	0.87	$8.86	0.37	$7.06	0.87	$8.86
0.38	$6.17	0.88	$6.32	0.38	$7.10	0.88	$8.92	0.38	$7.10	0.88	$8.92
0.39	$6.17	0.89	$6.32	0.39	$7.13	0.89	$8.99	0.39	$7.13	0.89	$8.99
0.4	$6.17	0.9	$6.33	0.4	$7.16	0.9	$9.06	0.4	$7.16	0.9	$9.06
0.41	$6.18	0.91	$6.33	0.41	$7.19	0.91	$9.13	0.41	$7.19	0.91	$9.13
0.42	$6.18	0.92	$6.34	0.42	$7.22	0.92	$9.21	0.42	$7.22	0.92	$9.21
0.43	$6.18	0.93	$6.35	0.43	$7.25	0.93	$9.30	0.43	$7.25	0.93	$9.30
0.44	$6.18	0.94	$6.36	0.44	$7.29	0.94	$9.39	0.44	$7.29	0.94	$9.39
0.45	$6.19	0.95	$6.36	0.45	$7.32	0.95	$9.51	0.45	$7.32	0.95	$9.51
0.46	$6.19	0.96	$6.38	0.46	$7.35	0.96	$9.64	0.46	$7.35	0.96	$9.64
0.47	$6.19	0.97	$6.39	0.47	$7.38	0.97	$9.80	0.47	$7.38	0.97	$9.80
0.48	$6.19	0.98	$6.41	0.48	$7.41	0.98	$10.01	0.48	$7.41	0.98	$10.01
0.49	$6.20	0.99	$6.43	0.49	$7.44	0.99	$10.35	0.49	$7.44	0.99	$10.35
		1	$6.50			1	$11.18			1	$11.18

TABLE G3-C				TABLE F3-C				TABLE C3-C			
ORE CONTENT - GOLD GRADE				ORE CONTENT - GOLD GRADE				ORE CONTENT - GOLD GRADE			
Adjusted				Adjusted				Adjusted			
0	0.0150	0.5	0.0200	0	0.0100	0.5	0.1100	0	0.0050	0.5	0.3000
0.01	0.0161	0.51	0.0200	0.01	0.0325	0.51	0.1108	0.01	0.0117	0.51	0.3120
0.02	0.0166	0.52	0.0201	0.02	0.0416	0.52	0.1117	0.02	0.0145	0.52	0.3241
0.03	0.0169	0.53	0.0201	0.03	0.0473	0.53	0.1125	0.03	0.0247	0.53	0.3361
0.04	0.0171	0.54	0.0202	0.04	0.0516	0.54	0.1133	0.04	0.0352	0.54	0.3482
0.05	0.0173	0.55	0.0202	0.05	0.0552	0.55	0.1142	0.05	0.0438	0.55	0.3603
0.06	0.0174	0.56	0.0203	0.06	0.0582	0.56	0.1150	0.06	0.0511	0.56	0.3725
0.07	0.0176	0.57	0.0203	0.07	0.0608	0.57	0.1159	0.07	0.0575	0.57	0.3847
0.08	0.0177	0.58	0.0203	0.08	0.0632	0.58	0.1167	0.08	0.0632	0.58	0.3969
0.09	0.0178	0.59	0.0204	0.09	0.0653	0.59	0.1176	0.09	0.0684	0.59	0.4092
0.1	0.0179	0.6	0.0204	0.1	0.0673	0.6	0.1184	0.1	0.0732	0.6	0.4216
0.11	0.0180	0.61	0.0205	0.11	0.0691	0.61	0.1193	0.11	0.0777	0.61	0.4341
0.12	0.0180	0.62	0.0205	0.12	0.0708	0.62	0.1202	0.12	0.0818	0.62	0.4466
0.13	0.0181	0.63	0.0206	0.13	0.0725	0.63	0.1211	0.13	0.0858	0.63	0.4593
0.14	0.0182	0.64	0.0206	0.14	0.0740	0.64	0.1219	0.14	0.0895	0.64	0.4721
0.15	0.0183	0.65	0.0206	0.15	0.0755	0.65	0.1228	0.15	0.0931	0.65	0.4849
0.16	0.0183	0.66	0.0207	0.16	0.0769	0.66	0.1237	0.16	0.0971	0.66	0.4980
0.17	0.0184	0.67	0.0207	0.17	0.0782	0.67	0.1247	0.17	0.1053	0.67	0.5112
0.18	0.0185	0.68	0.0208	0.18	0.0795	0.68	0.1256	0.18	0.1133	0.68	0.5245
0.19	0.0185	0.69	0.0208	0.19	0.0807	0.69	0.1265	0.19	0.1209	0.69	0.5380
0.2	0.0186	0.7	0.0209	0.2	0.0819	0.7	0.1275	0.2	0.1283	0.7	0.5517
0.21	0.0187	0.71	0.0209	0.21	0.0831	0.71	0.1284	0.21	0.1355	0.71	0.5656
0.22	0.0187	0.72	0.0210	0.22	0.0843	0.72	0.1294	0.22	0.1425	0.72	0.5797
0.23	0.0188	0.73	0.0210	0.23	0.0854	0.73	0.1304	0.23	0.1493	0.73	0.5941
0.24	0.0188	0.74	0.0211	0.24	0.0865	0.74	0.1314	0.24	0.1559	0.74	0.6088
0.25	0.0189	0.75	0.0211	0.25	0.0875	0.75	0.1325	0.25	0.1624	0.75	0.6238
0.26	0.0189	0.76	0.0212	0.26	0.0886	0.76	0.1335	0.26	0.1688	0.76	0.6390
0.27	0.0190	0.77	0.0212	0.27	0.0896	0.77	0.1346	0.27	0.1750	0.77	0.6546
0.28	0.0190	0.78	0.0213	0.28	0.0906	0.78	0.1357	0.28	0.1811	0.78	0.6707
0.29	0.0191	0.79	0.0213	0.29	0.0916	0.79	0.1369	0.29	0.1871	0.79	0.6871
0.3	0.0191	0.8	0.0214	0.3	0.0925	0.8	0.1381	0.3	0.1930	0.8	0.7040
0.31	0.0192	0.81	0.0215	0.31	0.0935	0.81	0.1393	0.31	0.1988	0.81	0.7214
0.32	0.0192	0.82	0.0215	0.32	0.0944	0.82	0.1405	0.32	0.2046	0.82	0.7394
0.33	0.0193	0.83	0.0216	0.33	0.0953	0.83	0.1418	0.33	0.2103	0.83	0.7580
0.34	0.0193	0.84	0.0217	0.34	0.0963	0.84	0.1431	0.34	0.2159	0.84	0.7774
0.35	0.0194	0.85	0.0217	0.35	0.0972	0.85	0.1445	0.35	0.2214	0.85	0.7869
0.36	0.0194	0.86	0.0218	0.36	0.0981	0.86	0.1460	0.36	0.2269	0.86	0.7953
0.37	0.0194	0.87	0.0219	0.37	0.0989	0.87	0.1475	0.37	0.2323	0.87	0.8040
0.38	0.0195	0.88	0.0220	0.38	0.0998	0.88	0.1492	0.38	0.2377	0.88	0.8133
0.39	0.0195	0.89	0.0220	0.39	0.1007	0.89	0.1509	0.39	0.2430	0.89	0.8230
0.4	0.0196	0.9	0.0221	0.4	0.1016	0.9	0.1527	0.4	0.2483	0.9	0.8335
0.41	0.0196	0.91	0.0222	0.41	0.1024	0.91	0.1547	0.41	0.2536	0.91	0.8448
0.42	0.0197	0.92	0.0223	0.42	0.1033	0.92	0.1568	0.42	0.2588	0.92	0.8570
0.43	0.0197	0.93	0.0224	0.43	0.1041	0.93	0.1592	0.43	0.2640	0.93	0.8704
0.44	0.0197	0.94	0.0226	0.44	0.1050	0.94	0.1618	0.44	0.2692	0.94	0.8854
0.45	0.0198	0.95	0.0227	0.45	0.1058	0.95	0.1648	0.45	0.2744	0.95	0.9025
0.46	0.0198	0.96	0.0229	0.46	0.1067	0.96	0.1684	0.46	0.2795	0.96	0.9226
0.47	0.0199	0.97	0.0231	0.47	0.1075	0.97	0.1727	0.47	0.2846	0.97	0.9474
0.48	0.0199	0.98	0.0234	0.48	0.1083	0.98	0.1784	0.48	0.2898	0.98	0.9721
0.49	0.0200	0.99	0.0239	0.49	0.1092	0.99	0.1875	0.49	0.2949	0.99	0.9831
		1	0.0250			1	0.2100			1	1.0100

TABLE G3-D				TABLE F3-D				TABLE C3-D			
ORE CONTENT - SILVER GRADE				ORE CONTENT - SILVER GRADE				ORE CONTENT - SILVER GRADE			
Adjusted				Adjusted				Adjusted			
0	2.000	0.5	2.500	0	1.000	0.5	4.500	0	0.500	0.5	10.000
0.01	2.112	0.51	2.504	0.01	1.786	0.51	4.529	0.01	0.837	0.51	10.500
0.02	2.158	0.52	2.508	0.02	2.104	0.52	4.559	0.02	0.973	0.52	11.004
0.03	2.187	0.53	2.513	0.03	2.306	0.53	4.588	0.03	1.238	0.53	11.506
0.04	2.208	0.54	2.517	0.04	2.457	0.54	4.617	0.04	1.499	0.54	12.008
0.05	2.226	0.55	2.521	0.05	2.581	0.55	4.647	0.05	1.710	0.55	12.514
0.06	2.241	0.56	2.525	0.06	2.686	0.56	4.676	0.06	1.890	0.56	13.020
0.07	2.254	0.57	2.529	0.07	2.778	0.57	4.706	0.07	2.048	0.57	13.528
0.08	2.266	0.58	2.534	0.08	2.861	0.58	4.736	0.08	2.190	0.58	14.038
0.09	2.277	0.59	2.538	0.09	2.936	0.59	4.765	0.09	2.318	0.59	14.550
0.1	2.286	0.6	2.542	0.1	3.005	0.6	4.796	0.1	2.437	0.6	15.066
0.11	2.296	0.61	2.547	0.11	3.069	0.61	4.826	0.11	2.547	0.61	15.586
0.12	2.304	0.62	2.551	0.12	3.129	0.62	4.856	0.12	2.650	0.62	16.110
0.13	2.312	0.63	2.555	0.13	3.186	0.63	4.887	0.13	2.747	0.63	16.638
0.14	2.320	0.64	2.560	0.14	3.240	0.64	4.918	0.14	2.839	0.64	17.170
0.15	2.327	0.65	2.564	0.15	3.291	0.65	4.950	0.15	2.927	0.65	17.706
0.16	2.334	0.66	2.569	0.16	3.340	0.66	4.981	0.16	3.038	0.66	18.250
0.17	2.341	0.67	2.573	0.17	3.387	0.67	5.013	0.17	3.321	0.67	18.798
0.18	2.347	0.68	2.578	0.18	3.432	0.68	5.046	0.18	3.592	0.68	19.354
0.19	2.354	0.69	2.583	0.19	3.476	0.69	5.079	0.19	3.855	0.69	19.918
0.2	2.360	0.7	2.587	0.2	3.518	0.7	5.112	0.2	4.109	0.7	20.488
0.21	2.366	0.71	2.592	0.21	3.559	0.71	5.146	0.21	4.355	0.71	21.068
0.22	2.371	0.72	2.597	0.22	3.599	0.72	5.180	0.22	4.595	0.72	21.656
0.23	2.377	0.73	2.602	0.23	3.638	0.73	5.215	0.23	4.828	0.73	22.256
0.24	2.382	0.74	2.607	0.24	3.676	0.74	5.251	0.24	5.056	0.74	22.866
0.25	2.388	0.75	2.612	0.25	3.713	0.75	5.287	0.25	5.279	0.75	23.490
0.26	2.393	0.76	2.618	0.26	3.749	0.76	5.324	0.26	5.497	0.76	24.126
0.27	2.398	0.77	2.623	0.27	3.785	0.77	5.362	0.27	5.710	0.77	24.776
0.28	2.403	0.78	2.629	0.28	3.820	0.78	5.401	0.28	5.920	0.78	25.444
0.29	2.408	0.79	2.634	0.29	3.854	0.79	5.441	0.29	6.126	0.79	26.128
0.3	2.413	0.8	2.640	0.3	3.888	0.8	5.482	0.3	6.329	0.8	26.832
0.31	2.417	0.81	2.646	0.31	3.921	0.81	5.524	0.31	6.529	0.81	27.558
0.32	2.422	0.82	2.653	0.32	3.954	0.82	5.568	0.32	6.726	0.82	28.308
0.33	2.427	0.83	2.659	0.33	3.987	0.83	5.613	0.33	6.921	0.83	29.084
0.34	2.431	0.84	2.666	0.34	4.019	0.84	5.660	0.34	7.113	0.84	29.890
0.35	2.436	0.85	2.673	0.35	4.050	0.85	5.709	0.35	7.303	0.85	32.730
0.36	2.440	0.86	2.680	0.36	4.082	0.86	5.760	0.36	7.491	0.86	36.023
0.37	2.445	0.87	2.688	0.37	4.113	0.87	5.814	0.37	7.677	0.87	39.480
0.38	2.449	0.88	2.696	0.38	4.144	0.88	5.871	0.38	7.862	0.88	43.125
0.39	2.453	0.89	2.704	0.39	4.174	0.89	5.931	0.39	8.045	0.89	46.988
0.4	2.458	0.9	2.714	0.4	4.204	0.9	5.995	0.4	8.227	0.9	51.120
0.41	2.462	0.91	2.723	0.41	4.235	0.91	6.064	0.41	8.408	0.91	55.560
0.42	2.466	0.92	2.734	0.42	4.264	0.92	6.139	0.42	8.587	0.92	60.383
0.43	2.471	0.93	2.746	0.43	4.294	0.93	6.222	0.43	8.765	0.93	65.685
0.44	2.475	0.94	2.759	0.44	4.324	0.94	6.314	0.44	8.943	0.94	71.610
0.45	2.479	0.95	2.774	0.45	4.353	0.95	6.419	0.45	9.120	0.95	78.368
0.46	2.483	0.96	2.792	0.46	4.383	0.96	6.543	0.46	9.297	0.96	86.303
0.47	2.487	0.97	2.813	0.47	4.412	0.97	6.694	0.47	9.473	0.97	96.060
0.48	2.492	0.98	2.842	0.48	4.441	0.98	6.896	0.48	9.649	0.98	110.370
0.49	2.496	0.99	2.888	0.49	4.471	0.99	7.214	0.49	9.825	0.99	137.630
		1	3.000			1	8.000			1	205.000

TABLE C3-E GOLD RECOVERY PERCENTAGE				TABLE C3-F SILVER RECOVERY PERCENTAGE			
0	80.00%	0.5	87.50%	0	50.00%	0.5	65.00%
0.01	80.25%	0.51	87.63%	0.01	50.51%	0.51	65.26%
0.02	80.35%	0.52	87.76%	0.02	50.71%	0.52	65.51%
0.03	80.62%	0.53	87.88%	0.03	51.23%	0.53	65.77%
0.04	80.88%	0.54	88.01%	0.04	51.76%	0.54	66.02%
0.05	81.09%	0.55	88.14%	0.05	52.19%	0.55	66.28%
0.06	81.28%	0.56	88.27%	0.06	52.55%	0.56	66.54%
0.07	81.44%	0.57	88.40%	0.07	52.87%	0.57	66.80%
0.08	81.58%	0.58	88.53%	0.08	53.16%	0.58	67.06%
0.09	81.71%	0.59	88.66%	0.09	53.42%	0.59	67.32%
0.1	81.83%	0.6	88.79%	0.1	53.66%	0.6	67.58%
0.11	81.94%	0.61	88.92%	0.11	53.88%	0.61	67.85%
0.12	82.05%	0.62	89.06%	0.12	54.09%	0.62	68.12%
0.13	82.14%	0.63	89.19%	0.13	54.29%	0.63	68.39%
0.14	82.24%	0.64	89.33%	0.14	54.47%	0.64	68.66%
0.15	82.33%	0.65	89.47%	0.15	54.65%	0.65	68.93%
0.16	82.43%	0.66	89.60%	0.16	54.86%	0.66	69.21%
0.17	82.63%	0.67	89.74%	0.17	55.27%	0.67	69.49%
0.18	82.83%	0.68	89.89%	0.18	55.66%	0.68	69.77%
0.19	83.02%	0.69	90.03%	0.19	56.05%	0.69	70.06%
0.2	83.21%	0.7	90.17%	0.2	56.42%	0.7	70.35%
0.21	83.39%	0.71	90.32%	0.21	56.77%	0.71	70.64%
0.22	83.56%	0.72	90.47%	0.22	57.12%	0.72	70.94%
0.23	83.73%	0.73	90.63%	0.23	57.46%	0.73	71.25%
0.24	83.90%	0.74	90.78%	0.24	57.80%	0.74	71.56%
0.25	84.06%	0.75	90.94%	0.25	58.12%	0.75	71.88%
0.26	84.22%	0.76	91.10%	0.26	58.44%	0.76	72.20%
0.27	84.37%	0.77	91.27%	0.27	58.75%	0.77	72.54%
0.28	84.53%	0.78	91.44%	0.28	59.06%	0.78	72.88%
0.29	84.68%	0.79	91.61%	0.29	59.36%	0.79	73.23%
0.3	84.83%	0.8	91.79%	0.3	59.65%	0.8	73.58%
0.31	84.97%	0.81	91.98%	0.31	59.94%	0.81	73.95%
0.32	85.11%	0.82	92.17%	0.32	60.23%	0.82	74.34%
0.33	85.26%	0.83	92.37%	0.33	60.51%	0.83	74.73%
0.34	85.40%	0.84	92.57%	0.34	60.79%	0.84	75.14%
0.35	85.53%	0.85	92.67%	0.35	61.07%	0.85	75.35%
0.36	85.67%	0.86	92.76%	0.36	61.34%	0.86	75.53%
0.37	85.81%	0.87	92.86%	0.37	61.61%	0.87	75.71%
0.38	85.94%	0.88	92.95%	0.38	61.88%	0.88	75.91%
0.39	86.08%	0.89	93.06%	0.39	62.15%	0.89	76.12%
0.4	86.21%	0.9	93.17%	0.4	62.42%	0.9	76.34%
0.41	86.34%	0.91	93.29%	0.41	62.68%	0.91	76.58%
0.42	86.47%	0.92	93.42%	0.42	62.94%	0.92	76.84%
0.43	86.60%	0.93	93.56%	0.43	63.20%	0.93	77.13%
0.44	86.73%	0.94	93.72%	0.44	63.46%	0.94	77.45%
0.45	86.86%	0.95	93.91%	0.45	63.72%	0.95	77.81%
0.46	86.99%	0.96	94.12%	0.46	63.98%	0.96	78.24%
0.47	87.12%	0.97	94.38%	0.47	64.23%	0.97	78.77%
0.48	87.24%	0.98	94.65%	0.48	64.49%	0.98	79.29%
0.49	87.37%	0.99	94.75%	0.49	64.75%	0.99	79.49%
		1	95.00%			1	80.00%

TABLE F3-G TONNAGE Per Day Adjusted				TABLE C3-G TONNAGE Per Day Adjusted			
0	60.00	0.5	80.00	0	60.00	0.5	80.00
0.01	60.67	0.51	80.34	0.01	60.67	0.51	80.34
0.02	60.95	0.52	80.68	0.02	60.95	0.52	80.68
0.03	61.64	0.53	81.02	0.03	61.64	0.53	81.02
0.04	62.35	0.54	81.37	0.04	62.35	0.54	81.37
0.05	62.92	0.55	81.71	0.05	62.92	0.55	81.71
0.06	63.40	0.56	82.05	0.06	63.40	0.56	82.05
0.07	63.83	0.57	82.40	0.07	63.83	0.57	82.40
0.08	64.21	0.58	82.75	0.08	64.21	0.58	82.75
0.09	64.56	0.59	83.09	0.09	64.56	0.59	83.09
0.1	64.88	0.6	83.44	0.1	64.88	0.6	83.44
0.11	65.18	0.61	83.80	0.11	65.18	0.61	83.80
0.12	65.46	0.62	84.15	0.12	65.46	0.62	84.15
0.13	65.72	0.63	84.51	0.13	65.72	0.63	84.51
0.14	65.97	0.64	84.88	0.14	65.97	0.64	84.88
0.15	66.20	0.65	85.24	0.15	66.20	0.65	85.24
0.16	66.47	0.66	85.61	0.16	66.47	0.66	85.61
0.17	67.02	0.67	85.98	0.17	67.02	0.67	85.98
0.18	67.55	0.68	86.36	0.18	67.55	0.68	86.36
0.19	68.06	0.69	86.74	0.19	68.06	0.69	86.74
0.2	68.55	0.7	87.13	0.2	68.55	0.7	87.13
0.21	69.03	0.71	87.53	0.21	69.03	0.71	87.53
0.22	69.50	0.72	87.93	0.22	69.50	0.72	87.93
0.23	69.95	0.73	88.33	0.23	69.95	0.73	88.33
0.24	70.39	0.74	88.75	0.24	70.39	0.74	88.75
0.25	70.83	0.75	89.17	0.25	70.83	0.75	89.17
0.26	71.25	0.76	89.61	0.26	71.25	0.76	89.61
0.27	71.67	0.77	90.05	0.27	71.67	0.77	90.05
0.28	72.07	0.78	90.50	0.28	72.07	0.78	90.50
0.29	72.47	0.79	90.97	0.29	72.47	0.79	90.97
0.3	72.87	0.8	91.45	0.3	72.87	0.8	91.45
0.31	73.26	0.81	91.94	0.31	73.26	0.81	91.94
0.32	73.64	0.82	92.45	0.32	73.64	0.82	92.45
0.33	74.02	0.83	92.98	0.33	74.02	0.83	92.98
0.34	74.39	0.84	93.53	0.34	74.39	0.84	93.53
0.35	74.76	0.85	93.80	0.35	74.76	0.85	93.80
0.36	75.12	0.86	94.03	0.36	75.12	0.86	94.03
0.37	75.49	0.87	94.28	0.37	75.49	0.87	94.28
0.38	75.85	0.88	94.55	0.38	75.85	0.88	94.55
0.39	76.20	0.89	94.82	0.39	76.20	0.89	94.82
0.4	76.56	0.9	95.12	0.4	76.56	0.9	95.12
0.41	76.91	0.91	95.44	0.41	76.91	0.91	95.44
0.42	77.25	0.92	95.79	0.42	77.25	0.92	95.79
0.43	77.60	0.93	96.17	0.43	77.60	0.93	96.17
0.44	77.95	0.94	96.60	0.44	77.95	0.94	96.60
0.45	78.29	0.95	97.08	0.45	78.29	0.95	97.08
0.46	78.63	0.96	97.65	0.46	78.63	0.96	97.65
0.47	78.98	0.97	98.36	0.47	78.98	0.97	98.36
0.48	79.32	0.98	99.05	0.48	79.32	0.98	99.05
0.49	79.66	0.99	99.33	0.49	79.66	0.99	99.33
		1	100.00			1	100.00

TABLE G3-H OPERATING COST Per Ton Adjusted				TABLE F3-H OPERATING COST Per Ton Adjusted				TABLE C3-H OPERATING COST Per Ton Adjusted			
0	$5.44	0.5	$6.94	0	$15.70	0.5	$20.95	0	$15.70	0.5	$20.95
0.01	$5.78	0.51	$6.97	0.01	$16.88	0.51	$20.99	0.01	$16.88	0.51	$20.99
0.02	$5.91	0.52	$6.99	0.02	$17.36	0.52	$21.04	0.02	$17.36	0.52	$21.04
0.03	$6.00	0.53	$7.02	0.03	$17.66	0.53	$21.08	0.03	$17.66	0.53	$21.08
0.04	$6.06	0.54	$7.04	0.04	$17.89	0.54	$21.13	0.04	$17.89	0.54	$21.13
0.05	$6.12	0.55	$7.07	0.05	$18.07	0.55	$21.17	0.05	$18.07	0.55	$21.17
0.06	$6.16	0.56	$7.09	0.06	$18.23	0.56	$21.21	0.06	$18.23	0.56	$21.21
0.07	$6.20	0.57	$7.12	0.07	$18.37	0.57	$21.26	0.07	$18.37	0.57	$21.26
0.08	$6.24	0.58	$7.14	0.08	$18.49	0.58	$21.30	0.08	$18.49	0.58	$21.30
0.09	$6.27	0.59	$7.17	0.09	$18.60	0.59	$21.35	0.09	$18.60	0.59	$21.35
0.1	$6.30	0.6	$7.19	0.1	$18.71	0.6	$21.39	0.1	$18.71	0.6	$21.39
0.11	$6.33	0.61	$7.22	0.11	$18.80	0.61	$21.44	0.11	$18.80	0.61	$21.44
0.12	$6.35	0.62	$7.25	0.12	$18.89	0.62	$21.48	0.12	$18.89	0.62	$21.48
0.13	$6.38	0.63	$7.27	0.13	$18.98	0.63	$21.53	0.13	$18.98	0.63	$21.53
0.14	$6.40	0.64	$7.30	0.14	$19.06	0.64	$21.58	0.14	$19.06	0.64	$21.58
0.15	$6.42	0.65	$7.33	0.15	$19.14	0.65	$21.62	0.15	$19.14	0.65	$21.62
0.16	$6.44	0.66	$7.35	0.16	$19.21	0.66	$21.67	0.16	$19.21	0.66	$21.67
0.17	$6.46	0.67	$7.38	0.17	$19.28	0.67	$21.72	0.17	$19.28	0.67	$21.72
0.18	$6.48	0.68	$7.41	0.18	$19.35	0.68	$21.77	0.18	$19.35	0.68	$21.77
0.19	$6.50	0.69	$7.44	0.19	$19.41	0.69	$21.82	0.19	$19.41	0.69	$21.82
0.2	$6.52	0.7	$7.46	0.2	$19.48	0.7	$21.87	0.2	$19.48	0.7	$21.87
0.21	$6.54	0.71	$7.49	0.21	$19.54	0.71	$21.92	0.21	$19.54	0.71	$21.92
0.22	$6.55	0.72	$7.52	0.22	$19.60	0.72	$21.97	0.22	$19.60	0.72	$21.97
0.23	$6.57	0.73	$7.55	0.23	$19.66	0.73	$22.02	0.23	$19.66	0.73	$22.02
0.24	$6.59	0.74	$7.58	0.24	$19.71	0.74	$22.08	0.24	$19.71	0.74	$22.08
0.25	$6.60	0.75	$7.61	0.25	$19.77	0.75	$22.13	0.25	$19.77	0.75	$22.13
0.26	$6.62	0.76	$7.65	0.26	$19.82	0.76	$22.19	0.26	$19.82	0.76	$22.19
0.27	$6.63	0.77	$7.68	0.27	$19.88	0.77	$22.24	0.27	$19.88	0.77	$22.24
0.28	$6.65	0.78	$7.71	0.28	$19.93	0.78	$22.30	0.28	$19.93	0.78	$22.30
0.29	$6.66	0.79	$7.75	0.29	$19.98	0.79	$22.36	0.29	$19.98	0.79	$22.36
0.3	$6.68	0.8	$7.78	0.3	$20.03	0.8	$22.42	0.3	$20.03	0.8	$22.42
0.31	$6.69	0.81	$7.82	0.31	$20.08	0.81	$22.49	0.31	$20.08	0.81	$22.49
0.32	$6.71	0.82	$7.86	0.32	$20.13	0.82	$22.55	0.32	$20.13	0.82	$22.55
0.33	$6.72	0.83	$7.89	0.33	$20.18	0.83	$22.62	0.33	$20.18	0.83	$22.62
0.34	$6.73	0.84	$7.93	0.34	$20.23	0.84	$22.69	0.34	$20.23	0.84	$22.69
0.35	$6.75	0.85	$7.98	0.35	$20.28	0.85	$22.76	0.35	$20.28	0.85	$22.76
0.36	$6.76	0.86	$8.02	0.36	$20.32	0.86	$22.84	0.36	$20.32	0.86	$22.84
0.37	$6.77	0.87	$8.07	0.37	$20.37	0.87	$22.92	0.37	$20.37	0.87	$22.92
0.38	$6.79	0.88	$8.12	0.38	$20.42	0.88	$23.01	0.38	$20.42	0.88	$23.01
0.39	$6.80	0.89	$8.17	0.39	$20.46	0.89	$23.10	0.39	$20.46	0.89	$23.10
0.4	$6.81	0.9	$8.22	0.4	$20.51	0.9	$23.19	0.4	$20.51	0.9	$23.19
0.41	$6.83	0.91	$8.28	0.41	$20.55	0.91	$23.30	0.41	$20.55	0.91	$23.30
0.42	$6.84	0.92	$8.35	0.42	$20.60	0.92	$23.41	0.42	$20.60	0.92	$23.41
0.43	$6.85	0.93	$8.42	0.43	$20.64	0.93	$23.53	0.43	$20.64	0.93	$23.53
0.44	$6.86	0.94	$8.49	0.44	$20.69	0.94	$23.67	0.44	$20.69	0.94	$23.67
0.45	$6.88	0.95	$8.58	0.45	$20.73	0.95	$23.83	0.45	$20.73	0.95	$23.83
0.46	$6.89	0.96	$8.69	0.46	$20.77	0.96	$24.01	0.46	$20.77	0.96	$24.01
0.47	$6.90	0.97	$8.82	0.47	$20.82	0.97	$24.24	0.47	$20.82	0.97	$24.24
0.48	$6.91	0.98	$8.99	0.48	$20.86	0.98	$24.54	0.48	$20.86	0.98	$24.54
0.49	$6.93	0.99	$9.27	0.49	$20.91	0.99	$25.02	0.49	$20.91	0.99	$25.02
		1	$9.94			1	$26.20			1	$26.20

TABLE G3-I				TABLE F3-I			
LEAD PRICE - PER POUND				LEAD PRICE - PER POUND			
Cents				Cents			
Adjusted				Adjusted			
0	10.00	0.5	19.00	0	11.74	0.5	23.04
0.01	12.02	0.51	19.08	0.01	14.28	0.51	23.13
0.02	12.84	0.52	19.15	0.02	15.30	0.52	23.23
0.03	13.36	0.53	19.23	0.03	15.95	0.53	23.32
0.04	13.75	0.54	19.30	0.04	16.44	0.54	23.42
0.05	14.07	0.55	19.38	0.05	16.84	0.55	23.51
0.06	14.34	0.56	19.45	0.06	17.18	0.56	23.61
0.07	14.57	0.57	19.53	0.07	17.48	0.57	23.70
0.08	14.78	0.58	19.61	0.08	17.75	0.58	23.80
0.09	14.98	0.59	19.68	0.09	17.99	0.59	23.90
0.1	15.16	0.6	19.76	0.1	18.21	0.6	23.99
0.11	15.32	0.61	19.84	0.11	18.42	0.61	24.09
0.12	15.48	0.62	19.92	0.12	18.61	0.62	24.19
0.13	15.62	0.63	20.00	0.13	18.80	0.63	24.29
0.14	15.76	0.64	20.08	0.14	18.97	0.64	24.39
0.15	15.89	0.65	20.16	0.15	19.13	0.65	24.49
0.16	16.02	0.66	20.24	0.16	19.29	0.66	24.59
0.17	16.14	0.67	20.32	0.17	19.44	0.67	24.70
0.18	16.25	0.68	20.40	0.18	19.59	0.68	24.80
0.19	16.37	0.69	20.49	0.19	19.73	0.69	24.91
0.2	16.48	0.7	20.57	0.2	19.87	0.7	25.01
0.21	16.58	0.71	20.66	0.21	20.00	0.71	25.12
0.22	16.68	0.72	20.75	0.22	20.13	0.72	25.23
0.23	16.78	0.73	20.84	0.23	20.26	0.73	25.35
0.24	16.88	0.74	20.93	0.24	20.38	0.74	25.46
0.25	16.98	0.75	21.02	0.25	20.50	0.75	25.58
0.26	17.07	0.76	21.12	0.26	20.62	0.76	25.70
0.27	17.16	0.77	21.22	0.27	20.73	0.77	25.82
0.28	17.25	0.78	21.32	0.28	20.84	0.78	25.95
0.29	17.34	0.79	21.42	0.29	20.95	0.79	26.08
0.3	17.43	0.8	21.52	0.3	21.06	0.8	26.21
0.31	17.51	0.81	21.63	0.31	21.17	0.81	26.35
0.32	17.60	0.82	21.75	0.32	21.28	0.82	26.49
0.33	17.68	0.83	21.86	0.33	21.38	0.83	26.63
0.34	17.76	0.84	21.98	0.34	21.48	0.84	26.78
0.35	17.84	0.85	22.11	0.35	21.59	0.85	26.94
0.36	17.92	0.86	22.24	0.36	21.69	0.86	27.11
0.37	18.00	0.87	22.38	0.37	21.79	0.87	27.28
0.38	18.08	0.88	22.53	0.38	21.89	0.88	27.46
0.39	18.16	0.89	22.68	0.39	21.99	0.89	27.66
0.4	18.24	0.9	22.84	0.4	22.08	0.9	27.87
0.41	18.32	0.91	23.02	0.41	22.18	0.91	28.09
0.42	18.39	0.92	23.22	0.42	22.28	0.92	28.33
0.43	18.47	0.93	23.43	0.43	22.37	0.93	28.60
0.44	18.55	0.94	23.66	0.44	22.47	0.94	28.90
0.45	18.62	0.95	23.93	0.45	22.56	0.95	29.23
0.46	18.70	0.96	24.25	0.46	22.66	0.96	29.63
0.47	18.77	0.97	24.64	0.47	22.75	0.97	30.12
0.48	18.85	0.98	25.16	0.48	22.85	0.98	30.77
0.49	18.93	0.99	25.98	0.49	22.94	0.99	31.80
		1	28.00			1	34.34

TABLE F3-J				TABLE F3-L			
ZINC PRICE - PER POUND				ORE CONTENT - ZINC GRADE			
Cents				Percent Per Ton			
Adjusted				Adjusted			
0	35.12	0.5	46.32	0	0.4999	0.5	4.0000
0.01	37.64	0.51	46.41	0.01	1.2859	0.51	4.0292
0.02	38.65	0.52	46.51	0.02	1.6039	0.52	4.0586
0.03	39.30	0.53	46.60	0.03	1.8057	0.53	4.0879
0.04	39.79	0.54	46.70	0.04	1.9575	0.54	4.1171
0.05	40.18	0.55	46.79	0.05	2.0809	0.55	4.1467
0.06	40.52	0.56	46.88	0.06	2.1860	0.56	4.1762
0.07	40.81	0.57	46.98	0.07	2.2782	0.57	4.2058
0.08	41.08	0.58	47.07	0.08	2.3607	0.58	4.2356
0.09	41.32	0.59	47.17	0.09	2.4357	0.59	4.2654
0.1	41.54	0.6	47.27	0.1	2.5048	0.6	4.2955
0.11	41.74	0.61	47.36	0.11	2.5690	0.61	4.3259
0.12	41.93	0.62	47.46	0.12	2.6291	0.62	4.3564
0.13	42.12	0.63	47.56	0.13	2.6858	0.63	4.3872
0.14	42.29	0.64	47.66	0.14	2.7396	0.64	4.4183
0.15	42.45	0.65	47.76	0.15	2.7908	0.65	4.4495
0.16	42.61	0.66	47.86	0.16	2.8397	0.66	4.4813
0.17	42.76	0.67	47.96	0.17	2.8867	0.67	4.5132
0.18	42.90	0.68	48.07	0.18	2.9320	0.68	4.5457
0.19	43.04	0.69	48.17	0.19	2.9758	0.69	4.5786
0.2	43.18	0.7	48.28	0.2	3.0181	0.7	4.6118
0.21	43.31	0.71	48.39	0.21	3.0592	0.71	4.6457
0.22	43.44	0.72	48.50	0.22	3.0991	0.72	4.6800
0.23	43.56	0.73	48.61	0.23	3.1380	0.73	4.7150
0.24	43.68	0.74	48.72	0.24	3.1760	0.74	4.7505
0.25	43.80	0.75	48.84	0.25	3.2131	0.75	4.7869
0.26	43.92	0.76	48.96	0.26	3.2495	0.76	4.8240
0.27	44.03	0.77	49.08	0.27	3.2850	0.77	4.8620
0.28	44.14	0.78	49.20	0.28	3.3200	0.78	4.9009
0.29	44.25	0.79	49.33	0.29	3.3543	0.79	4.9408
0.3	44.36	0.8	49.46	0.3	3.3882	0.8	4.9819
0.31	44.47	0.81	49.60	0.31	3.4214	0.81	5.0242
0.32	44.57	0.82	49.74	0.32	3.4543	0.82	5.0680
0.33	44.68	0.83	49.88	0.33	3.4868	0.83	5.1133
0.34	44.78	0.84	50.03	0.34	3.5187	0.84	5.1603
0.35	44.88	0.85	50.19	0.35	3.5505	0.85	5.2092
0.36	44.98	0.86	50.35	0.36	3.5817	0.86	5.2604
0.37	45.08	0.87	50.53	0.37	3.6128	0.87	5.3142
0.38	45.18	0.88	50.71	0.38	3.6436	0.88	5.3709
0.39	45.28	0.89	50.90	0.39	3.6741	0.89	5.4310
0.4	45.37	0.9	51.10	0.4	3.7045	0.9	5.4952
0.41	45.47	0.91	51.33	0.41	3.7346	0.91	5.5643
0.42	45.57	0.92	51.57	0.42	3.7644	0.92	5.6393
0.43	45.66	0.93	51.83	0.43	3.7942	0.93	5.7218
0.44	45.76	0.94	52.12	0.44	3.8238	0.94	5.8140
0.45	45.85	0.95	52.46	0.45	3.8533	0.95	5.9191
0.46	45.95	0.96	52.86	0.46	3.8829	0.96	6.0425
0.47	46.04	0.97	53.34	0.47	3.9121	0.97	6.1943
0.48	46.13	0.98	53.99	0.48	3.9414	0.98	6.3961
0.49	46.23	0.99	55.00	0.49	3.9708	0.99	6.7141
		1	57.52			1	7.5001

TABLE G3-K				TABLE F3-K			
ORE CONTENT - LEAD GRADE				ORE CONTENT - LEAD GRADE			
Percent Per Ton				Percent Per Ton			
Adjusted				Adjusted			
0	0.540	0.5	0.840	0	0.5	0.5	3.5
0.01	0.607	0.51	0.843	0.01	1.1737	0.51	3.525
0.02	0.635	0.52	0.845	0.02	1.4463	0.52	3.5502
0.03	0.652	0.53	0.848	0.03	1.6192	0.53	3.5753
0.04	0.665	0.54	0.850	0.04	1.7493	0.54	3.6004
0.05	0.676	0.55	0.853	0.05	1.8551	0.55	3.6257
0.06	0.685	0.56	0.855	0.06	1.9452	0.56	3.651
0.07	0.692	0.57	0.858	0.07	2.0242	0.57	3.6764
0.08	0.699	0.58	0.860	0.08	2.0949	0.58	3.7019
0.09	0.706	0.59	0.863	0.09	2.1592	0.59	3.7275
0.1	0.712	0.6	0.865	0.1	2.2184	0.6	3.7533
0.11	0.717	0.61	0.868	0.11	2.2735	0.61	3.7793
0.12	0.723	0.62	0.871	0.12	2.325	0.62	3.8055
0.13	0.727	0.63	0.873	0.13	2.3736	0.63	3.8319
0.14	0.732	0.64	0.876	0.14	2.4197	0.64	3.8585
0.15	0.736	0.65	0.879	0.15	2.4636	0.65	3.8853
0.16	0.741	0.66	0.881	0.16	2.5055	0.66	3.9125
0.17	0.745	0.67	0.884	0.17	2.5458	0.67	3.9399
0.18	0.748	0.68	0.887	0.18	2.5846	0.68	3.9677
0.19	0.752	0.69	0.890	0.19	2.6221	0.69	3.9959
0.2	0.756	0.7	0.892	0.2	2.6584	0.7	4.0244
0.21	0.759	0.71	0.895	0.21	2.6936	0.71	4.0534
0.22	0.763	0.72	0.898	0.22	2.7278	0.72	4.0828
0.23	0.766	0.73	0.901	0.23	2.7612	0.73	4.1128
0.24	0.769	0.74	0.904	0.24	2.7937	0.74	4.1433
0.25	0.773	0.75	0.907	0.25	2.8255	0.75	4.1745
0.26	0.776	0.76	0.911	0.26	2.8567	0.76	4.2063
0.27	0.779	0.77	0.914	0.27	2.8872	0.77	4.2388
0.28	0.782	0.78	0.917	0.28	2.9172	0.78	4.2722
0.29	0.785	0.79	0.921	0.29	2.9466	0.79	4.3064
0.3	0.788	0.8	0.924	0.3	2.9756	0.8	4.3416
0.31	0.790	0.81	0.928	0.31	3.0041	0.81	4.3779
0.32	0.793	0.82	0.932	0.32	3.0323	0.82	4.4154
0.33	0.796	0.83	0.935	0.33	3.0601	0.83	4.4542
0.34	0.799	0.84	0.939	0.34	3.0875	0.84	4.4945
0.35	0.801	0.85	0.944	0.35	3.1147	0.85	4.5364
0.36	0.804	0.86	0.948	0.36	3.1415	0.86	4.5803
0.37	0.807	0.87	0.953	0.37	3.1681	0.87	4.6264
0.38	0.809	0.88	0.958	0.38	3.1945	0.88	4.675
0.39	0.812	0.89	0.963	0.39	3.2207	0.89	4.7265
0.4	0.815	0.9	0.968	0.4	3.2467	0.9	4.7816
0.41	0.817	0.91	0.974	0.41	3.2725	0.91	4.8408
0.42	0.820	0.92	0.981	0.42	3.2981	0.92	4.9051
0.43	0.822	0.93	0.988	0.43	3.3236	0.93	4.9758
0.44	0.825	0.94	0.995	0.44	3.349	0.94	5.0548
0.45	0.827	0.95	1.004	0.45	3.3743	0.95	5.1449
0.46	0.830	0.96	1.015	0.46	3.3996	0.96	5.2507
0.47	0.832	0.97	1.028	0.47	3.4247	0.97	5.3808
0.48	0.835	0.98	1.045	0.48	3.4498	0.98	5.5537
0.49	0.838	0.99	1.073	0.49	3.475	0.99	5.8263
		1	1.140			1	6.5

TABLE F3-O CONCENTRATION RATIO Mill Feed - Ton of Con Adjusted				TABLE F3-E METAL RECOVERY - PERCENT Adjusted			
0	7.4	0.5	13.9	0	85.00%	0.5	90.00%
0.01	8.3	0.51	14.0	0.01	86.12%	0.51	90.04%
0.02	8.7	0.52	14.1	0.02	86.58%	0.52	90.08%
0.03	9.0	0.53	14.2	0.03	86.87%	0.53	90.13%
0.04	9.2	0.54	14.3	0.04	87.08%	0.54	90.17%
0.05	9.4	0.55	14.4	0.05	87.26%	0.55	90.21%
0.06	9.5	0.56	14.5	0.06	87.41%	0.56	90.25%
0.07	9.7	0.57	14.6	0.07	87.54%	0.57	90.29%
0.08	9.8	0.58	14.7	0.08	87.66%	0.58	90.34%
0.09	10.0	0.59	14.9	0.09	87.77%	0.59	90.38%
0.1	10.1	0.6	15.0	0.1	87.86%	0.6	90.42%
0.11	10.2	0.61	15.1	0.11	87.96%	0.61	90.47%
0.12	10.3	0.62	15.2	0.12	88.04%	0.62	90.51%
0.13	10.4	0.63	15.4	0.13	88.12%	0.63	90.55%
0.14	10.6	0.64	15.5	0.14	88.20%	0.64	90.60%
0.15	10.7	0.65	15.6	0.15	88.27%	0.65	90.64%
0.16	10.8	0.66	15.8	0.16	88.34%	0.66	90.69%
0.17	10.9	0.67	15.9	0.17	88.41%	0.67	90.73%
0.18	11.0	0.68	16.1	0.18	88.47%	0.68	90.78%
0.19	11.0	0.69	16.2	0.19	88.54%	0.69	90.83%
0.2	11.1	0.7	16.4	0.2	88.60%	0.7	90.87%
0.21	11.2	0.71	16.5	0.21	88.66%	0.71	90.92%
0.22	11.3	0.72	16.7	0.22	88.71%	0.72	90.97%
0.23	11.4	0.73	16.9	0.23	88.77%	0.73	91.02%
0.24	11.5	0.74	17.1	0.24	88.82%	0.74	91.07%
0.25	11.6	0.75	17.3	0.25	88.88%	0.75	91.12%
0.26	11.7	0.76	17.5	0.26	88.93%	0.76	91.18%
0.27	11.8	0.77	17.7	0.27	88.98%	0.77	91.23%
0.28	11.9	0.78	17.9	0.28	89.03%	0.78	91.29%
0.29	11.9	0.79	18.1	0.29	89.08%	0.79	91.34%
0.3	12.0	0.8	18.4	0.3	89.13%	0.8	91.40%
0.31	12.1	0.81	18.7	0.31	89.17%	0.81	91.46%
0.32	12.2	0.82	18.9	0.32	89.22%	0.82	91.53%
0.33	12.3	0.83	19.2	0.33	89.27%	0.83	91.59%
0.34	12.4	0.84	19.5	0.34	89.31%	0.84	91.66%
0.35	12.5	0.85	19.9	0.35	89.36%	0.85	91.73%
0.36	12.6	0.86	20.3	0.36	89.40%	0.86	91.80%
0.37	12.7	0.87	20.7	0.37	89.45%	0.87	91.88%
0.38	12.7	0.88	21.1	0.38	89.49%	0.88	91.96%
0.39	12.8	0.89	21.6	0.39	89.53%	0.89	92.04%
0.4	12.9	0.9	22.2	0.4	89.58%	0.9	92.14%
0.41	13.0	0.91	22.8	0.41	89.62%	0.91	92.23%
0.42	13.1	0.92	23.5	0.42	89.66%	0.92	92.34%
0.43	13.2	0.93	24.4	0.43	89.71%	0.93	92.46%
0.44	13.3	0.94	25.4	0.44	89.75%	0.94	92.59%
0.45	13.4	0.95	26.7	0.45	89.79%	0.95	92.74%
0.46	13.5	0.96	28.4	0.46	89.83%	0.96	92.92%
0.47	13.6	0.97	30.7	0.47	89.87%	0.97	93.13%
0.48	13.7	0.98	34.6	0.48	89.92%	0.98	93.42%
0.49	13.8	0.99	43.2	0.49	89.96%	0.99	93.88%
		1	111.0			1	95.00%

```
##########################################################
#                        TABLE 2A                        #
#                                                        #
#                                                        #
# Subject:                    Proj. No. 85-01-20500      #
# Escalation factors for      Sheet   1  of  2           #
# 500 t-p/d gravity conc.     By   K.L.J.  Date 11-10-85 #
# Operating Costs             Group _________Item_______ #
# ====================================================== #
# 5.1.1 Crushing                                         #
#          Escalation Factors                            #
#                L=        1          YsubL     165.0397 #
#                S=        3          YsubS     25.76988 #
#                E=     1.82          YsubE     42.38482 #
#          S and E factor=    1.000501                   #
#                                                        #
#                                                        #
# 5.1.2 Grinding                                         #
#          Escalation Factors                            #
#                L=        1          YsubL     311.8554 #
#                S=        3          YsubS     112.9500 #
#                E=     1.82          YsubE     243.0592 #
#          S and E factor     .1374898                   #
#                                                        #
#                                                        #
# 5.1.3.7 Gravity Seperation                             #
#          Escalation Factors                            #
#                L=        1          YsubL     210.5887 #
#                S=        3          YsubS     31.92746 #
#                E=     1.95          YsubE     16.37424 #
#                                                        #
# 5.1.3.7 Gravity Seperation Tables                      #
#          Escalation Factors                            #
#                L=        1          YsubL     112.1010 #
#                S=      2.1          YsubS     13.59833 #
#                E=   1.4625          YsubE     7.594507 #
#                                                        #
# 5.1.2 Grinding                                         #
#          Escalation Factors                            #
#                L=        1          YsubL     179.4499 #
#                S=        3          YsubS     17.57000 #
#                E=     1.82          YsubE     66.56782 #
#          S and E factor     .7522736                   #
#                                                        #
# 5.1.3.1 Two-Product Flotation (Pb-Zn)                  #
#          Escalation Factors                            #
#                L=        1             YsubL= 223.7968 #
#                S=  2.22224             YsubS= 124.0077 #
#                E=  1.86485             YsubE= 24.02073 #
#                                                        #
#                                                        #
# 5.1.3.2 Concentrate Thickening                         #
#          Escalation Factors                            #
#                L=        1             YsubL= 2.940257 #
#                S=        3             YsubS= .1536777 #
#                E=    2.041             YsubE= .0690538 #
##########################################################
```

```
##########################################################
#                        TABLE 2A                        #
#                        (cont.)                         #
#                                                        #
# Subject:                    Proj. No. 85-01-20500      #
# Escalation factors for      Sheet   2  of  2           #
# 500 t-p/d gravity conc.     By   K.L.J.  Date 11-10-85 #
# Operating Costs             Group _________Item________ #
# ====================================================== #
# 5.1.3.3 Concentrate Filtration                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 69.05167 #
#                 S=        3            YsubS= 12.93555 #
#                 E=    2.327            YsubE= .1529210 #
#                                                        #
# 5.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 L=        1            YsubL= 14.48656 #
#                 S=    2.882            YsubS= 13.29169 #
#                 E=    1.937            YsubE= 4.197978 #
#                                                        #
# 5.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                 L=        1            YsubL= 45.06072 #
#                 S=    2.705            YsubS= 14.34267 #
#                 E=   2.0144            YsubE= 4.258297 #
#                                                        #
# 5.1.4.3 Water Reclamation                              #
#          Escalation Factors                            #
#                 L=        1            YsubL= 4.154678 #
#                 S=   2.6226            YsubS= 8.565455 #
#                 E=     1.95            YsubE= 2.283107 #
# ====================================================== #
# 5.1.6 General Items                                    #
# ====================================================== #
#                                                        #
# 5.1.6.1 Communications, Sanitation, Housekeeping, Fire #
#          Protection and Electrical                     #
#          Escalation Factors                            #
#                 L=        1            YsubL= 133.6462 #
#                 S=        1            YsubS= 18.00000 #
#                 E=   2.1981            YsubE= 34.59344 #
#                                                        #
# 5.1.6.2 Compressed Air Facility                        #
#          Escalation Factors                            #
#                 L=        1            YsubL= 3.148649 #
#                 S=        3            YsubS= 2.012906 #
#                 E=    2.197            YsubE= 7.770294 #
#                                                        #
# 5.1.6.3 Water Supply System                            #
#          Escalation Factors                            #
#                 S=     1.79            YsubS= 342.0000 #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
##########################################################
```

TABLE 2B

Group: 5.1
WORK: Operational Costs for 500 t-p/d Gravity Concentration Processing Facility

SUMMARY OF ITEM COSTS

Estimate 85-01-20500
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description	Quan.	Labor			Materials and Supp			Equip. oper. purchase			ITEM TOTAL
			Un.cost	*prod. fact.	=TOTAL	Un.cost	*prod. fact		Un.cost	*prod. fact.	=TOTAL	
5.1.1	Crushing	450	165.0397	1	165.04	25.7698	3	77.31	42.3848	1.82	77.14	319.49
5.1.2	Grinding	450	311.8554	1	311.86	15.52947	3	46.59	33.41816	1.82	60.82	419.26
5.1.3.7	Gravity Con.	450	210.5887	1	210.59	31.9275	3	95.78	16.3742	1.95	31.93	338.30
5.1.3.7	Gravity Con.	180	112.101	1	112.10	13.5983	2.1	28.56	7.5945	1.4625	11.11	151.76
5.1.2.2	Re-Grind	70	179.4499	1	179.45	13.21745	3	39.65	50.07720	1.82	91.14	310.24
5.1.3.1	Two-Prod. Flote	70	223.7968	1	223.80	124	2.222	275.53	24.02	1.8648	44.79	544.12
5.1.3.2	Conc. Thickening	15	2.9403	1	2.94	.1537	3	.46	.069	2.041	.14	3.54
5.1.3.3	Conc. Filtration	15	69.0516	1	69.05	12.9355	3	38.81	.1529	2.327	.36	108.21
5.1.4.1	Tails Dewatering	435	14.4865	1	14.49	13.2917	2.882	38.31	4.1979	1.937	8.13	60.92
5.1.4.2	Tails Disposal	435	45.0607	1	45.06	14.3427	2.705	38.80	4.2583	2.0144	8.58	92.44
5.1.4.3	Water Reclamation		4.1546	1	4.15	8.5654	2.6226	22.46	2.2831	1.95	4.45	31.07
5.1.6.1	General Items	450	133.6462	1	133.65	18	1	18.00	34.5934	2.19	75.76	227.41
5.1.6.2	Comp. Air Facil.	450	3.1486	1	3.15	2.012	3	6.04	7.77	2.19	17.02	26.2
5.1.6.3	Water System					342	1.79	612.18				612.18
	TOTAL PER DAY				1475.32			1338.47			431.36	3245.15
	TOTAL PER TON				2.95			2.68			.86	6.49

GRAPH 2A
ESTIMATED MANPOWER REQUIREMENTS

	MON			TUE			WED			THU			FRI			SAT			SUN		
	D	E	N	D	E	N	D	E	N	D	E	N	D	E	N	D	E	N	D	E	N
MILL MANAGER	X			X			X			X			X								
SECRETARY	X			X			X			X			X								
METALLURGIST	X			X			X			X			X								
FOREMAN 1		X			X			X			X			X							
FOREMAN 2			X			X			X			X			X						
FOREMAN 3														/		X	/		X	/	
FOREMAN 4															/		/	X		/	X
LAB AID 1	X			X			X			X			X								
LAB AID 2	X			X			X			X			X								
CRUSHER 1	X			X			X			X			X								
CRUSHER 2	X			X			X			X			X								
MILL MAN 1	X			X			X			X			X								
MILL MAN 2	X			X			X			X			X								
MILL MAN 3		X			X			X			X										
MILL MAN 4		X			X			X			X										
MILL MAN 5			X			X			X			X									
MILL MAN 6														X		X	/		X	/	
MILL MAN 7														X		X	/		X	/	
MILL MAN 8															X		/	X		/	X
MILL MAN 9															X		/	X		/	X
PRECIP MAN 1	X			X			X			X			X								
PRECIP MAN 2		X			X			X			X			X							

D - DAY SHIFT
E - SWING SHIFT
N - GRAVEYARD SHIFT

X - 8 HR SHIFT
/ - 4 HR SHIFT

TOTAL FULL TIME EMPLOYEE'S - 13
LESS THAN FULL TIME EMPLOYEE'S - 9

TOTAL 22

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##########################################################
#                        TABLE 2C                        #
#                                                        #
#                                                        #
# Subject                    Proj. No. 85-01-10100       #
# Escalation factors for     Sheet   1  of  2            #
# 100 t-p/d Flotation Mill   By   K.L.J.  Date 10-10-85  #
# Operating Costs            Group _________Item________ #
# ====================================================== #
#                                                        #
# 5.1.1 Crushing                                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 69.06612 #
#                 S=        3            YsubS= 5.320660 #
#                 E=     1.82            YsubE= 9.343820 #
#          Work Index=12                                 #
#                Size Factor= 1.000501                   #
#                                                        #
# 5.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 193.9923 #
#                 S=        3            YsubS=   195.65 #
#                 E=     1.82            YsubE= 79.90407 #
#                Size Factor= 1.137094                   #
#                                                        #
# 5.1.3.1 Two-Product Flotation (Pb-Zn)                  #
#          Escalation Factors                            #
#                 L=        1            YsubL= 245.8361 #
#                 S=  2.22224            YsubS= 148.8125 #
#                 E=  1.86485            YsubE= 27.66226 #
#                                                        #
#                                                        #
# 5.1.3.2 Concentrate Thickening                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 3.529659 #
#                 S=        3            YsubS= .1857920 #
#                 E=    2.041            YsubE= .0822019 #
#                                                        #
# 5.1.3.3 Concentrate Filtration                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 74.33207 #
#                 S=        3            YsubS= 16.69922 #
#                 E=    2.327            YsubE= .1779799 #
#                                                        #
# 5.1.3.8 Drying Concentrates                            #
#          Escalation Factors                            #
#                 L=        1            YsubL= 11.03785 #
#                 S=   3.0984            YsubS= 8.597540 #
#                 E=    1.885            YsubE= 2.860751 #
#                                                        #
# 5.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 L=        1            YsubL= 5.647546 #
#                 S=    2.882            YsubS= 3.519555 #
#                 E=    1.937            YsubE= 1.523348 #
#                                                        #
##########################################################
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##########################################################
#                        TABLE 2C                        #
#                        (cont.)                         #
#                                                        #
# Subject                    Proj. No. 85-01-10100       #
# Escalation factors for     Sheet   2  of  2            #
# 100 t-p/d Flotation Mill   By   K.L.J.  Date 10-10-85  #
# Operating Costs            Group _________Item________ #
# ====================================================== #
#                                                        #
# 5.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                L=        1            YsubL= 16.90591 #
#                S=    2.705            YsubS= 3.606543 #
#                E=   2.0144            YsubE= 1.242053 #
#                                                        #
# 5.1.4.3 Water Reclamation                              #
#          Escalation Factors                            #
#                L=        1            YsubL= .2552739 #
#                S=   2.6226            YsubS= .4876370 #
#                E=     1.95            YsubE= .1491930 #
#                                                        #
# ====================================================== #
# 5.1.6 General Items                                    #
# ====================================================== #
#                                                        #
# 5.1.6.1 Communications, Sanitation, Housekeeping, Fire #
#          Protection and Electrical                     #
#          Escalation Factors                            #
#                L=        1            YsubL= 43.10062 #
#                S=        1            YsubS=     3.64 #
#                E=   2.1981            YsubE= 10.80531 #
#                                                        #
# 5.1.6.2 Compressed Air Facility                        #
#          Escalation Factors                            #
#                L=        1            YsubL= 1.897020 #
#                S=        3            YsubS= .7531965 #
#                E=    2.197            YsubE= 4.919314 #
#                                                        #
# 5.1.6.3 Water Supply System                            #
#          Escalation Factors                            #
#                S=     1.79            YsubS= 18.20000 #
#                                                        #
# ====================================================== #
# 5.2.1 General Expenses Administrative                  #
# ====================================================== #
#                                                        #
# 5.2.1.1                                                #
#          Escalation Factors                            #
#                L=     1.35            YsubL= 39.74992 #
#                S=        1            YsubS= 3.177424 #
#                E=   2.2933            YsubE= 1.187023 #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
##########################################################
```

TABLE 2D

Group: 5.1
WORK: Operating Costs for 100 t-p/d flotation Mill two-product

SUMMARY OF ITEM COSTS

Estimate 85-01-10100
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description	Quan.	Labor			Materials and Supp			Equip. oper. purchase			ITEM TOTAL
			Un.cost	*prod. fact.	=TOTAL	Un.cost	*prod. fact.	=TOTAL	Un.cost	*prod. fact.	=TOTAL	
1	Crushing	91	69.0661	1	69.07	5.3206	3	15.9618	9.3438	1.82	17.01	102.07
2	Grinding	91	193.9923	1	193.99	222.4541	3	667.3622	90.85085	1.82	165.35	1026.70
3.1	Two-Prod. Flote.	91	245.8361	1	245.84	148.8125	2.222	330.6614	27.6622	1.8649	51.59	628.08
3.2	Cons. Thickener	7	3.5296	1	3.53	.1858	3	.5574	.0822	2.041	.17	4.25
3.3	Cons Filtration	7	74.332	1	74.33	16.6992	3	50.0976	.1779	2.327	.41	124.84
3.8	Cons Drying	0	11.0378	0	.00	8.5975	0	0	2.8607	0	.00	.00
4.1	Tails Dewatering	84	5.6475	1	5.65	3.5195	2.882	10.14320	1.5233	1.937	2.95	18.74
4.2	Tails Disposal	84	16.9059	1	16.91	3.6065	2.705	9.755583	1.242	2.0144	2.50	29.16
4.3	Water Reclamation		.2552	1	.26	.4876	2.6226	1.278780	.1492	1.95	.29	1.82
6.1	General Items		43.1	1	43.10	3.64	1	3.64	10.8053	2.1981	23.75	70.49
6.2	Comp. Air Fac.		1.897	1	1.90	.7532	3	2.2596	4.9193	2.197	10.81	14.96
6.3	Water System					18.2	1.79	32.578				32.58
1.1	General Expense		39.7499	1.35	53.66	3.1774	1	3.1774	1.187	2.2933	2.72	59.56
	TOTAL MILLING COST P/D				708.22			1127.473			277.55	2113.24
	TOTAL MILLING COST P/T				7.08			11.27			2.78	21.13

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##########################################################
#                        TABLE 2E                        #
#                                                        #
#                                                        #
# Subject                     Proj. No. 85-01-11100      #
# Escalation factors for      Sheet   1  of  2           #
# 100 t-p/d Cyanide Leaching  By   K.L.J.  Date 10-11-85 #
# Operating Costs             Group _________Item_______ #
# ====================================================== #
# 5.1.1 Crushing                                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 69.06612 #
#                 S=        3            YsubS= 5.320660 #
#                 E=     1.82            YsubE= 9.343820 #
#          Work Index=18                                 #
#                Size Factor= 1.000501                   #
#                                                        #
# 5.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 L=        1            YsubL= 193.9923 #
#                 S=        3            YsubS=   195.65 #
#                 E=     1.82            YsubE= 79.90407 #
#                Size Factor= .9998970                   #
#                                                        #
# 5.1.3.4 Cyanide Vat Leach                              #
#          Escalation Factors                            #
#                 L=        1            YsubL= 366.2583 #
#                 S=  2.22224            YsubS= 201.5062 #
#                 E=  1.86485            YsubE= 13.97330 #
#                                                        #
# ====================================================== #
# 5.1.4 Waste and Tailings Disposal                      #
# ------------------------------------------------------ #
#                                                        #
# 5.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 L=        1            YsubL= 5.908815 #
#                 S=    2.882            YsubS= 3.751399 #
#                 E=    1.937            YsubE= 1.599316 #
#                                                        #
# 5.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                 L=        1            YsubL= 17.72061 #
#                 S=    2.705            YsubS= 3.853666 #
#                 E=    2.041            YsubE= 1.317739 #
#                                                        #
# 5.1.4.3 Water Reclamation                              #
#          Escalation Factors                            #
#                 L=        1            YsubL= .2552739 #
#                 S=   2.6226            YsubS= .4876370 #
#                 E=     1.95            YsubE= .1491930 #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
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##########################################################
#                        TABLE 2E                        #
#                        (cont.)                         #
#                                                        #
# Subject                    Proj. No. 85-01-11100       #
# Escalation factors for     Sheet   2  of  2            #
# 100 t-p/d Cyanide Leaching By   K.L.J.  Date 10-11-85  #
# Operating Costs            Group _________Item________ #
# ====================================================== #
# 5.1.6 General Items                                    #
# ====================================================== #
#                                                        #
# 5.1.6.1 Communications, Sanitation, Housekeeping, Fire #
#         Protection and Electrical                      #
#         Escalation Factors                             #
#                L=        1            YsubL= 43.10062 #
#                S=     1.82            YsubS=     3.64 #
#                E=   2.1981            YsubE= 10.80531 #
#                                                        #
# 5.1.6.2 Compressed Air Facility                        #
#         Escalation Factors                             #
#                L=        1            YsubL= 1.897020 #
#                S=        3            YsubS= .7531965 #
#                E=    2.197            YsubE= 4.919314 #
#                                                        #
# 5.1.6.3 Water Supply System                            #
#         Escalation Factors                             #
#                S=        1            YsubS= 18.20000 #
#                                                        #
# ====================================================== #
# 5.2.1 General Expenses Administrative                  #
# ====================================================== #
#                                                        #
# 5.2.1.1                                                #
#         Escalation Factors                             #
#                L=     1.35            YsubL= 39.74992 #
#                S=     1.82            YsubS= 3.177424 #
#                E=   2.2933            YsubE= 1.187023 #
#                                                        #
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TABLE 2F

SUMMARY OF ITEM COSTS

Group: 5.1
WORK: Operational costs for 100 t-p/d cyanide vat leaching processing facility

Estimate 85-01-11100
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description	Quan.	Labor Un.cost	Labor prod. fact.	Labor =TOTAL	Materials and Supp Un.cost	Materials and Supp prod. fact.	Materials and Supp =TOTAL	Equip. oper. purchase Un.cost	Equip. oper. purchase prod. fact.	Equip. oper. purchase =TOTAL	ITEM TOTAL
1	Crushing	91	69.0661	1	69.07	5.3206	3	15.9618	9.3438	1.82	17.01	102.03
2	Grinding	91	193.9923	1	193.99	195.65	3	586.95	79.904	1.82	145.43	926.37
3.1	Vat Leaching	91	366.2583	1	366.26	201.5062	2.2222	447.7871	13.9733	1.8649	26.06	840.10
4.1	Tails Dewatering	91	5.9088	1	5.91	3.7514	2.882	10.81153	1.5993	1.937	3.10	19.82
4.2	Tails Disposal		17.7206	1	17.72	3.8536	2.705	10.42399	1.3177	2.041	2.69	30.83
4.3	Water Reclamation		.2552	1	5.91	.4876	2.6226	1.278780	.1492	1.95	.29	7.48
6.1	General Items		43.1006	1	43.10	3.64	1.82	6.6248	10.8053	2.1981	23.75	73.48
6.2	Comp. Air Fac.		1.897	1	1.90	.7532	3	2.2596	4.9193	2.197	10.81	14.96
6.3	Water System					18.2	1	18.2				18.20
1.1	General Expense		39.7499	1.35	53.66	3.177	1.82	5.78214	1.187	2.2933	2.72	62.17
	TOTAL LEACHING COST P/D				757.51			1106.080			231.85	2095.44
	TOTAL MILLING COST P/T				7.58			11.06			2.32	20.95

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET

Having determined the variables and their respective ranges to be considered, it was necessary to design electronic spreadsheets which could implement combinations of these variables by means of random selection.

These spreadsheets were designed to simulate the flow of material (based upon grade, recovery percentage, concentration ratio, and tonnage) as though the material had been processed. The results of this section of the electronic spreadsheet are carried forward into the second section where the Gross Net Revenue (Gross Revenue - Royalties - Ore Purchase - Operating Costs - Smelter deductions and discounts) is calculated based upon the random selections for operating cost, tonnage, prices for metals and smelter deductions and discounts.

In the preceding paragraph, reference is made to smelter deductions and discounts which might be somewhat confusing. In the SFPLE Spreadsheets, Gravity and Flotation, allowances for the cost on smelter processing were included in the operating costs used. These costs were determined by the tonnage that would be shipped, which represents the number of tons of concentrates produced, to the respective smelters, St. Joe or Asarco. This tonnage is based upon the concentration ratio and tonnage feed to the circuits. St. Joe and Asarco were contacted and we have received communication which outlines the fees, discounts and payment rates for each metal as it applies to the concentrate produced and the payment we could anticipate there from. Copies of these fees and discounts are included on pages 151 through 154.

As the computer was set to calculate each of these spreadsheets 250 times a results table was included. In the results were the variables values for each function including the associated Gross Net Revenue figure. These results tables have been included in the following sections for review.

From the results tables we extracted each variables 250 occurences and assembled them in tables. Duplicating these tables, we sorted the extractions in ascending order, related them to their respective standard normal distribution figure, and graphed the results for comparison. Having previously graphed the random table occurence on a like scale, we have included each variables table and probabilty occurence graph side by side in the following section for review.

The tables that were created from the extractions are also included in the following sections.

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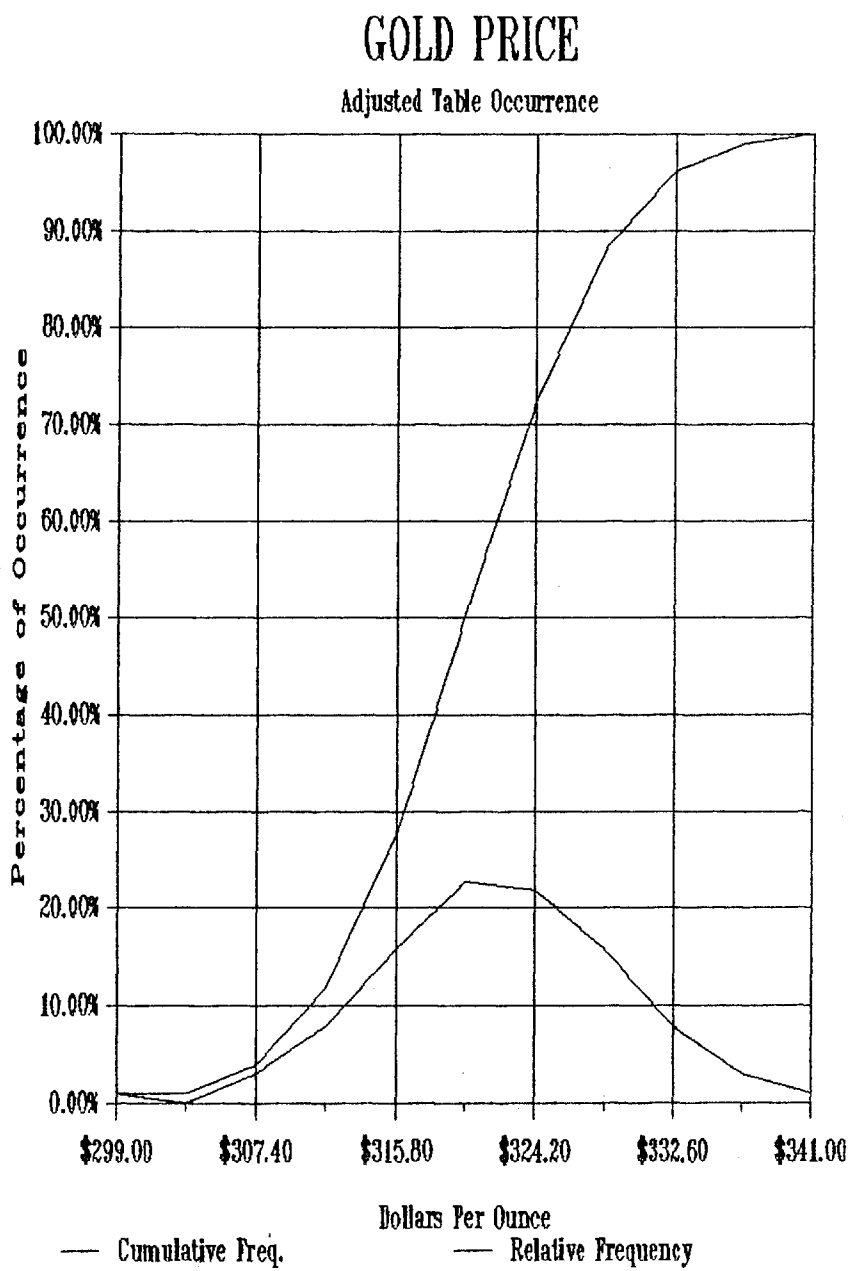
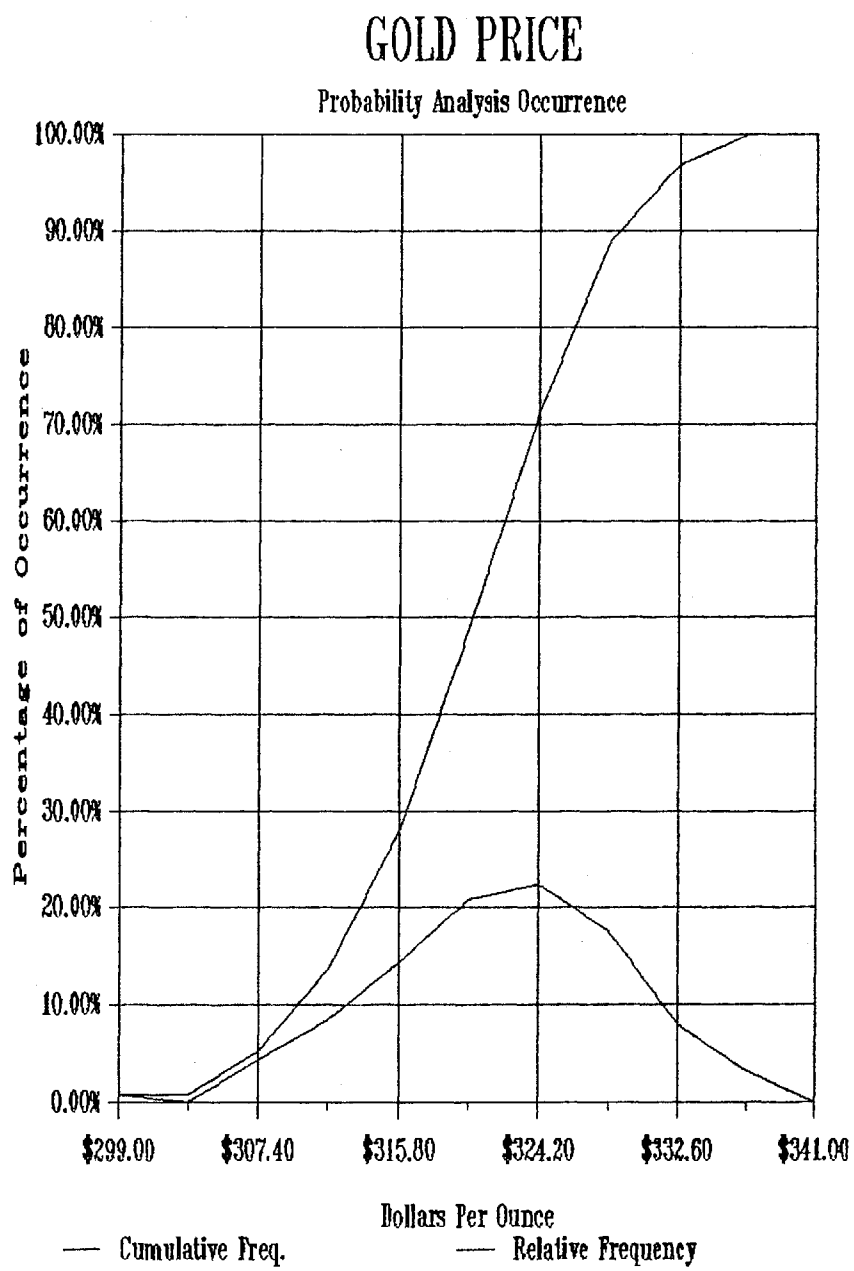
GRAVITY OPERATION

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET

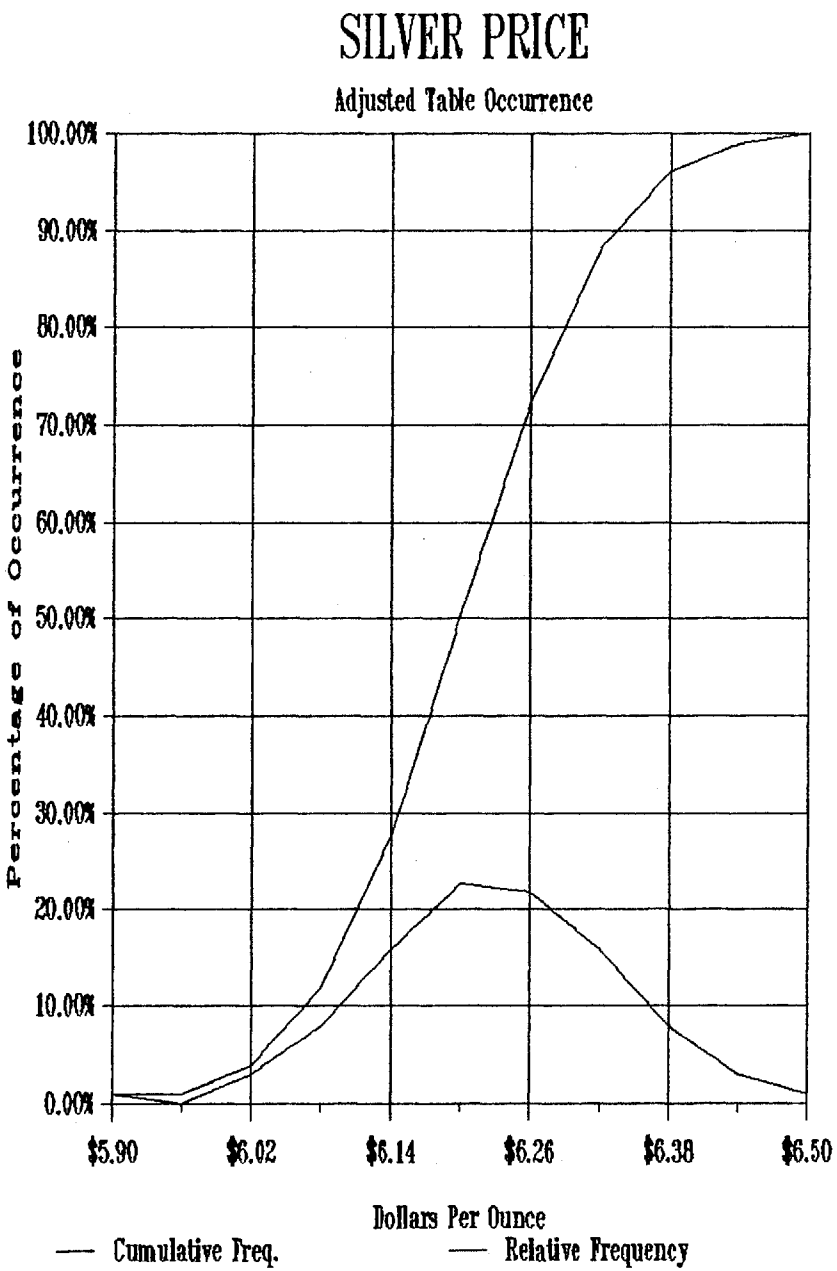
RESULTS



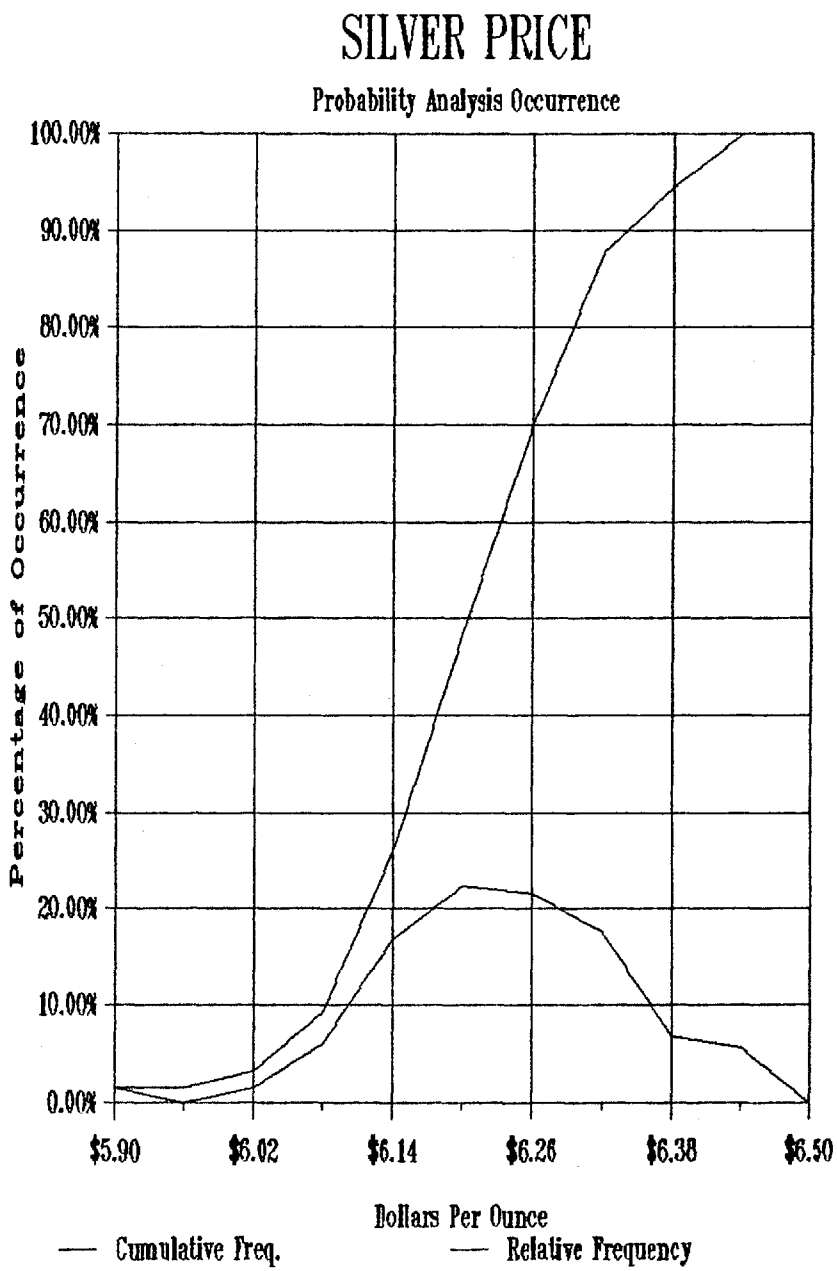
GRAPH - G3-A



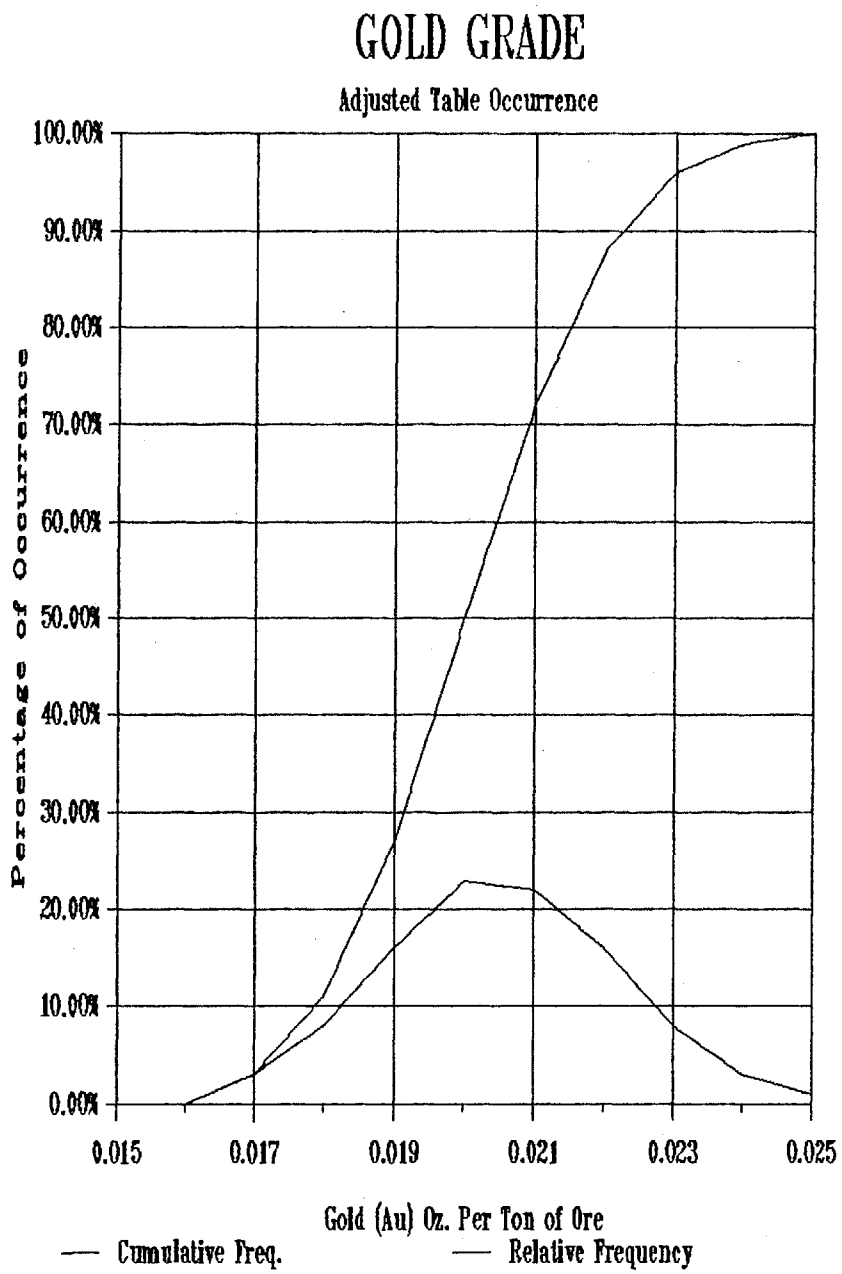
GRAPH - G4-A



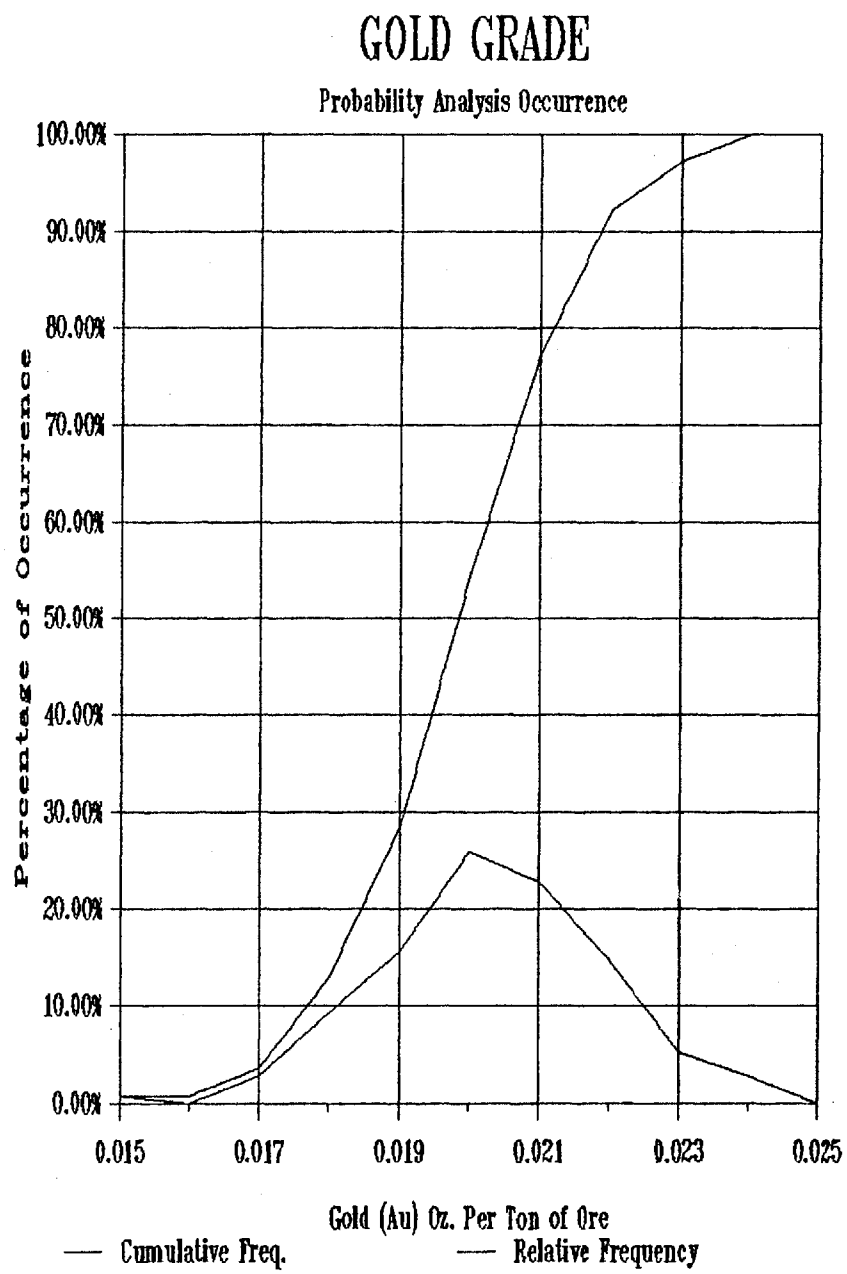
GRAPH - G3-B



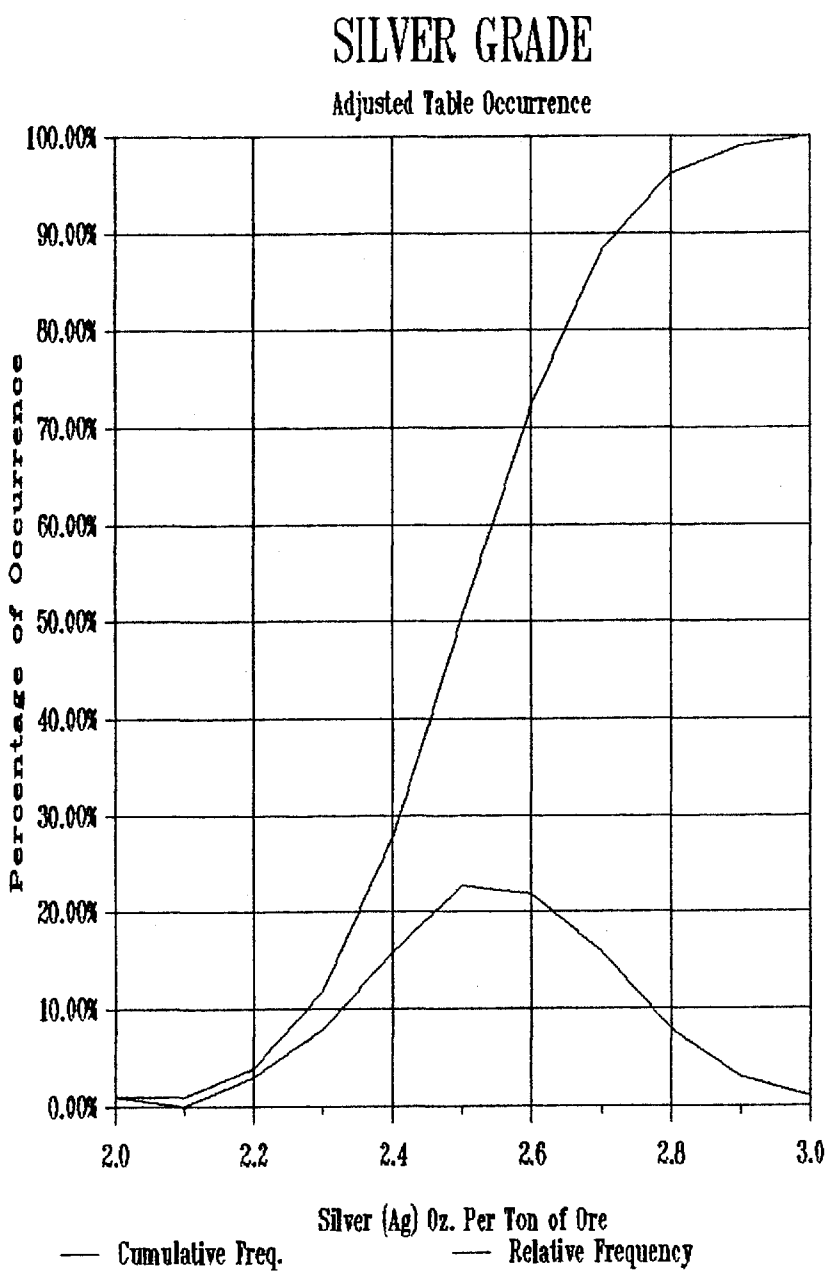
GRAPH - G4-B



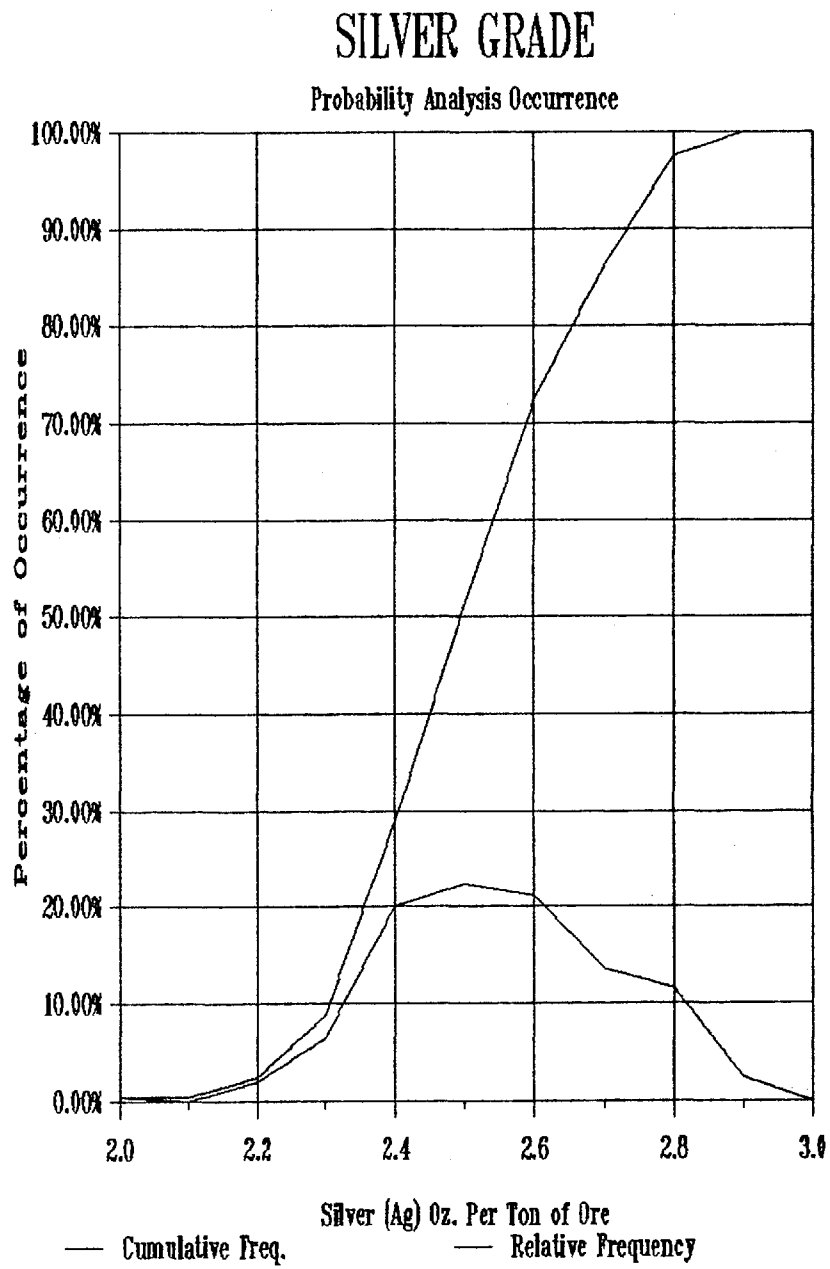
GRAPH - G3-C



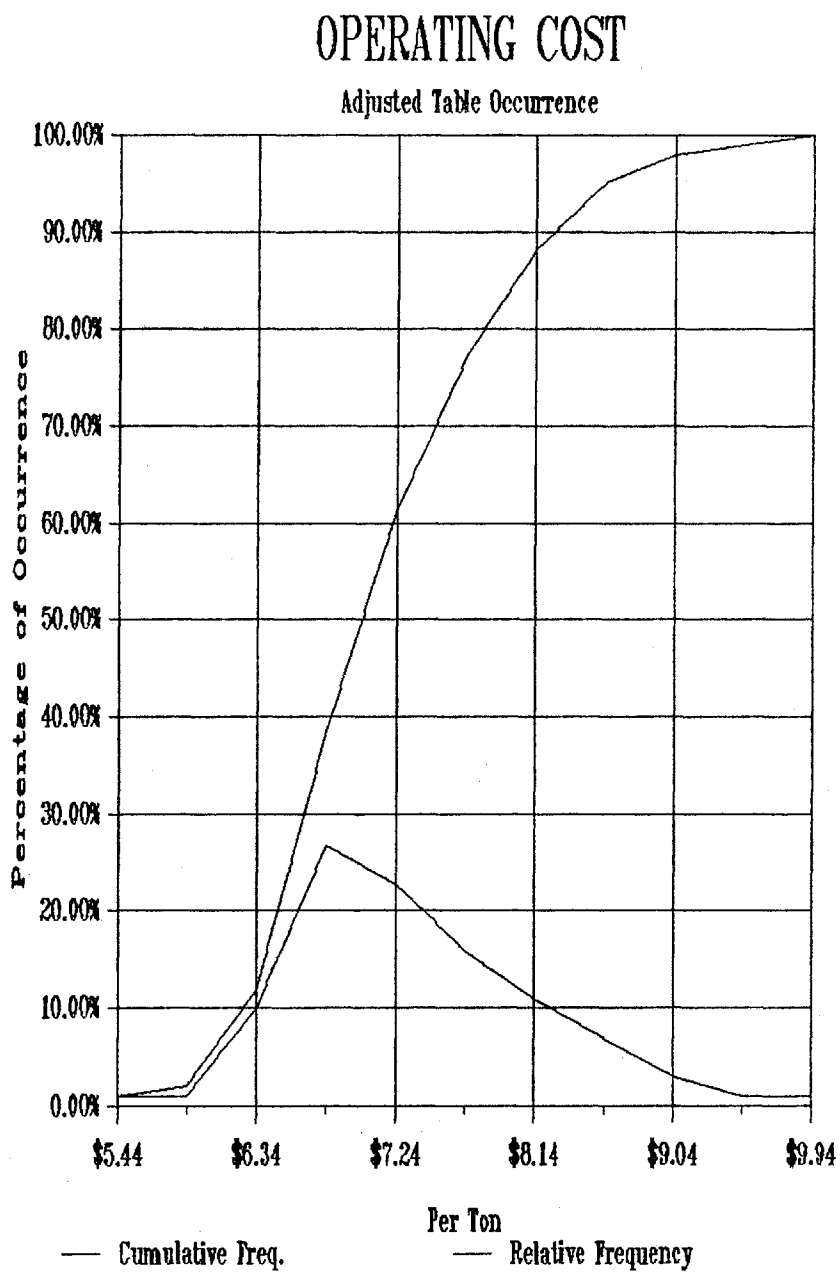
GRAPH - G4-C



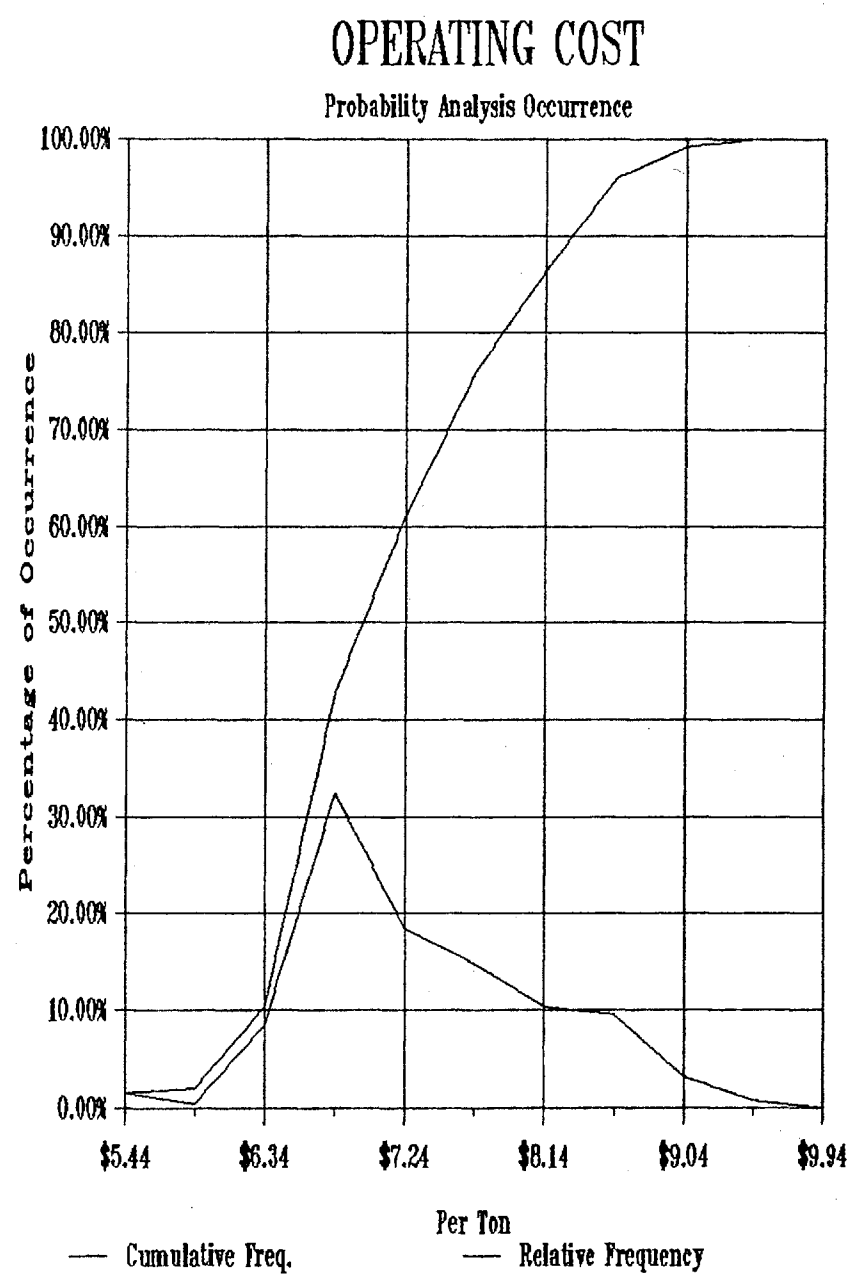
GRAPH - G3-D



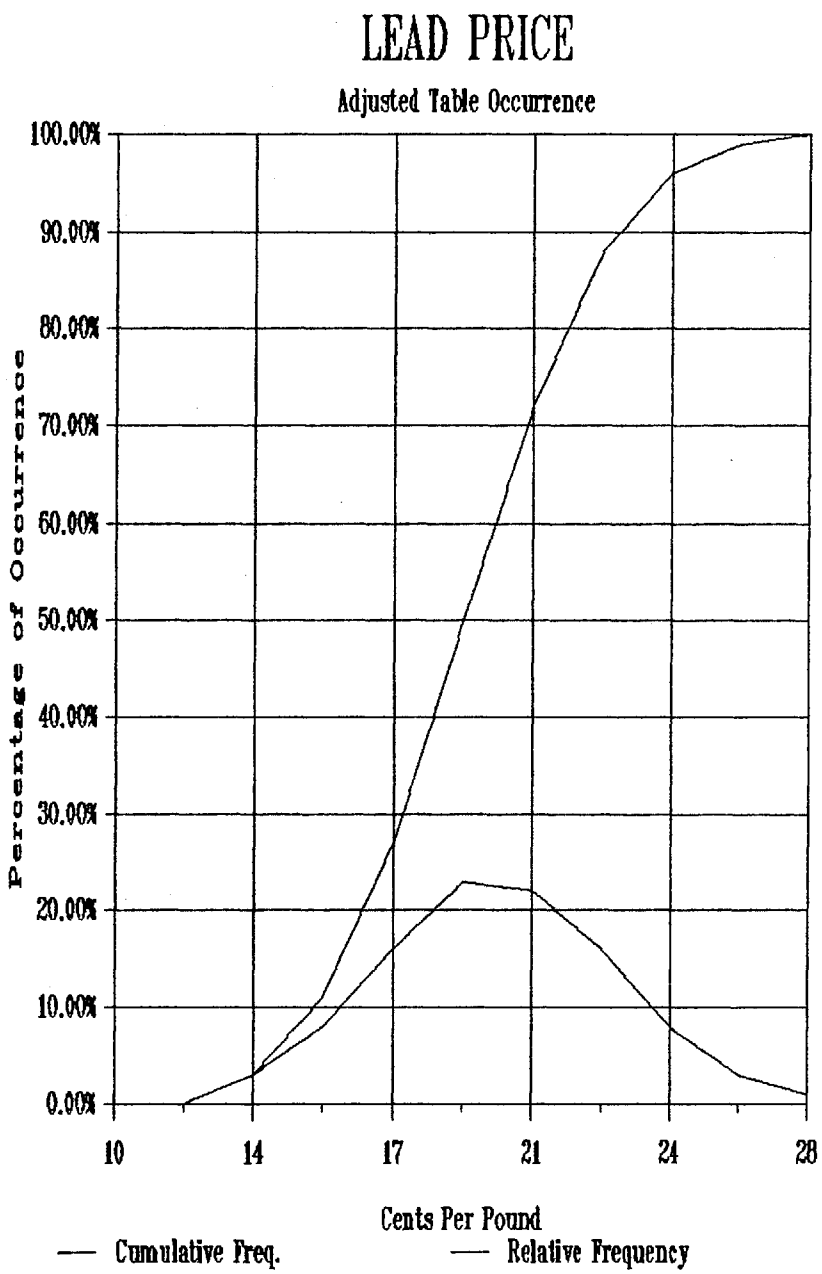
GRAPH - G4-D



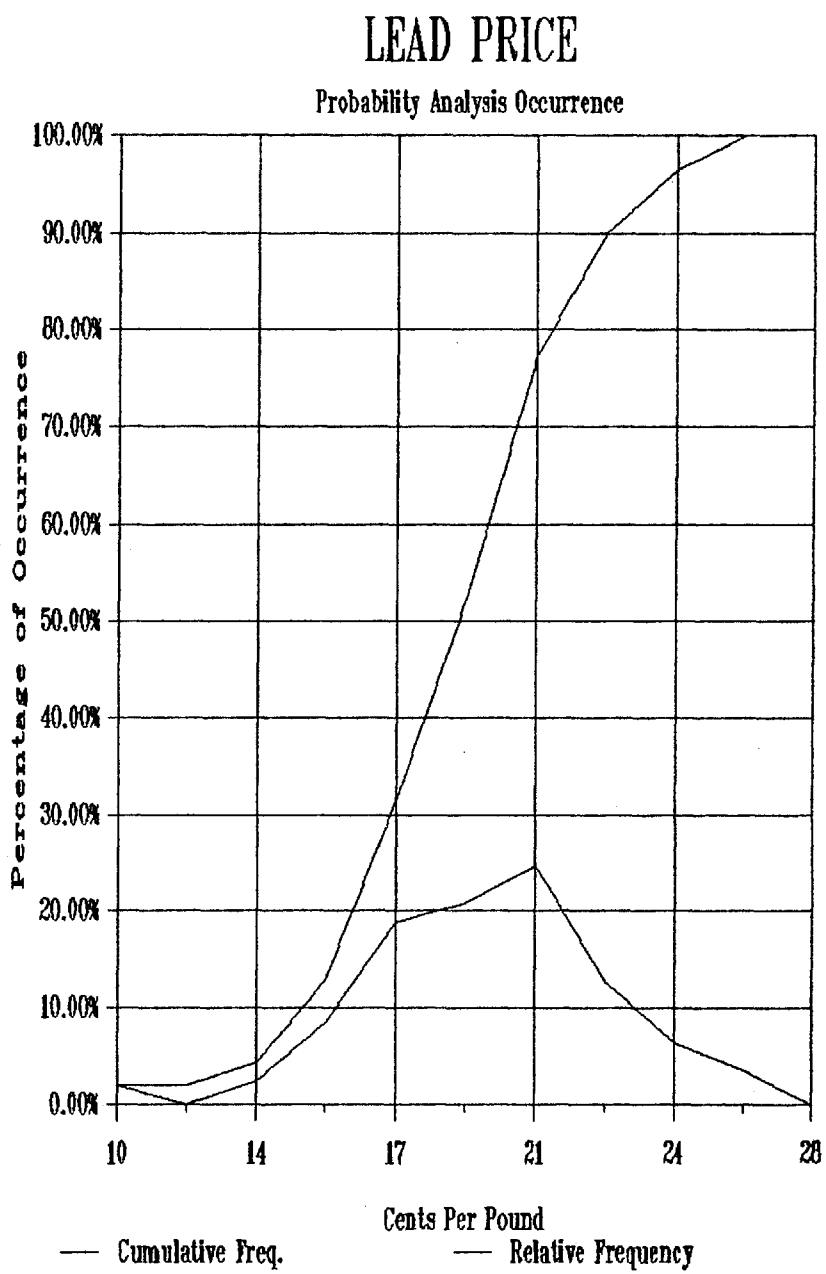
GRAPH - G3-H



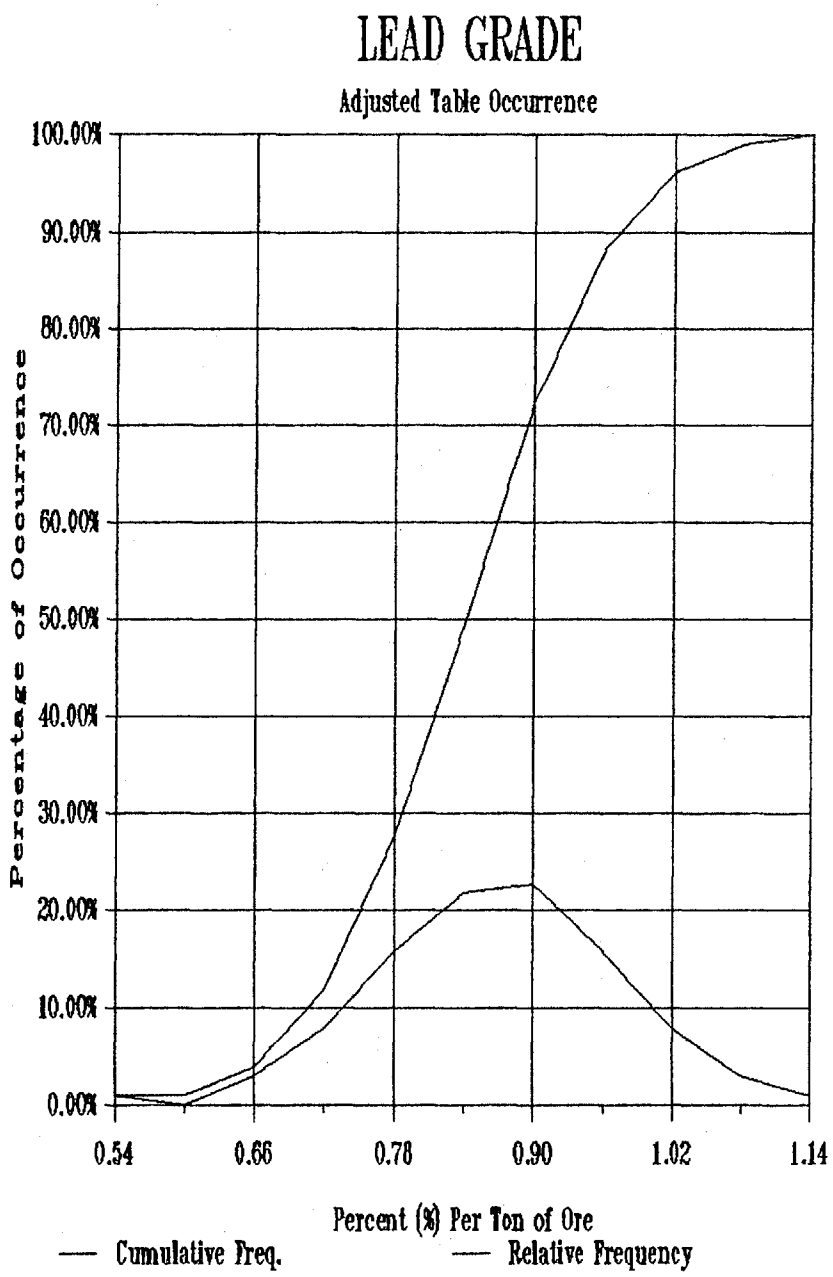
GRAPH - G4-H



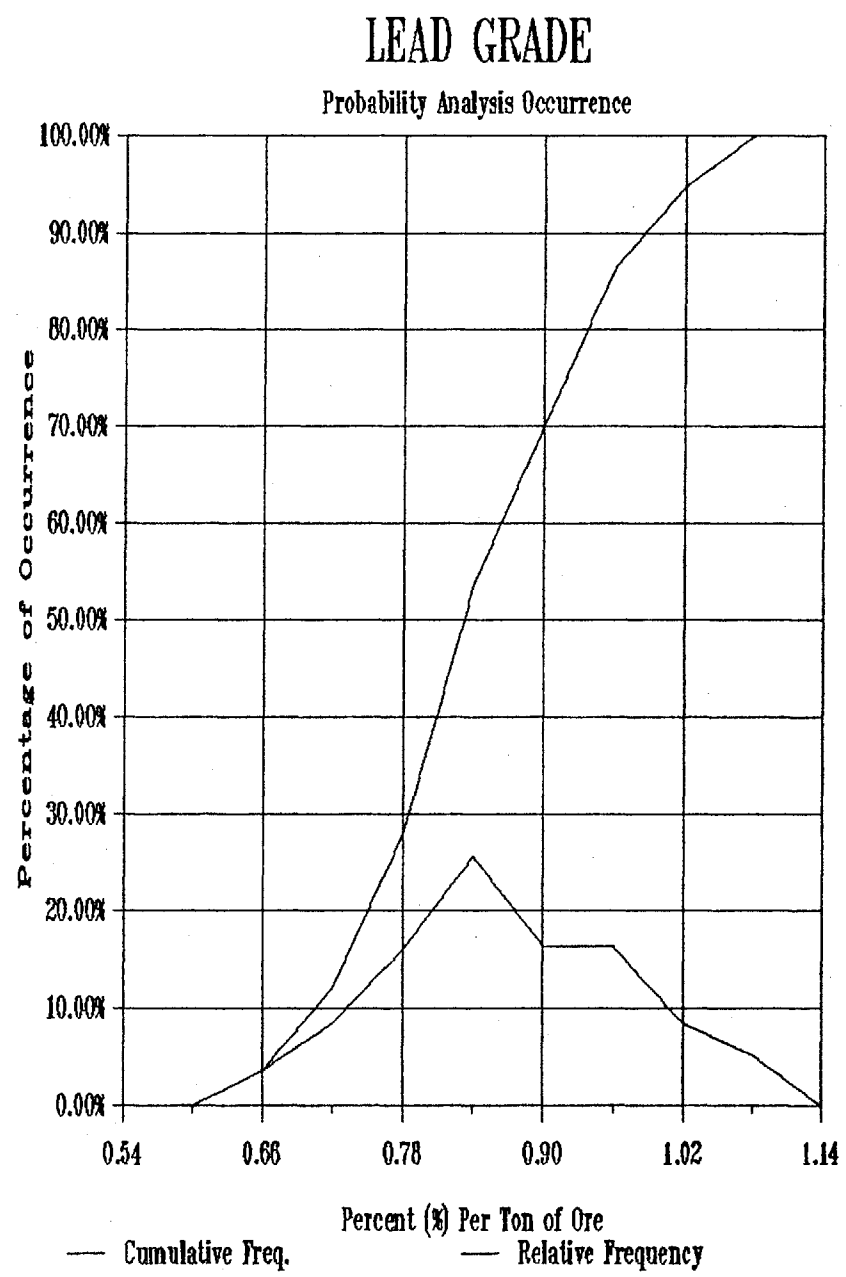
GRAPH - G3-I



GRAPH - G4-I



GRAPH - G3-K



GRAPH - G4-K

TABLE G4-A

GOLD PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$309.67	51	$326.15	101	$326.41	151	$329.39	201	$327.88
2	$318.94	52	$328.59	102	$321.06	152	$316.33	202	$303.72
3	$324.72	53	$318.94	103	$327.25	153	$318.41	203	$321.41
4	$312.12	54	$324.50	104	$328.97	154	$311.41	204	$328.23
5	$303.72	55	$316.33	105	$305.62	155	$315.06	205	$309.12
6	$322.32	56	$315.50	106	$305.62	156	$309.12	206	$320.70
7	$319.12	57	$327.88	107	$323.87	157	$323.08	207	$319.47
8	$321.06	58	$330.33	108	$316.13	158	$318.94	208	$313.04
9	$313.32	59	$313.32	109	$326.41	159	$319.47	209	$320.00
10	$305.62	60	$325.17	110	$322.32	160	$306.83	210	$318.59
11	$326.41	61	$324.08	111	$325.17	161	$333.17	211	$316.92
12	$323.08	62	$316.33	112	$318.94	162	$313.04	212	$320.53
13	$320.53	63	$320.70	113	$319.47	163	$332.25	213	$323.08
14	$322.70	64	$321.41	114	$323.08	164	$322.51	214	$313.85
15	$333.17	65	$313.85	115	$317.68	165	$325.64	215	$324.72
16	$322.14	66	$312.75	116	$325.17	166	$326.15	216	$322.70
17	$316.73	67	$324.50	117	$318.77	167	$316.33	217	$316.33
18	$325.64	68	$311.03	118	$323.47	168	$320.53	218	$322.51
19	$315.50	69	$325.17	119	$311.78	169	$327.56	219	$321.23
20	$326.96	70	$305.62	120	$329.84	170	$313.59	220	$318.77
21	$299.00	71	$317.86	121	$318.77	171	$317.30	221	$317.30
22	$336.28	72	$303.72	122	$319.47	172	$322.32	222	$325.64
23	$315.71	73	$313.59	123	$327.56	173	$312.75	223	$329.39
24	$333.17	74	$323.47	124	$326.68	174	$316.33	224	$306.83
25	$316.53	75	$316.33	125	$318.94	175	$313.85	225	$309.12
26	$306.83	76	$314.11	126	$307.75	176	$311.03	226	$331.51
27	$327.88	77	$318.23	127	$323.67	177	$328.59	227	$311.41
28	$330.88	78	$314.11	128	$322.51	178	$319.47	228	$327.88
29	$314.59	79	$322.14	129	$323.47	179	$313.85	229	$328.97
30	$332.25	80	$327.25	130	$323.67	180	$317.30	230	$322.51
31	$312.75	81	$322.70	131	$336.28	181	$320.88	231	$325.17
32	$328.97	82	$326.96	132	$325.41	182	$314.36	232	$322.14
33	$332.25	83	$323.27	133	$322.89	183	$331.51	233	$321.77
34	$309.67	84	$317.49	134	$336.28	184	$307.75	234	$322.89
35	$319.30	85	$318.59	135	$316.73	185	$327.88	235	$324.72
36	$315.92	86	$312.44	136	$329.39	186	$316.92	236	$313.32
37	$299.00	87	$310.16	137	$310.16	187	$316.53	237	$311.78
38	$328.23	88	$318.41	138	$323.27	188	$310.61	238	$308.49
39	$318.41	89	$318.41	139	$321.06	189	$325.89	239	$312.12
40	$324.29	90	$329.39	140	$330.88	190	$327.56	240	$323.87
41	$309.12	91	$323.08	141	$329.39	191	$317.86	241	$323.87
42	$313.85	92	$328.97	142	$326.68	192	$322.89	242	$310.61
43	$326.96	93	$322.14	143	$325.64	193	$321.59	243	$316.13
44	$313.04	94	$313.04	144	$306.83	194	$310.16	244	$322.51
45	$312.44	95	$320.88	145	$317.86	195	$320.00	245	$326.41
46	$307.75	96	$336.28	146	$324.08	196	$313.32	246	$316.73
47	$327.56	97	$315.71	147	$317.68	197	$323.67	247	$325.89
48	$324.50	98	$314.11	148	$321.59	198	$320.53	248	$322.14
49	$318.94	99	$310.16	149	$333.17	199	$316.13	249	$314.11
50	$323.87	100	$311.41	150	$328.23	200	$315.71	250	$320.53

TABLE G4-B

SILVER PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$6.01	51	$6.43	101	$6.26	151	$6.13	201	$6.09
2	$6.18	52	$6.10	102	$6.23	152	$6.43	202	$6.32
3	$6.19	53	$6.32	103	$6.27	153	$6.28	203	$6.14
4	$6.19	54	$6.16	104	$6.29	154	$6.25	204	$6.15
5	$6.11	55	$6.19	105	$6.24	155	$6.11	205	$6.04
6	$6.04	56	$6.10	106	$6.21	156	$6.23	206	$6.22
7	$6.13	57	$6.23	107	$6.14	157	$6.14	207	$6.16
8	$6.41	58	$6.16	108	$6.19	158	$6.20	208	$6.14
9	$6.25	59	$6.18	109	$6.23	159	$5.90	209	$6.43
10	$6.08	60	$6.26	110	$6.17	160	$6.43	210	$6.02
11	$6.24	61	$5.97	111	$6.26	161	$6.17	211	$6.43
12	$6.17	62	$6.11	112	$6.10	162	$6.34	212	$6.24
13	$6.17	63	$6.20	113	$6.28	163	$6.19	213	$6.17
14	$6.30	64	$6.25	114	$6.25	164	$6.10	214	$6.41
15	$6.12	65	$6.11	115	$6.39	165	$6.20	215	$6.13
16	$6.21	66	$6.15	116	$5.90	166	$6.24	216	$6.32
17	$6.20	67	$6.17	117	$6.22	167	$6.24	217	$6.30
18	$6.24	68	$6.09	118	$6.10	168	$6.19	218	$6.17
19	$6.25	69	$6.22	119	$6.43	169	$6.15	219	$6.18
20	$6.20	70	$6.18	120	$6.16	170	$6.26	220	$6.21
21	$6.17	71	$6.11	121	$6.24	171	$6.30	221	$6.15
22	$6.16	72	$6.18	122	$6.27	172	$6.21	222	$6.19
23	$6.10	73	$6.29	123	$6.07	173	$6.26	223	$5.90
24	$6.24	74	$6.20	124	$6.27	174	$6.14	224	$6.18
25	$6.26	75	$6.09	125	$6.33	175	$6.21	225	$6.39
26	$6.30	76	$6.09	126	$6.26	176	$6.13	226	$6.26
27	$6.32	77	$6.30	127	$6.28	177	$6.32	227	$6.29
28	$6.21	78	$6.28	128	$6.09	178	$6.30	228	$6.25
29	$6.19	79	$6.28	129	$6.20	179	$6.20	229	$6.11
30	$6.17	80	$6.08	130	$6.21	180	$6.22	230	$6.29
31	$6.17	81	$6.29	131	$6.33	181	$6.12	231	$6.31
32	$6.06	82	$6.27	132	$6.21	182	$6.07	232	$6.24
33	$6.26	83	$6.33	133	$6.31	183	$6.30	233	$6.24
34	$6.18	84	$6.19	134	$6.32	184	$5.90	234	$6.27
35	$6.19	85	$6.08	135	$6.18	185	$6.16	235	$6.18
36	$6.16	86	$6.08	136	$6.16	186	$6.04	236	$6.32
37	$6.32	87	$6.22	137	$6.24	187	$6.28	237	$6.13
38	$6.26	88	$6.22	138	$6.27	188	$6.04	238	$6.28
39	$6.11	89	$6.18	139	$6.24	189	$6.13	239	$6.07
40	$6.24	90	$6.30	140	$6.07	190	$6.33	240	$6.14
41	$6.24	91	$5.97	141	$6.26	191	$6.33	241	$6.09
42	$6.12	92	$6.39	142	$6.17	192	$6.22	242	$6.16
43	$6.27	93	$6.24	143	$6.10	193	$5.99	243	$6.23
44	$6.23	94	$6.09	144	$6.25	194	$6.09	244	$6.35
45	$6.36	95	$6.28	145	$6.15	195	$6.36	245	$6.27
46	$6.08	96	$6.21	146	$6.12	196	$6.25	246	$6.10
47	$6.27	97	$6.36	147	$6.24	197	$6.07	247	$6.43
48	$6.05	98	$6.20	148	$6.12	198	$6.19	248	$6.10
49	$6.32	99	$6.26	149	$6.28	199	$6.39	249	$6.26
50	$6.34	100	$6.17	150	$6.43	200	$6.27	250	$6.11

TABLE G4-C

GOLD GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	0.018	51	0.023	101	0.022	151	0.018	201	0.020
2	0.020	52	0.018	102	0.017	152	0.021	202	0.021
3	0.016	53	0.019	103	0.021	153	0.019	203	0.021
4	0.020	54	0.019	104	0.022	154	0.019	204	0.017
5	0.021	55	0.019	105	0.021	155	0.020	205	0.020
6	0.020	56	0.022	106	0.020	156	0.021	206	0.019
7	0.021	57	0.022	107	0.020	157	0.021	207	0.018
8	0.020	58	0.017	108	0.020	158	0.023	208	0.022
9	0.022	59	0.020	109	0.018	159	0.019	209	0.020
10	0.021	60	0.022	110	0.019	160	0.019	210	0.020
11	0.018	61	0.020	111	0.020	161	0.020	211	0.022
12	0.022	62	0.021	112	0.021	162	0.023	212	0.017
13	0.019	63	0.020	113	0.019	163	0.018	213	0.018
14	0.018	64	0.021	114	0.021	164	0.019	214	0.019
15	0.023	65	0.017	115	0.019	165	0.022	215	0.020
16	0.018	66	0.021	116	0.020	166	0.023	216	0.020
17	0.018	67	0.018	117	0.020	167	0.020	217	0.020
18	0.019	68	0.017	118	0.022	168	0.020	218	0.021
19	0.019	69	0.021	119	0.020	169	0.019	219	0.020
20	0.022	70	0.021	120	0.019	170	0.015	220	0.019
21	0.019	71	0.023	121	0.023	171	0.019	221	0.019
22	0.018	72	0.020	122	0.020	172	0.019	222	0.021
23	0.020	73	0.017	123	0.021	173	0.020	223	0.021
24	0.021	74	0.021	124	0.021	174	0.019	224	0.021
25	0.019	75	0.020	125	0.020	175	0.021	225	0.020
26	0.020	76	0.020	126	0.022	176	0.020	226	0.018
27	0.019	77	0.021	127	0.020	177	0.020	227	0.018
28	0.018	78	0.018	128	0.022	178	0.020	228	0.021
29	0.021	79	0.019	129	0.022	179	0.019	229	0.020
30	0.021	80	0.018	130	0.020	180	0.019	230	0.020
31	0.018	81	0.020	131	0.017	181	0.019	231	0.018
32	0.019	82	0.019	132	0.019	182	0.017	232	0.021
33	0.022	83	0.021	133	0.020	183	0.019	233	0.020
34	0.018	84	0.019	134	0.019	184	0.019	234	0.022
35	0.019	85	0.020	135	0.021	185	0.020	235	0.018
36	0.021	86	0.023	136	0.017	186	0.018	236	0.019
37	0.020	87	0.018	137	0.020	187	0.015	237	0.018
38	0.021	88	0.020	138	0.018	188	0.021	238	0.020
39	0.018	89	0.021	139	0.023	189	0.020	239	0.018
40	0.020	90	0.019	140	0.018	190	0.018	240	0.019
41	0.019	91	0.021	141	0.023	191	0.020	241	0.020
42	0.019	92	0.019	142	0.018	192	0.021	242	0.022
43	0.018	93	0.019	143	0.021	193	0.020	243	0.018
44	0.021	94	0.019	144	0.017	194	0.019	244	0.022
45	0.022	95	0.021	145	0.020	195	0.021	245	0.021
46	0.019	96	0.021	146	0.024	196	0.019	246	0.021
47	0.017	97	0.019	147	0.024	197	0.021	247	0.020
48	0.021	98	0.021	148	0.019	198	0.020	248	0.021
49	0.018	99	0.022	149	0.020	199	0.022	249	0.018
50	0.022	100	0.021	150	0.019	200	0.023	250	0.019

TABLE G4-D

SILVER GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	2.521	51	2.723	101	2.513	151	2.496	201	2.542
2	2.360	52	2.618	102	2.746	152	2.487	202	2.666
3	2.521	53	2.427	103	2.422	153	2.479	203	2.431
4	2.813	54	2.360	104	2.377	154	2.569	204	2.623
5	2.187	55	2.504	105	2.320	155	2.560	205	2.496
6	2.360	56	2.583	106	2.320	156	2.774	206	2.388
7	2.504	57	2.277	107	2.573	157	2.666	207	2.696
8	2.403	58	2.592	108	2.354	158	2.792	208	2.813
9	2.612	59	2.688	109	2.659	159	2.158	209	2.529
10	2.646	60	2.723	110	2.304	160	2.504	210	2.666
11	2.573	61	2.688	111	2.583	161	2.436	211	2.640
12	2.525	62	2.341	112	2.714	162	2.551	212	2.792
13	2.466	63	2.422	113	2.525	163	2.371	213	2.208
14	2.521	64	2.529	114	2.569	164	2.517	214	2.560
15	2.436	65	2.560	115	2.774	165	2.354	215	2.759
16	2.813	66	2.445	116	2.618	166	2.578	216	2.453
17	2.112	67	2.479	117	2.529	167	2.254	217	2.445
18	2.366	68	2.254	118	2.618	168	2.583	218	2.734
19	2.327	69	2.542	119	2.417	169	2.653	219	2.453
20	2.704	70	2.427	120	2.471	170	2.458	220	2.334
21	2.602	71	2.296	121	2.408	171	2.569	221	2.403
22	2.653	72	2.226	122	2.597	172	2.680	222	2.366
23	2.714	73	2.371	123	2.666	173	2.792	223	2.496
24	2.888	74	2.422	124	2.646	174	2.417	224	2.462
25	2.208	75	2.449	125	2.483	175	2.427	225	2.597
26	2.560	76	2.471	126	2.226	176	2.366	226	2.408
27	2.587	77	2.371	127	2.704	177	2.529	227	2.659
28	2.341	78	2.688	128	2.208	178	2.360	228	2.529
29	2.569	79	2.538	129	2.208	179	2.578	229	2.723
30	2.360	80	2.436	130	2.517	180	2.312	230	2.347
31	2.704	81	2.521	131	2.208	181	2.688	231	2.388
32	2.529	82	2.618	132	2.517	182	2.266	232	2.393
33	2.521	83	2.436	133	2.377	183	2.517	233	2.422
34	2.408	84	2.366	134	2.366	184	2.408	234	2.334
35	2.208	85	2.475	135	2.320	185	2.417	235	2.659
36	2.538	86	2.112	136	2.759	186	2.377	236	2.458
37	2.746	87	2.492	137	2.500	187	2.000	237	2.569
38	2.734	88	2.573	138	2.427	188	2.529	238	2.612
39	2.112	89	2.431	139	2.398	189	2.551	239	2.723
40	2.714	90	2.714	140	2.334	190	2.347	240	2.320
41	2.393	91	2.266	141	2.529	191	2.453	241	2.704
42	2.449	92	2.551	142	2.475	192	2.312	242	2.607
43	2.688	93	2.813	143	2.623	193	2.612	243	2.277
44	2.453	94	2.792	144	2.436	194	2.592	244	2.696
45	2.388	95	2.496	145	2.458	195	2.417	245	2.377
46	2.347	96	2.377	146	2.413	196	2.449	246	2.320
47	2.842	97	2.413	147	2.377	197	2.734	247	2.360
48	2.366	98	2.792	148	2.714	198	2.666	248	2.398
49	2.688	99	2.408	149	2.366	199	2.542	249	2.312
50	2.296	100	2.696	150	2.774	200	2.792	250	2.382

TABLE G4-H

OPERATING COST

Per Ton

Computer Generated Random Occurence Selection

1	$6.94	51	$6.97	101	$6.46	151	$6.73	201	$6.76
2	$6.55	52	$6.00	102	$7.33	152	$5.44	202	$6.86
3	$8.17	53	$6.68	103	$6.35	153	$7.78	203	$6.55
4	$7.75	54	$7.33	104	$7.41	154	$6.76	204	$7.33
5	$6.50	55	$7.58	105	$6.44	155	$6.90	205	$6.40
6	$5.91	56	$6.71	106	$7.98	156	$7.41	206	$6.71
7	$7.25	57	$8.07	107	$6.42	157	$6.16	207	$7.38
8	$6.77	58	$6.71	108	$6.65	158	$8.17	208	$6.55
9	$6.79	59	$7.52	109	$8.58	159	$6.62	209	$6.66
10	$6.57	60	$8.28	110	$6.12	160	$8.17	210	$6.24
11	$7.19	61	$6.59	111	$6.75	161	$7.44	211	$6.89
12	$9.27	62	$6.62	112	$6.48	162	$7.02	212	$7.12
13	$6.77	63	$6.77	113	$6.30	163	$8.28	213	$7.14
14	$8.49	64	$7.02	114	$7.27	164	$7.25	214	$6.72
15	$7.58	65	$8.69	115	$8.17	165	$6.88	215	$5.91
16	$6.79	66	$7.82	116	$6.72	166	$8.22	216	$8.35
17	$7.49	67	$7.98	117	$6.80	167	$7.82	217	$6.20
18	$6.99	68	$6.44	118	$6.46	168	$6.27	218	$8.22
19	$6.55	69	$7.82	119	$6.50	169	$6.83	219	$5.44
20	$7.02	70	$7.14	120	$8.99	170	$7.98	220	$7.61
21	$6.48	71	$7.17	121	$8.02	171	$7.30	221	$6.06
22	$7.09	72	$6.00	122	$7.07	172	$7.78	222	$8.35
23	$6.86	73	$7.98	123	$8.28	173	$7.93	223	$6.73
24	$7.38	74	$6.84	124	$7.22	174	$6.93	224	$7.78
25	$7.86	75	$6.59	125	$7.82	175	$6.71	225	$6.00
26	$8.35	76	$7.25	126	$7.98	176	$6.89	226	$7.55
27	$6.24	77	$6.76	127	$8.82	177	$6.68	227	$6.50
28	$6.65	78	$6.86	128	$8.42	178	$6.46	228	$6.00
29	$8.49	79	$7.58	129	$7.68	179	$5.44	229	$7.98
30	$7.46	80	$7.35	130	$6.88	180	$6.12	230	$8.49
31	$6.16	81	$8.12	131	$7.04	181	$7.12	231	$8.99
32	$6.24	82	$5.44	132	$8.49	182	$6.93	232	$7.41
33	$6.16	83	$6.57	133	$7.07	183	$6.35	233	$6.99
34	$6.62	84	$6.38	134	$8.42	184	$7.86	234	$6.81
35	$7.02	85	$6.54	135	$6.00	185	$7.46	235	$6.76
36	$6.12	86	$7.44	136	$8.02	186	$6.71	236	$6.57
37	$9.27	87	$6.42	137	$6.48	187	$6.72	237	$6.73
38	$6.52	88	$6.60	138	$6.44	188	$6.57	238	$6.55
39	$8.35	89	$6.79	139	$6.35	189	$8.99	239	$6.62
40	$6.85	90	$6.77	140	$6.48	190	$7.58	240	$6.83
41	$7.65	91	$6.44	141	$8.58	191	$7.07	241	$8.02
42	$6.79	92	$6.99	142	$6.59	192	$5.78	242	$7.65
43	$8.17	93	$7.46	143	$7.49	193	$8.49	243	$7.98
44	$7.44	94	$6.40	144	$7.22	194	$6.38	244	$6.52
45	$7.38	95	$6.46	145	$6.83	195	$8.69	245	$8.07
46	$8.28	96	$7.33	146	$6.99	196	$6.40	246	$7.22
47	$6.77	97	$7.46	147	$8.99	197	$6.80	247	$7.02
48	$7.09	98	$6.77	148	$6.40	198	$6.20	248	$7.86
49	$6.60	99	$6.75	149	$6.73	199	$8.69	249	$6.81
50	$6.38	100	$7.25	150	$7.22	200	$8.07	250	$7.27

TABLE G4-I

LEAD PRICE

Cents per Pound

Computer Generated Random Occurence Selection

1	$0.18	51	$0.18	101	$0.20	151	$0.18	201	$0.21
2	$0.14	52	$0.20	102	$0.18	152	$0.18	202	$0.18
3	$0.18	53	$0.22	103	$0.15	153	$0.16	203	$0.18
4	$0.20	54	$0.16	104	$0.21	154	$0.20	204	$0.20
5	$0.16	55	$0.18	105	$0.18	155	$0.16	205	$0.16
6	$0.15	56	$0.15	106	$0.20	156	$0.17	206	$0.19
7	$0.23	57	$0.16	107	$0.22	157	$0.12	207	$0.16
8	$0.13	58	$0.17	108	$0.17	158	$0.20	208	$0.22
9	$0.17	59	$0.16	109	$0.22	159	$0.18	209	$0.16
10	$0.24	60	$0.18	110	$0.19	160	$0.22	210	$0.25
11	$0.22	61	$0.18	111	$0.19	161	$0.19	211	$0.23
12	$0.16	62	$0.15	112	$0.17	162	$0.16	212	$0.19
13	$0.17	63	$0.19	113	$0.15	163	$0.14	213	$0.25
14	$0.23	64	$0.23	114	$0.18	164	$0.20	214	$0.19
15	$0.23	65	$0.18	115	$0.18	165	$0.10	215	$0.23
16	$0.18	66	$0.17	116	$0.18	166	$0.16	216	$0.18
17	$0.16	67	$0.19	117	$0.17	167	$0.20	217	$0.13
18	$0.19	68	$0.18	118	$0.22	168	$0.19	218	$0.16
19	$0.17	69	$0.18	119	$0.19	169	$0.21	219	$0.20
20	$0.17	70	$0.18	120	$0.18	170	$0.19	220	$0.22
21	$0.16	71	$0.19	121	$0.22	171	$0.19	221	$0.14
22	$0.19	72	$0.19	122	$0.16	172	$0.21	222	$0.16
23	$0.15	73	$0.24	123	$0.21	173	$0.20	223	$0.16
24	$0.21	74	$0.20	124	$0.19	174	$0.20	224	$0.14
25	$0.21	75	$0.10	125	$0.20	175	$0.20	225	$0.26
26	$0.22	76	$0.20	126	$0.19	176	$0.20	226	$0.15
27	$0.14	77	$0.20	127	$0.21	177	$0.18	227	$0.18
28	$0.13	78	$0.17	128	$0.15	178	$0.24	228	$0.21
29	$0.20	79	$0.23	129	$0.18	179	$0.16	229	$0.14
30	$0.22	80	$0.15	130	$0.17	180	$0.22	230	$0.20
31	$0.25	81	$0.19	131	$0.20	181	$0.18	231	$0.20
32	$0.18	82	$0.21	132	$0.22	182	$0.17	232	$0.23
33	$0.20	83	$0.17	133	$0.18	183	$0.17	233	$0.20
34	$0.13	84	$0.19	134	$0.18	184	$0.16	234	$0.22
35	$0.24	85	$0.21	135	$0.20	185	$0.13	235	$0.19
36	$0.20	86	$0.22	136	$0.20	186	$0.19	236	$0.19
37	$0.15	87	$0.18	137	$0.16	187	$0.20	237	$0.20
38	$0.16	88	$0.21	138	$0.22	188	$0.22	238	$0.23
39	$0.17	89	$0.21	139	$0.19	189	$0.10	239	$0.23
40	$0.19	90	$0.19	140	$0.19	190	$0.25	240	$0.10
41	$0.18	91	$0.23	141	$0.18	191	$0.26	241	$0.20
42	$0.17	92	$0.10	142	$0.22	192	$0.17	242	$0.19
43	$0.19	93	$0.16	143	$0.25	193	$0.17	243	$0.22
44	$0.15	94	$0.15	144	$0.24	194	$0.17	244	$0.14
45	$0.18	95	$0.20	145	$0.22	195	$0.19	245	$0.17
46	$0.20	96	$0.20	146	$0.23	196	$0.15	246	$0.17
47	$0.19	97	$0.15	147	$0.16	197	$0.14	247	$0.20
48	$0.25	98	$0.15	148	$0.20	198	$0.14	248	$0.19
49	$0.21	99	$0.19	149	$0.25	199	$0.18	249	$0.20
50	$0.20	100	$0.17	150	$0.22	200	$0.16	250	$0.17

TABLE G4-K

LEAD GRADE

Percent per Ton

Computer Generated Random Occurence Selection

1	0.953	51	0.804	101	0.699	151	0.732	201	0.822
2	0.887	52	0.706	102	0.917	152	0.855	202	0.699
3	0.848	53	0.748	103	0.748	153	0.855	203	0.752
4	0.820	54	0.944	104	0.830	154	0.607	204	0.712
5	0.712	55	0.822	105	0.788	155	0.890	205	0.820
6	0.782	56	0.868	106	0.712	156	0.827	206	0.763
7	0.939	57	0.863	107	0.732	157	0.822	207	0.763
8	1.015	58	0.782	108	0.924	158	0.752	208	1.015
9	0.807	59	0.835	109	0.898	159	1.073	209	0.607
10	0.838	60	0.699	110	1.073	160	0.953	210	0.736
11	0.876	61	0.766	111	0.809	161	0.981	211	0.853
12	0.763	62	0.855	112	0.825	162	0.825	212	1.015
13	0.968	63	0.793	113	0.921	163	0.717	213	0.974
14	0.932	64	0.868	114	0.766	164	0.756	214	0.958
15	0.911	65	0.853	115	1.015	165	0.907	215	0.840
16	0.793	66	0.827	116	0.914	166	0.911	216	0.901
17	0.732	67	0.665	117	0.763	167	0.809	217	0.685
18	0.676	68	0.871	118	0.932	168	0.699	218	0.887
19	0.785	69	0.773	119	0.766	169	0.948	219	0.881
20	0.884	70	1.045	120	0.825	170	0.822	220	0.752
21	0.921	71	1.028	121	1.028	171	0.812	221	0.890
22	0.752	72	0.904	122	0.652	172	0.820	222	0.692
23	0.855	73	0.788	123	0.907	173	0.835	223	0.948
24	0.981	74	0.817	124	0.796	174	1.028	224	0.830
25	0.932	75	0.890	125	0.769	175	1.028	225	0.769
26	0.843	76	0.948	126	0.812	176	0.801	226	0.932
27	0.732	77	0.968	127	0.809	177	0.665	227	0.752
28	0.995	78	0.776	128	0.865	178	0.736	228	0.995
29	0.820	79	0.652	129	0.835	179	0.752	229	0.820
30	0.848	80	0.727	130	0.884	180	0.779	230	0.995
31	0.953	81	0.843	131	0.748	181	0.776	231	1.015
32	0.963	82	0.790	132	0.873	182	1.045	232	0.779
33	0.676	83	0.699	133	0.820	183	0.815	233	0.748
34	0.607	84	1.004	134	0.953	184	0.935	234	0.895
35	0.935	85	0.935	135	0.835	185	0.706	235	0.914
36	0.745	86	0.855	136	0.699	186	0.901	236	0.804
37	0.820	87	0.741	137	1.073	187	0.741	237	0.904
38	1.045	88	1.004	138	0.779	188	0.974	238	0.876
39	0.804	89	0.928	139	0.958	189	0.904	239	0.825
40	0.815	90	0.785	140	0.932	190	0.981	240	0.796
41	0.838	91	0.944	141	0.817	191	0.793	241	0.853
42	0.895	92	0.665	142	0.815	192	0.879	242	0.843
43	0.635	93	0.884	143	0.752	193	0.884	243	0.685
44	0.840	94	0.607	144	0.607	194	0.793	244	0.863
45	0.830	95	1.073	145	0.727	195	0.995	245	0.788
46	0.895	96	0.801	146	0.607	196	0.830	246	0.796
47	0.881	97	0.948	147	0.840	197	0.860	247	1.004
48	0.863	98	0.840	148	0.676	198	1.004	248	0.917
49	0.921	99	0.881	149	0.948	199	0.807	249	1.028
50	0.907	100	0.779	150	0.723	200	1.045	250	0.804

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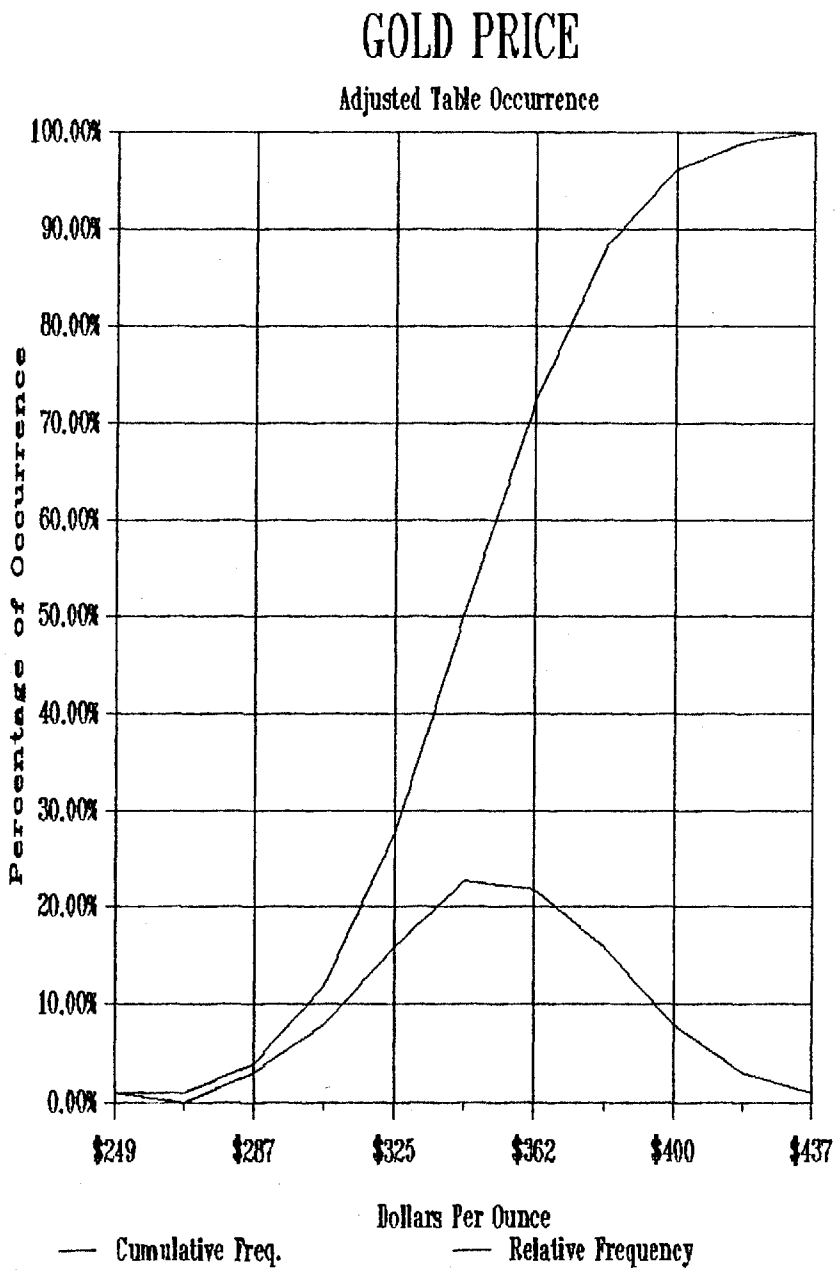
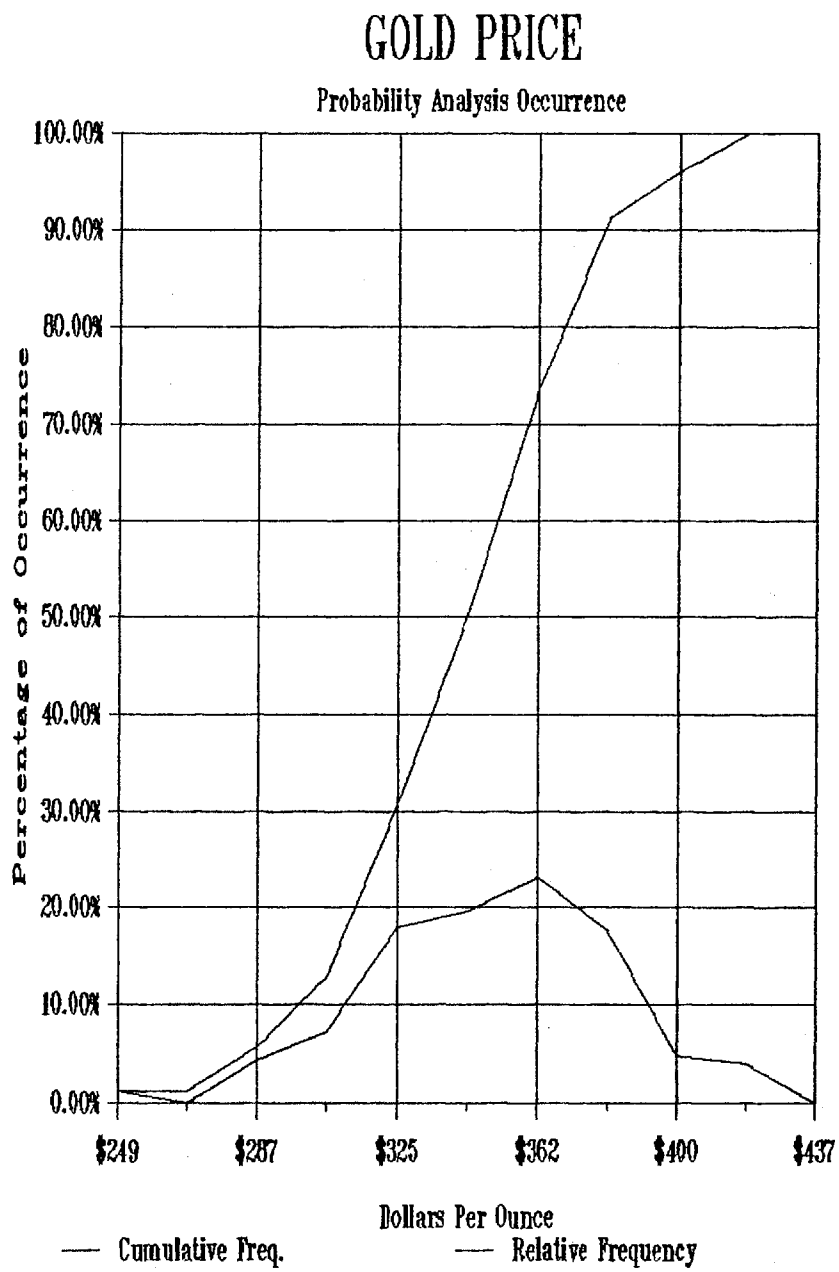
FLOTATION OPERATION

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET

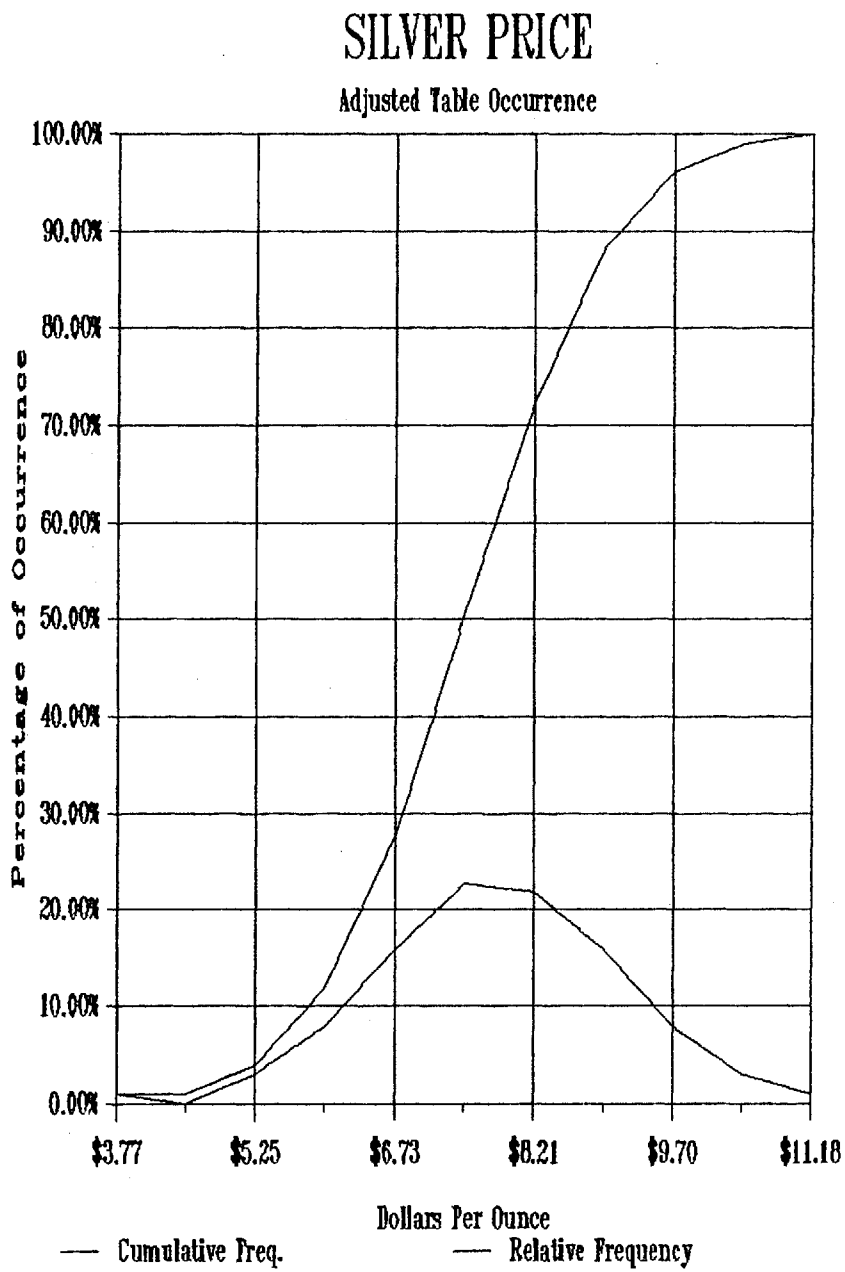
RESULTS



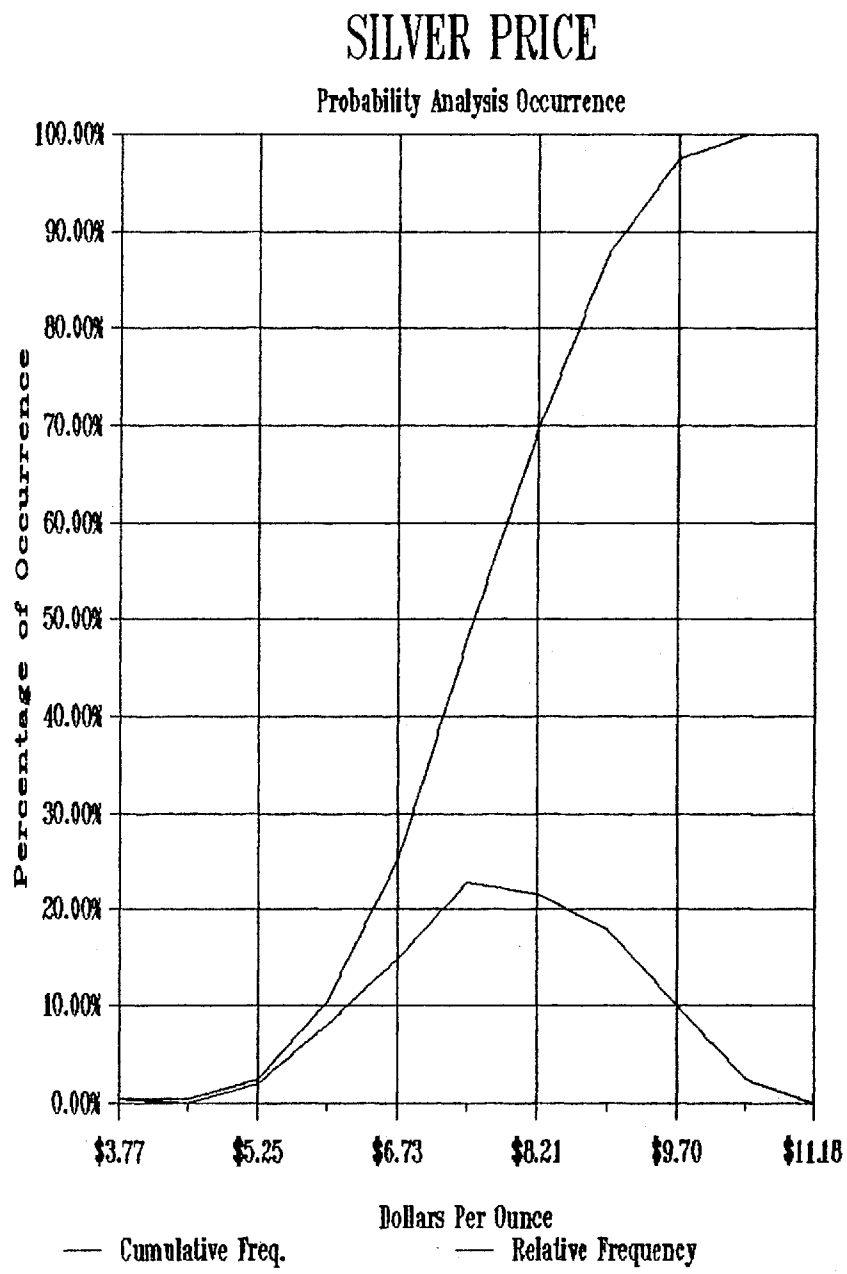
GRAPH - F3A



GRAPH - F4-A



GRAPH - F3-B



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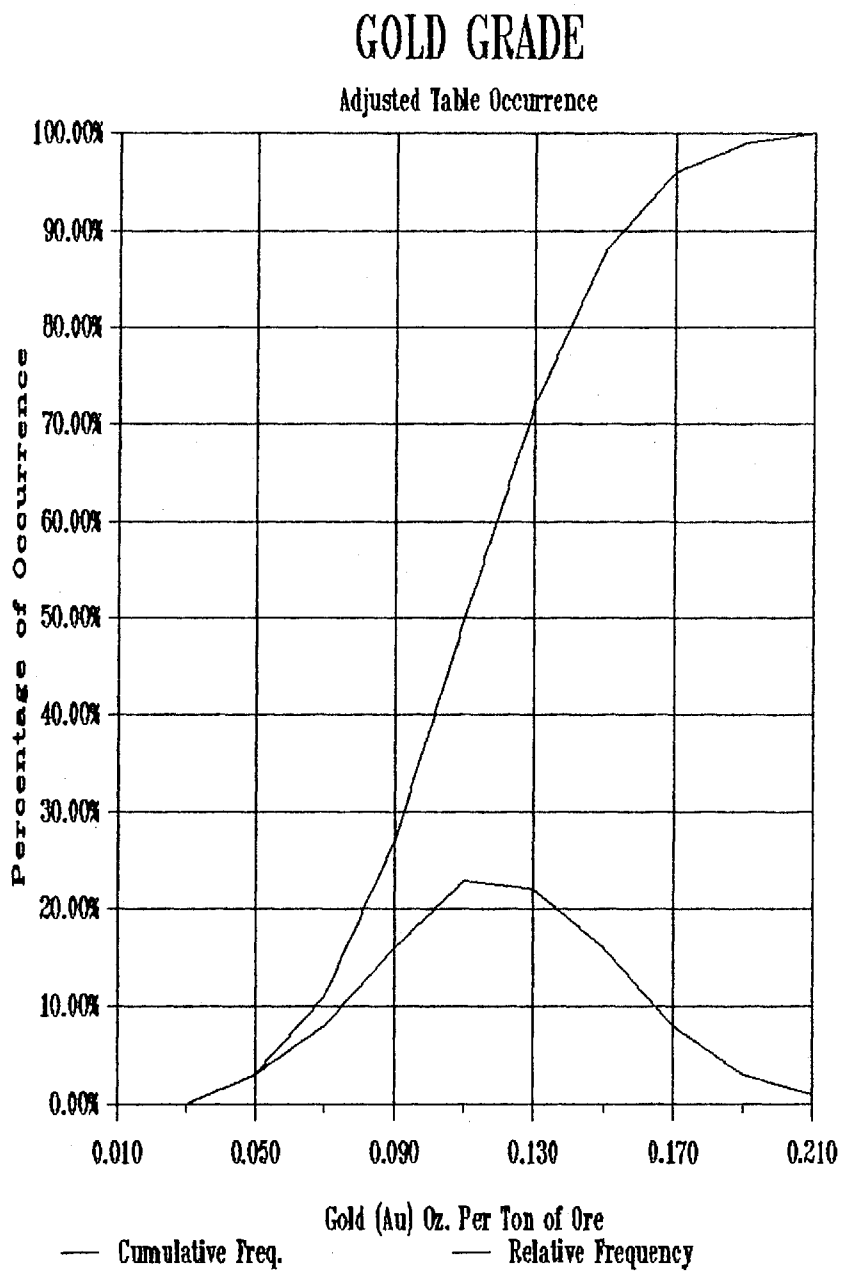

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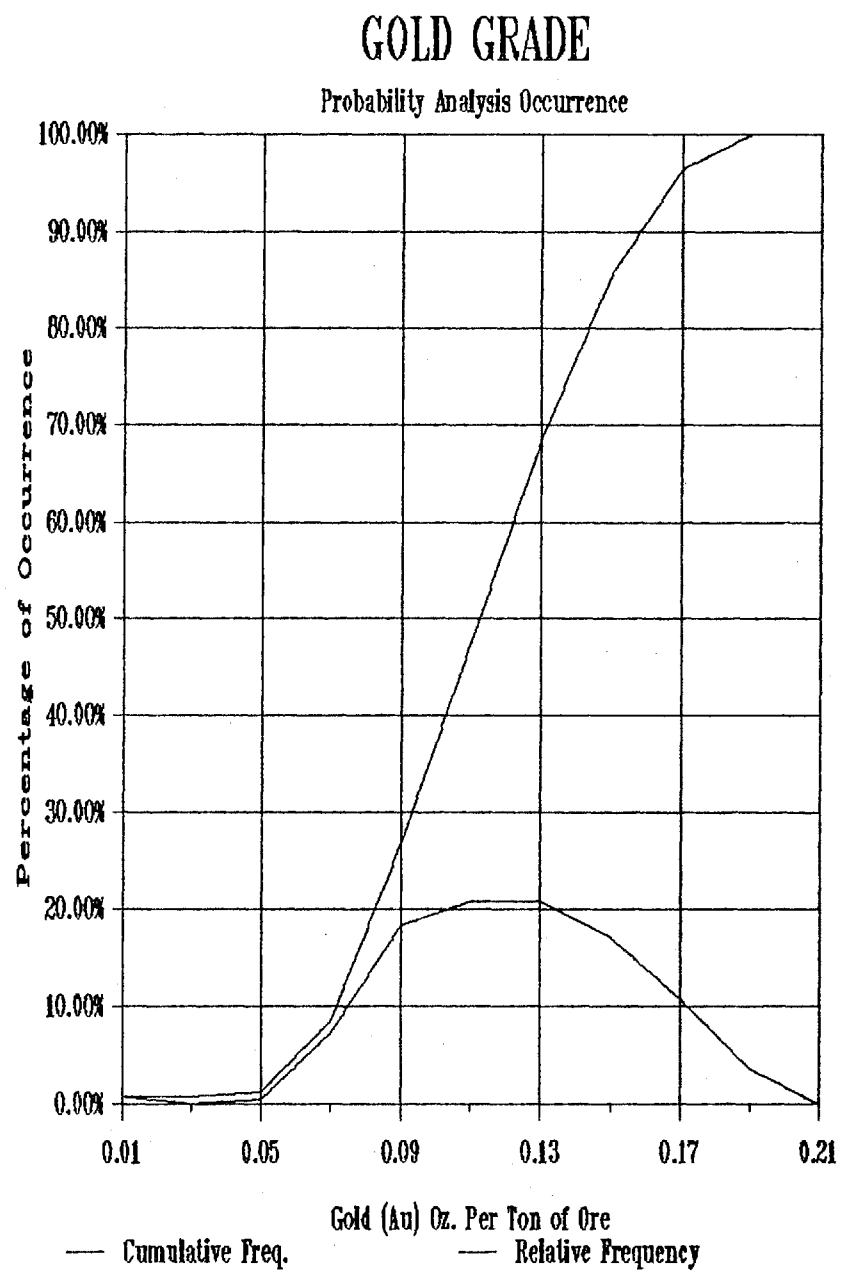
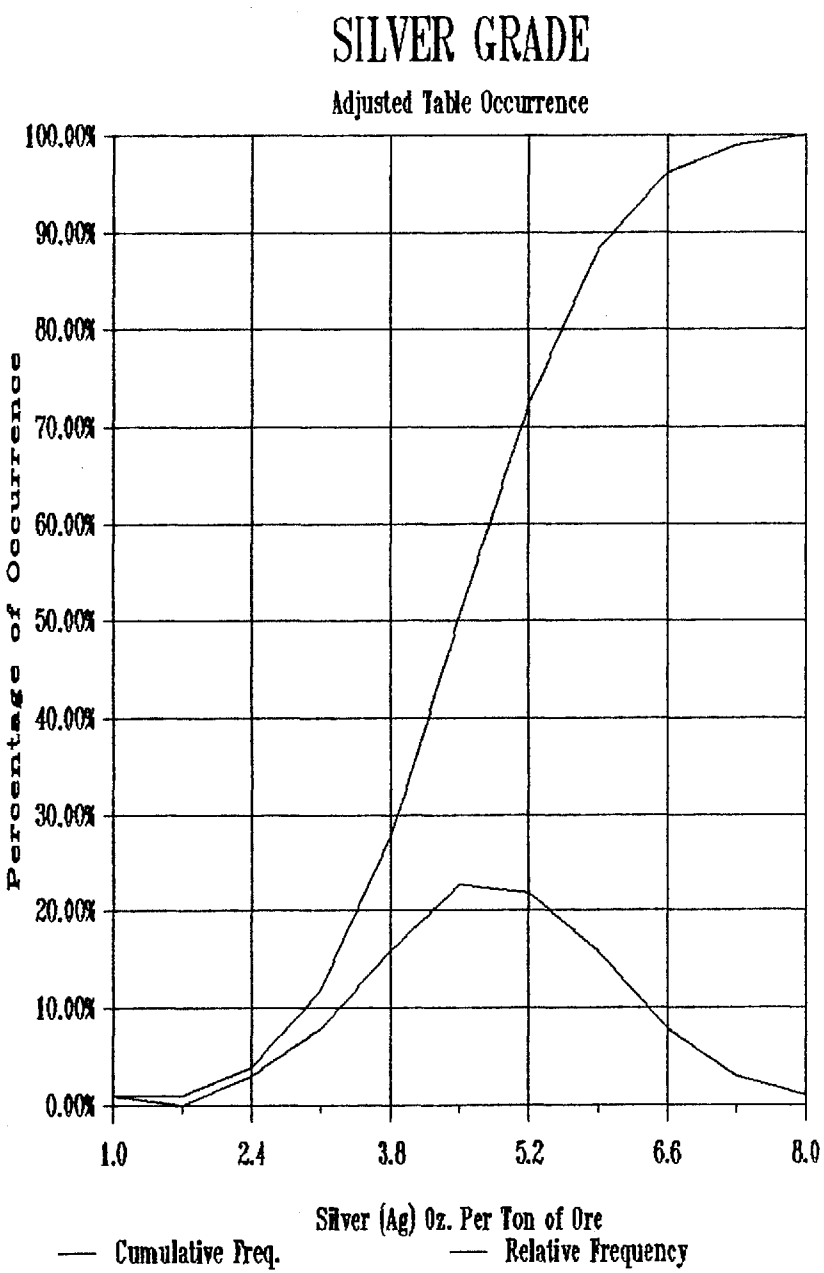


GRAPH - F4-C



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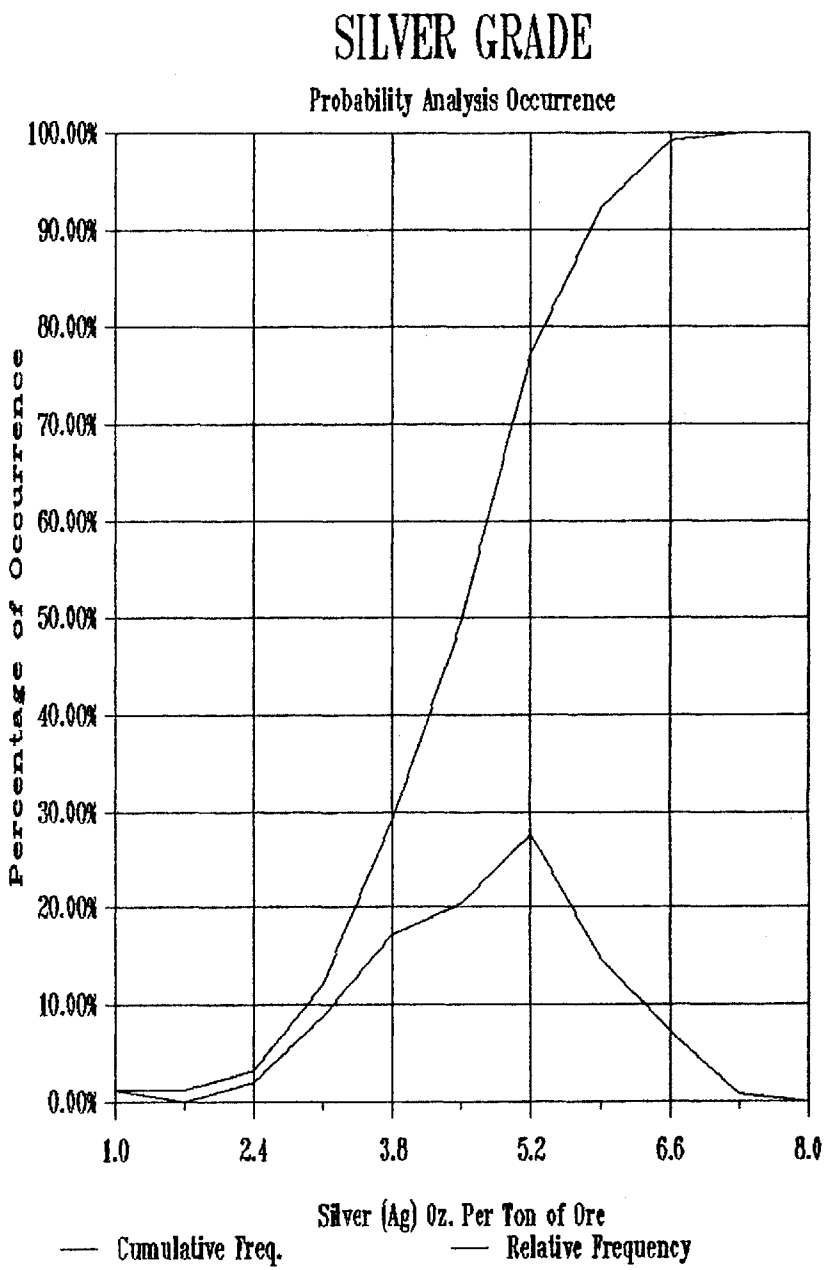

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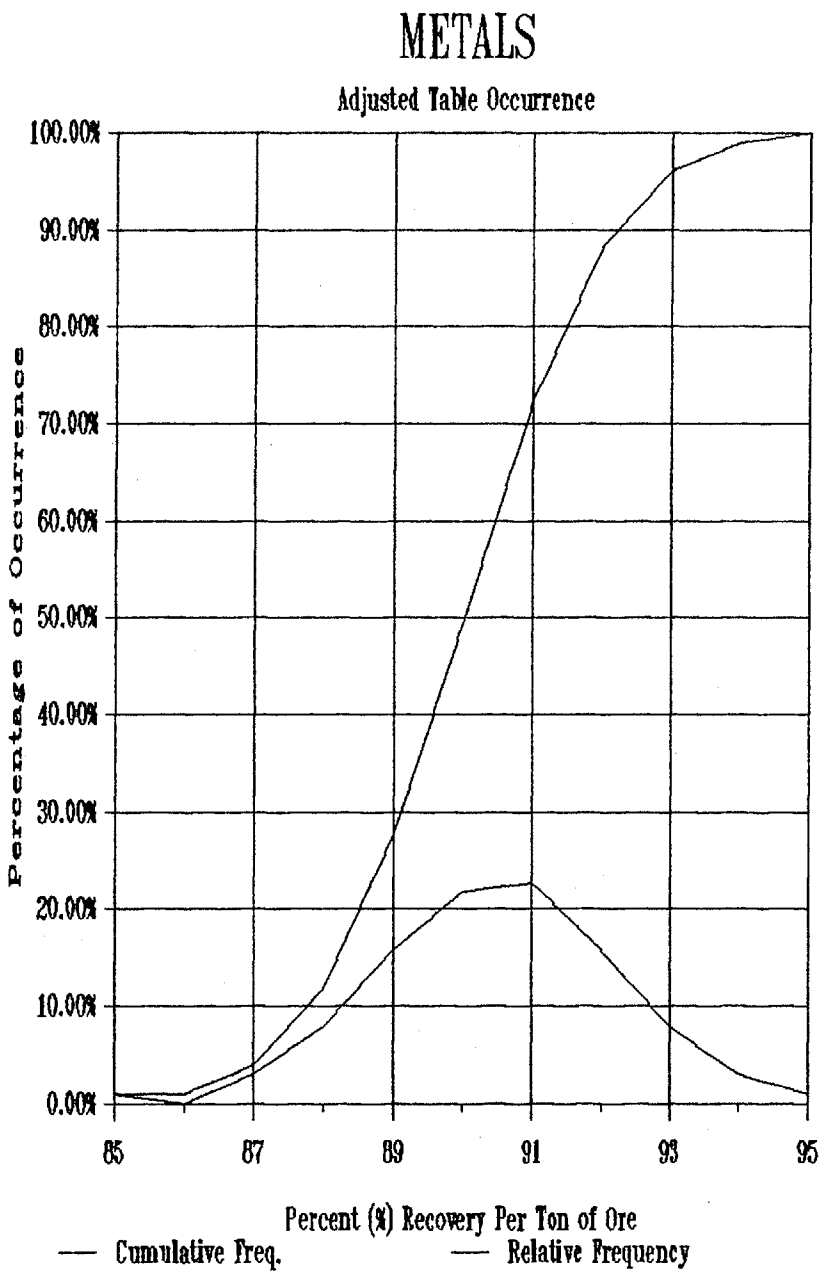

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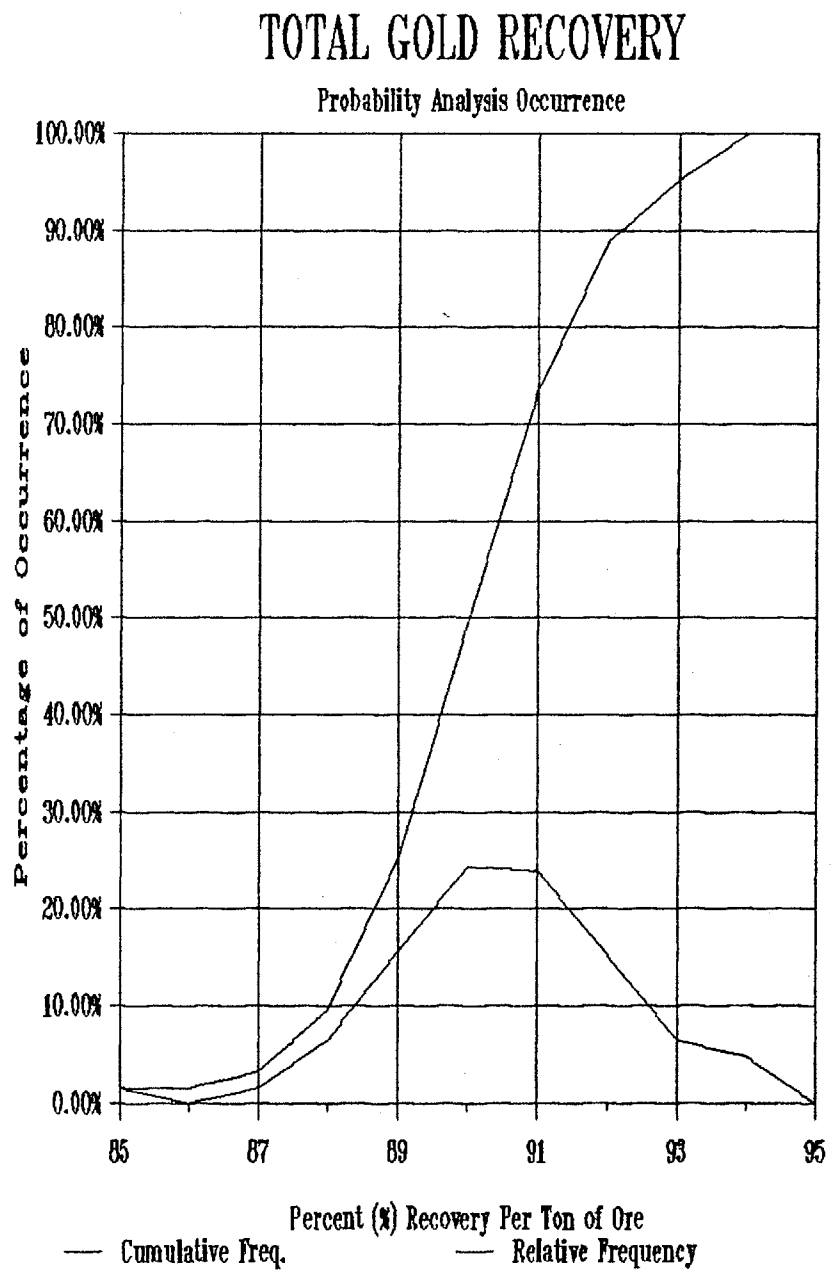

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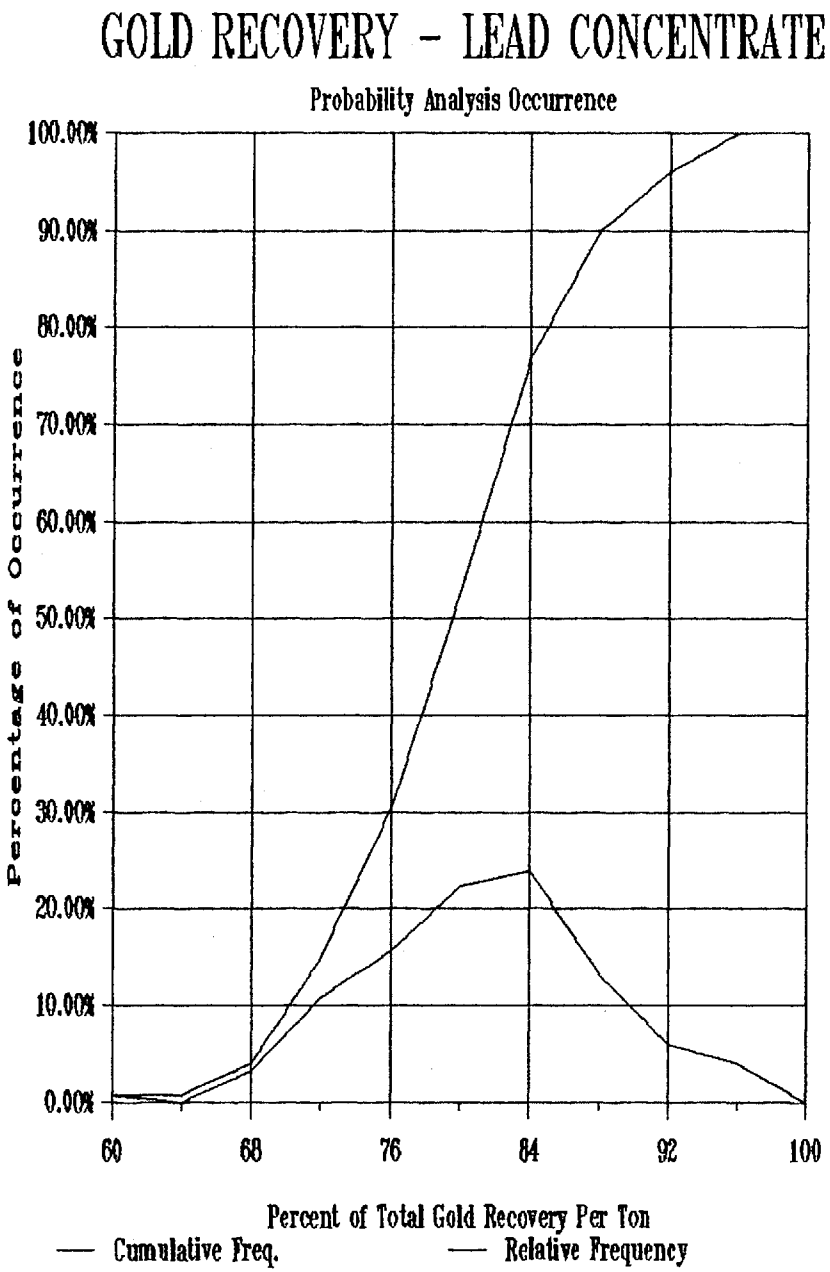

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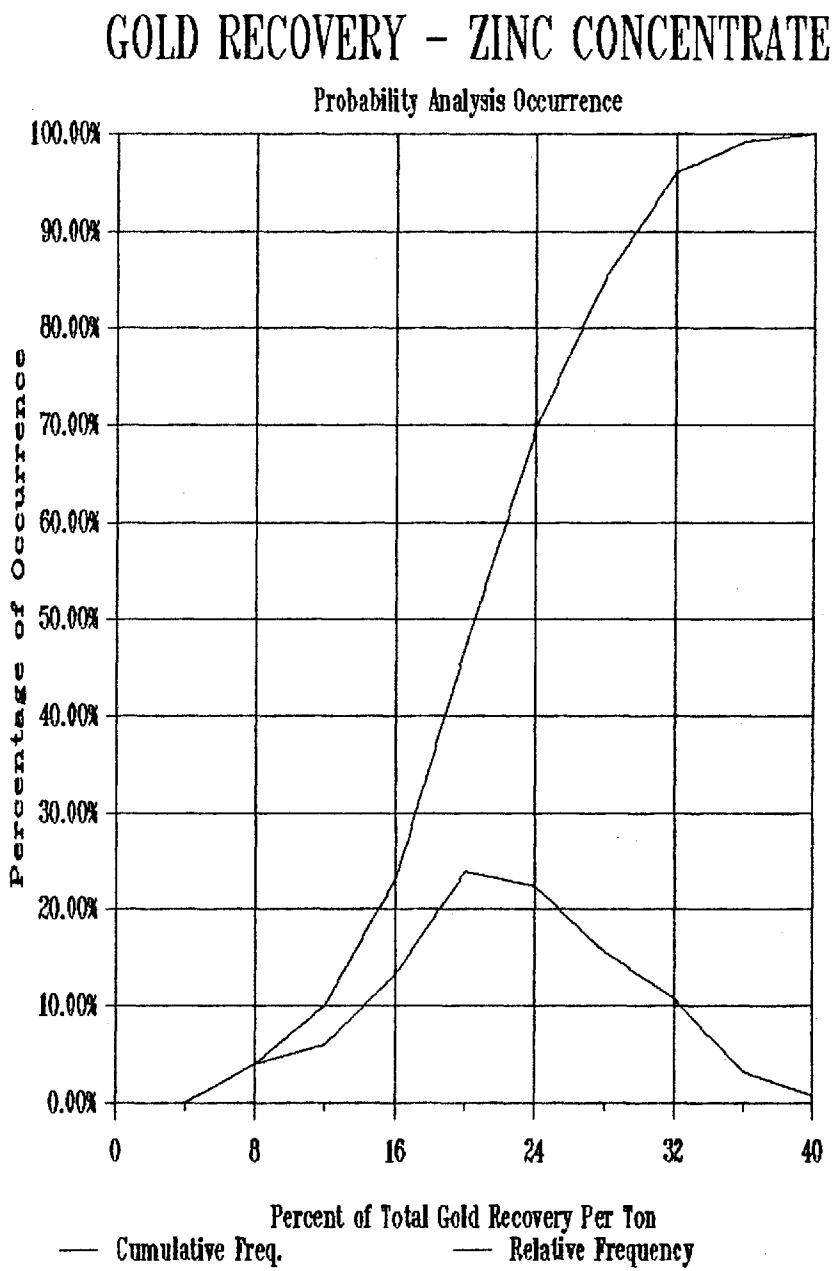

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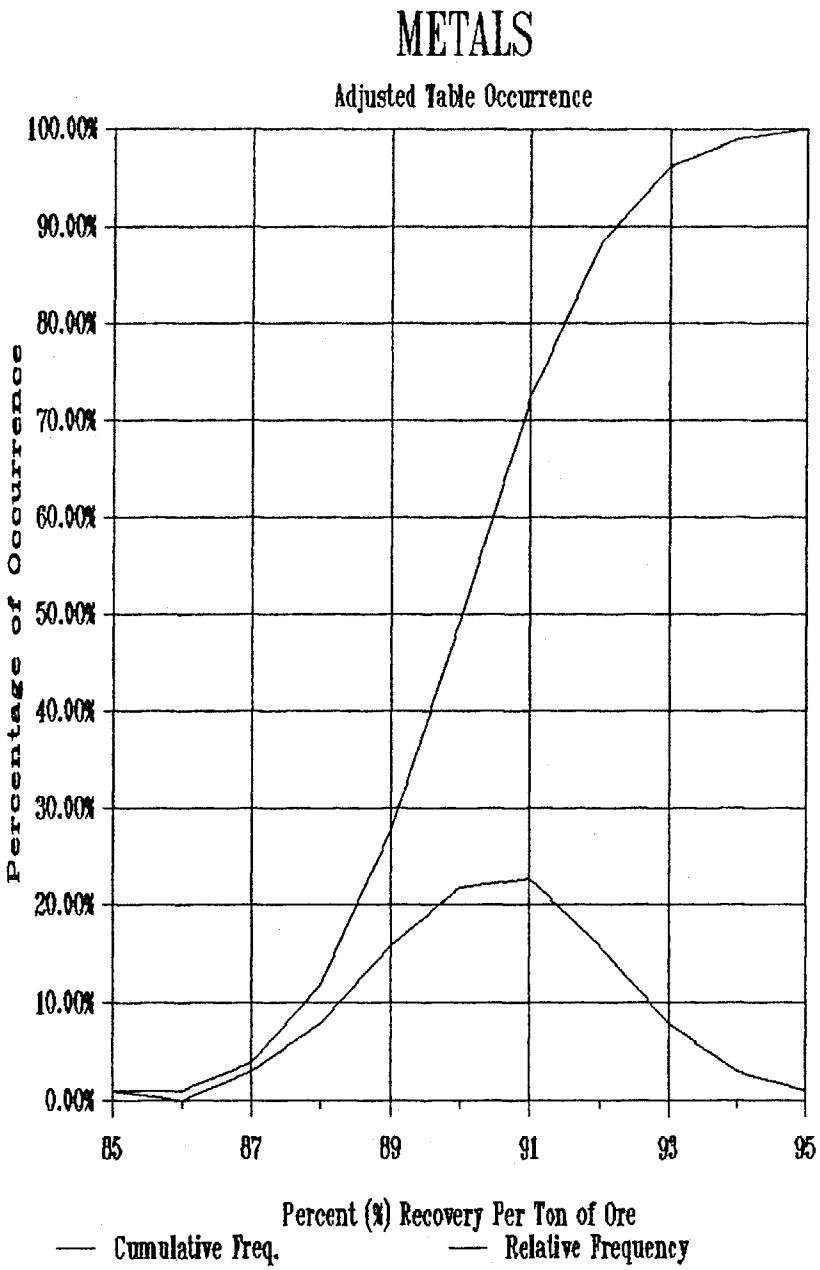

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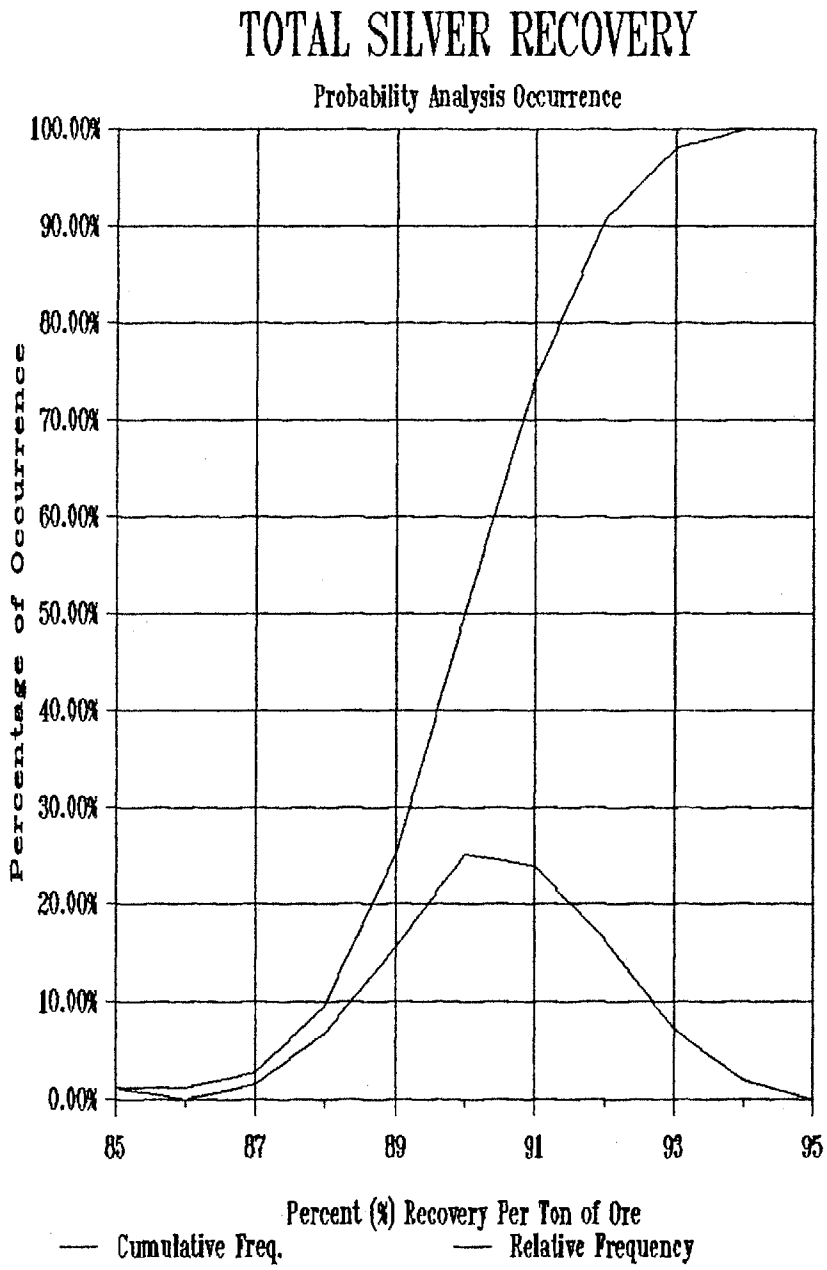
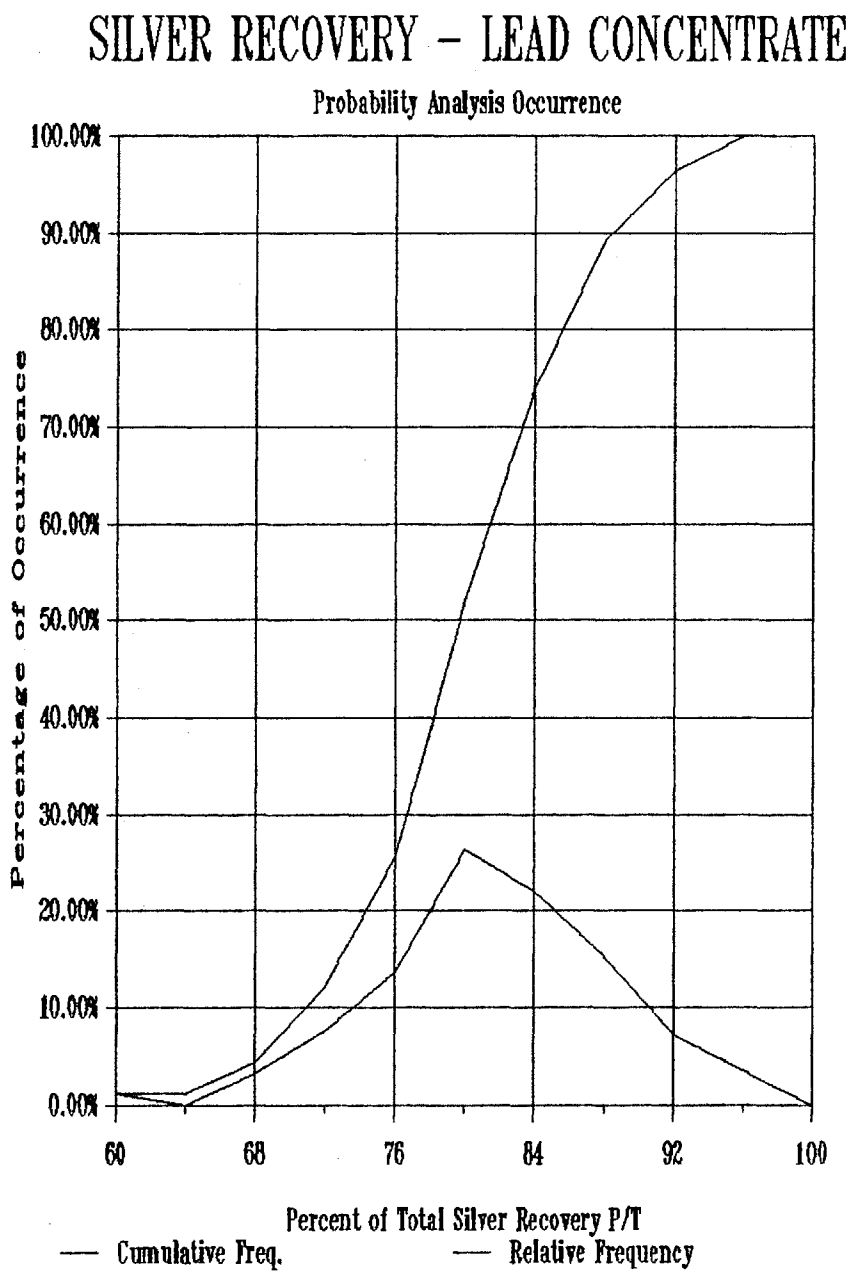


GRAPH - F4-F



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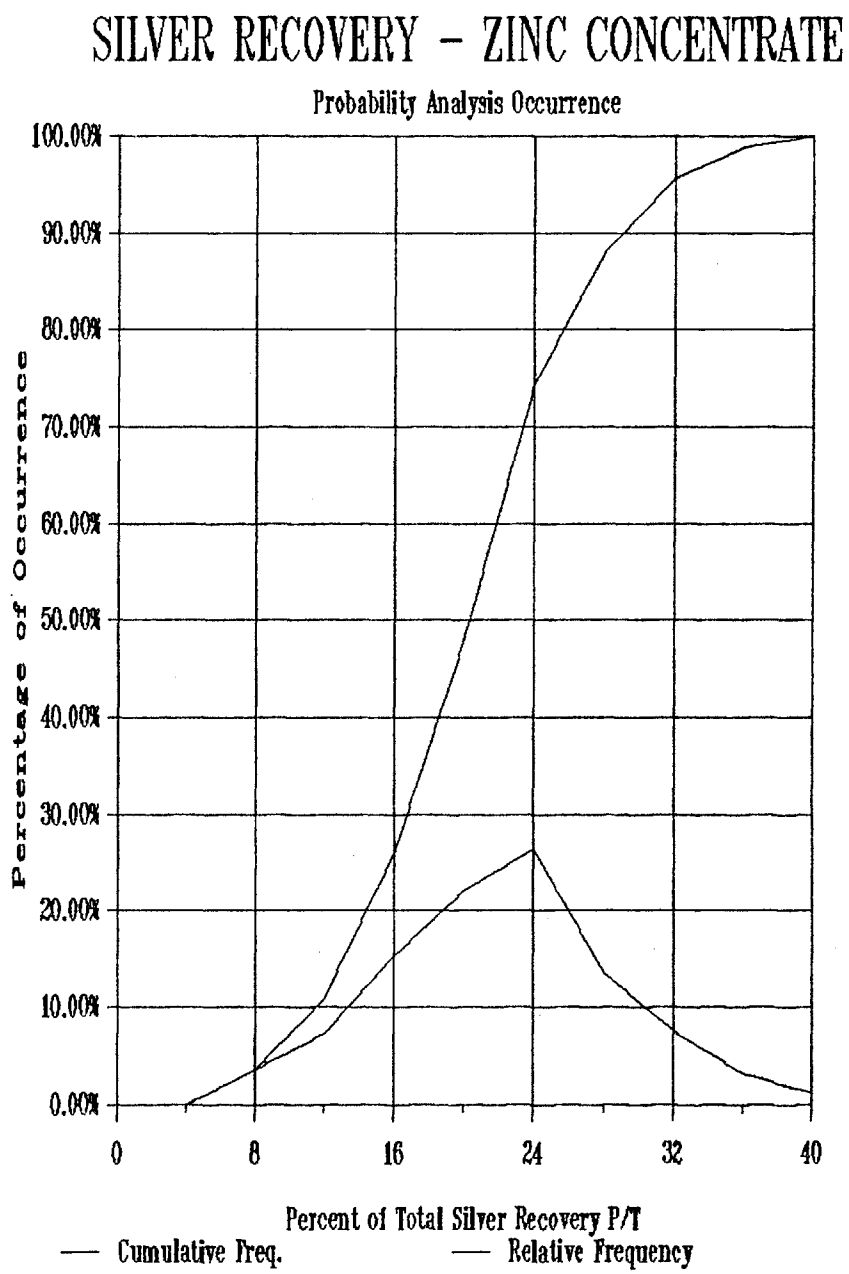
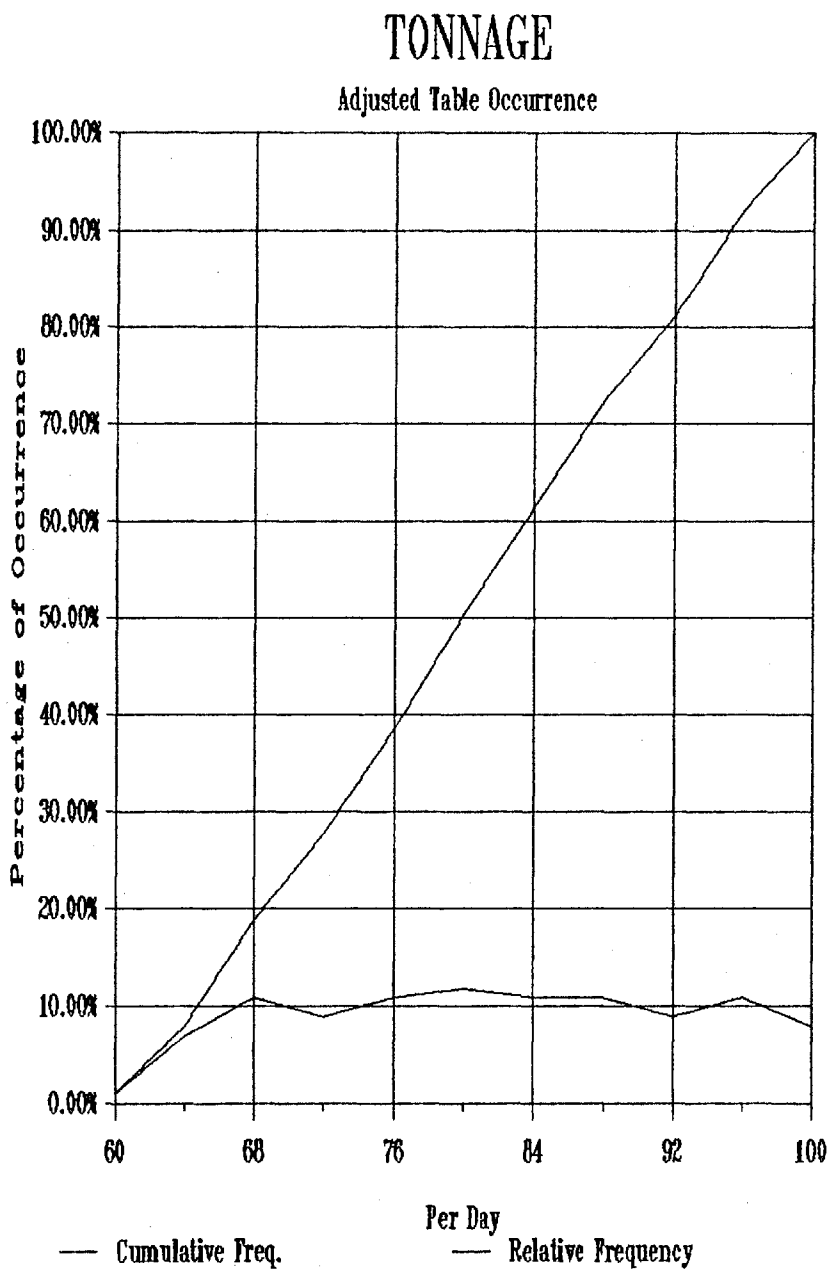


GRAPH - F4-FZ



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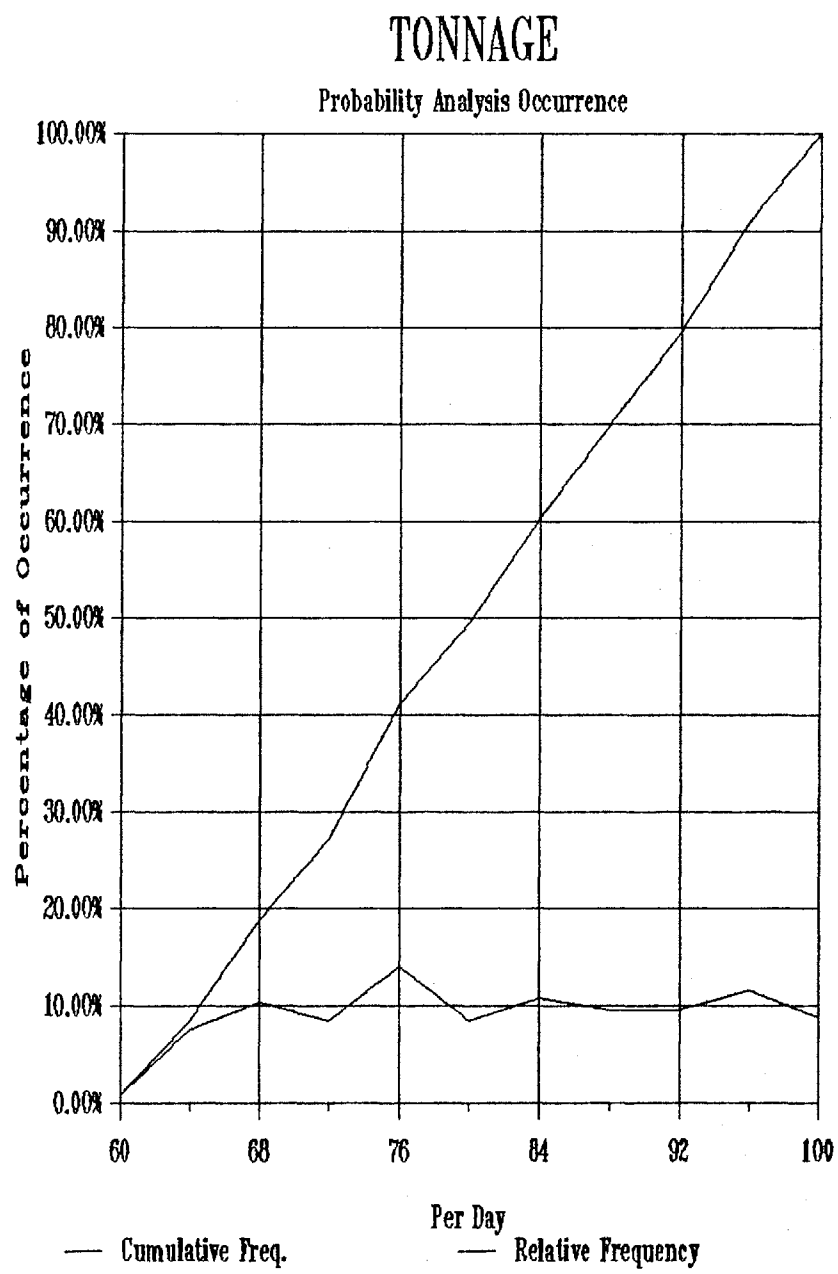

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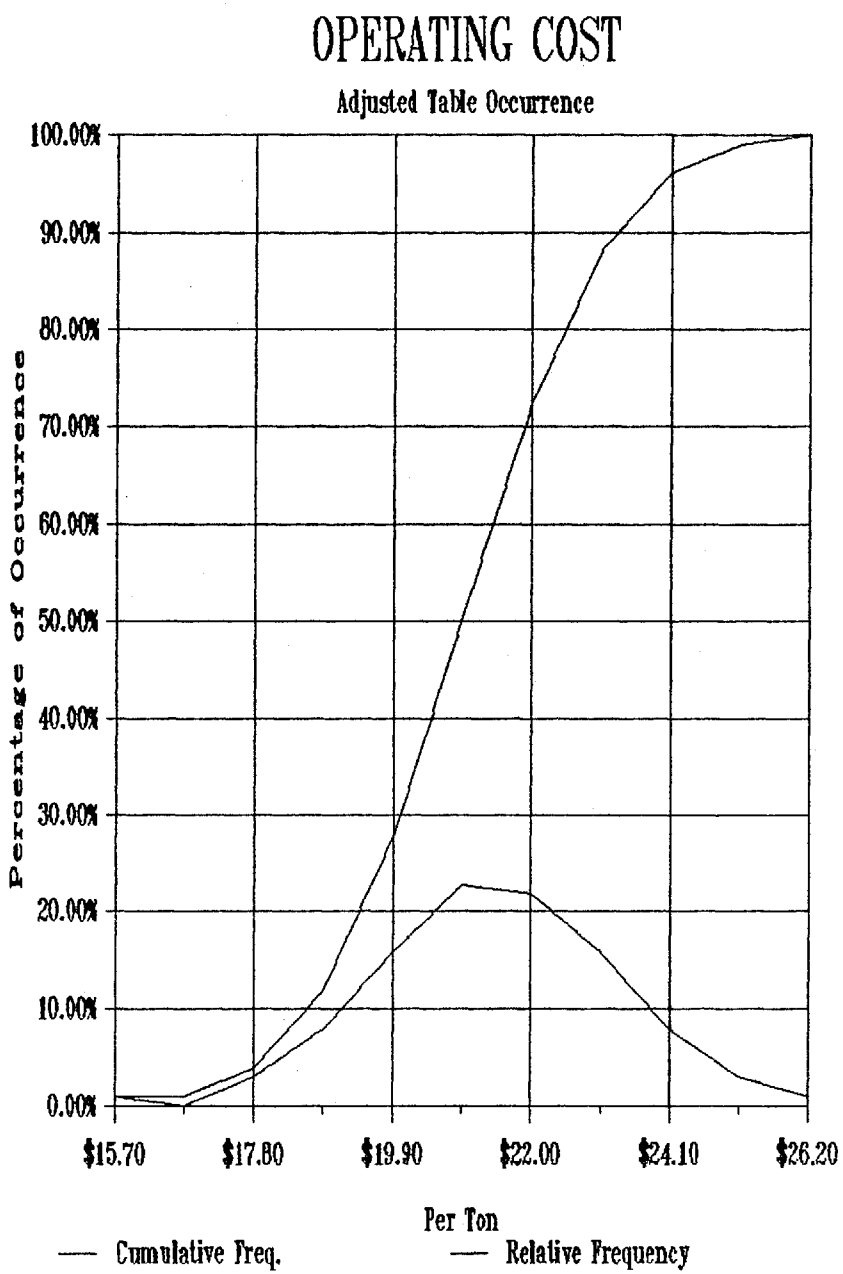

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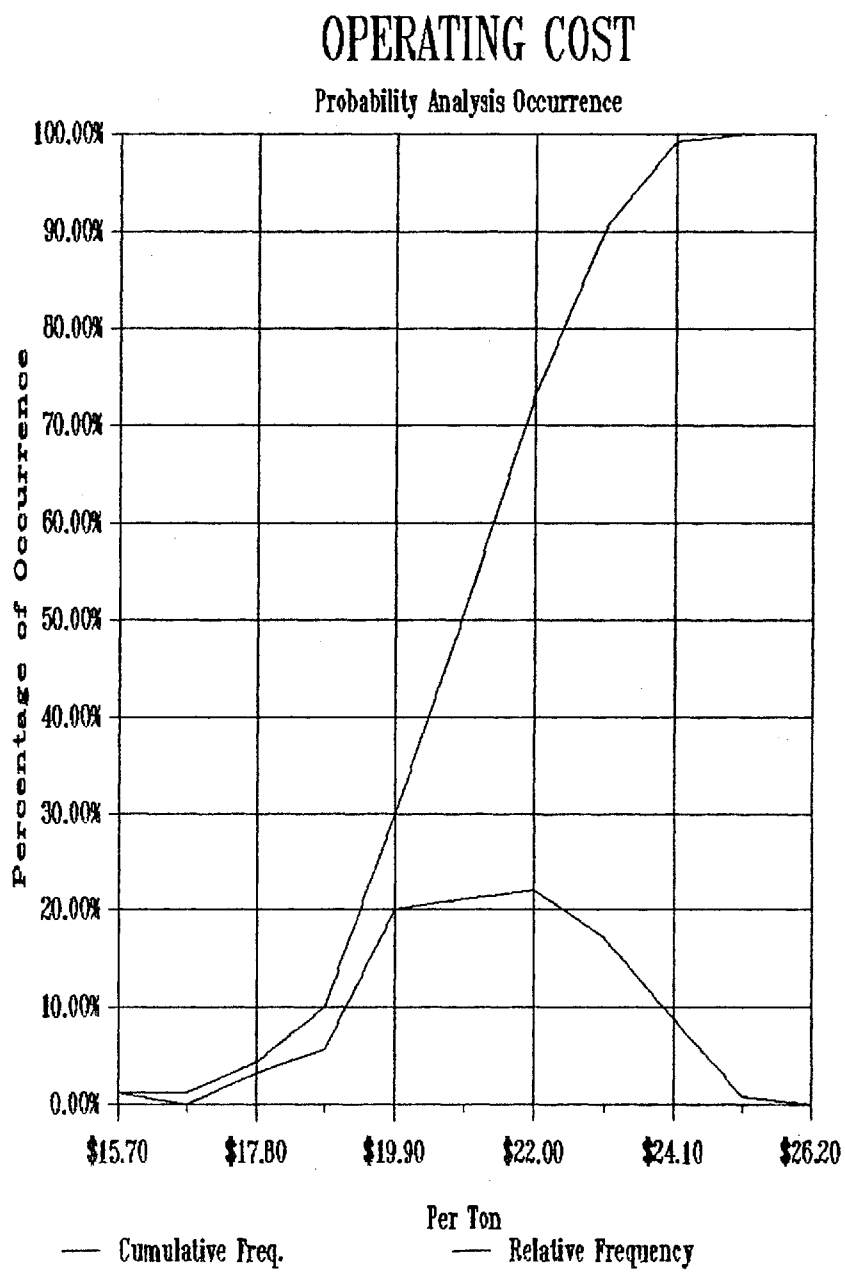

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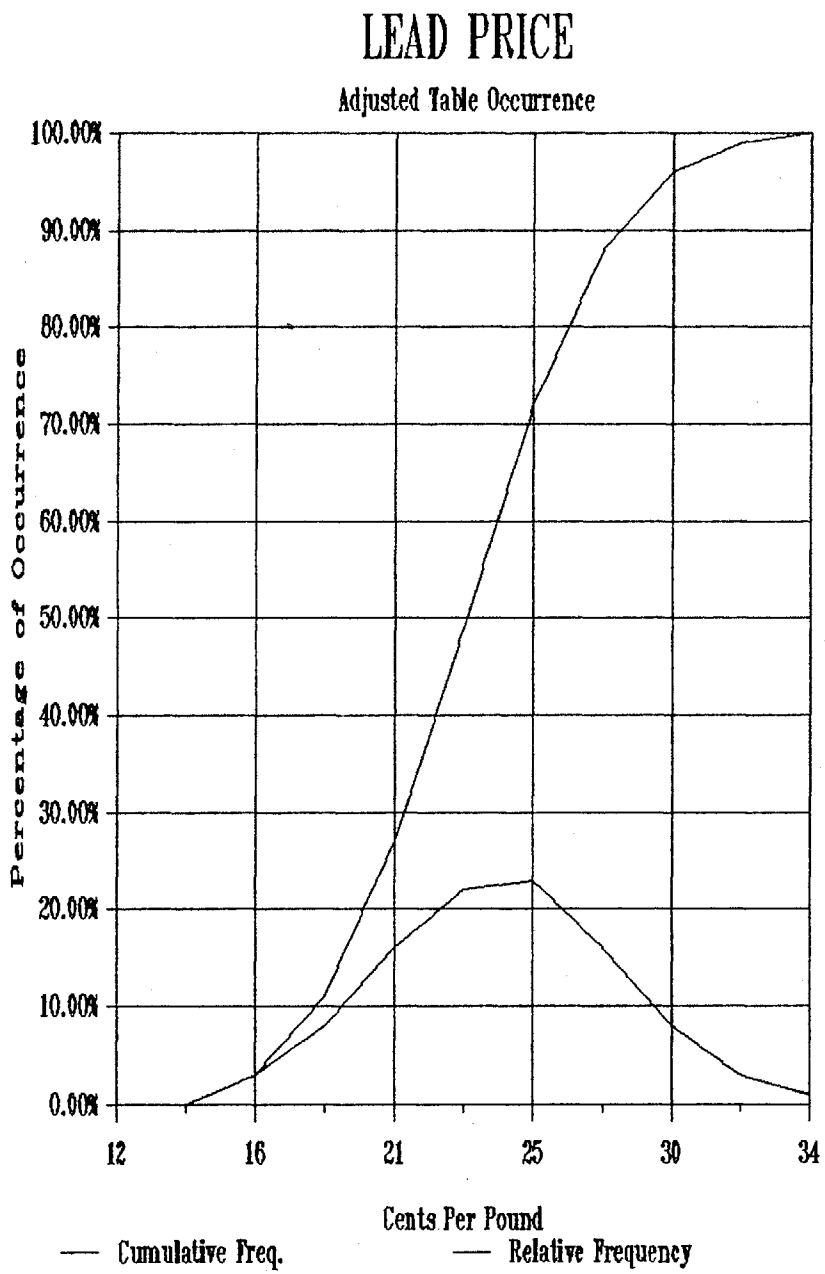
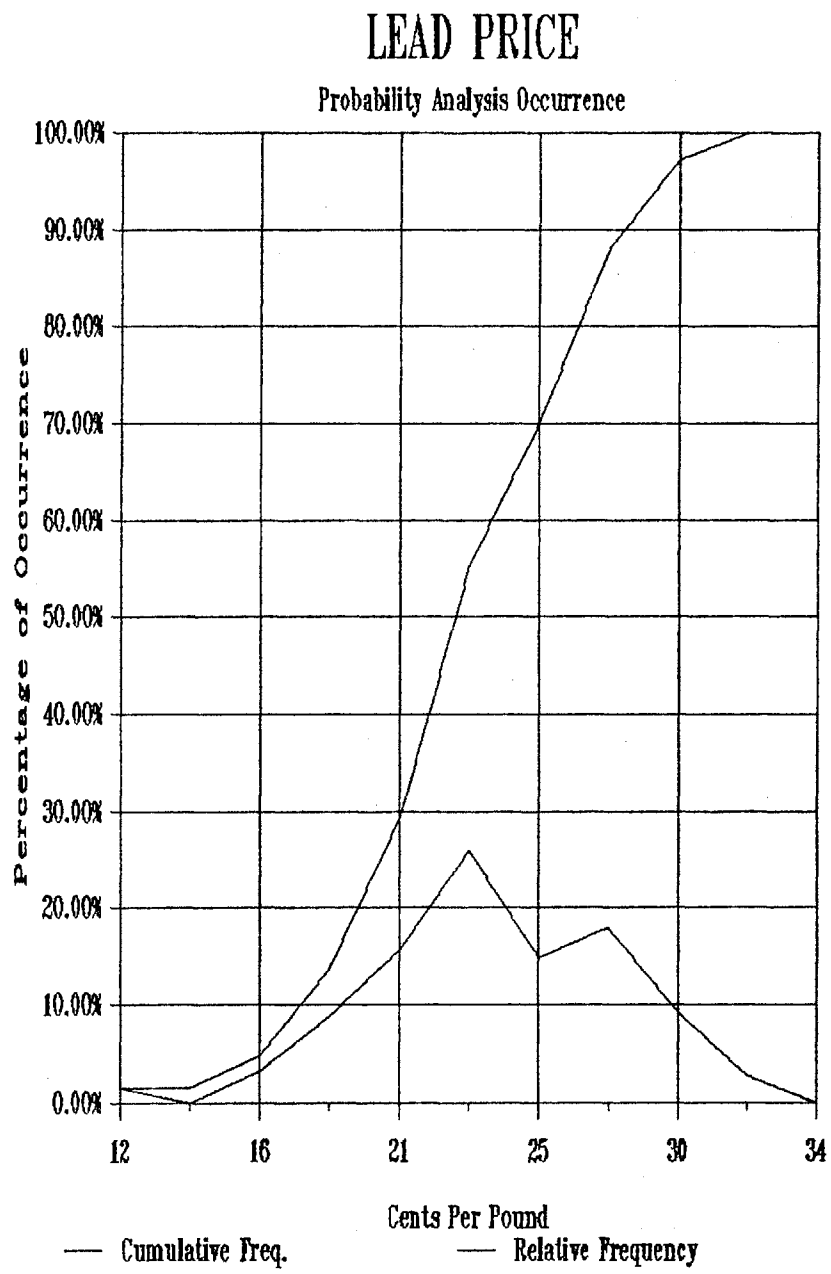


GRAPH - F3-I



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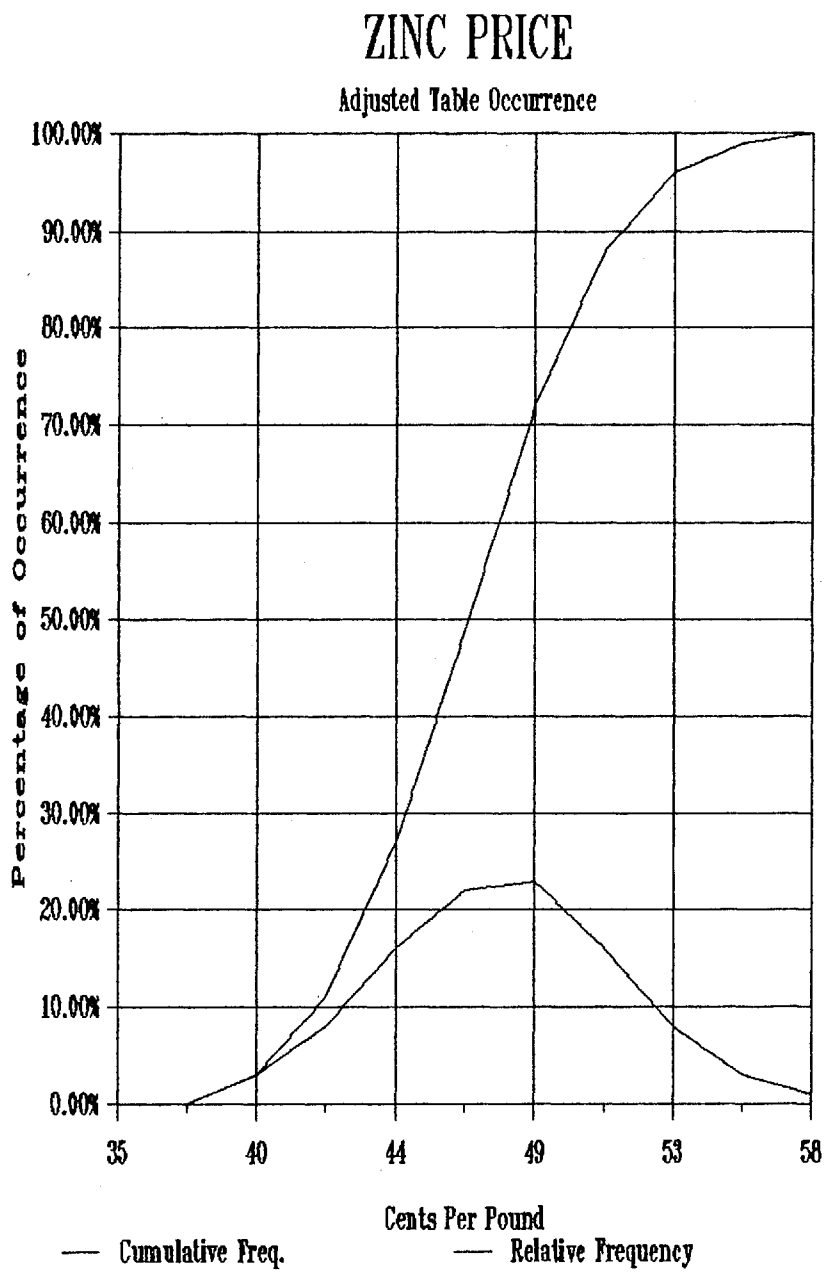
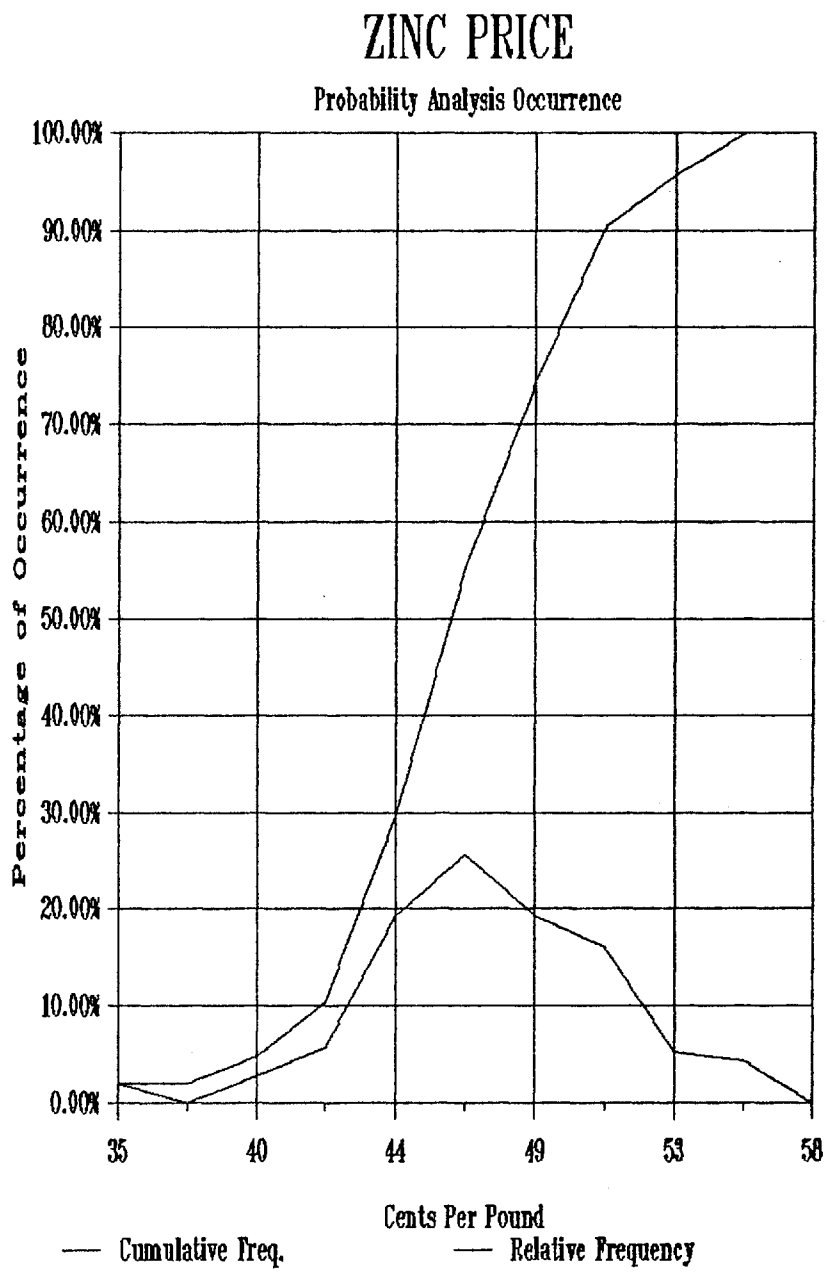


GRAPH - F3-J



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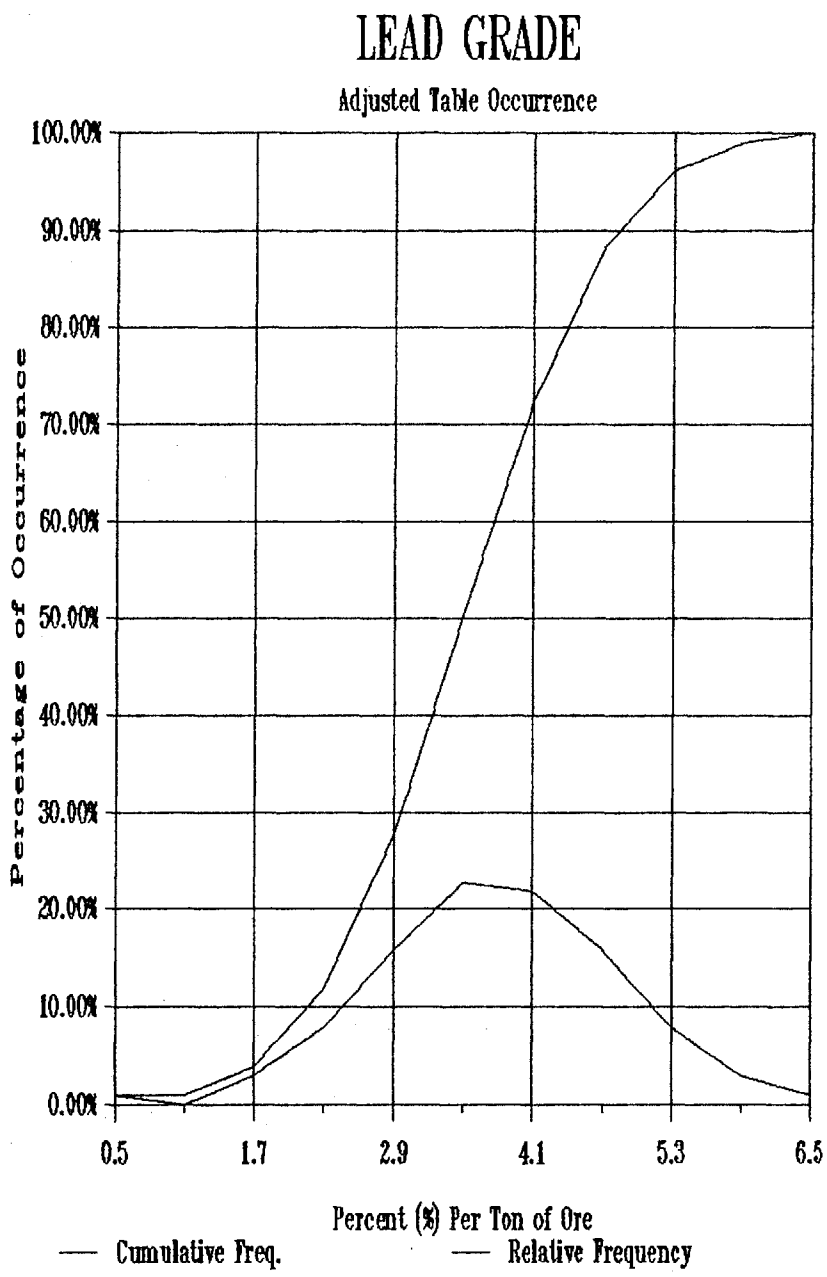

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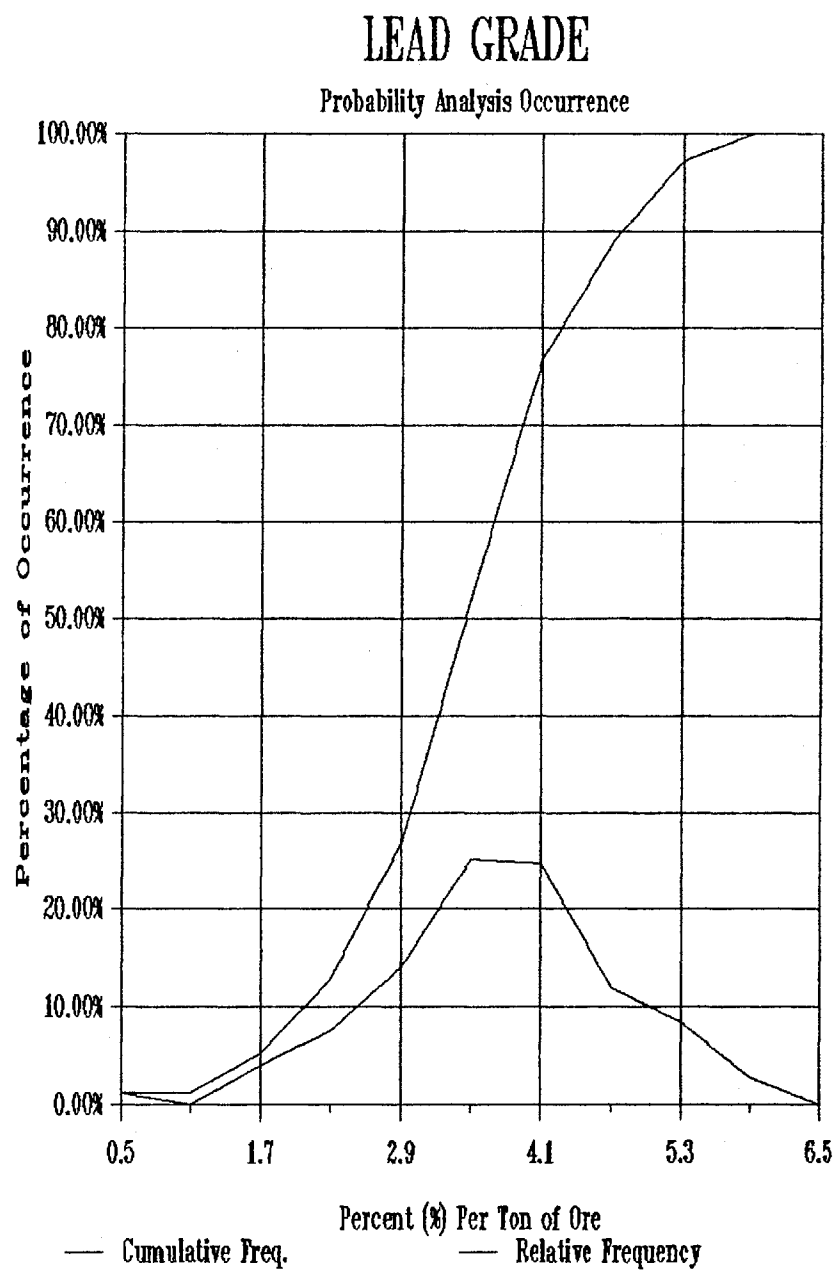

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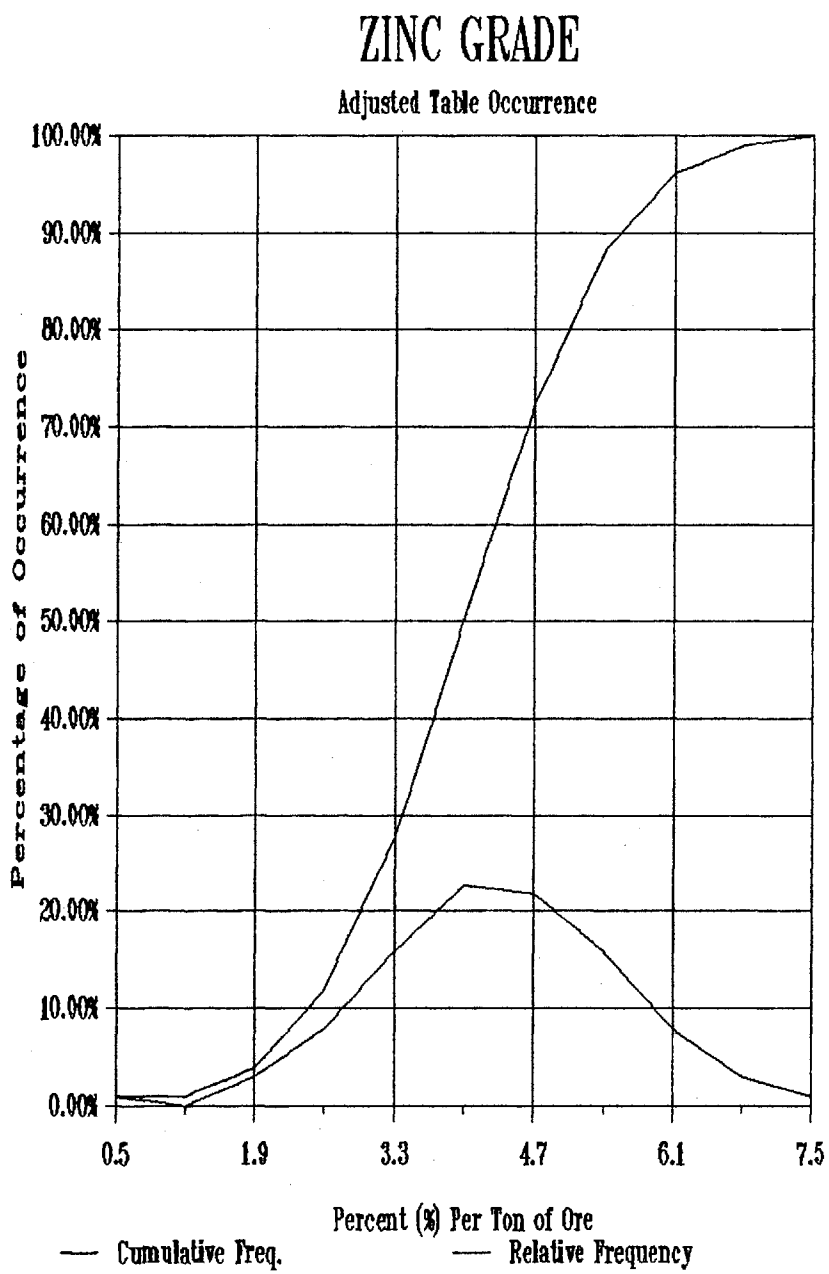

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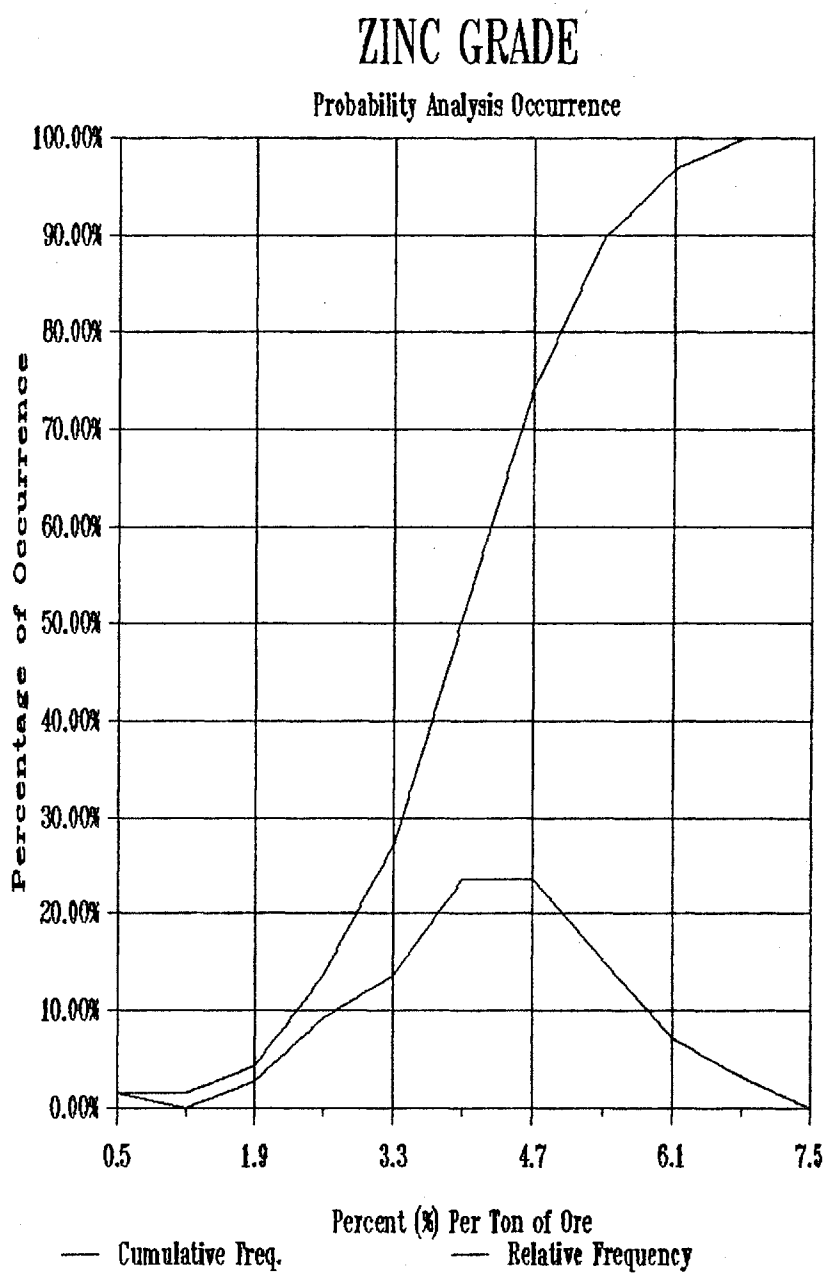
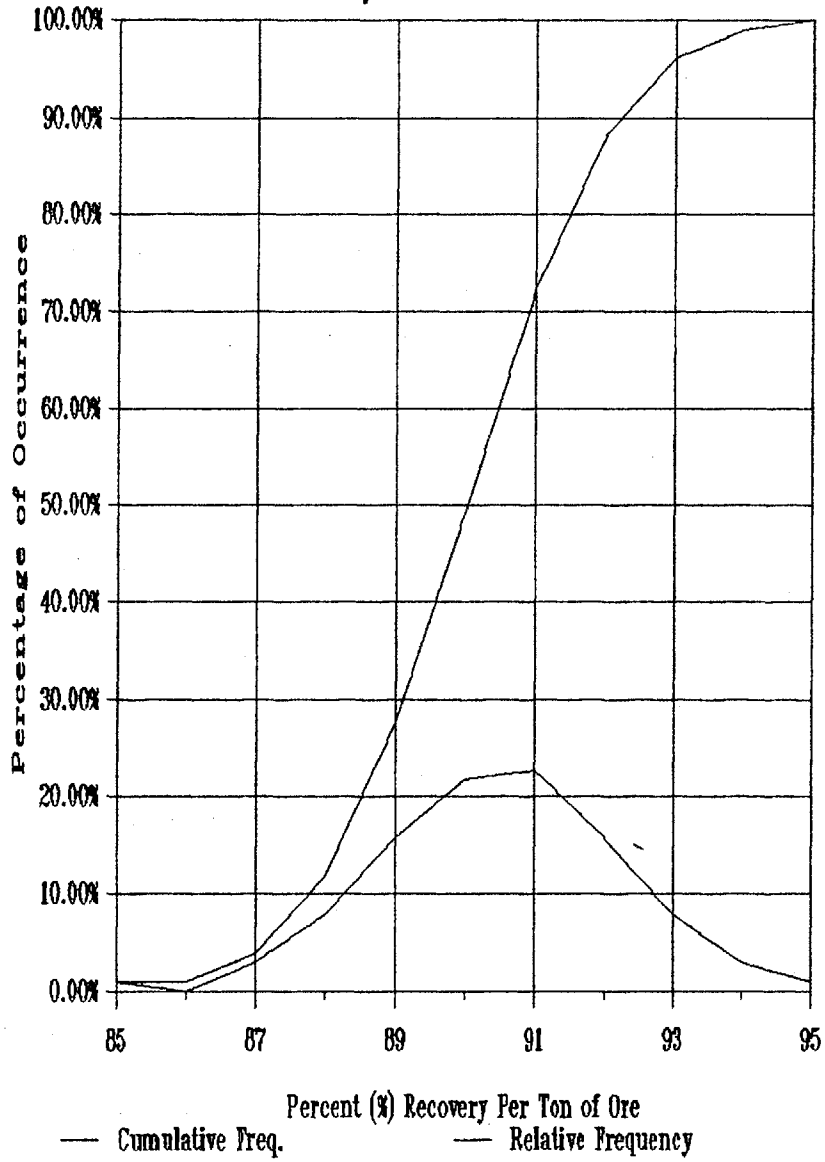


GRAPH - F4-L

METALS

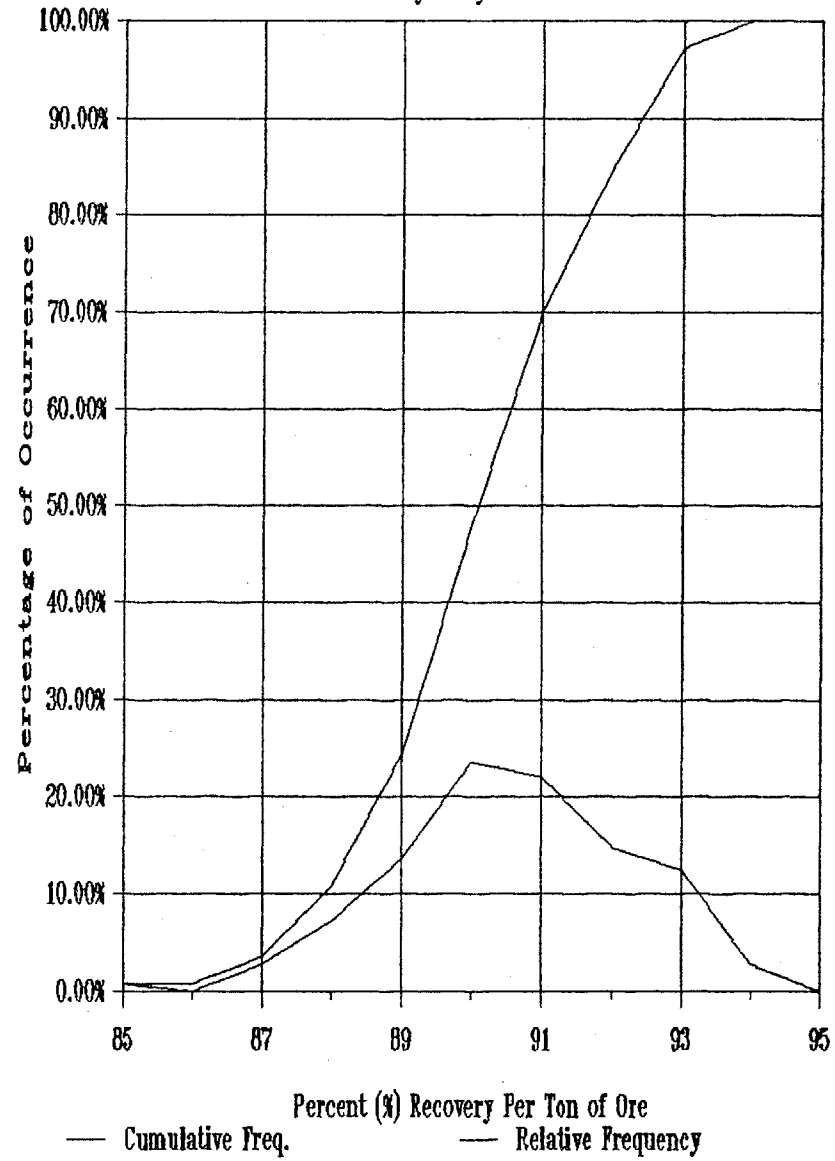
Adjusted Table Occurrence



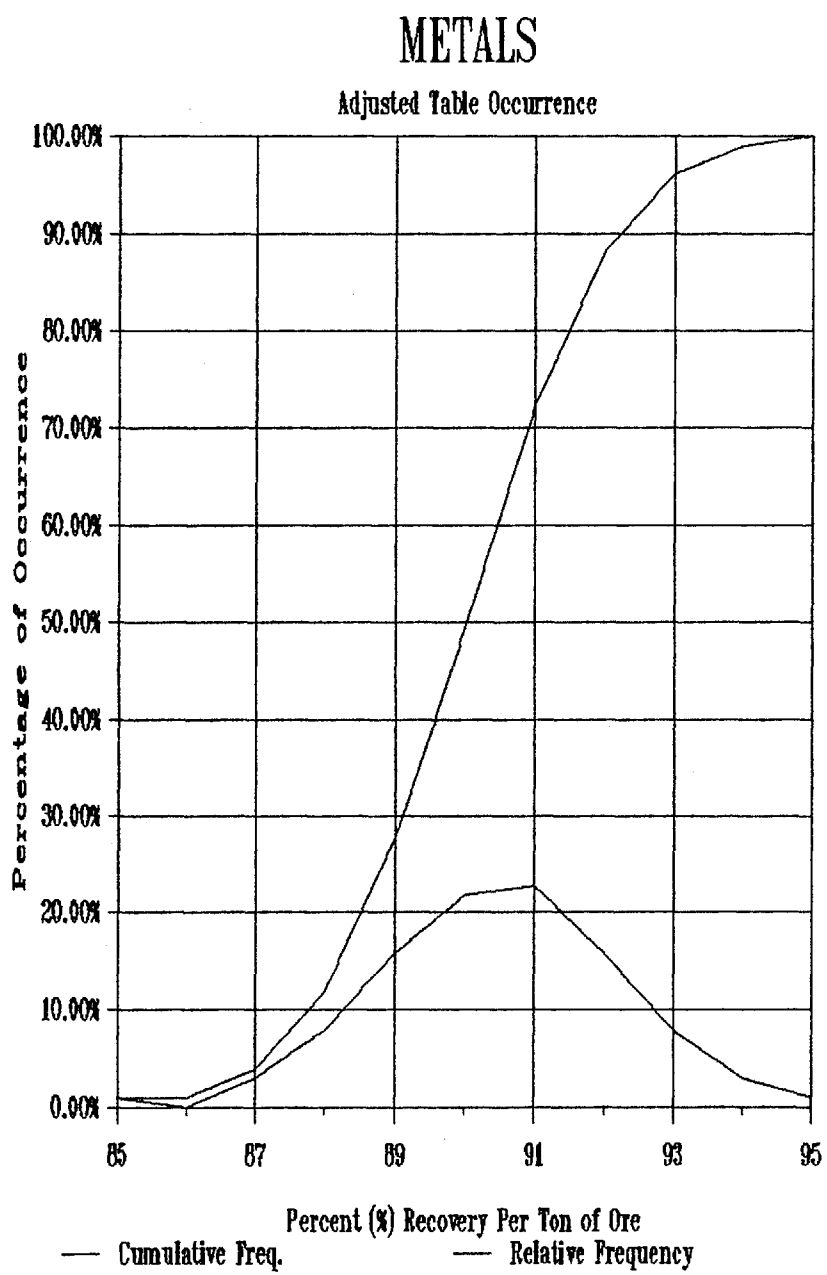
GRAPH - F3-E

LEAD RECOVERY

Probability Analysis Occurrence



GRAPH - F4-M



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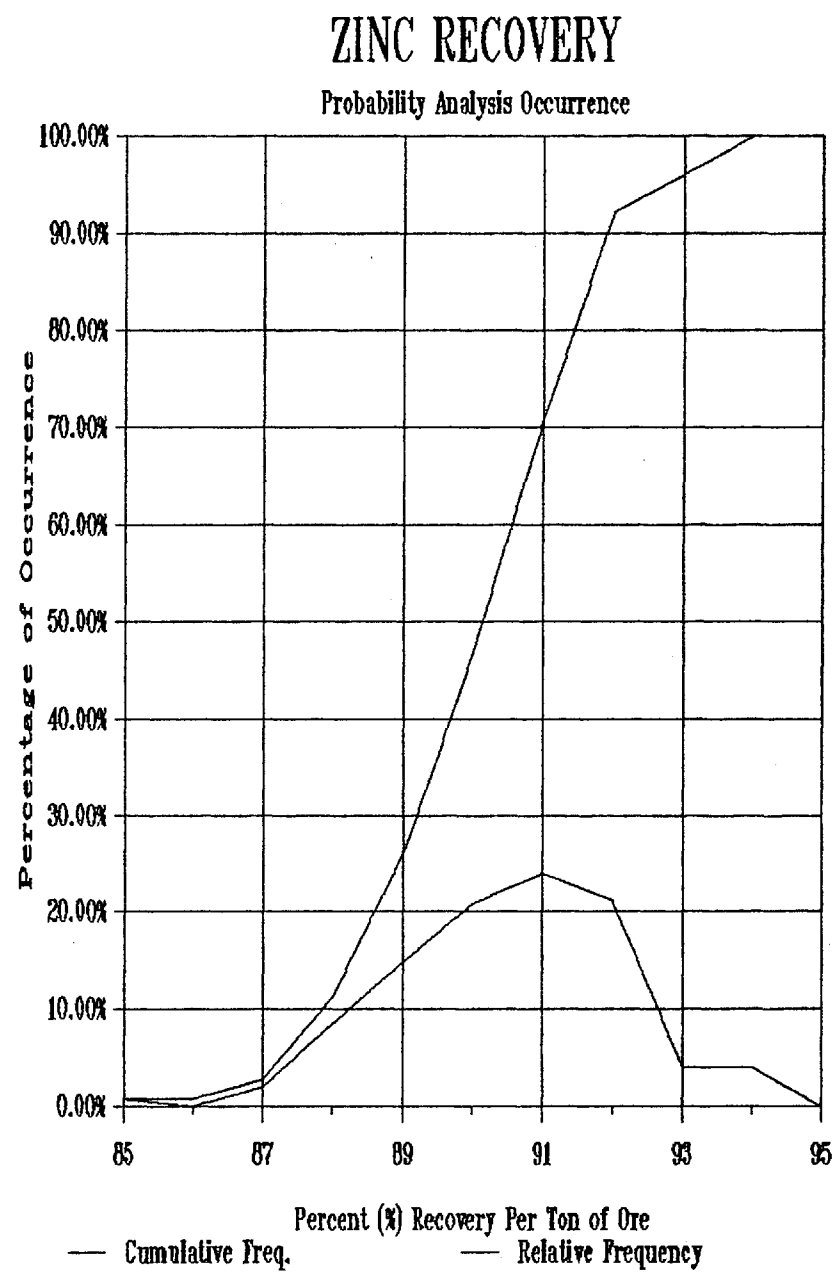

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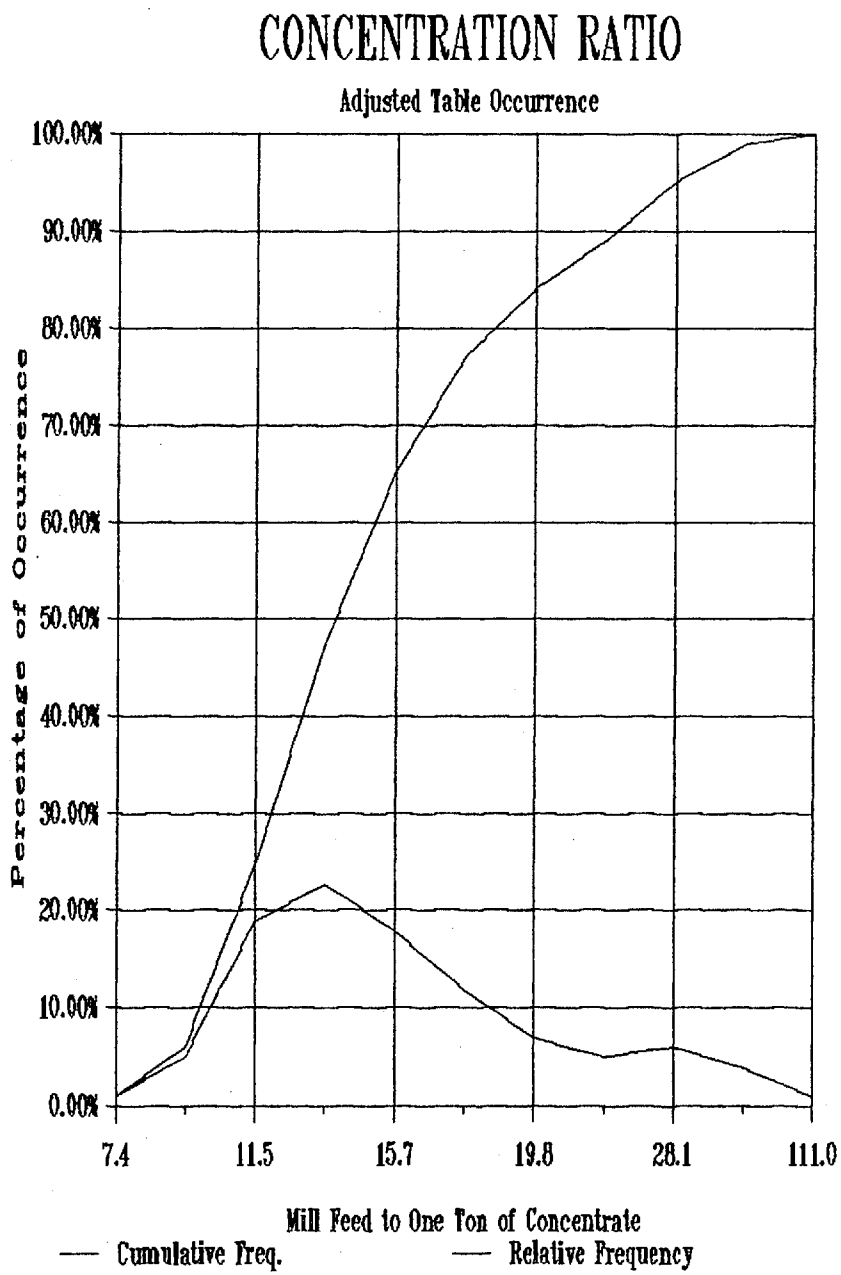
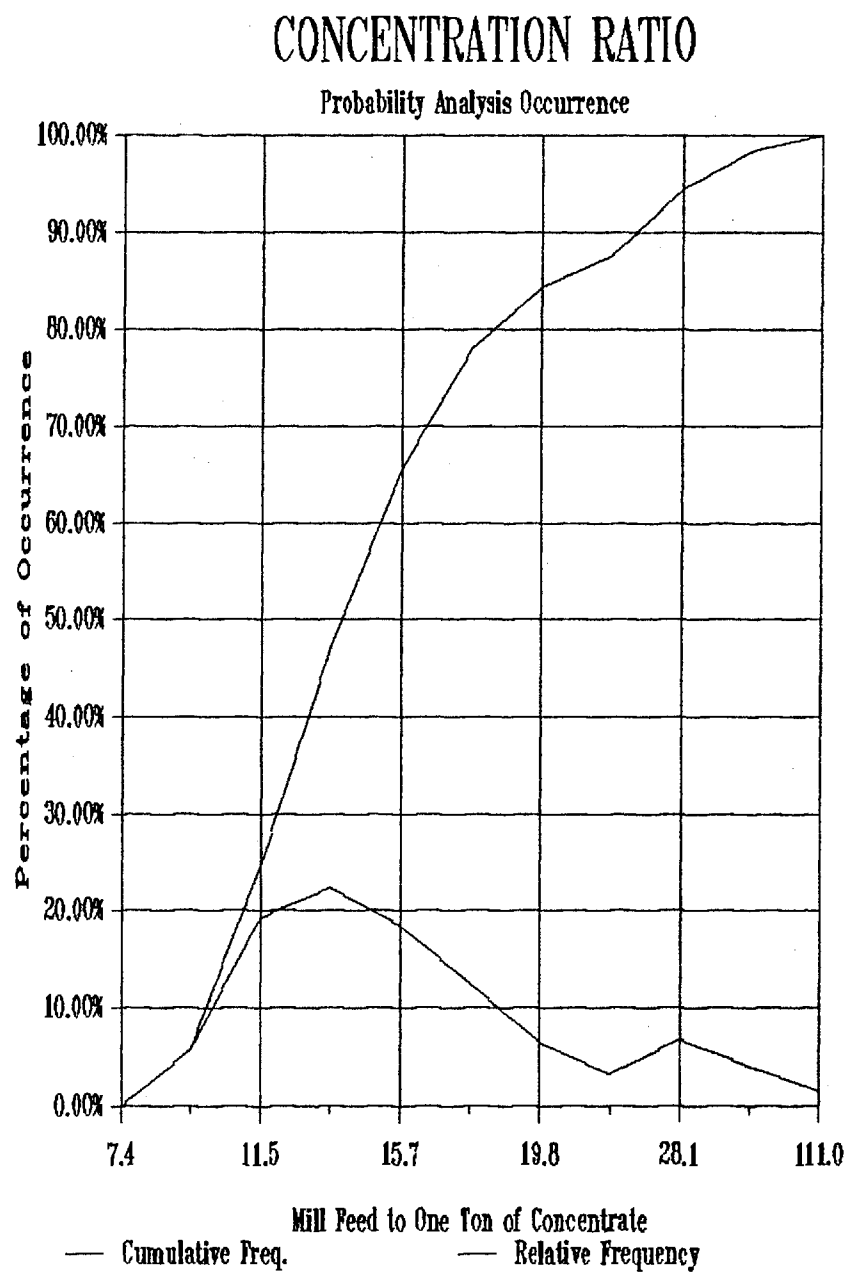


GRAPH - F3-O



GRAPH - F4-O

TABLE F4-A

GOLD PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$374.57	51	$355.48	101	$323.25	151	$355.48	201	$380.23
2	$313.51	52	$323.25	102	$310.93	152	$355.48	202	$356.33
3	$297.16	53	$402.34	103	$319.21	153	$249.40	203	$347.35
4	$321.28	54	$315.90	104	$334.66	154	$377.26	204	$359.84
5	$416.30	55	$333.01	105	$402.34	155	$313.51	205	$337.08
6	$344.19	56	$314.72	106	$380.23	156	$374.57	206	$332.17
7	$284.47	57	$361.67	107	$374.57	157	$394.95	207	$361.67
8	$402.34	58	$357.19	108	$344.19	158	$387.44	208	$337.08
9	$317.04	59	$343.41	109	$364.54	159	$361.67	209	$325.15
10	$312.25	60	$356.33	110	$363.56	160	$284.47	210	$322.27
11	$303.25	61	$364.54	111	$317.04	161	$338.68	211	$344.98
12	$319.21	62	$363.56	112	$351.34	162	$355.48	212	$369.78
13	$383.57	63	$303.25	113	$325.15	163	$353.81	213	$337.08
14	$377.26	64	$297.16	114	$361.67	164	$375.88	214	$350.54
15	$332.17	65	$365.54	115	$354.64	165	$336.28	215	$345.77
16	$333.01	66	$335.47	116	$325.15	166	$325.15	216	$361.67
17	$369.78	67	$342.62	117	$344.98	167	$341.05	217	$270.51
18	$352.98	68	$288.55	118	$299.38	168	$314.72	218	$380.23
19	$306.59	69	$357.19	119	$361.67	169	$294.69	219	$348.93
20	$291.87	70	$383.57	120	$338.68	170	$330.48	220	$328.75
21	$372.09	71	$321.28	121	$354.64	171	$288.55	221	$344.19
22	$358.95	72	$339.47	122	$328.75	172	$310.93	222	$380.23
23	$394.95	73	$359.84	123	$322.27	173	$372.09	223	$359.84
24	$308.11	74	$364.54	124	$317.04	174	$348.93	224	$402.34
25	$312.25	75	$310.93	125	$303.25	175	$337.08	225	$350.54
26	$348.93	76	$337.88	126	$315.90	176	$308.11	226	$349.73
27	$357.19	77	$323.25	127	$326.98	177	$334.66	227	$320.26
28	$364.54	78	$359.84	128	$394.95	178	$402.34	228	$326.07
29	$323.25	79	$326.07	129	$348.93	179	$385.42	229	$318.14
30	$270.51	80	$331.33	130	$360.75	180	$365.54	230	$322.27
31	$329.62	81	$294.69	131	$314.72	181	$360.75	231	$362.61
32	$324.21	82	$364.54	132	$326.98	182	$368.68	232	$314.72
33	$370.92	83	$416.30	133	$249.40	183	$301.39	233	$347.35
34	$279.06	84	$374.57	134	$304.98	184	$385.42	234	$333.83
35	$322.27	85	$288.55	135	$341.05	185	$398.26	235	$270.51
36	$329.62	86	$310.93	136	$308.11	186	$347.35	236	$363.56
37	$364.54	87	$368.68	137	$350.54	187	$366.56	237	$291.87
38	$375.88	88	$368.68	138	$385.42	188	$360.75	238	$362.61
39	$249.40	89	$333.83	139	$402.34	189	$349.73	239	$310.93
40	$370.92	90	$337.08	140	$349.73	190	$407.76	240	$333.83
41	$324.21	91	$345.77	141	$366.56	191	$279.06	241	$335.47
42	$270.51	92	$327.87	142	$377.26	192	$345.77	242	$326.98
43	$335.47	93	$345.77	143	$363.56	193	$325.15	243	$339.47
44	$373.31	94	$326.98	144	$284.47	194	$303.25	244	$359.84
45	$372.09	95	$323.25	145	$320.26	195	$310.93	245	$346.55
46	$321.28	96	$368.68	146	$398.26	196	$270.51	246	$330.48
47	$344.19	97	$314.72	147	$306.59	197	$407.76	247	$341.83
48	$366.56	98	$368.68	148	$301.39	198	$312.25	248	$349.73
49	$297.16	99	$327.87	149	$385.42	199	$361.67	249	$357.19
50	$347.35	100	$377.26	150	$339.47	200	$284.47	250	$332.17

TABLE F4-B

SILVER PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$8.35	51	$6.64	101	$9.21	151	$7.66	201	$8.70
2	$8.35	52	$7.13	102	$7.13	152	$7.63	202	$7.66
3	$6.68	53	$8.09	103	$9.80	153	$7.13	203	$6.24
4	$7.75	54	$8.99	104	$7.63	154	$8.92	204	$5.55
5	$9.64	55	$7.44	105	$8.02	155	$6.89	205	$6.14
6	$7.22	56	$8.09	106	$7.29	156	$7.47	206	$7.69
7	$8.56	57	$7.03	107	$7.50	157	$7.75	207	$8.60
8	$7.98	58	$9.51	108	$10.35	158	$6.02	208	$7.66
9	$6.24	59	$7.25	109	$7.10	159	$8.81	209	$7.82
10	$5.82	60	$6.56	110	$7.57	160	$8.65	210	$8.92
11	$8.31	61	$6.39	111	$7.60	161	$6.24	211	$6.86
12	$9.13	62	$7.44	112	$8.35	162	$5.96	212	$8.47
13	$8.19	63	$7.63	113	$7.98	163	$9.21	213	$5.96
14	$8.05	64	$5.44	114	$8.56	164	$8.70	214	$9.13
15	$7.72	65	$8.47	115	$8.47	165	$9.64	215	$7.79
16	$7.13	66	$8.02	116	$6.24	166	$6.72	216	$6.79
17	$6.64	67	$7.75	117	$7.06	167	$7.44	217	$8.31
18	$7.10	68	$7.32	118	$8.16	168	$5.65	218	$6.96
19	$4.93	69	$4.93	119	$6.60	169	$5.89	219	$9.30
20	$7.13	70	$9.21	120	$8.23	170	$6.72	220	$8.81
21	$7.79	71	$7.57	121	$7.82	171	$8.47	221	$8.99
22	$7.72	72	$9.80	122	$9.06	172	$6.89	222	$5.65
23	$5.55	73	$10.01	123	$6.02	173	$9.30	223	$8.39
24	$7.38	74	$9.13	124	$6.72	174	$5.31	224	$7.63
25	$8.99	75	$7.82	125	$8.31	175	$6.86	225	$6.08
26	$10.01	76	$7.19	126	$6.82	176	$7.92	226	$6.79
27	$9.39	77	$5.31	127	$9.21	177	$5.65	227	$8.86
28	$7.22	78	$7.66	128	$8.65	178	$8.23	228	$7.98
29	$7.38	79	$6.82	129	$7.16	179	$8.43	229	$6.93
30	$7.44	80	$8.56	130	$5.74	180	$6.89	230	$7.19
31	$6.08	81	$8.51	131	$7.06	181	$7.06	231	$6.48
32	$6.75	82	$5.31	132	$8.09	182	$8.43	232	$8.19
33	$9.64	83	$6.96	133	$7.16	183	$6.34	233	$7.79
34	$6.72	84	$7.41	134	$8.02	184	$9.06	234	$5.96
35	$7.06	85	$6.02	135	$7.32	185	$9.39	235	$4.60
36	$7.00	86	$8.39	136	$7.22	186	$8.81	236	$7.57
37	$6.43	87	$8.16	137	$8.92	187	$8.31	237	$6.86
38	$8.35	88	$9.39	138	$8.23	188	$6.43	238	$6.82
39	$7.95	89	$5.96	139	$7.19	189	$6.14	239	$8.39
40	$6.29	90	$7.22	140	$8.47	190	$8.92	240	$6.19
41	$6.86	91	$7.98	141	$6.34	191	$10.01	241	$5.44
42	$7.85	92	$4.93	142	$6.39	192	$6.60	242	$6.24
43	$6.39	93	$6.02	143	$8.16	193	$7.69	243	$6.48
44	$7.63	94	$9.21	144	$8.86	194	$4.60	244	$8.81
45	$7.95	95	$7.95	145	$9.21	195	$7.75	245	$8.09
46	$8.43	96	$8.27	146	$6.48	196	$6.89	246	$5.96
47	$7.41	97	$8.39	147	$5.89	197	$5.96	247	$6.89
48	$7.53	98	$7.29	148	$9.39	198	$8.05	248	$6.48
49	$8.60	99	$7.25	149	$9.51	199	$7.69	249	$6.93
50	$7.13	100	$7.16	150	$6.48	200	$3.77	250	$8.60

TABLE F4-C

GOLD GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	0.110	51	0.135	101	0.129	151	0.159	201	0.125
2	0.067	52	0.131	102	0.069	152	0.105	202	0.127
3	0.110	53	0.146	103	0.130	153	0.111	203	0.093
4	0.145	54	0.129	104	0.099	154	0.146	204	0.173
5	0.119	55	0.118	105	0.148	155	0.125	205	0.157
6	0.088	56	0.079	106	0.149	156	0.089	206	0.159
7	0.173	57	0.082	107	0.106	157	0.136	207	0.168
8	0.093	58	0.081	108	0.138	158	0.151	208	0.146
9	0.159	59	0.067	109	0.173	159	0.104	209	0.063
10	0.084	60	0.047	110	0.109	160	0.077	210	0.092
11	0.052	61	0.155	111	0.072	161	0.102	211	0.075
12	0.100	62	0.079	112	0.110	162	0.129	212	0.157
13	0.055	63	0.108	113	0.143	163	0.125	213	0.085
14	0.101	64	0.095	114	0.118	164	0.102	214	0.126
15	0.159	65	0.142	115	0.083	165	0.105	215	0.118
16	0.061	66	0.097	116	0.131	166	0.090	216	0.126
17	0.141	67	0.083	117	0.116	167	0.069	217	0.129
18	0.104	68	0.097	118	0.067	168	0.113	218	0.088
19	0.067	69	0.055	119	0.104	169	0.089	219	0.090
20	0.126	70	0.119	120	0.052	170	0.126	220	0.157
21	0.095	71	0.010	121	0.111	171	0.127	221	0.074
22	0.085	72	0.120	122	0.075	172	0.095	222	0.102
23	0.090	73	0.155	123	0.131	173	0.104	223	0.101
24	0.128	74	0.065	124	0.081	174	0.098	224	0.123
25	0.153	75	0.141	125	0.086	175	0.124	225	0.094
26	0.162	76	0.155	126	0.074	176	0.139	226	0.137
27	0.101	77	0.188	127	0.097	177	0.138	227	0.102
28	0.165	78	0.082	128	0.082	178	0.165	228	0.077
29	0.072	79	0.149	129	0.118	179	0.107	229	0.097
30	0.173	80	0.089	130	0.131	180	0.086	230	0.093
31	0.127	81	0.074	131	0.130	181	0.107	231	0.052
32	0.104	82	0.118	132	0.097	182	0.097	232	0.173
33	0.146	83	0.122	133	0.126	183	0.141	233	0.116
34	0.168	84	0.159	134	0.142	184	0.077	234	0.067
35	0.121	85	0.105	135	0.118	185	0.132	235	0.088
36	0.102	86	0.078	136	0.078	186	0.130	236	0.146
37	0.079	87	0.141	137	0.141	187	0.126	237	0.117
38	0.141	88	0.106	138	0.117	188	0.096	238	0.118
39	0.155	89	0.086	139	0.155	189	0.088	239	0.089
40	0.104	90	0.065	140	0.105	190	0.107	240	0.146
41	0.104	91	0.100	141	0.119	191	0.091	241	0.083
42	0.127	92	0.119	142	0.100	192	0.139	242	0.103
43	0.112	93	0.069	143	0.151	193	0.138	243	0.113
44	0.090	94	0.131	144	0.081	194	0.086	244	0.085
45	0.081	95	0.113	145	0.151	195	0.058	245	0.113
46	0.010	96	0.103	146	0.149	196	0.145	246	0.108
47	0.123	97	0.155	147	0.188	197	0.110	247	0.135
48	0.165	98	0.136	148	0.126	198	0.159	248	0.112
49	0.093	99	0.131	149	0.131	199	0.132	249	0.159
50	0.099	100	0.077	150	0.188	200	0.178	250	0.159

TABLE F4-D

SILVER GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	3.785	51	4.294	101	5.709	151	3.749	201	4.144
2	2.861	52	2.581	102	5.814	152	3.987	202	3.638
3	4.647	53	4.559	103	7.214	153	3.987	203	5.995
4	4.981	54	3.638	104	5.441	154	5.251	204	4.647
5	4.082	55	4.383	105	4.706	155	5.079	205	5.613
6	2.104	56	5.180	106	5.441	156	3.854	206	3.921
7	5.709	57	3.854	107	4.529	157	3.340	207	5.871
8	3.987	58	4.676	108	5.568	158	5.482	208	3.676
9	5.013	59	4.676	109	3.785	159	2.861	209	3.820
10	3.713	60	3.921	110	3.954	160	4.856	210	4.706
11	1.786	61	4.019	111	5.441	161	3.854	211	5.324
12	6.543	62	2.581	112	3.749	162	4.765	212	2.581
13	4.676	63	3.518	113	4.647	163	3.291	213	4.736
14	3.387	64	4.082	114	3.129	164	3.005	214	6.222
15	4.529	65	3.749	115	4.617	165	4.647	215	4.529
16	2.936	66	4.019	116	5.995	166	2.306	216	1.000
17	4.826	67	3.129	117	3.785	167	5.931	217	5.613
18	4.353	68	4.918	118	3.069	168	5.362	218	4.676
19	2.861	69	6.064	119	5.287	169	2.686	219	4.050
20	4.500	70	4.113	120	5.401	170	3.749	220	4.204
21	5.046	71	3.820	121	4.559	171	4.500	221	4.144
22	1.000	72	3.518	122	4.353	172	6.222	222	5.760
23	5.046	73	4.174	123	4.887	173	3.340	223	5.287
24	3.638	74	3.854	124	3.432	174	5.180	224	5.362
25	5.814	75	6.139	125	4.950	175	4.441	225	5.568
26	6.896	76	3.987	126	4.617	176	3.005	226	4.500
27	4.647	77	2.581	127	5.013	177	4.353	227	4.353
28	4.706	78	4.529	128	4.918	178	2.686	228	5.995
29	4.588	79	4.500	129	3.785	179	4.647	229	2.104
30	5.524	80	4.676	130	2.686	180	2.861	230	4.174
31	3.291	81	4.441	131	4.765	181	5.441	231	4.264
32	2.686	82	5.112	132	6.419	182	3.476	232	5.660
33	3.749	83	5.287	133	3.638	183	5.046	233	2.778
34	3.340	84	5.046	134	6.139	184	6.064	234	5.079
35	3.599	85	4.647	135	4.082	185	3.749	235	5.931
36	4.441	86	5.362	136	3.291	186	3.820	236	5.814
37	6.139	87	4.950	137	4.856	187	2.936	237	3.954
38	6.139	88	5.251	138	3.820	188	5.814	238	5.568
39	5.251	89	4.019	139	3.559	189	3.676	239	3.954
40	5.871	90	5.931	140	4.559	190	5.251	240	4.559
41	4.765	91	4.264	141	5.524	191	3.785	241	4.113
42	3.785	92	2.104	142	4.676	192	4.500	242	4.353
43	6.064	93	3.559	143	4.856	193	3.888	243	4.353
44	4.617	94	4.383	144	4.826	194	3.676	244	4.765
45	4.918	95	4.617	145	4.113	195	6.314	245	2.778
46	4.887	96	2.581	146	4.235	196	4.765	246	4.441
47	3.676	97	5.362	147	3.921	197	3.954	247	3.713
48	1.000	98	3.291	148	3.518	198	5.046	248	3.129
49	5.013	99	5.251	149	3.432	199	2.778	249	4.588
50	4.918	100	4.887	150	5.287	200	3.387	250	2.778

TABLE F4-E

TOTAL GOLD RECOVERY

Percent per Ton

Computer Generated Random Occurence Selection

1	89.45%	51	92.92%	101	90.00%	151	90.42%	201	89.13%
2	87.08%	52	89.92%	102	91.73%	152	91.34%	202	89.49%
3	89.58%	53	91.88%	103	88.34%	153	89.83%	203	89.49%
4	88.93%	54	88.71%	104	90.29%	154	90.17%	204	91.29%
5	90.25%	55	88.12%	105	87.86%	155	88.66%	205	90.78%
6	87.08%	56	89.58%	106	89.22%	156	90.42%	206	89.96%
7	92.74%	57	90.73%	107	87.26%	157	89.75%	207	90.47%
8	90.87%	58	88.34%	108	87.41%	158	91.29%	208	88.12%
9	90.42%	59	89.36%	109	91.02%	159	90.69%	209	90.08%
10	90.04%	60	90.51%	110	91.07%	160	91.59%	210	89.08%
11	90.13%	61	93.88%	111	91.29%	161	89.45%	211	90.97%
12	90.83%	62	91.46%	112	88.71%	162	89.79%	212	90.00%
13	90.73%	63	89.49%	113	91.40%	163	93.88%	213	89.87%
14	89.66%	64	91.07%	114	89.31%	164	89.22%	214	88.93%
15	92.46%	65	88.93%	115	89.45%	165	92.23%	215	93.88%
16	91.66%	66	89.49%	116	91.96%	166	87.08%	216	85.00%
17	88.41%	67	89.08%	117	93.88%	167	89.92%	217	89.83%
18	86.12%	68	90.55%	118	90.42%	168	88.54%	218	88.04%
19	88.60%	69	88.12%	119	88.04%	169	93.88%	219	93.42%
20	93.88%	70	89.36%	120	88.41%	170	89.03%	220	93.42%
21	91.23%	71	89.40%	121	88.60%	171	90.78%	221	90.64%
22	91.12%	72	89.49%	122	88.88%	172	91.29%	222	91.80%
23	90.51%	73	90.08%	123	90.34%	173	91.23%	223	89.92%
24	88.88%	74	89.87%	124	89.71%	174	88.12%	224	87.08%
25	89.58%	75	88.04%	125	90.47%	175	89.53%	225	89.83%
26	89.45%	76	89.36%	126	88.98%	176	90.92%	226	90.92%
27	91.07%	77	90.47%	127	90.17%	177	90.69%	227	90.08%
28	93.42%	78	90.83%	128	88.98%	178	91.73%	228	87.26%
29	88.66%	79	89.49%	129	90.55%	179	90.60%	229	90.25%
30	91.80%	80	88.20%	130	91.96%	180	91.59%	230	88.27%
31	89.36%	81	91.40%	131	87.08%	181	89.27%	231	89.62%
32	91.29%	82	88.98%	132	90.17%	182	92.04%	232	87.86%
33	90.55%	83	88.47%	133	92.46%	183	90.97%	233	91.80%
34	89.71%	84	90.47%	134	90.34%	184	88.77%	234	92.14%
35	89.96%	85	91.23%	135	89.45%	185	90.92%	235	90.73%
36	90.00%	86	90.73%	136	89.31%	186	85.00%	236	90.21%
37	89.17%	87	91.40%	137	89.66%	187	88.47%	237	90.17%
38	90.34%	88	91.88%	138	87.77%	188	89.03%	238	92.74%
39	89.79%	89	89.75%	139	87.54%	189	92.74%	239	87.96%
40	88.88%	90	90.51%	140	87.08%	190	88.20%	240	85.00%
41	88.54%	91	91.40%	141	89.03%	191	91.46%	241	85.00%
42	86.87%	92	88.98%	142	89.49%	192	90.34%	242	90.13%
43	91.29%	93	92.92%	143	92.59%	193	89.92%	243	91.18%
44	89.53%	94	87.96%	144	88.82%	194	90.25%	244	89.17%
45	89.66%	95	92.74%	145	92.34%	195	90.64%	245	92.23%
46	91.18%	96	89.58%	146	90.83%	196	93.88%	246	87.86%
47	88.98%	97	91.18%	147	86.58%	197	92.92%	247	92.34%
48	90.04%	98	89.40%	148	91.34%	198	91.02%	248	90.38%
49	89.71%	99	89.17%	149	86.12%	199	93.88%	249	88.60%
50	93.88%	100	88.20%	150	90.00%	200	90.47%	250	89.66%

TABLE F4-EL

GOLD RECOVERY - LEAD CONCENTRATE

Percent of Total Gold Recovery

Computer Generated Random Occurence Selection

1	75.29%	51	81.01%	101	81.69%	151	87.83%	201	83.50%
2	82.75%	52	89.84%	102	75.07%	152	67.46%	202	81.35%
3	73.09%	53	71.82%	103	78.65%	153	95.51%	203	80.33%
4	79.16%	54	79.83%	104	90.97%	154	83.31%	204	77.25%
5	84.93%	55	85.38%	105	85.61%	155	72.17%	205	86.10%
6	74.62%	56	80.00%	106	82.04%	156	86.10%	206	72.49%
7	74.15%	57	76.88%	107	71.82%	157	75.71%	207	75.29%
8	88.18%	58	81.18%	108	79.83%	158	76.69%	208	78.99%
9	83.89%	59	82.93%	109	90.97%	159	82.93%	209	82.93%
10	83.89%	60	80.67%	110	69.03%	160	76.31%	210	69.63%
11	93.69%	61	70.63%	111	74.62%	161	87.20%	211	76.11%
12	73.37%	62	80.84%	112	70.63%	162	73.64%	212	68.33%
13	86.36%	63	69.03%	113	67.46%	163	82.21%	213	79.83%
14	92.54%	64	92.54%	114	81.35%	164	82.04%	214	83.12%
15	78.14%	65	77.79%	115	86.36%	165	67.46%	215	95.51%
16	73.64%	66	79.50%	116	87.51%	166	81.35%	216	81.18%
17	70.63%	67	70.16%	117	76.11%	167	77.79%	217	84.71%
18	67.46%	68	92.54%	118	80.17%	168	75.50%	218	80.67%
19	80.67%	69	79.16%	119	77.25%	169	75.50%	219	60.00%
20	71.82%	70	82.75%	120	76.88%	170	71.06%	220	83.69%
21	83.69%	71	70.63%	121	74.39%	171	80.33%	221	74.85%
22	74.39%	72	92.54%	122	78.14%	172	86.63%	222	79.16%
23	85.15%	73	85.61%	123	77.61%	173	76.11%	223	73.64%
24	78.31%	74	82.57%	124	71.06%	174	79.83%	224	78.31%
25	74.85%	75	83.50%	125	80.50%	175	89.84%	225	87.51%
26	68.33%	76	82.75%	126	67.46%	176	76.88%	226	79.33%
27	84.29%	77	73.37%	127	84.29%	177	71.46%	227	82.04%
28	84.09%	78	75.50%	128	71.82%	178	86.91%	228	85.85%
29	77.43%	79	85.61%	129	75.71%	179	83.89%	229	90.97%
30	77.25%	80	90.37%	130	79.67%	180	87.83%	230	87.51%
31	76.31%	81	80.33%	131	82.04%	181	91.67%	231	83.50%
32	66.31%	82	80.33%	132	81.01%	182	79.50%	232	77.61%
33	71.06%	83	79.83%	133	82.21%	183	75.71%	233	90.97%
34	73.64%	84	66.31%	134	68.33%	184	90.97%	234	75.29%
35	80.50%	85	72.49%	135	77.43%	185	77.25%	235	69.03%
36	79.16%	86	84.71%	136	87.51%	186	88.54%	236	84.29%
37	82.93%	87	72.80%	137	72.17%	187	73.64%	237	82.04%
38	86.10%	88	76.69%	138	75.91%	188	74.39%	238	77.79%
39	86.63%	89	79.67%	139	80.84%	189	95.51%	239	80.50%
40	79.33%	90	80.33%	140	83.89%	190	90.97%	240	87.83%
41	81.69%	91	77.79%	141	79.83%	191	76.69%	241	89.84%
42	86.91%	92	79.83%	142	92.54%	192	81.01%	242	76.69%
43	86.36%	93	76.50%	143	70.63%	193	88.54%	243	75.29%
44	83.69%	94	81.86%	144	67.46%	194	82.93%	244	90.97%
45	82.04%	95	68.33%	145	83.89%	195	85.38%	245	72.80%
46	69.63%	96	80.00%	146	74.15%	196	74.62%	246	77.79%
47	77.61%	97	81.69%	147	70.16%	197	76.50%	247	81.01%
48	72.80%	98	70.63%	148	60.00%	198	77.61%	248	78.14%
49	83.69%	99	75.91%	149	69.63%	199	95.51%	249	84.09%
50	80.00%	100	80.17%	150	75.50%	200	81.35%	250	71.46%

TABLE F4-EZ

GOLD RECOVERY - ZINC CONCENTRATE

Percent of Total Gold Recovery

Computer Generated Random Occurence Selection

1	24.71%	51	18.99%	101	18.31%	151	12.17%	201	16.50%
2	17.25%	52	10.16%	102	24.93%	152	32.54%	202	18.65%
3	26.91%	53	28.18%	103	21.35%	153	4.49%	203	19.67%
4	20.84%	54	20.17%	104	9.03%	154	16.69%	204	22.75%
5	15.07%	55	14.62%	105	14.39%	155	27.83%	205	13.90%
6	25.38%	56	20.00%	106	17.96%	156	13.90%	206	27.51%
7	25.85%	57	23.12%	107	28.18%	157	24.29%	207	24.71%
8	11.82%	58	18.82%	108	20.17%	158	23.31%	208	21.01%
9	16.11%	59	17.07%	109	9.03%	159	17.07%	209	17.07%
10	16.11%	60	19.33%	110	30.97%	160	23.69%	210	30.37%
11	6.31%	61	29.37%	111	25.38%	161	12.80%	211	23.89%
12	26.63%	62	19.16%	112	29.37%	162	26.36%	212	31.67%
13	13.64%	63	30.97%	113	32.54%	163	17.79%	213	20.17%
14	7.46%	64	7.46%	114	18.65%	164	17.96%	214	16.88%
15	21.86%	65	22.21%	115	13.64%	165	32.54%	215	4.49%
16	26.36%	66	20.50%	116	12.49%	166	18.65%	216	18.82%
17	29.37%	67	29.84%	117	23.89%	167	22.21%	217	15.29%
18	32.54%	68	7.46%	118	19.83%	168	24.50%	218	19.33%
19	19.33%	69	20.84%	119	22.75%	169	24.50%	219	40.00%
20	28.18%	70	17.25%	120	23.12%	170	28.94%	220	16.31%
21	16.31%	71	29.37%	121	25.61%	171	19.67%	221	25.15%
22	25.61%	72	7.46%	122	21.86%	172	13.37%	222	20.84%
23	14.85%	73	14.39%	123	22.39%	173	23.89%	223	26.36%
24	21.69%	74	17.43%	124	28.94%	174	20.17%	224	21.69%
25	25.15%	75	16.50%	125	19.50%	175	10.16%	225	12.49%
26	31.67%	76	17.25%	126	32.54%	176	23.12%	226	20.67%
27	15.71%	77	26.63%	127	15.71%	177	28.54%	227	17.96%
28	15.91%	78	24.50%	128	28.18%	178	13.09%	228	14.15%
29	22.57%	79	14.39%	129	24.29%	179	16.11%	229	9.03%
30	22.75%	80	9.63%	130	20.33%	180	12.17%	230	12.49%
31	23.69%	81	19.67%	131	17.96%	181	8.33%	231	16.50%
32	33.69%	82	19.67%	132	18.99%	182	20.50%	232	22.39%
33	28.94%	83	20.17%	133	17.79%	183	24.29%	233	9.03%
34	26.36%	84	33.69%	134	31.67%	184	9.03%	234	24.71%
35	19.50%	85	27.51%	135	22.57%	185	22.75%	235	30.97%
36	20.84%	86	15.29%	136	12.49%	186	11.46%	236	15.71%
37	17.07%	87	27.20%	137	27.83%	187	26.36%	237	17.96%
38	13.90%	88	23.31%	138	24.09%	188	25.61%	238	22.21%
39	13.37%	89	20.33%	139	19.16%	189	4.49%	239	19.50%
40	20.67%	90	19.67%	140	16.11%	190	9.03%	240	12.17%
41	18.31%	91	22.21%	141	20.17%	191	23.31%	241	10.16%
42	13.09%	92	20.17%	142	7.46%	192	18.99%	242	23.31%
43	13.64%	93	23.50%	143	29.37%	193	11.46%	243	24.71%
44	16.31%	94	18.14%	144	32.54%	194	17.07%	244	9.03%
45	17.96%	95	31.67%	145	16.11%	195	14.62%	245	27.20%
46	30.37%	96	20.00%	146	25.85%	196	25.38%	246	22.21%
47	22.39%	97	18.31%	147	29.84%	197	23.50%	247	18.99%
48	27.20%	98	29.37%	148	40.00%	198	22.39%	248	21.86%
49	16.31%	99	24.09%	149	30.37%	199	4.49%	249	15.91%
50	20.00%	100	19.83%	150	24.50%	200	18.65%	250	28.54%

TABLE F4-F

TOTAL SILVER RECOVERY

Percent per Ton

Computer Generated Random Occurence Selection

1	90.34%	51	93.13%	101	88.20%	151	90.87%	201	90.47%
2	90.97%	52	88.66%	102	87.41%	152	89.40%	202	90.13%
3	92.34%	53	91.46%	103	90.04%	153	88.04%	203	86.58%
4	89.08%	54	85.00%	104	90.64%	154	91.34%	204	89.08%
5	89.62%	55	92.23%	105	91.80%	155	91.29%	205	90.17%
6	90.21%	56	90.87%	106	92.92%	156	89.22%	206	88.04%
7	91.59%	57	91.23%	107	89.45%	157	90.42%	207	91.18%
8	89.75%	58	92.92%	108	89.27%	158	85.00%	208	91.18%
9	91.40%	59	90.92%	109	87.41%	159	89.03%	209	88.04%
10	91.12%	60	88.98%	110	92.92%	160	91.02%	210	91.46%
11	91.12%	61	91.96%	111	91.34%	161	89.53%	211	91.96%
12	87.66%	62	92.59%	112	91.88%	162	88.71%	212	90.83%
13	93.13%	63	88.82%	113	88.77%	163	89.13%	213	87.96%
14	91.80%	64	87.86%	114	91.96%	164	86.58%	214	90.69%
15	90.21%	65	90.42%	115	92.14%	165	88.77%	215	91.02%
16	89.45%	66	90.97%	116	90.78%	166	90.00%	216	91.29%
17	89.62%	67	90.38%	117	87.96%	167	88.71%	217	89.92%
18	90.83%	68	90.47%	118	91.18%	168	91.80%	218	92.92%
19	89.22%	69	90.73%	119	87.08%	169	88.04%	219	92.46%
20	91.07%	70	89.45%	120	89.75%	170	88.12%	220	92.59%
21	91.80%	71	88.20%	121	90.78%	171	90.55%	221	89.92%
22	89.03%	72	89.87%	122	92.04%	172	88.41%	222	88.98%
23	89.79%	73	87.86%	123	91.66%	173	89.03%	223	89.36%
24	91.96%	74	88.47%	124	87.77%	174	90.73%	224	89.31%
25	89.17%	75	89.96%	125	88.47%	175	89.62%	225	90.38%
26	92.59%	76	90.47%	126	91.66%	176	88.20%	226	89.49%
27	90.13%	77	87.86%	127	88.34%	177	88.66%	227	87.77%
28	90.83%	78	90.87%	128	91.29%	178	92.34%	228	89.66%
29	85.00%	79	90.08%	129	87.77%	179	90.73%	229	90.21%
30	88.60%	80	88.66%	130	89.53%	180	88.47%	230	89.31%
31	89.75%	81	88.47%	131	87.86%	181	90.60%	231	90.08%
32	89.40%	82	91.02%	132	92.92%	182	92.34%	232	91.73%
33	89.58%	83	89.27%	133	88.34%	183	91.23%	233	89.36%
34	92.04%	84	90.83%	134	90.42%	184	93.13%	234	89.83%
35	89.03%	85	87.41%	135	87.08%	185	90.21%	235	88.82%
36	89.22%	86	89.27%	136	89.03%	186	93.42%	236	90.21%
37	88.98%	87	89.03%	137	89.45%	187	89.22%	237	88.71%
38	86.87%	88	90.97%	138	91.23%	188	89.71%	238	89.08%
39	89.62%	89	91.02%	139	90.34%	189	88.60%	239	88.12%
40	88.77%	90	91.29%	140	90.83%	190	90.64%	240	90.87%
41	90.34%	91	93.42%	141	92.92%	191	88.47%	241	90.69%
42	92.59%	92	88.82%	142	89.79%	192	91.12%	242	90.51%
43	89.83%	93	89.71%	143	90.38%	193	87.41%	243	89.13%
44	86.87%	94	90.64%	144	89.31%	194	90.97%	244	90.97%
45	90.29%	95	89.17%	145	89.62%	195	89.87%	245	89.53%
46	88.41%	96	89.58%	146	89.75%	196	89.31%	246	90.00%
47	88.98%	97	90.69%	147	88.47%	197	91.88%	247	87.77%
48	91.96%	98	90.97%	148	90.73%	198	88.82%	248	89.03%
49	91.02%	99	89.45%	149	89.87%	199	90.17%	249	89.58%
50	90.00%	100	90.64%	150	91.34%	200	91.96%	250	88.77%

TABLE F4-FL

SILVER RECOVERY - LEAD CONCENTRATE

Percent of Total Gold Recovery

Computer Generated Random Occurence Selection

1	88.94%	51	78.14%	101	81.18%	151	76.31%	201	80.00%
2	76.88%	52	69.63%	102	86.36%	152	81.69%	202	79.33%
3	79.33%	53	74.85%	103	73.90%	153	90.97%	203	75.71%
4	83.12%	54	82.75%	104	81.86%	154	76.11%	204	80.50%
5	88.18%	55	81.69%	105	78.48%	155	83.31%	205	89.84%
6	79.50%	56	81.86%	106	70.63%	156	77.79%	206	71.46%
7	74.85%	57	81.18%	107	76.69%	157	81.01%	207	81.69%
8	76.11%	58	80.67%	108	87.20%	158	79.83%	208	86.36%
9	71.82%	59	85.61%	109	81.01%	159	76.11%	209	95.51%
10	77.61%	60	83.31%	110	74.39%	160	89.37%	210	60.00%
11	87.20%	61	81.86%	111	80.00%	161	74.15%	211	79.33%
12	80.84%	62	90.37%	112	66.31%	162	81.35%	212	81.01%
13	78.48%	63	91.67%	113	71.82%	163	75.91%	213	66.31%
14	78.14%	64	86.10%	114	86.91%	164	67.46%	214	69.63%
15	77.43%	65	79.16%	115	95.51%	165	73.64%	215	76.69%
16	64.49%	66	80.00%	116	87.83%	166	79.50%	216	84.29%
17	88.18%	67	76.69%	117	78.48%	167	72.80%	217	82.04%
18	74.85%	68	85.38%	118	89.84%	168	84.29%	218	78.99%
19	88.94%	69	78.65%	119	75.29%	169	71.82%	219	87.51%
20	79.16%	70	72.49%	120	79.50%	170	76.88%	220	82.75%
21	88.18%	71	76.50%	121	68.33%	171	81.86%	221	82.04%
22	84.71%	72	82.04%	122	81.69%	172	76.88%	222	80.67%
23	60.00%	73	71.82%	123	92.54%	173	86.63%	223	71.06%
24	87.83%	74	95.51%	124	70.16%	174	80.33%	224	86.91%
25	60.00%	75	82.75%	125	87.20%	175	82.21%	225	72.49%
26	73.37%	76	81.69%	126	75.91%	176	76.50%	226	64.49%
27	77.25%	77	77.79%	127	73.09%	177	79.33%	227	74.62%
28	81.69%	78	79.67%	128	74.62%	178	84.09%	228	70.63%
29	70.16%	79	77.43%	129	90.97%	179	78.82%	229	79.67%
30	86.36%	80	75.71%	130	81.35%	180	79.50%	230	84.71%
31	88.54%	81	76.50%	131	95.51%	181	76.69%	231	83.31%
32	72.80%	82	75.50%	132	82.93%	182	87.20%	232	78.14%
33	73.90%	83	81.52%	133	82.75%	183	79.67%	233	75.71%
34	78.82%	84	77.96%	134	79.16%	184	86.91%	234	90.97%
35	88.54%	85	74.85%	135	92.54%	185	93.69%	235	75.50%
36	75.71%	86	74.62%	136	79.83%	186	69.63%	236	69.63%
37	83.31%	87	86.91%	137	81.35%	187	79.67%	237	77.07%
38	86.91%	88	93.69%	138	66.31%	188	84.09%	238	93.69%
39	85.85%	89	84.50%	139	85.38%	189	76.88%	239	86.63%
40	64.49%	90	80.33%	140	89.84%	190	84.29%	240	81.86%
41	73.90%	91	86.63%	141	80.84%	191	78.82%	241	84.93%
42	75.50%	92	77.43%	142	83.89%	192	82.21%	242	80.17%
43	77.25%	93	83.69%	143	78.82%	193	78.48%	243	83.50%
44	82.93%	94	81.52%	144	80.50%	194	81.01%	244	86.63%
45	79.83%	95	80.84%	145	82.75%	195	80.17%	245	89.37%
46	68.33%	96	64.49%	146	73.90%	196	77.07%	246	78.82%
47	79.33%	97	74.39%	147	71.82%	197	81.86%	247	76.31%
48	84.71%	98	69.03%	148	70.63%	198	78.48%	248	84.71%
49	83.89%	99	73.64%	149	75.91%	199	74.85%	249	77.96%
50	87.51%	100	84.71%	150	76.69%	200	87.51%	250	89.37%

TABLE F4-FZ

SILVER RECOVERY - ZINC CONCENTRATE

Percent of Total Silver Recovery

Computer Generated Random Occurence Selection

1	11.06%	51	21.86%	101	18.82%	151	23.69%	201	20.00%
2	23.12%	52	30.37%	102	13.64%	152	18.31%	202	20.67%
3	20.67%	53	25.15%	103	26.10%	153	9.03%	203	24.29%
4	16.88%	54	17.25%	104	18.14%	154	23.89%	204	19.50%
5	11.82%	55	18.31%	105	21.52%	155	16.69%	205	10.16%
6	20.50%	56	18.14%	106	29.37%	156	22.21%	206	28.54%
7	25.15%	57	18.82%	107	23.31%	157	18.99%	207	18.31%
8	23.89%	58	19.33%	108	12.80%	158	20.17%	208	13.64%
9	28.18%	59	14.39%	109	18.99%	159	23.89%	209	4.49%
10	22.39%	60	16.69%	110	25.61%	160	10.63%	210	40.00%
11	12.80%	61	18.14%	111	20.00%	161	25.85%	211	20.67%
12	19.16%	62	9.63%	112	33.69%	162	18.65%	212	18.99%
13	21.52%	63	8.33%	113	28.18%	163	24.09%	213	33.69%
14	21.86%	64	13.90%	114	13.09%	164	32.54%	214	30.37%
15	22.57%	65	20.84%	115	4.49%	165	26.36%	215	23.31%
16	35.51%	66	20.00%	116	12.17%	166	20.50%	216	15.71%
17	11.82%	67	23.31%	117	21.52%	167	27.20%	217	17.96%
18	25.15%	68	14.62%	118	10.16%	168	15.71%	218	21.01%
19	11.06%	69	21.35%	119	24.71%	169	28.18%	219	12.49%
20	20.84%	70	27.51%	120	20.50%	170	23.12%	220	17.25%
21	11.82%	71	23.50%	121	31.67%	171	18.14%	221	17.96%
22	15.29%	72	17.96%	122	18.31%	172	23.12%	222	19.33%
23	40.00%	73	28.18%	123	7.46%	173	13.37%	223	28.94%
24	12.17%	74	4.49%	124	29.84%	174	19.67%	224	13.09%
25	40.00%	75	17.25%	125	12.80%	175	17.79%	225	27.51%
26	26.63%	76	18.31%	126	24.09%	176	23.50%	226	35.51%
27	22.75%	77	22.21%	127	26.91%	177	20.67%	227	25.38%
28	18.31%	78	20.33%	128	25.38%	178	15.91%	228	29.37%
29	29.84%	79	22.57%	129	9.03%	179	21.18%	229	20.33%
30	13.64%	80	24.29%	130	18.65%	180	20.50%	230	15.29%
31	11.46%	81	23.50%	131	4.49%	181	23.31%	231	16.69%
32	27.20%	82	24.50%	132	17.07%	182	12.80%	232	21.86%
33	26.10%	83	18.48%	133	17.25%	183	20.33%	233	24.29%
34	21.18%	84	22.04%	134	20.84%	184	13.09%	234	9.03%
35	11.46%	85	25.15%	135	7.46%	185	6.31%	235	24.50%
36	24.29%	86	25.38%	136	20.17%	186	30.37%	236	30.37%
37	16.69%	87	13.09%	137	18.65%	187	20.33%	237	22.93%
38	13.09%	88	6.31%	138	33.69%	188	15.91%	238	6.31%
39	14.15%	89	15.50%	139	14.62%	189	23.12%	239	13.37%
40	35.51%	90	19.67%	140	10.16%	190	15.71%	240	18.14%
41	26.10%	91	13.37%	141	19.16%	191	21.18%	241	15.07%
42	24.50%	92	22.57%	142	16.11%	192	17.79%	242	19.83%
43	22.75%	93	16.31%	143	21.18%	193	21.52%	243	16.50%
44	17.07%	94	18.48%	144	19.50%	194	18.99%	244	13.37%
45	20.17%	95	19.16%	145	17.25%	195	19.83%	245	10.63%
46	31.67%	96	35.51%	146	26.10%	196	22.93%	246	21.18%
47	20.67%	97	25.61%	147	28.18%	197	18.14%	247	23.69%
48	15.29%	98	30.97%	148	29.37%	198	21.52%	248	15.29%
49	16.11%	99	26.36%	149	24.09%	199	25.15%	249	22.04%
50	12.49%	100	15.29%	150	23.31%	200	12.49%	250	10.63%

TABLE F4-G

TONNAGE

Per Day

Computer Generated Random Occurence Selection

1	85.24	51	83.80	101	95.79	151	80.34	201	66.20
2	78.63	52	96.60	102	67.55	152	93.53	202	77.25
3	84.15	53	75.12	103	90.50	153	90.50	203	63.83
4	92.98	54	60.67	104	63.40	154	84.15	204	65.97
5	84.51	55	72.07	105	61.64	155	87.93	205	62.35
6	86.74	56	62.92	106	79.66	156	83.44	206	90.50
7	96.60	57	92.98	107	73.64	157	69.03	207	65.72
8	88.75	58	97.65	108	82.05	158	63.40	208	92.45
9	65.72	59	92.45	109	85.98	159	78.29	209	88.75
10	98.36	60	97.65	110	86.74	160	84.51	210	64.88
11	65.97	61	75.49	111	76.91	161	99.33	211	84.51
12	88.33	62	82.75	112	83.80	162	70.83	212	89.61
13	69.50	63	96.17	113	68.06	163	85.98	213	93.80
14	86.74	64	86.74	114	76.56	164	68.06	214	72.47
15	97.08	65	72.87	115	60.00	165	86.36	215	90.97
16	92.98	66	80.00	116	78.98	166	63.83	216	79.32
17	70.39	67	82.40	117	66.47	167	82.05	217	67.02
18	79.32	68	80.68	118	81.02	168	91.94	218	79.32
19	73.64	69	69.03	119	72.87	169	65.97	219	63.40
20	72.47	70	83.80	120	85.24	170	86.36	220	89.17
21	89.61	71	97.65	121	76.91	171	83.09	221	91.94
22	70.39	72	97.08	122	69.50	172	70.83	222	63.83
23	78.63	73	95.79	123	90.05	173	77.60	223	65.97
24	84.51	74	62.92	124	96.60	174	78.63	224	82.75
25	84.15	75	81.02	125	60.95	175	78.98	225	64.56
26	65.18	76	89.61	126	94.28	176	81.37	226	87.53
27	91.94	77	81.02	127	65.18	177	94.55	227	60.00
28	84.88	78	69.95	128	74.76	178	63.40	228	70.39
29	95.12	79	60.67	129	74.02	179	66.20	229	82.75
30	80.00	80	98.36	130	65.18	180	96.17	230	72.07
31	64.56	81	75.12	131	72.07	181	64.21	231	93.53
32	73.26	82	90.50	132	66.20	182	75.49	232	70.83
33	95.79	83	74.39	133	95.44	183	92.98	233	65.72
34	61.64	84	93.53	134	93.53	184	97.08	234	96.17
35	71.25	85	99.33	135	79.32	185	94.28	235	65.46
36	96.17	86	83.44	136	93.80	186	81.71	236	76.20
37	72.07	87	88.33	137	83.44	187	99.05	237	91.94
38	83.80	88	94.82	138	68.55	188	75.49	238	62.92
39	80.34	89	71.25	139	67.02	189	73.26	239	81.02
40	60.67	90	92.98	140	69.95	190	98.36	240	85.61
41	90.97	91	84.88	141	78.98	191	72.87	241	97.08
42	75.85	92	95.12	142	83.44	192	68.55	242	72.47
43	73.26	93	70.39	143	63.40	193	88.75	243	62.92
44	73.64	94	94.28	144	72.87	194	72.07	244	74.39
45	81.71	95	90.05	145	94.03	195	88.75	245	65.97
46	88.33	96	94.28	146	85.61	196	87.93	246	81.02
47	74.76	97	71.25	147	65.18	197	88.75	247	94.28
48	94.28	98	75.12	148	74.02	198	75.85	248	96.60
49	94.55	99	64.21	149	74.76	199	80.34	249	68.55
50	73.26	100	64.56	150	72.47	200	78.29	250	96.60

TABLE F4-H

OPERATING COST

Per Ton

Computer Generated Random Occurence Selection

1	$19.35	51	$19.48	101	$19.41	151	$22.02	201	$21.58
2	$16.88	52	$22.49	102	$21.87	152	$23.41	202	$16.88
3	$21.35	53	$21.04	103	$20.95	153	$15.70	203	$22.02
4	$21.39	54	$21.21	104	$19.35	154	$21.48	204	$19.93
5	$23.01	55	$19.71	105	$19.77	155	$19.77	205	$22.76
6	$23.01	56	$20.23	106	$21.17	156	$21.26	206	$21.82
7	$18.89	57	$21.26	107	$22.24	157	$24.01	207	$21.58
8	$21.26	58	$15.70	108	$22.42	158	$23.19	208	$20.95
9	$19.21	59	$20.91	109	$19.48	159	$20.55	209	$20.99
10	$19.06	60	$19.14	110	$21.67	160	$20.95	210	$22.13
11	$21.35	61	$22.13	111	$20.55	161	$21.44	211	$21.48
12	$22.55	62	$19.28	112	$21.72	162	$17.66	212	$19.66
13	$22.36	63	$22.76	113	$18.37	163	$20.32	213	$23.19
14	$21.44	64	$19.48	114	$18.80	164	$23.41	214	$21.04
15	$23.19	65	$18.37	115	$21.30	165	$19.60	215	$18.07
16	$19.98	66	$19.21	116	$17.36	166	$20.32	216	$23.67
17	$22.49	67	$20.77	117	$18.98	167	$20.99	217	$21.13
18	$20.42	68	$21.92	118	$19.66	168	$20.03	218	$21.35
19	$19.48	69	$22.55	119	$21.72	169	$20.08	219	$21.39
20	$19.41	70	$20.08	120	$20.03	170	$20.77	220	$20.18
21	$20.86	71	$22.02	121	$23.30	171	$20.91	221	$19.54
22	$22.36	72	$19.06	122	$21.39	172	$20.23	222	$22.36
23	$22.92	73	$21.04	123	$20.13	173	$21.67	223	$19.14
24	$25.02	74	$19.41	124	$19.66	174	$19.35	224	$20.32
25	$20.18	75	$19.98	125	$19.28	175	$19.54	225	$23.53
26	$20.55	76	$19.41	126	$18.37	176	$16.88	226	$19.48
27	$21.30	77	$23.53	127	$20.73	177	$19.93	227	$22.76
28	$20.51	78	$21.62	128	$22.24	178	$21.39	228	$19.77
29	$18.89	79	$18.07	129	$23.67	179	$22.49	229	$24.01
30	$18.60	80	$22.62	130	$21.97	180	$20.99	230	$19.28
31	$19.54	81	$18.37	131	$19.35	181	$20.77	231	$18.71
32	$20.37	82	$22.19	132	$18.89	182	$18.07	232	$20.73
33	$23.01	83	$19.21	133	$20.91	183	$21.82	233	$22.69
34	$23.30	84	$19.82	134	$23.10	184	$20.03	234	$19.93
35	$23.41	85	$19.66	135	$23.53	185	$21.92	235	$21.17
36	$18.89	86	$22.92	136	$22.08	186	$18.89	236	$21.72
37	$23.01	87	$15.70	137	$20.23	187	$20.95	237	$20.23
38	$19.48	88	$23.67	138	$19.14	188	$18.71	238	$20.32
39	$18.71	89	$23.53	139	$20.23	189	$22.49	239	$18.71
40	$18.71	90	$21.21	140	$20.28	190	$21.53	240	$23.01
41	$21.62	91	$19.71	141	$19.93	191	$19.06	241	$20.82
42	$21.17	92	$21.35	142	$20.23	192	$22.84	242	$20.95
43	$20.51	93	$23.53	143	$20.03	193	$22.24	243	$23.01
44	$17.66	94	$21.67	144	$23.19	194	$21.82	244	$19.93
45	$24.01	95	$22.19	145	$20.08	195	$22.13	245	$20.99
46	$22.42	96	$19.28	146	$21.17	196	$22.42	246	$17.66
47	$21.92	97	$19.82	147	$24.01	197	$23.01	247	$20.08
48	$22.92	98	$19.88	148	$21.39	198	$21.48	248	$20.18
49	$22.55	99	$21.97	149	$21.92	199	$22.02	249	$25.02
50	$17.36	100	$23.01	150	$18.89	200	$20.37	250	$21.08

TABLE F4-I

LEAD PRICE

Cents per Pound

Computer Generated Random Occurence Selection

1	$0.23	51	$0.21	101	$0.26	151	$0.22	201	$0.29
2	$0.21	52	$0.23	102	$0.26	152	$0.22	202	$0.17
3	$0.27	53	$0.26	103	$0.21	153	$0.26	203	$0.20
4	$0.27	54	$0.22	104	$0.23	154	$0.23	204	$0.18
5	$0.22	55	$0.23	105	$0.25	155	$0.24	205	$0.19
6	$0.29	56	$0.27	106	$0.23	156	$0.20	206	$0.30
7	$0.21	57	$0.15	107	$0.18	157	$0.20	207	$0.24
8	$0.23	58	$0.18	108	$0.21	158	$0.24	208	$0.20
9	$0.26	59	$0.28	109	$0.22	159	$0.16	209	$0.22
10	$0.24	60	$0.24	110	$0.26	160	$0.12	210	$0.22
11	$0.20	61	$0.26	111	$0.24	161	$0.23	211	$0.19
12	$0.20	62	$0.24	112	$0.26	162	$0.23	212	$0.18
13	$0.26	63	$0.22	113	$0.26	163	$0.16	213	$0.27
14	$0.21	64	$0.25	114	$0.31	164	$0.20	214	$0.27
15	$0.25	65	$0.21	115	$0.15	165	$0.18	215	$0.21
16	$0.29	66	$0.19	116	$0.21	166	$0.22	216	$0.21
17	$0.22	67	$0.21	117	$0.22	167	$0.18	217	$0.22
18	$0.20	68	$0.23	118	$0.23	168	$0.22	218	$0.29
19	$0.12	69	$0.29	119	$0.29	169	$0.24	219	$0.28
20	$0.18	70	$0.20	120	$0.23	170	$0.21	220	$0.23
21	$0.30	71	$0.16	121	$0.26	171	$0.30	221	$0.26
22	$0.25	72	$0.25	122	$0.16	172	$0.21	222	$0.25
23	$0.24	73	$0.21	123	$0.17	173	$0.26	223	$0.27
24	$0.20	74	$0.22	124	$0.18	174	$0.27	224	$0.12
25	$0.20	75	$0.22	125	$0.28	175	$0.24	225	$0.19
26	$0.24	76	$0.29	126	$0.23	176	$0.19	226	$0.20
27	$0.20	77	$0.20	127	$0.22	177	$0.30	227	$0.23
28	$0.18	78	$0.26	128	$0.20	178	$0.23	228	$0.31
29	$0.14	79	$0.23	129	$0.27	179	$0.22	229	$0.27
30	$0.26	80	$0.22	130	$0.19	180	$0.19	230	$0.14
31	$0.29	81	$0.29	131	$0.21	181	$0.22	231	$0.21
32	$0.27	82	$0.22	132	$0.20	182	$0.23	232	$0.15
33	$0.23	83	$0.22	133	$0.12	183	$0.25	233	$0.24
34	$0.23	84	$0.22	134	$0.22	184	$0.27	234	$0.26
35	$0.32	85	$0.26	135	$0.19	185	$0.26	235	$0.29
36	$0.26	86	$0.27	136	$0.24	186	$0.24	236	$0.30
37	$0.30	87	$0.26	137	$0.32	187	$0.22	237	$0.20
38	$0.18	88	$0.22	138	$0.28	188	$0.19	238	$0.22
39	$0.27	89	$0.22	139	$0.26	189	$0.31	239	$0.24
40	$0.23	90	$0.25	140	$0.20	190	$0.27	240	$0.27
41	$0.19	91	$0.22	141	$0.25	191	$0.22	241	$0.28
42	$0.21	92	$0.22	142	$0.24	192	$0.18	242	$0.19
43	$0.21	93	$0.24	143	$0.19	193	$0.18	243	$0.22
44	$0.26	94	$0.14	144	$0.19	194	$0.21	244	$0.17
45	$0.27	95	$0.17	145	$0.21	195	$0.29	245	$0.30
46	$0.18	96	$0.21	146	$0.27	196	$0.30	246	$0.22
47	$0.22	97	$0.24	147	$0.23	197	$0.23	247	$0.26
48	$0.24	98	$0.27	148	$0.25	198	$0.23	248	$0.18
49	$0.21	99	$0.20	149	$0.18	199	$0.24	249	$0.17
50	$0.25	100	$0.23	150	$0.27	200	$0.22	250	$0.28

TABLE F4-J

ZINC PRICE

Cents per Pound

Computer Generated Random Occurence Selection

1	$0.46	51	$0.44	101	$0.47	151	$0.44	201	$0.45
2	$0.48	52	$0.49	102	$0.51	152	$0.50	202	$0.44
3	$0.44	53	$0.44	103	$0.45	153	$0.45	203	$0.45
4	$0.49	54	$0.40	104	$0.44	154	$0.44	204	$0.48
5	$0.44	55	$0.53	105	$0.44	155	$0.45	205	$0.44
6	$0.43	56	$0.47	106	$0.51	156	$0.39	206	$0.50
7	$0.47	57	$0.47	107	$0.41	157	$0.45	207	$0.45
8	$0.42	58	$0.47	108	$0.44	158	$0.42	208	$0.40
9	$0.47	59	$0.51	109	$0.50	159	$0.48	209	$0.47
10	$0.51	60	$0.53	110	$0.48	160	$0.41	210	$0.42
11	$0.44	61	$0.44	111	$0.42	161	$0.44	211	$0.53
12	$0.46	62	$0.51	112	$0.47	162	$0.48	212	$0.43
13	$0.54	63	$0.44	113	$0.39	163	$0.47	213	$0.45
14	$0.42	64	$0.35	114	$0.53	164	$0.44	214	$0.35
15	$0.47	65	$0.43	115	$0.53	165	$0.45	215	$0.49
16	$0.49	66	$0.46	116	$0.45	166	$0.48	216	$0.47
17	$0.44	67	$0.47	117	$0.51	167	$0.50	217	$0.50
18	$0.47	68	$0.51	118	$0.47	168	$0.41	218	$0.48
19	$0.49	69	$0.46	119	$0.44	169	$0.49	219	$0.48
20	$0.45	70	$0.44	120	$0.42	170	$0.44	220	$0.41
21	$0.46	71	$0.45	121	$0.50	171	$0.45	221	$0.49
22	$0.43	72	$0.43	122	$0.49	172	$0.45	222	$0.46
23	$0.49	73	$0.45	123	$0.52	173	$0.44	223	$0.39
24	$0.48	74	$0.46	124	$0.48	174	$0.51	224	$0.47
25	$0.51	75	$0.49	125	$0.45	175	$0.45	225	$0.50
26	$0.55	76	$0.48	126	$0.49	176	$0.54	226	$0.53
27	$0.45	77	$0.46	127	$0.43	177	$0.46	227	$0.42
28	$0.47	78	$0.46	128	$0.40	178	$0.42	228	$0.45
29	$0.43	79	$0.51	129	$0.44	179	$0.45	229	$0.43
30	$0.45	80	$0.44	130	$0.44	180	$0.45	230	$0.43
31	$0.50	81	$0.48	131	$0.47	181	$0.47	231	$0.49
32	$0.53	82	$0.49	132	$0.46	182	$0.52	232	$0.39
33	$0.42	83	$0.42	133	$0.48	183	$0.53	233	$0.42
34	$0.41	84	$0.44	134	$0.43	184	$0.50	234	$0.43
35	$0.47	85	$0.54	135	$0.48	185	$0.51	235	$0.51
36	$0.42	86	$0.45	136	$0.46	186	$0.45	236	$0.44
37	$0.50	87	$0.44	137	$0.52	187	$0.42	237	$0.43
38	$0.51	88	$0.43	138	$0.48	188	$0.44	238	$0.45
39	$0.44	89	$0.48	139	$0.46	189	$0.54	239	$0.48
40	$0.48	90	$0.45	140	$0.48	190	$0.51	240	$0.39
41	$0.48	91	$0.44	141	$0.47	191	$0.42	241	$0.44
42	$0.35	92	$0.50	142	$0.35	192	$0.49	242	$0.45
43	$0.35	93	$0.46	143	$0.43	193	$0.48	243	$0.46
44	$0.43	94	$0.42	144	$0.45	194	$0.41	244	$0.48
45	$0.40	95	$0.44	145	$0.46	195	$0.44	245	$0.45
46	$0.49	96	$0.43	146	$0.52	196	$0.45	246	$0.38
47	$0.50	97	$0.41	147	$0.43	197	$0.38	247	$0.42
48	$0.49	98	$0.45	148	$0.47	198	$0.50	248	$0.48
49	$0.51	99	$0.48	149	$0.47	199	$0.45	249	$0.49
50	$0.50	100	$0.46	150	$0.44	200	$0.49	250	$0.47

TABLE F4-K

LEAD GRADE

Percent per Ton

Computer Generated Random Occurence Selection

1	3.806	51	3.115	101	4.175	151	4.905	201	3.651
2	3.088	52	3.550	102	3.996	152	3.032	202	3.500
3	4.083	53	3.450	103	3.525	153	2.546	203	3.324
4	4.083	54	2.546	104	4.841	154	3.913	204	4.272
5	4.495	55	5.826	105	4.782	155	2.585	205	2.159
6	2.325	56	4.053	106	4.239	156	2.917	206	4.675
7	1.619	57	3.349	107	5.826	157	3.651	207	3.885
8	3.298	58	3.575	108	2.585	158	3.806	208	4.175
9	3.450	59	3.600	109	1.174	159	1.446	209	3.142
10	3.832	60	2.464	110	2.546	160	2.694	210	3.349
11	3.525	61	2.325	111	2.976	161	3.374	211	3.806
12	4.727	62	2.761	112	4.905	162	4.206	212	2.546
13	3.753	63	2.585	113	3.195	163	4.580	213	5.055
14	3.450	64	3.702	114	4.239	164	2.274	214	2.947
15	3.088	65	4.454	115	4.675	165	3.273	215	1.446
16	4.536	66	2.420	116	2.464	166	2.728	216	2.976
17	3.525	67	3.115	117	3.702	167	3.247	217	3.859
18	3.651	68	5.826	118	3.968	168	2.728	218	4.415
19	5.381	69	2.420	119	3.273	169	2.857	219	4.272
20	3.032	70	3.195	120	2.274	170	3.142	220	3.832
21	4.239	71	4.143	121	3.324	171	3.651	221	3.550
22	5.554	72	3.885	122	2.976	172	1.749	222	3.859
23	2.024	73	4.536	123	4.454	173	1.749	223	2.218
24	3.600	74	3.032	124	2.947	174	4.378	224	4.841
25	2.658	75	2.917	125	5.554	175	3.626	225	4.727
26	2.325	76	1.855	126	2.761	176	3.060	226	3.832
27	3.728	77	1.446	127	3.088	177	2.095	227	3.273
28	1.174	78	3.753	128	3.349	178	3.349	228	2.464
29	4.536	79	2.506	129	3.600	179	4.272	229	3.032
30	3.779	80	4.976	130	3.142	180	2.159	230	4.905
31	4.053	81	5.251	131	3.115	181	4.976	231	3.247
32	3.450	82	2.159	132	3.702	182	3.195	232	3.702
33	1.749	83	4.415	133	3.968	183	5.145	233	3.779
34	3.004	84	2.976	134	4.378	184	3.626	234	4.675
35	4.626	85	2.826	135	3.676	185	3.273	235	0.500
36	5.055	86	4.782	136	4.976	186	0.500	236	4.083
37	3.060	87	5.055	137	2.658	187	0.500	237	4.415
38	3.115	88	3.247	138	5.145	188	2.761	238	2.374
39	4.175	89	3.996	139	4.905	189	3.676	239	3.273
40	3.913	90	3.298	140	1.174	190	4.905	240	2.976
41	3.600	91	3.374	141	2.585	191	2.274	241	2.887
42	2.274	92	4.143	142	3.247	192	4.626	242	3.626
43	2.947	93	3.060	143	3.753	193	4.143	243	1.855
44	2.325	94	2.887	144	3.651	194	1.446	244	3.060
45	4.053	95	3.651	145	4.905	195	4.083	245	3.550
46	2.694	96	2.024	146	1.855	196	3.400	246	2.826
47	3.968	97	3.500	147	1.619	197	3.400	247	3.779
48	2.024	98	3.032	148	3.702	198	3.298	248	1.945
49	2.546	99	3.968	149	5.554	199	3.525	249	3.195
50	3.550	100	3.168	150	1.174	200	2.887	250	3.806

TABLE F4-L

ZINC GRADE

Percent per Ton

Computer Generated Random Occurence Selection

1	5.068	51	4.982	101	5.113	151	1.604	201	2.186
2	4.450	52	3.018	102	3.320	152	2.361	202	3.735
3	3.454	53	3.550	103	4.236	153	5.068	203	3.883
4	5.260	54	3.487	104	4.387	154	4.546	204	6.194
5	5.495	55	2.976	105	4.481	155	5.024	205	4.787
6	4.862	56	2.436	106	3.644	156	3.213	206	5.639
7	4.941	57	4.029	107	3.018	157	2.436	207	6.396
8	3.674	58	3.824	108	3.794	158	4.579	208	2.505
9	3.421	59	4.206	109	3.794	159	5.113	209	3.213
10	5.024	60	3.853	110	5.024	160	5.814	210	3.764
11	5.160	61	4.612	111	4.418	161	3.249	211	4.901
12	3.099	62	3.138	112	4.265	162	1.957	212	5.314
13	5.209	63	3.519	113	2.976	163	4.646	213	5.113
14	5.314	64	0.500	114	5.722	164	2.505	214	4.059
15	5.371	65	6.194	115	4.088	165	4.296	215	4.862
16	2.436	66	1.957	116	2.278	166	3.487	216	4.059
17	4.147	67	2.887	117	3.018	167	3.644	217	1.806
18	3.354	68	4.646	118	3.487	168	6.396	218	2.278
19	4.176	69	4.265	119	4.982	169	4.418	219	2.629
20	6.043	70	3.883	120	2.505	170	3.704	220	4.000
21	4.579	71	6.043	121	1.286	171	0.500	221	4.387
22	4.513	72	5.024	122	5.209	172	1.806	222	2.887
23	4.941	73	2.436	123	4.296	173	2.932	223	3.138
24	2.186	74	3.582	124	2.740	174	3.582	224	4.117
25	5.024	75	5.314	125	3.735	175	6.043	225	4.481
26	5.260	76	4.862	126	4.296	176	6.396	226	2.791
27	4.751	77	3.285	127	3.550	177	3.176	227	4.824
28	5.260	78	5.024	128	5.722	178	4.147	228	4.326
29	4.546	79	3.454	129	3.764	179	5.814	229	3.764
30	5.814	80	3.421	130	5.564	180	5.024	230	4.356
31	5.024	81	2.791	131	4.612	181	2.569	231	4.356
32	2.278	82	2.932	132	3.764	182	4.206	232	5.814
33	3.582	83	5.919	133	3.487	183	5.160	233	3.764
34	3.320	84	3.704	134	3.704	184	4.680	234	3.764
35	4.481	85	1.604	135	4.147	185	3.454	235	6.194
36	4.546	86	2.081	136	5.209	186	3.213	236	6.714
37	2.569	87	4.579	137	4.513	187	5.068	237	3.912
38	3.883	88	3.285	138	5.431	188	3.059	238	4.450
39	3.018	89	3.735	139	2.361	189	4.513	239	3.099
40	5.495	90	3.285	140	4.579	190	4.646	240	3.971
41	3.941	91	4.579	141	3.138	191	3.354	241	4.265
42	3.519	92	3.613	142	3.971	192	6.194	242	4.481
43	4.236	93	2.569	143	4.546	193	2.887	243	1.806
44	3.018	94	5.919	144	4.450	194	3.320	244	3.735
45	3.176	95	3.550	145	2.081	195	5.495	245	2.278
46	0.500	96	3.853	146	4.147	196	0.500	246	1.957
47	3.138	97	2.840	147	1.806	197	2.629	247	3.421
48	3.421	98	3.735	148	4.646	198	4.206	248	6.043
49	3.794	99	3.550	149	3.704	199	4.206	249	3.794
50	4.982	100	3.883	150	4.513	200	4.029	250	4.418

TABLE F4-M

LEAD RECOVERY

Percent per Ton

Computer Generated Random Occurence Selection

1	91.23%	51	91.23%	101	90.73%	151	90.25%	201	92.34%
2	88.93%	52	89.49%	102	91.80%	152	86.87%	202	90.69%
3	92.34%	53	89.83%	103	88.66%	153	89.03%	203	88.41%
4	89.36%	54	90.21%	104	85.00%	154	87.08%	204	89.79%
5	90.29%	55	90.21%	105	90.83%	155	88.20%	205	89.53%
6	93.42%	56	90.21%	106	92.04%	156	89.45%	206	91.29%
7	88.98%	57	91.80%	107	88.66%	157	89.92%	207	88.54%
8	89.49%	58	91.96%	108	89.17%	158	87.54%	208	92.74%
9	89.79%	59	87.77%	109	91.02%	159	90.17%	209	87.41%
10	90.92%	60	92.74%	110	92.34%	160	87.41%	210	88.27%
11	89.79%	61	91.66%	111	88.04%	161	89.79%	211	89.58%
12	93.13%	62	87.08%	112	89.08%	162	88.41%	212	89.92%
13	89.96%	63	90.42%	113	87.96%	163	88.71%	213	89.96%
14	87.86%	64	89.31%	114	91.80%	164	87.86%	214	92.23%
15	90.78%	65	91.07%	115	89.40%	165	91.18%	215	90.04%
16	91.96%	66	92.34%	116	92.92%	166	89.92%	216	89.17%
17	86.58%	67	90.13%	117	89.62%	167	91.88%	217	90.08%
18	86.87%	68	91.07%	118	91.59%	168	91.29%	218	89.79%
19	89.58%	69	88.12%	119	90.69%	169	88.82%	219	89.92%
20	88.12%	70	90.69%	120	90.34%	170	89.53%	220	93.13%
21	90.47%	71	90.38%	121	89.79%	171	89.75%	221	88.71%
22	90.64%	72	89.66%	122	88.77%	172	90.38%	222	89.62%
23	89.27%	73	91.66%	123	92.92%	173	92.92%	223	89.96%
24	93.13%	74	90.64%	124	90.73%	174	90.21%	224	88.60%
25	87.86%	75	90.97%	125	89.13%	175	88.27%	225	92.34%
26	89.36%	76	91.96%	126	90.83%	176	89.17%	226	90.73%
27	89.58%	77	92.59%	127	89.83%	177	88.93%	227	86.58%
28	92.46%	78	90.13%	128	93.42%	178	91.59%	228	86.87%
29	90.25%	79	88.04%	129	89.17%	179	89.75%	229	88.60%
30	91.18%	80	92.23%	130	87.96%	180	92.74%	230	89.49%
31	91.53%	81	91.18%	131	90.51%	181	90.92%	231	91.18%
32	91.18%	82	88.60%	132	90.21%	182	89.53%	232	90.97%
33	89.17%	83	88.93%	133	87.08%	183	86.12%	233	91.96%
34	91.23%	84	90.00%	134	90.55%	184	91.29%	234	92.46%
35	87.08%	85	92.04%	135	88.12%	185	88.20%	235	90.64%
36	89.96%	86	91.29%	136	90.51%	186	90.51%	236	91.34%
37	92.46%	87	91.59%	137	89.27%	187	91.46%	237	87.08%
38	90.13%	88	92.34%	138	90.55%	188	89.17%	238	92.92%
39	91.23%	89	88.20%	139	92.92%	189	90.51%	239	92.23%
40	89.49%	90	90.73%	140	90.92%	190	88.20%	240	85.00%
41	88.93%	91	91.29%	141	88.82%	191	87.26%	241	86.12%
42	89.66%	92	90.83%	142	91.18%	192	89.13%	242	89.36%
43	92.92%	93	90.38%	143	89.08%	193	89.92%	243	93.42%
44	92.59%	94	90.08%	144	90.38%	194	91.73%	244	89.40%
45	89.40%	95	89.22%	145	87.96%	195	88.47%	245	89.40%
46	87.77%	96	90.34%	146	92.14%	196	91.23%	246	88.88%
47	91.46%	97	90.34%	147	90.38%	197	89.17%	247	90.34%
48	92.59%	98	88.60%	148	89.03%	198	92.04%	248	88.20%
49	90.29%	99	92.04%	149	90.04%	199	92.23%	249	92.46%
50	89.66%	100	90.38%	150	88.60%	200	93.42%	250	87.08%

TABLE F4-N

ZINC RECOVERY

Percent per Ton

Computer Generated Random Occurence Selection

1	91.53%	51	91.18%	101	91.07%	151	93.13%	201	91.88%
2	87.08%	52	91.46%	102	90.78%	152	89.08%	202	89.92%
3	88.04%	53	89.92%	103	88.12%	153	90.47%	203	90.78%
4	88.88%	54	90.51%	104	89.17%	154	89.13%	204	91.12%
5	91.66%	55	90.51%	105	89.53%	155	86.58%	205	90.47%
6	87.96%	56	87.96%	106	87.96%	156	89.66%	206	90.13%
7	91.80%	57	90.55%	107	90.17%	157	91.46%	207	91.66%
8	87.96%	58	89.31%	108	90.97%	158	91.80%	208	90.38%
9	91.29%	59	90.78%	109	89.31%	159	89.08%	209	88.98%
10	89.66%	60	87.66%	110	89.92%	160	90.21%	210	89.79%
11	91.88%	61	90.60%	111	88.77%	161	89.96%	211	90.04%
12	92.74%	62	91.40%	112	89.71%	162	87.86%	212	89.17%
13	88.20%	63	87.54%	113	89.31%	163	88.20%	213	91.80%
14	89.03%	64	90.73%	114	89.27%	164	91.80%	214	87.41%
15	88.98%	65	88.88%	115	90.21%	165	90.69%	215	89.27%
16	90.97%	66	90.29%	116	90.55%	166	91.59%	216	89.22%
17	90.73%	67	88.34%	117	89.53%	167	88.54%	217	90.51%
18	88.93%	68	87.41%	118	89.92%	168	91.29%	218	89.58%
19	89.66%	69	89.87%	119	88.04%	169	90.25%	219	88.27%
20	90.38%	70	89.75%	120	91.12%	170	87.96%	220	89.22%
21	89.36%	71	90.29%	121	90.97%	171	89.17%	221	87.08%
22	88.20%	72	90.78%	122	93.88%	172	93.88%	222	91.40%
23	92.74%	73	90.13%	123	91.59%	173	90.78%	223	87.96%
24	86.12%	74	89.87%	124	89.87%	174	88.88%	224	88.82%
25	89.75%	75	88.34%	125	91.59%	175	90.51%	225	91.96%
26	85.00%	76	88.66%	126	88.34%	176	89.71%	226	91.34%
27	91.02%	77	92.46%	127	91.34%	177	91.23%	227	90.29%
28	90.60%	78	93.42%	128	91.02%	178	91.34%	228	88.98%
29	89.71%	79	87.41%	129	89.87%	179	89.92%	229	88.04%
30	88.20%	80	90.38%	130	90.25%	180	89.08%	230	88.60%
31	91.88%	81	89.66%	131	89.40%	181	91.53%	231	88.27%
32	89.71%	82	90.08%	132	90.92%	182	90.25%	232	91.59%
33	87.41%	83	90.55%	133	90.55%	183	90.13%	233	86.12%
34	88.04%	84	93.88%	134	93.42%	184	93.42%	234	87.66%
35	91.07%	85	93.88%	135	88.41%	185	87.66%	235	90.97%
36	90.21%	86	92.14%	136	91.73%	186	90.47%	236	90.42%
37	89.31%	87	90.04%	137	90.25%	187	90.55%	237	87.08%
38	91.12%	88	91.73%	138	89.96%	188	88.60%	238	91.07%
39	93.42%	89	92.04%	139	87.77%	189	87.26%	239	89.62%
40	89.75%	90	88.41%	140	91.46%	190	88.82%	240	90.13%
41	90.00%	91	90.21%	141	91.18%	191	92.14%	241	93.13%
42	87.66%	92	91.80%	142	89.58%	192	92.04%	242	91.02%
43	89.71%	93	90.47%	143	88.88%	193	89.83%	243	90.34%
44	91.34%	94	90.60%	144	90.17%	194	86.58%	244	91.29%
45	86.87%	95	91.96%	145	92.92%	195	90.92%	245	91.29%
46	89.66%	96	92.59%	146	88.88%	196	88.66%	246	91.80%
47	88.82%	97	92.04%	147	85.00%	197	89.22%	247	91.73%
48	90.08%	98	91.96%	148	88.77%	198	91.07%	248	91.46%
49	90.87%	99	91.88%	149	88.34%	199	90.78%	249	91.02%
50	89.27%	100	89.03%	150	91.88%	200	90.42%	250	88.54%

TABLE F4-O

CONCENTRATION RATIO

Mill Feed to One Ton of Concentrate

Computer Generated Random Occurence Selection

1	10.95	51	11.14	101	10.85	151	34.60	201	25.39
2	12.47	52	18.39	102	16.72	152	23.51	202	14.86
3	16.07	53	15.63	103	13.10	153	10.95	203	14.29
4	10.55	54	15.92	104	12.65	154	12.21	204	8.96
5	10.10	55	18.65	105	12.38	155	11.05	205	11.59
6	11.42	56	22.79	106	15.23	156	17.27	206	9.84
7	11.23	57	13.77	107	18.39	157	22.79	207	8.68
8	15.11	58	14.51	108	14.63	158	12.12	208	22.16
9	16.22	59	13.20	109	14.63	159	10.85	209	17.27
10	11.05	60	14.40	110	11.05	160	9.55	210	14.74
11	10.76	61	12.03	111	12.56	161	17.08	211	11.32
12	17.91	62	17.69	112	13.01	162	28.35	212	10.44
13	10.65	63	15.77	113	18.65	163	11.95	213	10.85
14	10.44	64	111.02	114	9.70	164	22.16	214	13.67
15	10.33	65	8.96	115	13.58	165	12.92	215	11.42
16	22.79	66	28.35	116	24.36	166	15.92	216	13.67
17	13.38	67	19.23	117	18.39	167	15.23	217	30.74
18	16.55	68	11.95	118	15.92	168	8.68	218	24.36
19	13.29	69	13.01	119	11.14	169	12.56	219	21.11
20	9.18	70	14.29	120	22.16	170	14.98	220	13.88
21	12.12	71	9.18	121	43.16	171	111.02	221	12.65
22	12.30	72	11.05	122	10.65	172	30.74	222	19.23
23	11.23	73	22.79	123	12.92	173	18.93	223	17.69
24	25.39	74	15.50	124	20.26	174	15.50	224	13.48
25	11.05	75	10.44	125	14.86	175	9.18	225	12.38
26	10.55	76	11.42	126	12.92	176	8.68	226	19.89
27	11.68	77	16.89	127	15.63	177	17.48	227	11.50
28	10.55	78	11.05	128	9.70	178	13.38	228	12.83
29	12.21	79	16.07	129	14.74	179	9.55	229	14.74
30	9.55	80	16.22	130	9.97	180	11.05	230	12.74
31	11.05	81	19.89	131	12.03	181	21.60	231	12.74
32	24.36	82	18.93	132	14.74	182	13.20	232	9.55
33	15.50	83	9.38	133	15.92	183	10.76	233	14.74
34	16.72	84	14.98	134	14.98	184	11.86	234	14.74
35	12.38	85	34.60	135	13.38	185	16.07	235	8.96
36	12.21	86	26.67	136	10.65	186	17.27	236	8.27
37	21.60	87	12.12	137	12.30	187	10.95	237	14.19
38	14.29	88	16.89	138	10.22	188	18.14	238	12.47
39	18.39	89	14.86	139	23.51	189	12.30	239	17.91
40	10.10	90	16.89	140	12.12	190	11.95	240	13.98
41	14.08	91	12.12	141	17.69	191	16.55	241	13.01
42	15.77	92	15.36	142	13.98	192	8.96	242	12.38
43	13.10	93	21.60	143	12.21	193	19.23	243	30.74
44	18.39	94	9.38	144	12.47	194	16.72	244	14.86
45	17.48	95	15.63	145	26.67	195	10.10	245	24.36
46	111.02	96	14.40	146	13.38	196	111.02	246	28.35
47	17.69	97	19.54	147	30.74	197	21.11	247	16.22
48	16.22	98	14.86	148	11.95	198	13.20	248	9.18
49	14.63	99	15.63	149	14.98	199	13.20	249	14.63
50	11.14	100	14.29	150	12.30	200	13.77	250	12.56

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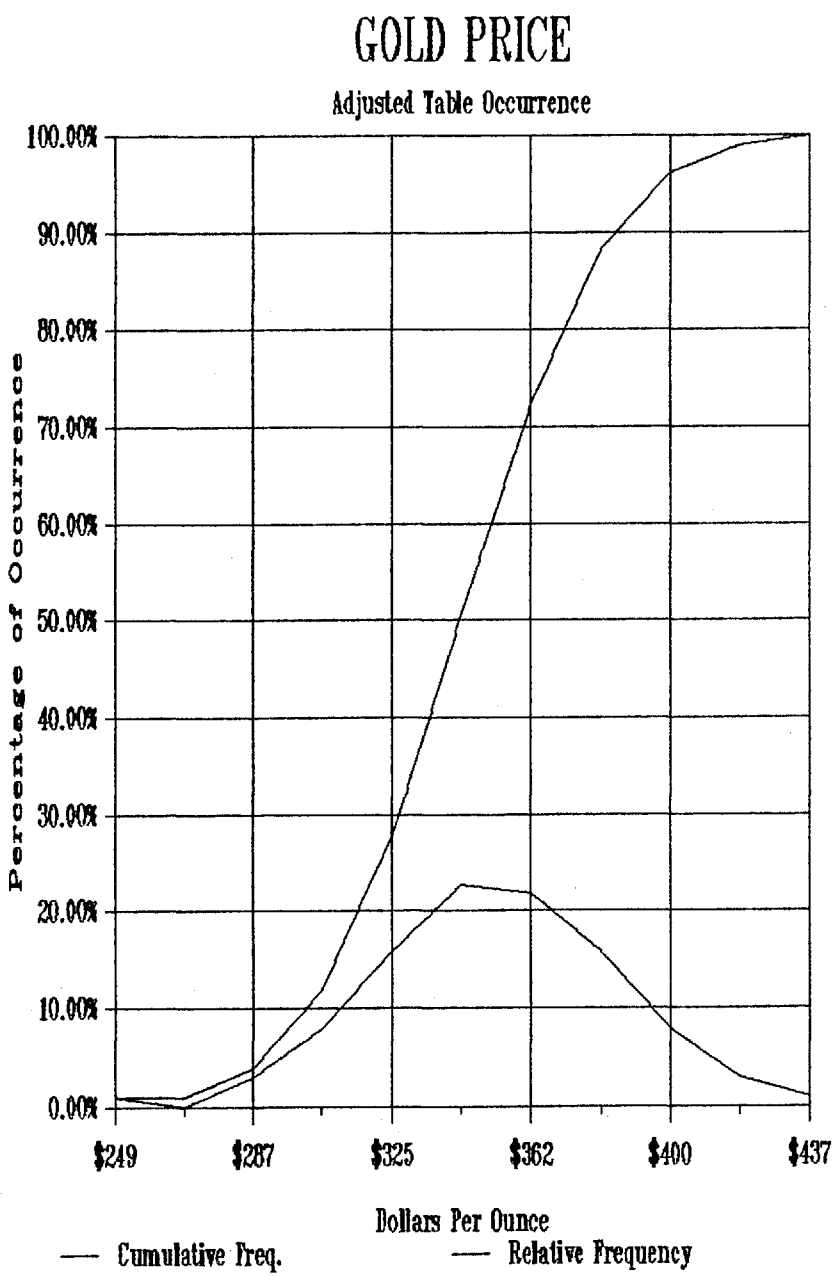
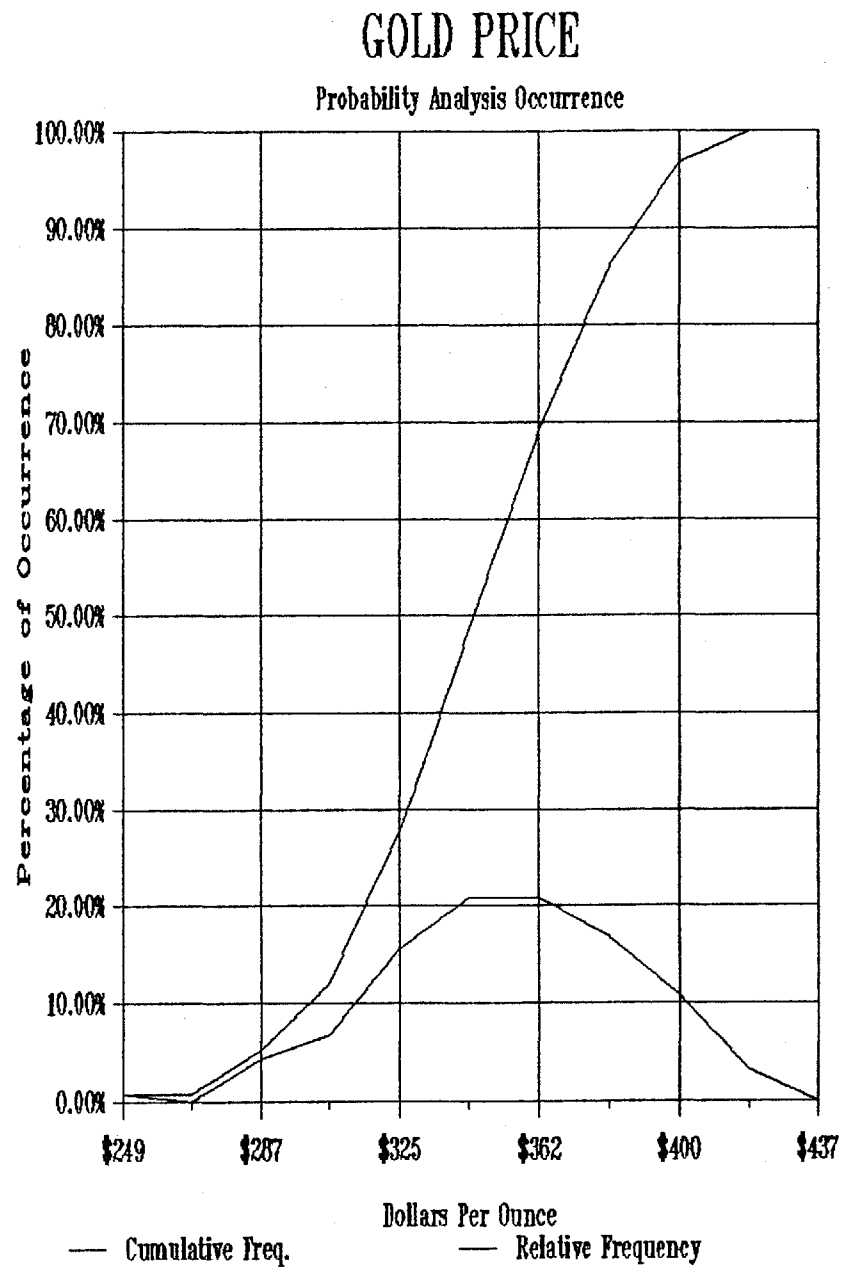
CYANIDE AGITATED LEACH OPERATION

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET

RESULTS



GRAPH - C3-A



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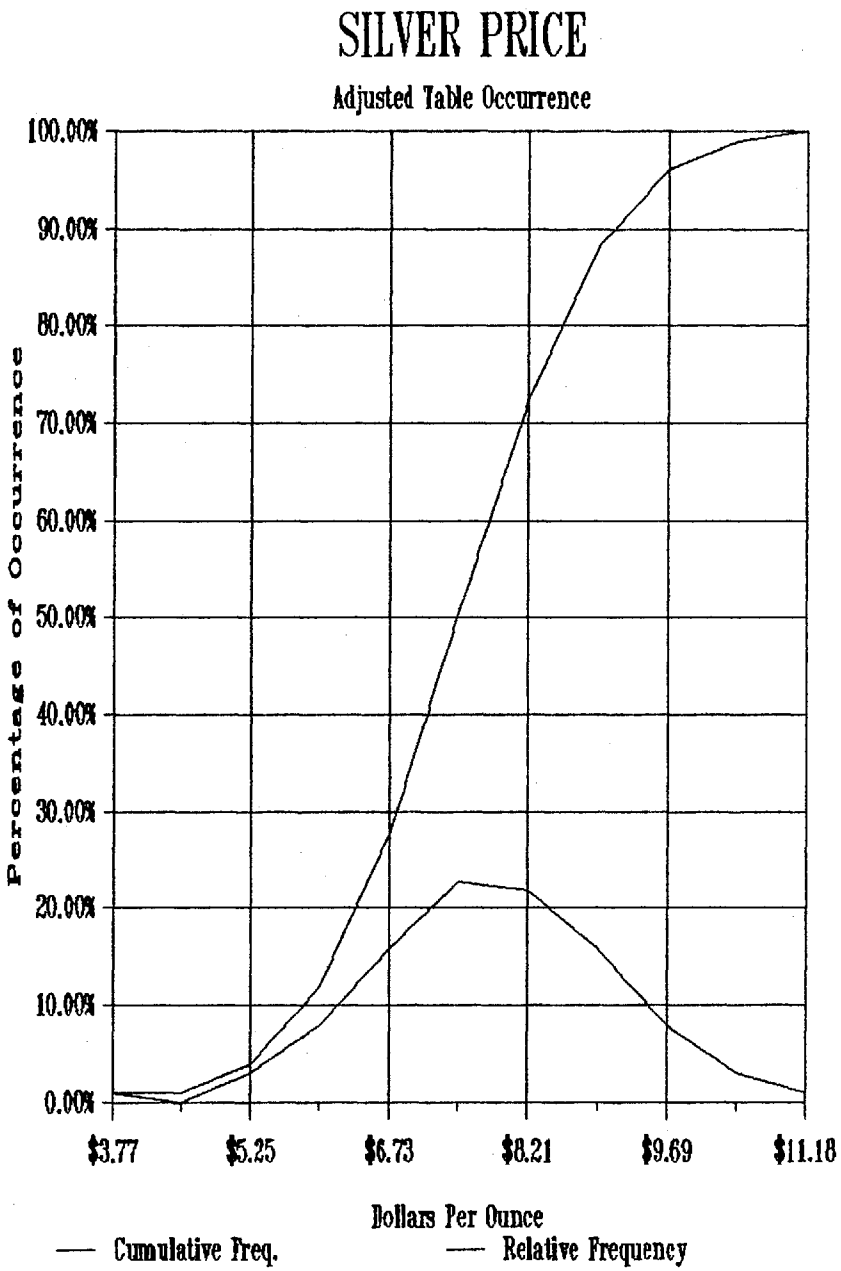

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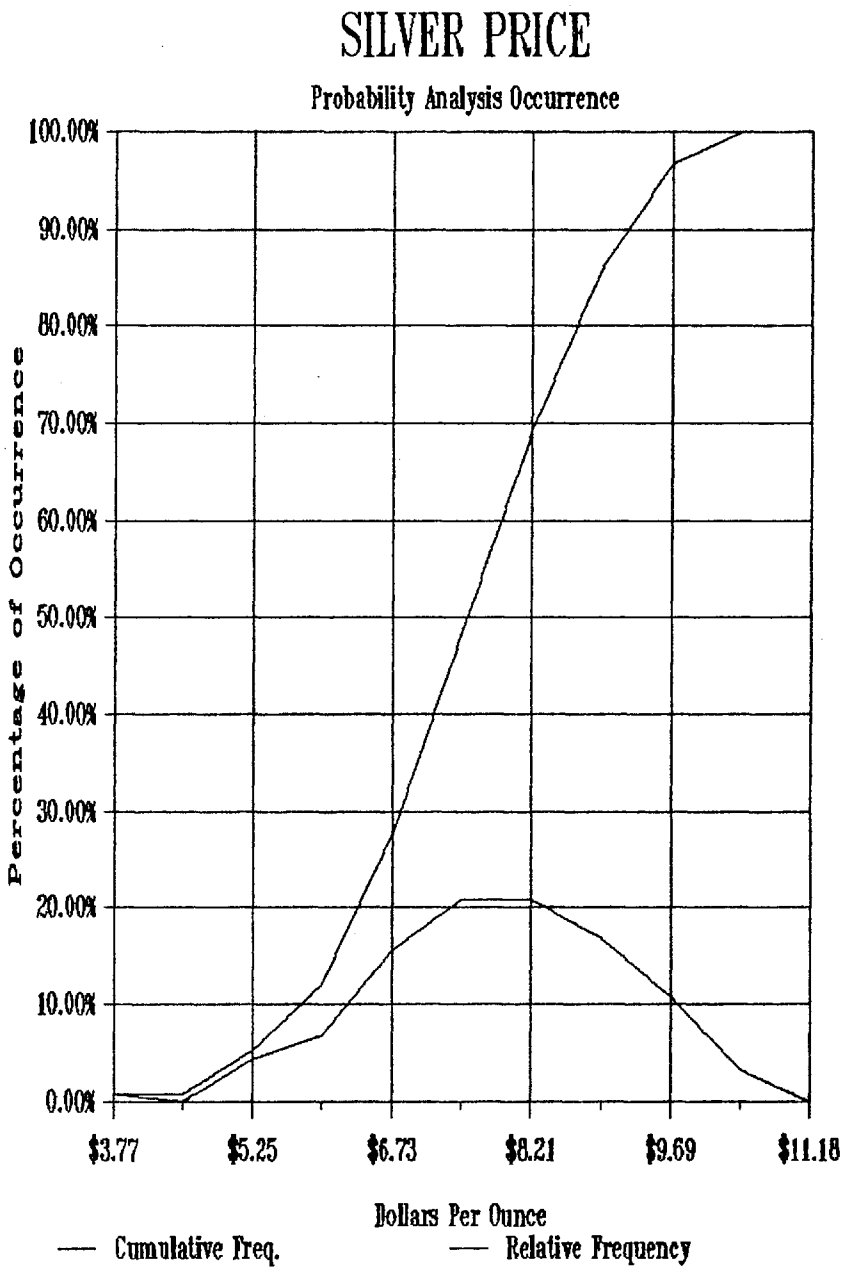

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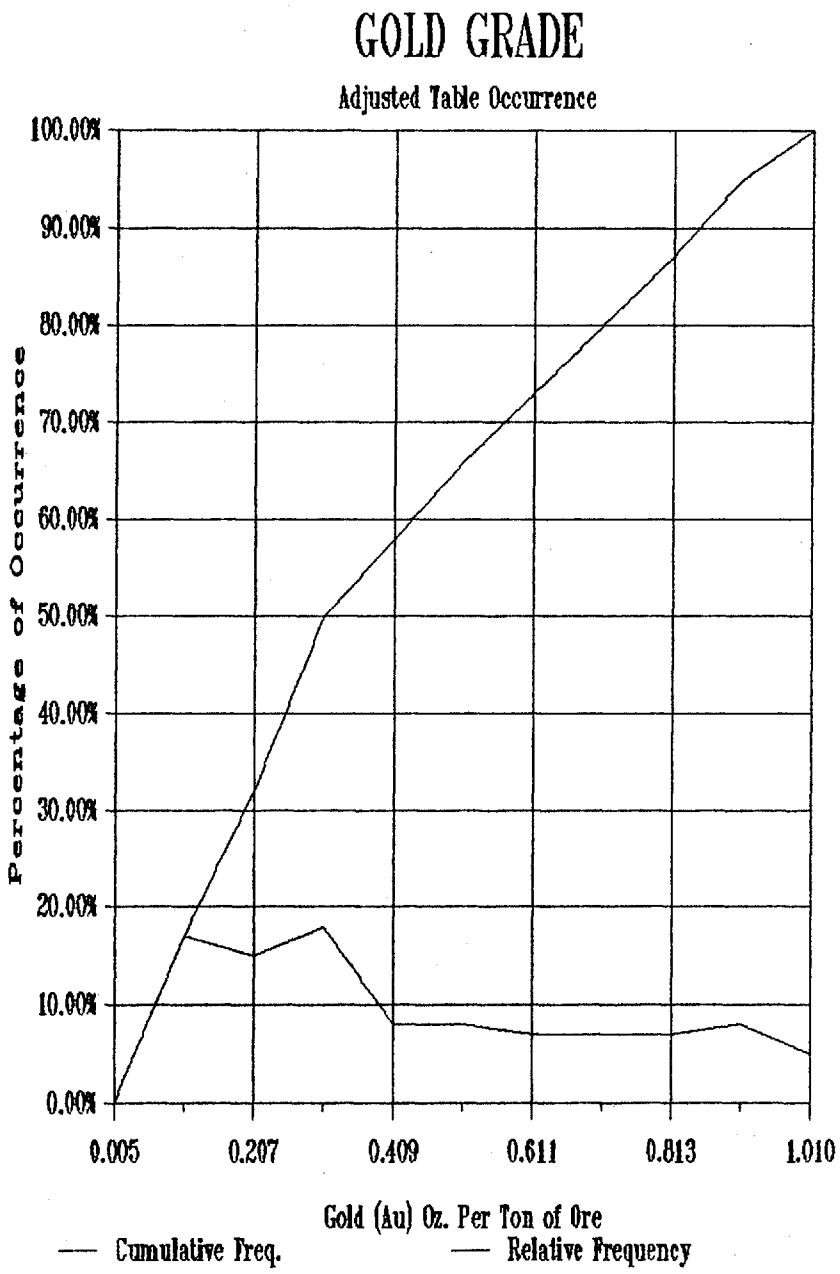

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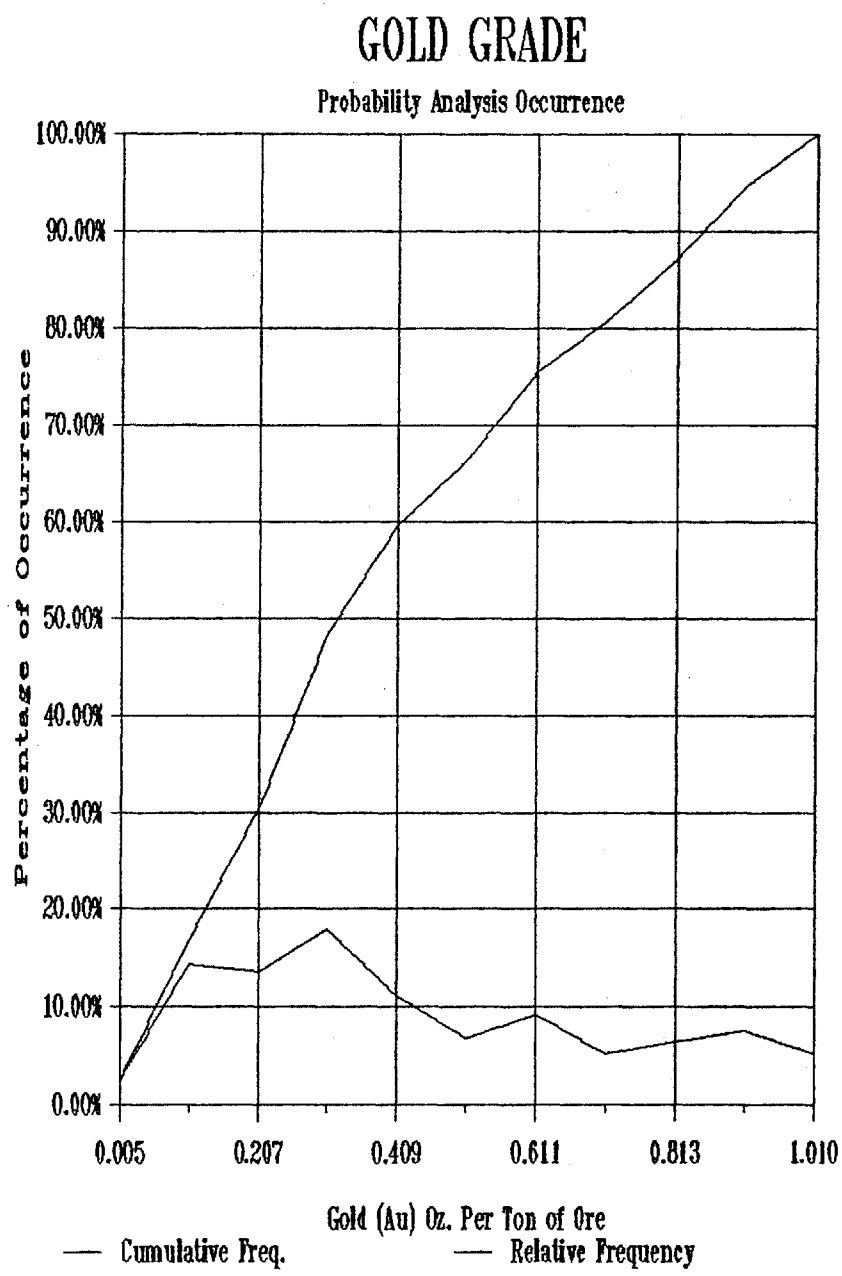
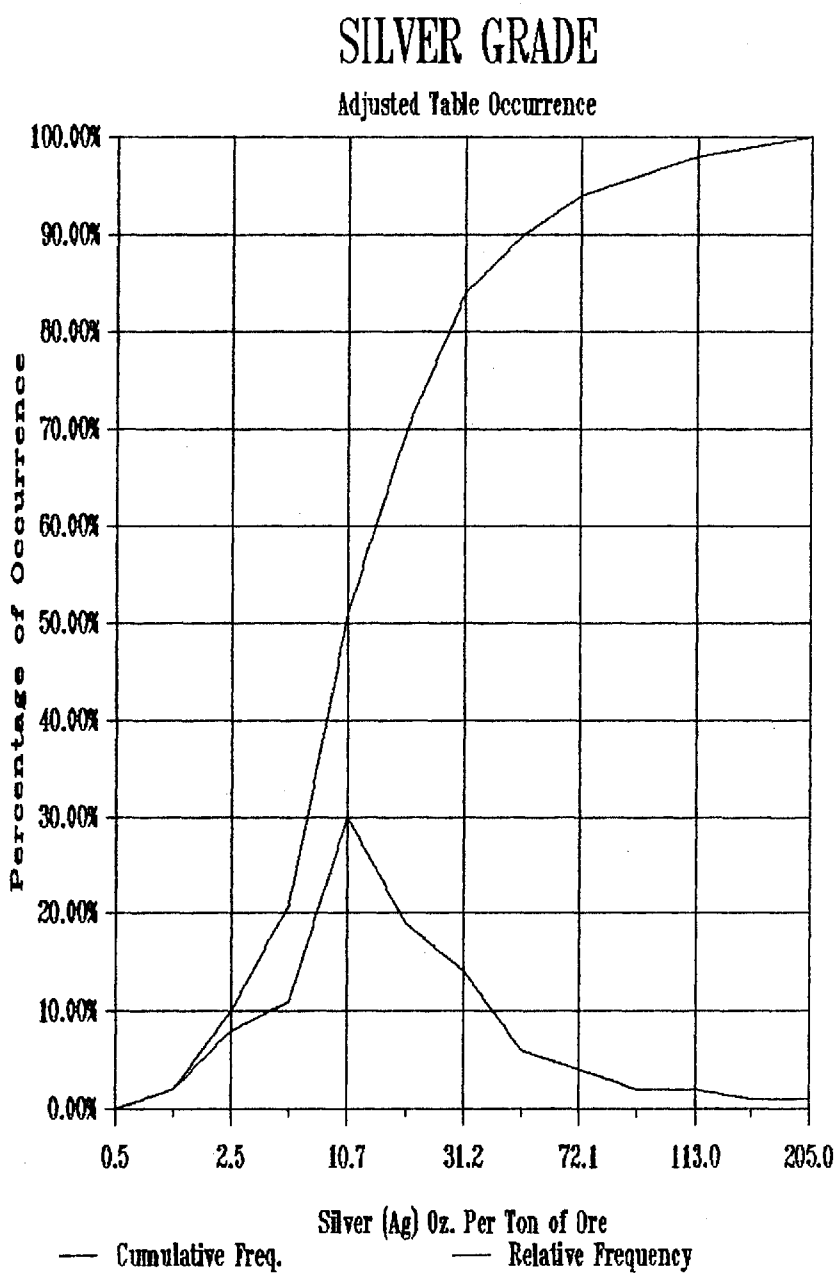


GRAPH - C4-C



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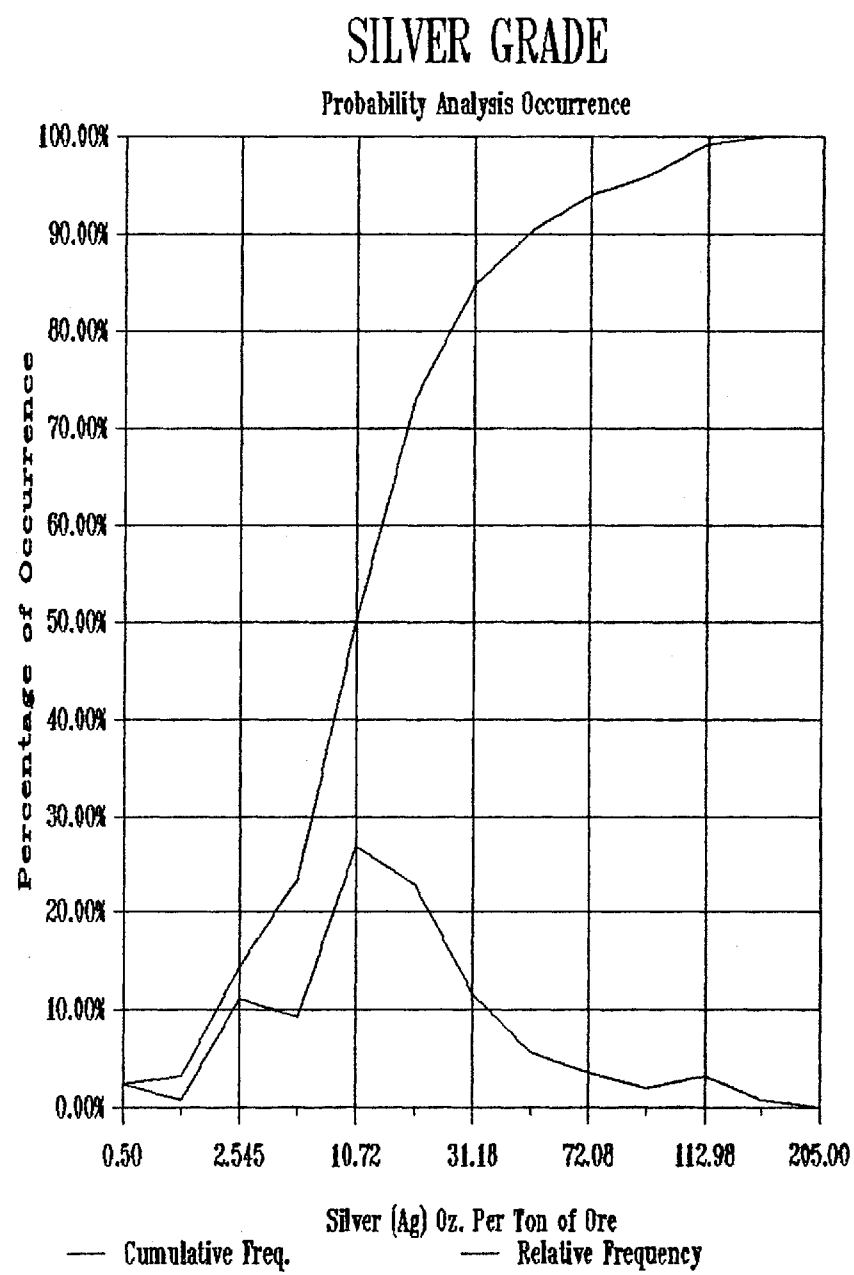

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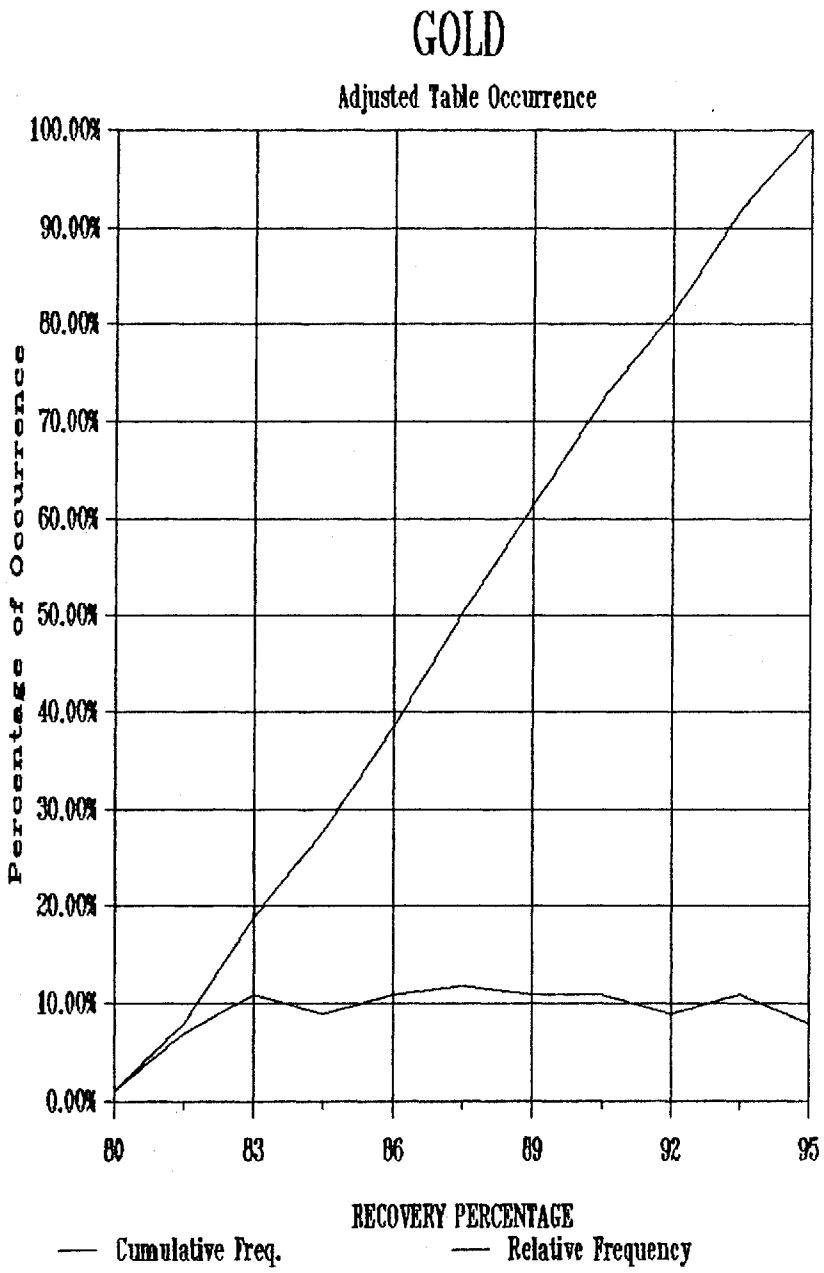

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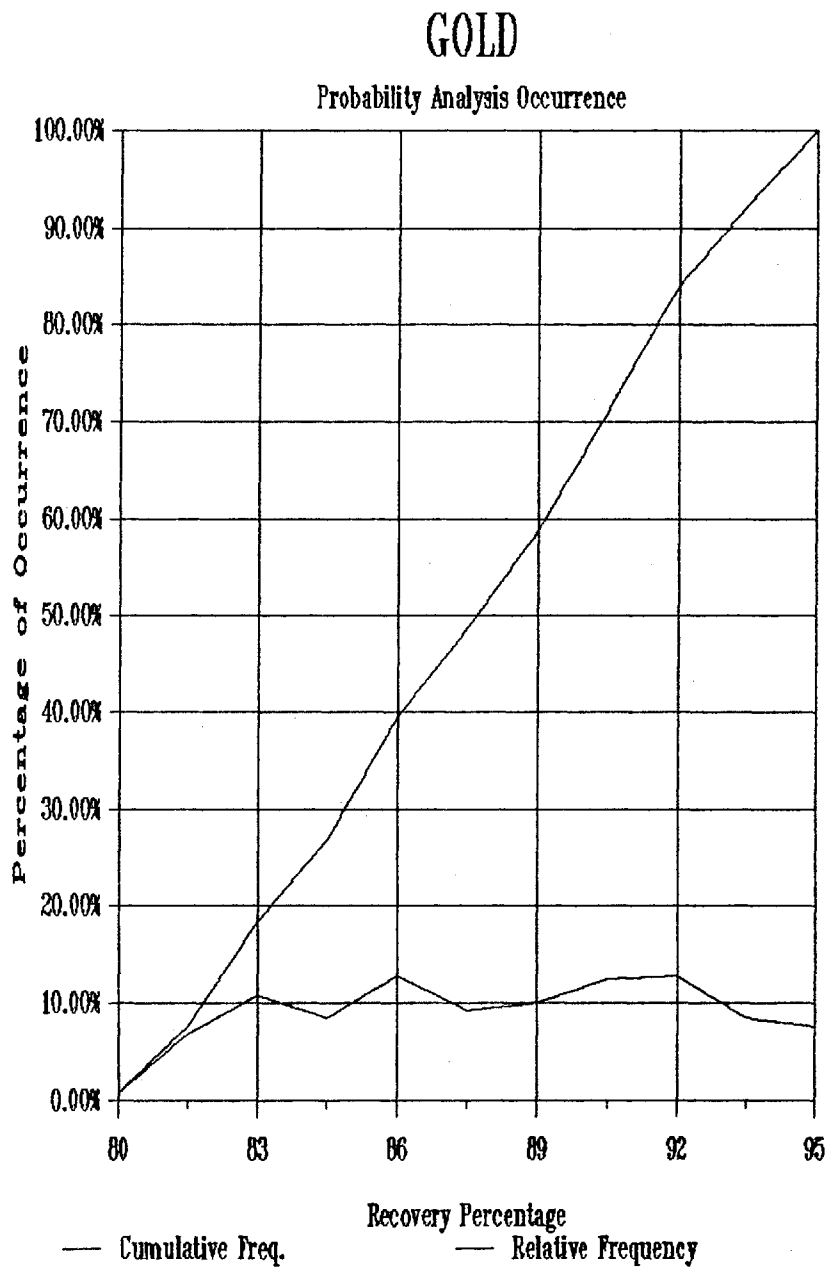
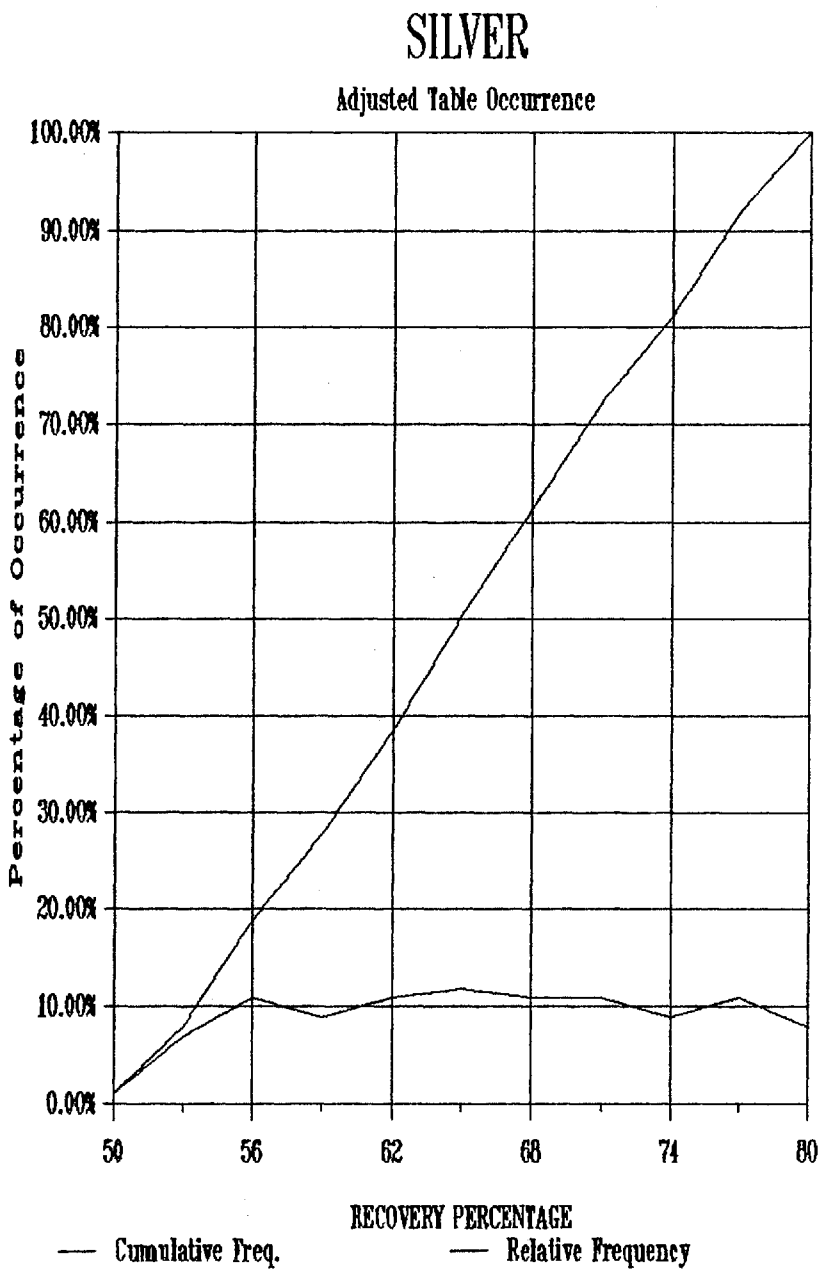
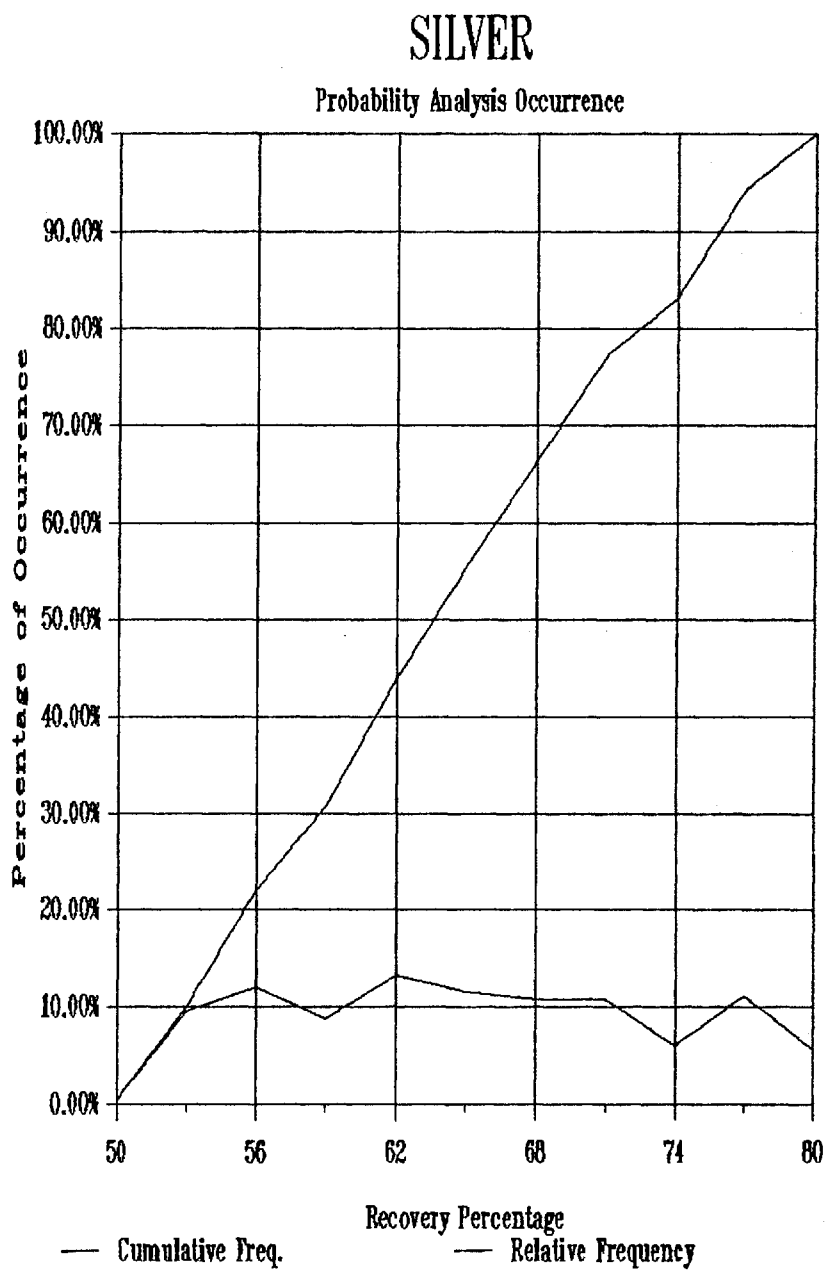


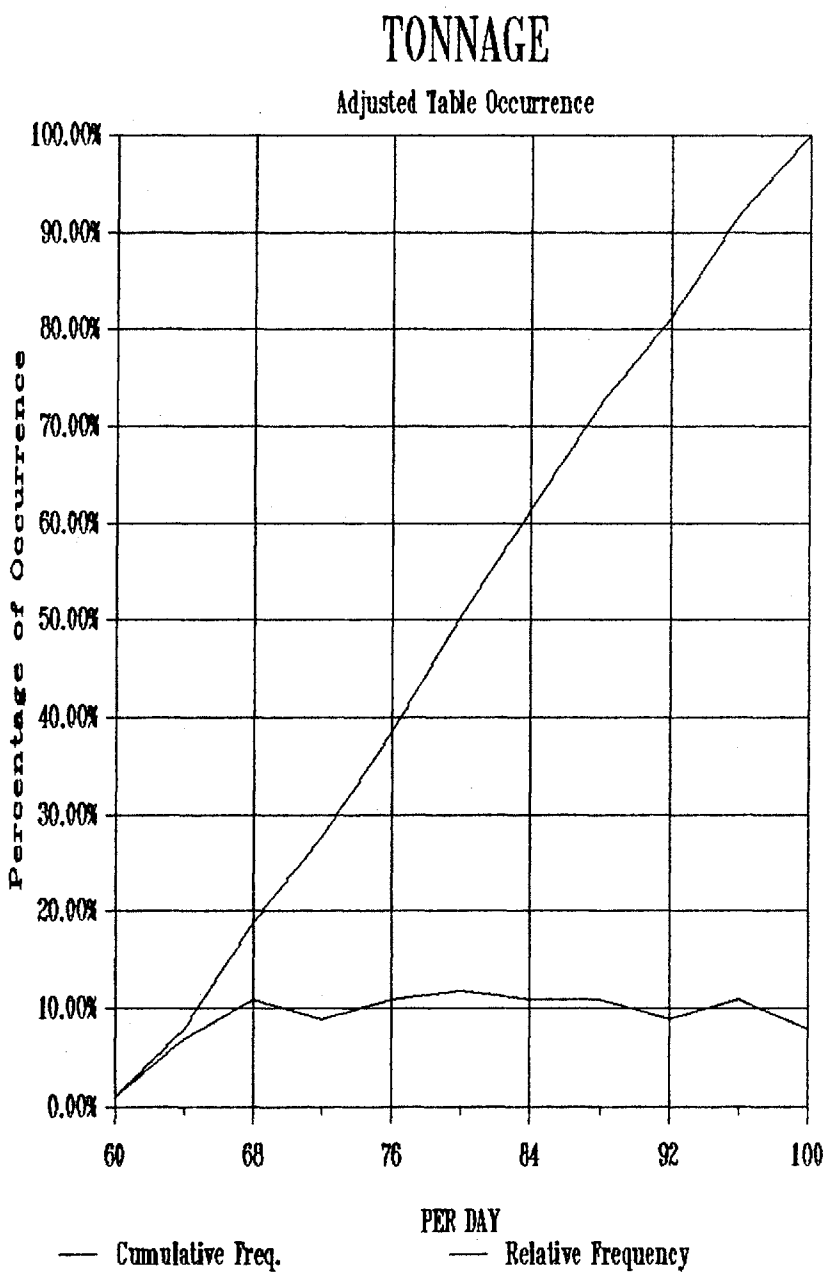
GRAPH - C4-E



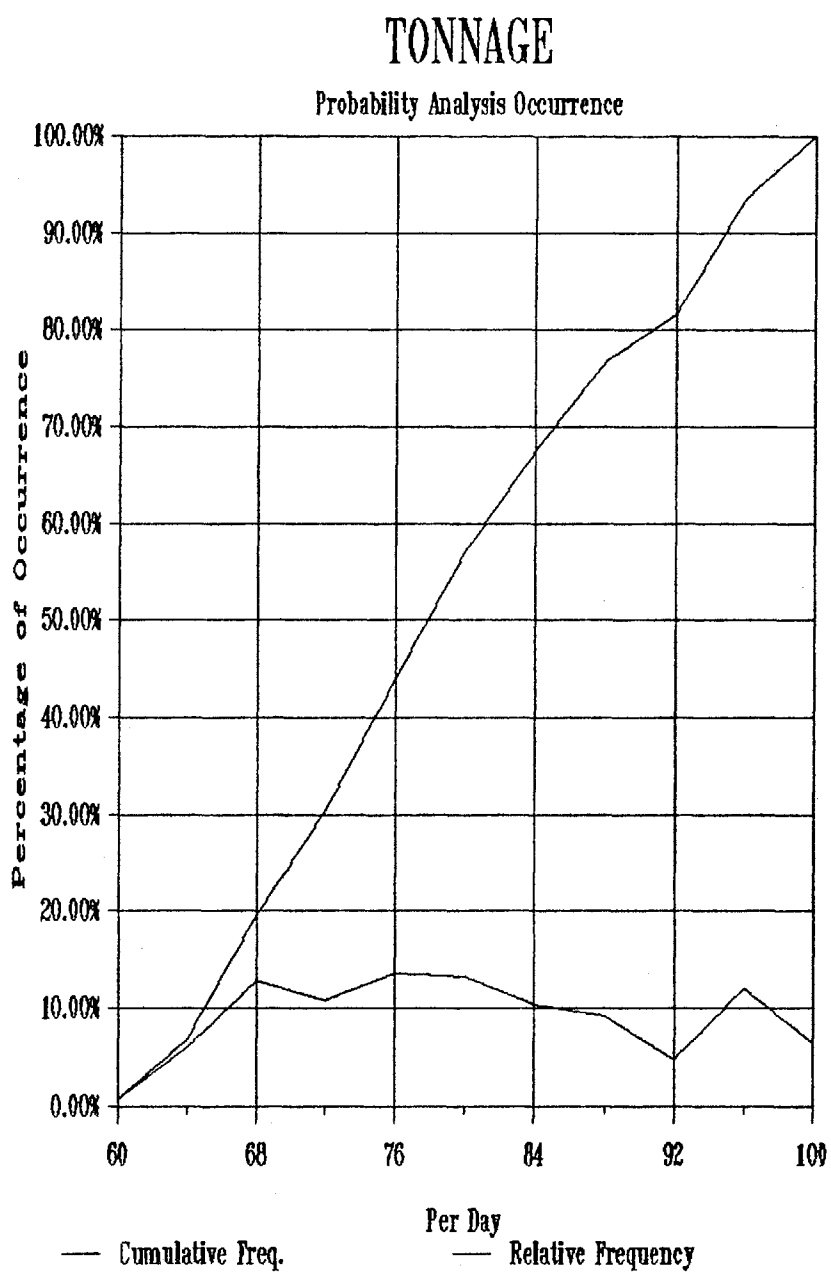
GRAPH - C3-F



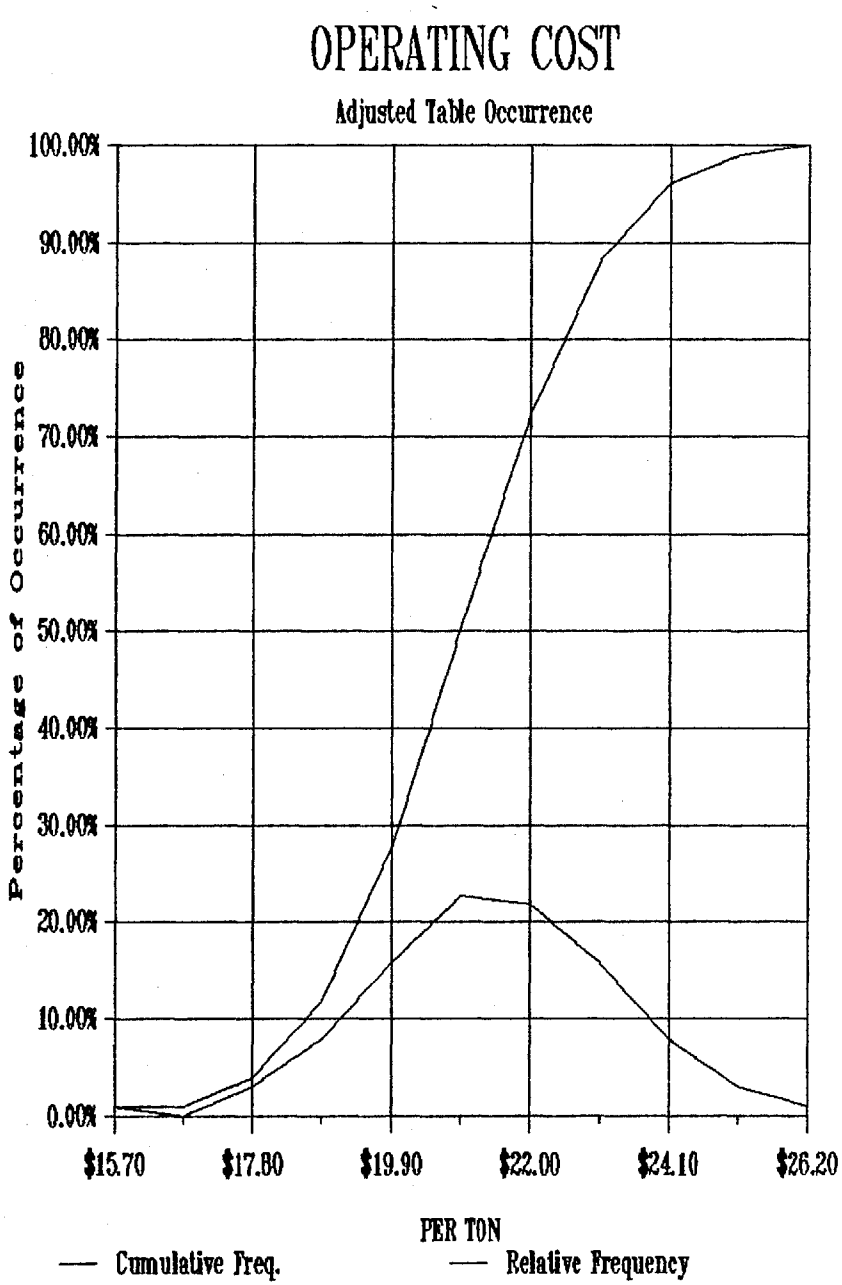
GRAPH - C4-F



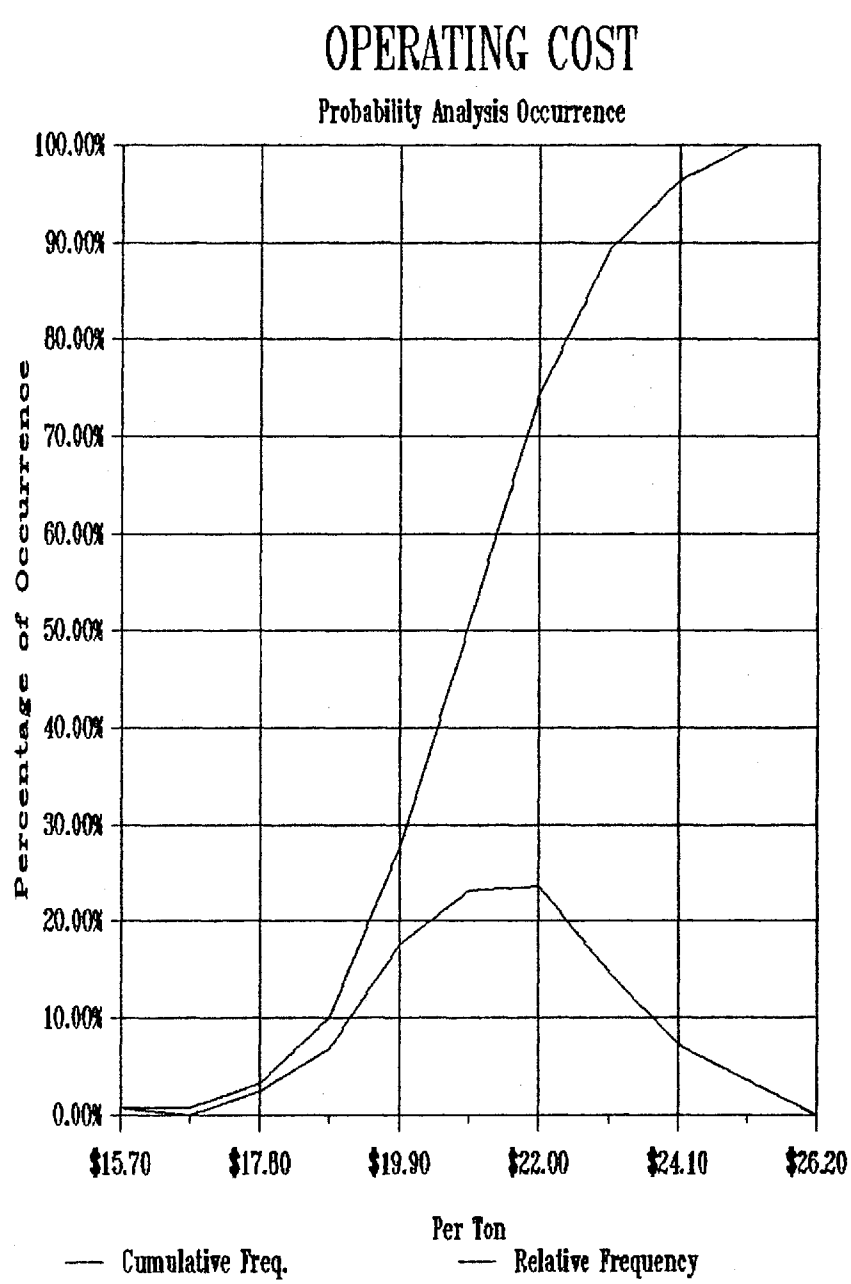
GRAPH - C3-G



GRAPH - C4-G



GRAPH - C3-H



GRAPH - C4-H

TABLE C4-A

GOLD PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$407.76	51	$322.27	101	$310.93	151	$347.35	201	$333.01
2	$342.62	52	$356.33	102	$347.35	152	$389.65	202	$348.14
3	$294.69	53	$323.25	103	$334.66	153	$346.55	203	$357.19
4	$303.25	54	$344.98	104	$362.61	154	$370.92	204	$312.25
5	$270.51	55	$357.19	105	$385.42	155	$314.72	205	$299.38
6	$370.92	56	$416.30	106	$346.55	156	$336.28	206	$345.77
7	$360.75	57	$324.21	107	$337.08	157	$387.44	207	$344.98
8	$308.11	58	$339.47	108	$318.14	158	$367.60	208	$352.98
9	$347.35	59	$297.16	109	$325.15	159	$319.21	209	$378.70
10	$344.19	60	$329.62	110	$378.70	160	$361.67	210	$383.57
11	$317.04	61	$364.54	111	$407.76	161	$381.84	211	$306.59
12	$301.39	62	$402.34	112	$374.57	162	$341.05	212	$320.26
13	$348.93	63	$372.09	113	$324.21	163	$297.16	213	$336.28
14	$416.30	64	$327.87	114	$375.88	164	$331.33	214	$349.73
15	$358.95	65	$347.35	115	$306.59	165	$337.88	215	$378.70
16	$339.47	66	$368.68	116	$338.68	166	$325.15	216	$374.57
17	$333.01	67	$369.78	117	$377.26	167	$297.16	217	$291.87
18	$326.98	68	$337.88	118	$325.15	168	$349.73	218	$334.66
19	$284.47	69	$324.21	119	$327.87	169	$326.98	219	$323.25
20	$370.92	70	$279.06	120	$288.55	170	$355.48	220	$321.28
21	$380.23	71	$364.54	121	$375.88	171	$333.83	221	$318.14
22	$361.67	72	$392.13	122	$303.25	172	$329.62	222	$365.54
23	$335.47	73	$339.47	123	$345.77	173	$356.33	223	$352.98
24	$279.06	74	$270.51	124	$309.56	174	$416.30	224	$337.08
25	$407.76	75	$351.34	125	$367.60	175	$385.42	225	$380.23
26	$392.13	76	$326.07	126	$352.98	176	$363.56	226	$279.06
27	$375.88	77	$354.64	127	$337.88	177	$364.54	227	$369.78
28	$387.44	78	$383.57	128	$338.68	178	$323.25	228	$331.33
29	$387.44	79	$387.44	129	$375.88	179	$328.75	229	$301.39
30	$372.09	80	$310.93	130	$332.17	180	$317.04	230	$321.28
31	$284.47	81	$355.48	131	$352.98	181	$363.56	231	$279.06
32	$345.77	82	$352.98	132	$309.56	182	$294.69	232	$336.28
33	$366.56	83	$337.88	133	$407.76	183	$291.87	233	$345.77
34	$353.81	84	$394.95	134	$326.98	184	$279.06	234	$358.06
35	$383.57	85	$372.09	135	$392.13	185	$343.41	235	$360.75
36	$389.65	86	$343.41	136	$381.84	186	$324.21	236	$329.62
37	$394.95	87	$346.55	137	$380.23	187	$341.83	237	$319.21
38	$392.13	88	$297.16	138	$385.42	188	$350.54	238	$364.54
39	$349.73	89	$333.01	139	$377.26	189	$346.55	239	$339.47
40	$352.98	90	$339.47	140	$312.25	190	$330.48	240	$357.19
41	$370.92	91	$392.13	141	$318.14	191	$299.38	241	$313.51
42	$270.51	92	$340.26	142	$347.35	192	$314.72	242	$346.55
43	$313.51	93	$365.54	143	$381.84	193	$392.13	243	$249.40
44	$341.83	94	$357.19	144	$326.98	194	$284.47	244	$389.65
45	$327.87	95	$329.62	145	$369.78	195	$357.19	245	$315.90
46	$369.78	96	$249.40	146	$345.77	196	$318.14	246	$398.26
47	$363.56	97	$317.04	147	$299.38	197	$336.28	247	$326.07
48	$323.25	98	$398.26	148	$303.25	198	$365.54	248	$312.25
49	$358.95	99	$312.25	149	$383.57	199	$359.84	249	$363.56
50	$341.05	100	$318.14	150	$364.54	200	$317.04	250	$330.48

TABLE C4-B

SILVER PRICE

Dollars per Ounce

Computer Generated Random Occurence Selection

1	$10.01	51	$6.64	101	$6.19	151	$7.63	201	$7.06
2	$7.44	52	$7.98	102	$7.63	152	$9.30	202	$7.66
3	$5.55	53	$6.68	103	$7.13	153	$7.60	203	$8.02
4	$5.89	54	$7.53	104	$8.23	154	$8.56	204	$6.24
5	$4.60	55	$8.02	105	$9.13	155	$6.34	205	$5.74
6	$8.56	56	$10.35	106	$7.60	156	$7.19	206	$7.57
7	$8.16	57	$6.72	107	$7.22	157	$9.21	207	$7.53
8	$6.08	58	$7.32	108	$6.48	158	$8.43	208	$7.85
9	$7.63	59	$5.65	109	$6.75	159	$6.52	209	$8.86
10	$7.50	60	$6.93	110	$8.86	160	$8.19	210	$9.06
11	$6.43	61	$8.31	111	$10.01	161	$8.99	211	$6.02
12	$5.82	62	$9.80	112	$8.70	162	$7.38	212	$6.56
13	$7.69	63	$8.60	113	$6.72	163	$5.65	213	$7.19
14	$10.35	64	$6.86	114	$8.75	164	$7.00	214	$7.72
15	$8.09	65	$7.63	115	$6.02	165	$7.25	215	$8.86
16	$7.32	66	$8.47	116	$7.29	166	$6.75	216	$8.70
17	$7.06	67	$8.51	117	$8.81	167	$5.65	217	$5.44
18	$6.82	68	$7.25	118	$6.75	168	$7.72	218	$7.13
19	$5.15	69	$6.72	119	$6.86	169	$6.82	219	$6.68
20	$8.56	70	$4.93	120	$5.31	170	$7.95	220	$6.60
21	$8.92	71	$8.31	121	$8.75	171	$7.10	221	$6.48
22	$8.19	72	$9.39	122	$5.89	172	$6.93	222	$8.35
23	$7.16	73	$7.32	123	$7.57	173	$7.98	223	$7.85
24	$4.93	74	$4.60	124	$6.14	174	$10.35	224	$7.22
25	$10.01	75	$7.79	125	$8.43	175	$9.13	225	$8.92
26	$9.39	76	$6.79	126	$7.85	176	$8.27	226	$4.93
27	$8.75	77	$7.92	127	$7.25	177	$8.31	227	$8.51
28	$9.21	78	$9.06	128	$7.29	178	$6.68	228	$7.00
29	$9.21	79	$9.21	129	$8.75	179	$6.89	229	$5.82
30	$8.60	80	$6.19	130	$7.03	180	$6.43	230	$6.60
31	$5.15	81	$7.95	131	$7.85	181	$8.27	231	$4.93
32	$7.57	82	$7.85	132	$6.14	182	$5.55	232	$7.19
33	$8.39	83	$7.25	133	$10.01	183	$5.44	233	$7.57
34	$7.88	84	$9.51	134	$6.82	184	$4.93	234	$8.05
35	$9.06	85	$8.60	135	$9.39	185	$7.47	235	$8.16
36	$9.30	86	$7.47	136	$8.99	186	$6.72	236	$6.93
37	$9.51	87	$7.60	137	$8.92	187	$7.41	237	$6.52
38	$9.39	88	$5.65	138	$9.13	188	$7.75	238	$8.31
39	$7.72	89	$7.06	139	$8.81	189	$7.60	239	$7.32
40	$7.85	90	$7.32	140	$6.24	190	$6.96	240	$8.02
41	$8.56	91	$9.39	141	$6.48	191	$5.74	241	$6.29
42	$4.60	92	$7.35	142	$7.63	192	$6.34	242	$7.60
43	$6.29	93	$8.35	143	$8.99	193	$9.39	243	$3.77
44	$7.41	94	$8.02	144	$6.82	194	$5.15	244	$9.30
45	$6.86	95	$6.93	145	$8.51	195	$8.02	245	$6.39
46	$8.51	96	$3.77	146	$7.57	196	$6.48	246	$9.64
47	$8.27	97	$6.43	147	$5.74	197	$7.19	247	$6.79
48	$6.68	98	$9.64	148	$5.89	198	$8.35	248	$6.24
49	$8.09	99	$6.24	149	$9.06	199	$8.12	249	$8.27
50	$7.38	100	$6.48	150	$8.31	200	$6.43	250	$6.96

TABLE C4-C

ORE CONTENT - GOLD GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	0.6088	51	0.3361	101	0.0117	151	0.2588	201	0.2588
2	0.5245	52	0.8040	102	0.0777	152	0.2269	202	0.8335
3	0.1425	53	0.5941	103	0.6546	153	0.9025	203	0.2269
4	0.1930	54	0.4721	104	0.4721	154	0.2898	204	0.3241
5	0.3603	55	0.5245	105	0.6238	155	0.5797	205	0.8040
6	0.1493	56	0.2214	106	0.2949	156	0.1688	206	0.0632
7	0.3120	57	0.0971	107	0.6390	157	0.8448	207	0.4849
8	0.2795	58	0.3725	108	0.6088	158	0.0732	208	0.6707
9	0.6088	59	0.2692	109	0.2377	159	0.2795	209	0.1209
10	0.0732	60	0.5380	110	0.2269	160	0.0117	210	0.0858
11	0.1209	61	0.9831	111	0.3847	161	0.4593	211	0.4980
12	0.8704	62	0.0818	112	0.6390	162	0.3725	212	0.8448
13	0.1283	63	0.0895	113	0.0247	163	0.1688	213	0.3603
14	0.9721	64	0.6088	114	0.3000	164	0.1493	214	0.4466
15	0.1811	65	0.0818	115	0.5380	165	0.2046	215	0.0117
16	0.1559	66	0.3120	116	0.9721	166	0.8335	216	0.6390
17	0.7869	67	0.8570	117	0.1624	167	0.7394	217	0.1425
18	0.9226	68	0.2846	118	0.9721	168	0.5380	218	0.0632
19	0.2323	69	0.5517	119	0.4980	169	0.2430	219	0.1493
20	0.0632	70	0.2159	120	0.0777	170	0.3603	220	0.5517
21	0.6238	71	0.8704	121	0.8040	171	0.9226	221	0.1355
22	0.6238	72	0.3603	122	0.4980	172	0.1355	222	0.7214
23	0.0117	73	0.1750	123	0.2323	173	0.2323	223	0.7580
24	0.0777	74	0.2588	124	0.2744	174	0.2377	224	0.0818
25	0.2588	75	0.8854	125	0.1355	175	0.8854	225	0.2159
26	0.4721	76	0.7040	126	0.3120	176	0.2483	226	0.3725
27	0.4216	77	0.1283	127	0.4721	177	0.0971	227	0.5380
28	0.5656	78	0.2214	128	0.8133	178	0.4466	228	0.5656
29	0.3725	79	0.0632	129	0.3361	179	0.0971	229	0.2898
30	0.2377	80	0.2483	130	0.6238	180	0.1559	230	0.9226
31	0.2430	81	0.2640	131	0.0858	181	0.4216	231	0.7394
32	0.2430	82	0.8230	132	0.5380	182	0.3361	232	0.3847
33	0.0632	83	0.0632	133	0.8448	183	0.0684	233	0.1624
34	0.7394	84	0.9721	134	0.7580	184	0.2536	234	0.7214
35	0.8854	85	0.3603	135	0.3847	185	0.2159	235	0.2377
36	0.0895	86	0.1355	136	0.0931	186	0.9474	236	0.0971
37	0.2214	87	0.5517	137	0.2214	187	0.4092	237	0.8335
38	0.2159	88	0.2692	138	0.1133	188	0.2795	238	0.0818
39	0.7774	89	0.1053	139	0.1930	189	0.0438	239	0.0145
40	0.3361	90	0.7580	140	0.9025	190	0.5112	240	0.0117
41	0.8040	91	0.3361	141	0.1283	191	0.2846	241	0.4216
42	0.0895	92	0.4721	142	0.7040	192	0.7394	242	0.0352
43	0.5656	93	0.4092	143	0.0684	193	0.8335	243	0.3241
44	0.4466	94	0.3482	144	0.2744	194	0.2536	244	0.1871
45	0.1355	95	0.0684	145	0.8335	195	0.2588	245	0.9474
46	0.1871	96	0.8230	146	0.4341	196	0.3969	246	0.3603
47	0.3969	97	0.7953	147	0.2046	197	0.2377	247	0.7040
48	0.5517	98	0.9721	148	0.5656	198	0.9474	248	0.0858
49	0.1624	99	0.1283	149	0.0684	199	0.1624	249	0.0117
50	0.5112	100	0.1624	150	0.6238	200	0.0858	250	0.9831

TABLE C4-D

ORE CONTENT - SILVER GRADE

Ounces per Ton

Computer Generated Random Occurence Selection

1	22.866	51	11.506	101	0.83685	151	8.5867	201	8.5867
2	19.354	52	39.48	102	2.547	152	7.4905	202	51.12
3	4.5946	53	22.256	103	24.776	153	78.3675	203	7.4905
4	6.3292	54	17.17	104	17.17	154	9.6486	204	11.004
5	12.514	55	19.354	105	23.49	155	21.656	205	39.48
6	4.8284	56	7.3029	106	9.825	156	5.4969	206	2.1898
7	10.5	57	3.0385	107	24.126	157	55.56	207	17.706
8	9.2972	58	13.02	108	22.866	158	2.4368	208	25.444
9	22.866	59	8.943	109	7.8615	159	9.2972	209	3.8547
10	2.4368	60	19.918	110	7.4905	160	0.83685	210	2.7472
11	3.8547	61	137.63	111	13.528	161	16.638	211	18.25
12	65.685	62	2.65	112	24.126	162	13.02	212	55.56
13	4.1088	63	2.8394	113	1.2384	163	5.4969	213	12.514
14	110.37	64	22.866	114	10	164	4.8284	214	16.11
15	5.9204	65	2.65	115	19.918	165	6.7261	215	0.83685
16	5.0559	66	10.5	116	110.37	166	51.12	216	24.126
17	32.73	67	60.3825	117	5.2785	167	28.308	217	4.5946
18	86.3025	68	9.4729	118	110.37	168	19.918	218	2.1898
19	7.6767	69	20.488	119	18.25	169	8.0449	219	4.8284
20	2.1898	70	7.1125	120	2.547	170	12.514	220	20.488
21	23.49	71	65.685	121	39.48	171	86.3025	221	4.3552
22	23.49	72	12.514	122	18.25	172	4.3552	222	27.558
23	0.83685	73	5.7104	123	7.6767	173	7.6767	223	29.084
24	2.547	74	8.5867	124	9.1201	174	7.8615	224	2.65
25	8.5867	75	71.61	125	4.3552	175	71.61	225	7.1125
26	17.17	76	26.832	126	10.5	176	8.2269	226	13.02
27	15.066	77	4.1088	127	17.17	177	3.0385	227	19.918
28	21.068	78	7.3029	128	43.125	178	16.11	228	21.068
29	13.02	79	2.1898	129	11.506	179	3.0385	229	9.6486
30	7.8615	80	8.2269	130	23.49	180	5.0559	230	86.3025
31	8.0449	81	8.7652	131	2.7472	181	15.066	231	28.308
32	8.0449	82	46.9875	132	19.918	182	11.506	232	13.528
33	2.1898	83	2.1898	133	55.56	183	2.3184	233	5.2785
34	28.308	84	110.37	134	29.084	184	8.4075	234	27.558
35	71.61	85	12.514	135	13.528	185	7.1125	235	7.8615
36	2.8394	86	4.3552	136	2.9272	186	96.06	236	3.0385
37	7.3029	87	20.488	137	7.3029	187	14.55	237	51.12
38	7.1125	88	8.943	138	3.5922	188	9.2972	238	2.65
39	29.89	89	3.3206	139	6.3292	189	1.7102	239	0.97315
40	11.506	90	29.084	140	78.3675	190	18.798	240	0.83685
41	39.48	91	11.506	141	4.1088	191	9.4729	241	15.066
42	2.8394	92	17.17	142	26.832	192	28.308	242	1.4986
43	21.068	93	14.55	143	2.3184	193	51.12	243	11.004
44	16.11	94	12.008	144	9.1201	194	8.4075	244	6.1262
45	4.3552	95	2.3184	145	51.12	195	8.5867	245	96.06
46	6.1262	96	46.9875	146	15.586	196	14.038	246	12.514
47	14.038	97	36.0225	147	6.7261	197	7.8615	247	26.832
48	20.488	98	110.37	148	21.068	198	96.06	248	2.7472
49	5.2785	99	4.1088	149	2.3184	199	5.2785	249	0.83685
50	18.798	100	5.2785	150	23.49	200	2.7472	250	137.63

TABLE C4-E

GOLD

Recovery Percentage

Computer Generated Random Occurence Selection

1	90.32%	51	83.90%	101	86.34%	151	81.94%	201	90.32%
2	88.14%	52	91.61%	102	90.47%	152	83.73%	202	89.06%
3	84.22%	53	80.00%	103	81.28%	153	90.47%	203	91.27%
4	84.68%	54	83.73%	104	87.12%	154	87.50%	204	91.98%
5	90.94%	55	83.90%	105	88.79%	155	86.47%	205	83.21%
6	88.40%	56	86.73%	106	84.68%	156	83.21%	206	86.47%
7	93.72%	57	81.44%	107	92.67%	157	91.27%	207	81.44%
8	88.92%	58	88.79%	108	89.06%	158	81.09%	208	93.17%
9	86.34%	59	91.61%	109	83.02%	159	87.12%	209	91.98%
10	89.89%	60	90.94%	110	80.35%	160	85.67%	210	82.14%
11	90.94%	61	94.38%	111	93.17%	161	87.63%	211	81.09%
12	82.63%	62	81.83%	112	87.63%	162	90.17%	212	90.03%
13	89.19%	63	93.56%	113	88.14%	163	85.94%	213	89.47%
14	83.73%	64	91.10%	114	91.61%	164	92.86%	214	87.37%
15	85.81%	65	85.11%	115	88.14%	165	88.01%	215	88.27%
16	93.56%	66	87.12%	116	92.67%	166	84.68%	216	90.63%
17	90.94%	67	81.71%	117	82.24%	167	93.42%	217	83.90%
18	86.99%	68	93.29%	118	83.02%	168	93.06%	218	91.61%
19	84.53%	69	92.86%	119	86.47%	169	81.44%	219	92.57%
20	83.39%	70	89.89%	120	88.40%	170	80.62%	220	90.03%
21	82.63%	71	89.74%	121	84.97%	171	82.63%	221	85.67%
22	86.73%	72	80.62%	122	80.35%	172	82.14%	222	80.35%
23	87.88%	73	87.63%	123	85.11%	173	82.33%	223	86.86%
24	93.72%	74	91.79%	124	88.66%	174	93.29%	224	90.47%
25	91.10%	75	81.83%	125	90.78%	175	89.19%	225	88.27%
26	81.71%	76	86.60%	126	93.29%	176	87.76%	226	94.12%
27	81.71%	77	94.12%	127	88.92%	177	84.83%	227	90.47%
28	93.56%	78	90.94%	128	90.63%	178	80.35%	228	93.42%
29	89.74%	79	87.76%	129	85.53%	179	80.00%	229	81.58%
30	84.97%	80	94.38%	130	93.56%	180	91.98%	230	86.86%
31	91.10%	81	93.91%	131	83.56%	181	91.27%	231	92.67%
32	84.22%	82	83.56%	132	88.92%	182	81.58%	232	91.27%
33	92.57%	83	80.25%	133	91.98%	183	86.34%	233	87.76%
34	81.58%	84	84.83%	134	85.40%	184	86.21%	234	89.33%
35	90.32%	85	94.12%	135	83.02%	185	86.34%	235	86.60%
36	90.78%	86	90.03%	136	89.60%	186	93.91%	236	90.94%
37	94.38%	87	85.94%	137	89.06%	187	85.40%	237	93.29%
38	90.47%	88	80.35%	138	85.53%	188	81.71%	238	84.97%
39	86.47%	89	88.14%	139	90.78%	189	80.25%	239	90.03%
40	85.40%	90	85.67%	140	82.63%	190	83.02%	240	93.29%
41	81.94%	91	87.88%	141	90.78%	191	94.65%	241	86.34%
42	81.94%	92	81.58%	142	94.12%	192	94.12%	242	84.83%
43	85.67%	93	84.53%	143	94.38%	193	84.37%	243	82.63%
44	91.79%	94	85.11%	144	86.34%	194	90.47%	244	88.53%
45	91.61%	95	85.67%	145	91.98%	195	84.37%	245	89.06%
46	81.71%	96	81.83%	146	92.67%	196	84.97%	246	94.12%
47	82.33%	97	81.83%	147	81.28%	197	84.83%	247	80.88%
48	83.56%	98	89.74%	148	92.17%	198	88.40%	248	81.94%
49	90.17%	99	83.90%	149	92.86%	199	85.53%	249	85.40%
50	92.17%	100	91.44%	150	85.67%	200	89.74%	250	90.03%

TABLE C4-F

SILVER

Recovery Percentage

Computer Generated Random Occurence Selection

1	59.94%	51	67.85%	101	55.66%	151	59.06%	201	61.34%
2	56.42%	52	67.06%	102	66.02%	152	60.23%	202	57.12%
3	58.12%	53	62.15%	103	62.42%	153	72.54%	203	65.26%
4	68.93%	54	54.86%	104	63.20%	154	75.71%	204	75.35%
5	63.72%	55	56.05%	105	72.54%	155	74.73%	205	73.58%
6	53.88%	56	66.54%	106	58.44%	156	69.77%	206	77.13%
7	62.94%	57	66.80%	107	62.42%	157	71.25%	207	51.23%
8	73.23%	58	76.34%	108	77.13%	158	60.23%	208	71.56%
9	63.72%	59	53.66%	109	56.42%	159	57.46%	209	53.16%
10	51.23%	60	69.49%	110	51.23%	160	57.80%	210	61.07%
11	53.88%	61	68.66%	111	50.71%	161	55.27%	211	62.94%
12	76.58%	62	75.35%	112	76.12%	162	55.27%	212	53.88%
13	52.19%	63	74.34%	113	55.66%	163	67.58%	213	73.95%
14	71.56%	64	74.34%	114	62.15%	164	69.21%	214	77.45%
15	75.14%	65	61.88%	115	51.76%	165	65.00%	215	59.94%
16	68.12%	66	68.66%	116	67.06%	166	52.87%	216	50.00%
17	54.29%	67	60.23%	117	77.45%	167	67.85%	217	61.61%
18	59.06%	68	69.77%	118	62.15%	168	65.77%	218	61.07%
19	59.94%	69	76.12%	119	70.64%	169	76.84%	219	76.84%
20	71.56%	70	52.87%	120	76.58%	170	68.66%	220	75.91%
21	69.77%	71	77.45%	121	66.54%	171	70.06%	221	64.49%
22	64.23%	72	59.06%	122	79.29%	172	75.35%	222	64.75%
23	64.75%	73	54.65%	123	55.27%	173	59.65%	223	74.73%
24	57.46%	74	69.21%	124	56.77%	174	77.13%	224	56.77%
25	68.12%	75	54.09%	125	52.87%	175	51.76%	225	70.06%
26	69.49%	76	52.19%	126	67.58%	176	75.35%	226	50.51%
27	67.85%	77	62.15%	127	73.23%	177	75.14%	227	66.54%
28	61.88%	78	65.77%	128	58.12%	178	52.87%	228	58.12%
29	62.15%	79	75.71%	129	61.88%	179	63.98%	229	66.54%
30	78.24%	80	52.55%	130	53.88%	180	50.71%	230	52.87%
31	76.34%	81	57.46%	131	55.27%	181	66.80%	231	77.81%
32	61.61%	82	66.80%	132	66.02%	182	58.44%	232	58.12%
33	62.15%	83	54.86%	133	79.49%	183	79.29%	233	71.56%
34	66.28%	84	68.39%	134	53.16%	184	67.06%	234	60.79%
35	56.42%	85	70.64%	135	53.42%	185	68.66%	235	62.68%
36	53.88%	86	78.77%	136	51.23%	186	53.88%	236	76.58%
37	56.77%	87	50.51%	137	67.06%	187	61.34%	237	74.73%
38	66.28%	88	58.44%	138	60.51%	188	54.86%	238	63.72%
39	60.23%	89	52.55%	139	55.27%	189	62.68%	239	75.35%
40	61.88%	90	51.76%	140	53.16%	190	58.44%	240	54.86%
41	69.21%	91	64.49%	141	60.79%	191	59.65%	241	51.23%
42	50.51%	92	73.23%	142	72.88%	192	75.35%	242	68.12%
43	59.06%	93	60.51%	143	63.20%	193	63.46%	243	67.58%
44	60.23%	94	59.36%	144	71.56%	194	60.23%	244	57.80%
45	69.49%	95	62.94%	145	55.27%	195	66.80%	245	69.21%
46	60.23%	96	79.49%	146	70.06%	196	66.28%	246	70.64%
47	59.36%	97	72.88%	147	67.85%	197	54.29%	247	50.51%
48	57.12%	98	76.84%	148	60.23%	198	53.66%	248	54.47%
49	77.13%	99	52.87%	149	68.39%	199	75.53%	249	62.94%
50	76.12%	100	62.15%	150	54.65%	200	68.12%	250	64.75%

TABLE C4-G

TONNAGE

Per Day

Computer Generated Random Occurence Selection

1	67.5505	51	81.0240	101	70.8268	151	62.9175	201	79.66
2	77.9464	52	62.3462	102	68.5542	152	90.9670	202	76.5551
3	95.1206	53	68.0605	103	82.3990	153	65.7174	203	80
4	78.6345	54	69.4980	104	77.2541	154	67.0228	204	94.0336
5	73.6392	55	65.1769	105	87.5262	155	83.094	205	71.6659
6	65.7174	56	68.5542	106	63.4040	156	71.6659	206	94.8231
7	77.2541	57	61.6436	107	69.0329	157	74.7599	207	74.39
8	87.1318	58	71.6659	108	67.0228	158	75.1244	208	60.6737
9	90.9670	59	94.8231	109	70.8268	159	79.3172	209	65.455
10	60.6737	60	78.6345	110	83.4448	160	75.1244	210	93.7965
11	74.0173	61	89.6056	111	64.8793	161	78.6345	211	93.7965
12	72.0739	62	99.0537	112	99.0537	162	72.8681	212	77.6009
13	64.2124	63	71.2511	113	81.0240	163	77.6009	213	81.0240
14	74.0173	64	99.0537	114	66.4748	164	91.4457	214	70.8268
15	87.5262	65	69.4980	115	75.8452	165	81.0240	215	70.8268
16	68.5542	66	61.6436	116	90.0476	166	72.0739	216	62.3462
17	74.39	67	78.9759	117	73.6392	167	90.0476	217	87.1318
18	82.0536	68	89.6056	118	87.1318	168	66.4748	218	86.3607
19	83.7984	69	62.9175	119	68.5542	169	70.8268	219	91.4457
20	78.6345	70	81.0240	120	84.8756	170	68.0605	220	87.9260
21	71.2511	71	64.8793	121	99.3263	171	78.9759	221	80.6827
22	72.4737	72	75.8452	122	94.0336	172	83.4448	222	77.6009
23	85.9826	73	77.6009	123	94.0336	173	69.0329	223	83.4448
24	60	74	69.4980	124	98.3563	174	94.8231	224	77.6009
25	99.3263	75	78.6345	125	98.3563	175	65.9663	225	83.4448
26	92.4494	76	72.4737	126	78.6345	176	71.2511	226	65.9663
27	94.8231	77	92.4494	127	66.2034	177	66.4748	227	77.2541
28	72.0739	78	73.2557	128	97.0824	178	64.8793	228	94.0336
29	66.2034	79	67.0228	129	74.39	179	65.7174	229	76.906
30	65.9663	80	86.3607	130	87.5262	180	65.7174	230	99.0537
31	75.8452	81	88.7488	131	85.61	181	77.6009	231	82.0536
32	75.8452	82	95.1206	132	91.4457	182	92.9771	232	87.1318
33	94.2825	83	87.9260	133	76.2015	183	85.61	233	77.9464
34	85.2400	84	94.545	134	93.7965	184	82.0536	234	76.906
35	67.0228	85	84.8756	135	67.5505	185	72.4737	235	94.545
36	84.5138	86	94.545	136	77.9464	186	75.8452	236	75.8452
37	96.1693	87	65.7174	137	75.1244	187	63.8306	237	80.34
38	72.0739	88	73.2557	138	77.9464	188	73.6392	238	80.6827
39	66.4748	89	94.0336	139	67.0228	189	81.0240	239	90.5019
40	94.2825	90	78.6345	140	94.2825	190	96.1693	240	77.9464
41	95.4403	91	84.5138	141	67.0228	191	62.3462	241	99.0537
42	73.6392	92	63.8306	142	67.0228	192	65.7174	242	95.1206
43	62.3462	93	84.1548	143	72.0739	193	97.0824	243	72.8681
44	70.3943	94	70.8268	144	95.7875	194	86.7442	244	78.9759
45	79.3172	95	80.34	145	68.0605	195	99.3263	245	68.0605
46	86.3607	96	62.3462	146	71.2511	196	96.1693	246	64.2124
47	74.7599	97	60.9463	147	97.6537	197	60	247	72.0739
48	80.34	98	94.545	148	89.1732	198	81.7095	248	81.7095
49	85.2400	99	94.0336	149	67.0228	199	78.2904	249	94.0336
50	93.5252	100	80.34	150	75.8452	200	80.34	250	81.7095

TABLE C4-H

OPERATING COST

Per Ton

Computer Generated Random Occurence Selection

1	$22.69	51	$21.62	101	$23.41	151	$21.92	201	$20.73
2	$20.60	52	$22.36	102	$20.08	152	$21.92	202	$22.76
3	$19.71	53	$19.35	103	$23.19	153	$20.03	203	$19.28
4	$21.08	54	$22.69	104	$19.21	154	$20.69	204	$19.82
5	$23.10	55	$22.55	105	$18.71	155	$19.06	205	$20.69
6	$19.60	56	$22.84	106	$21.67	156	$18.49	206	$22.36
7	$24.24	57	$20.28	107	$22.36	157	$23.30	207	$21.35
8	$18.80	58	$19.28	108	$21.92	158	$25.02	208	$22.13
9	$20.77	59	$20.60	109	$20.42	159	$22.92	209	$20.03
10	$19.41	60	$23.41	110	$22.36	160	$20.46	210	$18.89
11	$21.21	61	$21.72	111	$22.92	161	$20.32	211	$18.23
12	$19.93	62	$23.83	112	$16.88	162	$19.35	212	$20.99
13	$17.36	63	$17.89	113	$22.42	163	$20.69	213	$23.01
14	$20.03	64	$22.42	114	$21.39	164	$20.13	214	$21.30
15	$20.99	65	$20.32	115	$19.21	165	$20.37	215	$22.19
16	$19.66	66	$22.76	116	$20.77	166	$15.70	216	$21.77
17	$21.92	67	$20.60	117	$21.72	167	$21.26	217	$19.54
18	$24.54	68	$19.06	118	$20.18	168	$22.92	218	$23.30
19	$21.39	69	$18.49	119	$19.35	169	$19.66	219	$23.53
20	$20.37	70	$20.46	120	$20.60	170	$19.35	220	$23.83
21	$20.42	71	$19.28	121	$20.32	171	$21.48	221	$18.98
22	$18.71	72	$19.48	122	$22.24	172	$20.73	222	$20.37
23	$22.49	73	$18.89	123	$21.92	173	$22.49	223	$20.69
24	$20.51	74	$20.77	124	$21.35	174	$18.23	224	$19.60
25	$23.53	75	$22.24	125	$21.21	175	$20.73	225	$19.60
26	$21.62	76	$21.08	126	$20.23	176	$23.30	226	$18.80
27	$21.30	77	$21.87	127	$22.92	177	$21.92	227	$21.67
28	$19.60	78	$21.39	128	$19.93	178	$18.98	228	$19.21
29	$25.02	79	$23.10	129	$21.58	179	$21.04	229	$19.14
30	$20.08	80	$20.46	130	$23.41	180	$19.77	230	$20.37
31	$20.60	81	$22.30	131	$20.86	181	$22.49	231	$21.72
32	$21.39	82	$18.49	132	$20.32	182	$21.04	232	$21.04
33	$22.62	83	$25.02	133	$20.99	183	$20.18	233	$19.71
34	$22.62	84	$18.07	134	$21.17	184	$19.66	234	$20.64
35	$21.97	85	$18.23	135	$22.19	185	$19.14	235	$21.97
36	$22.19	86	$23.30	136	$18.71	186	$19.35	236	$19.98
37	$22.08	87	$19.98	137	$21.72	187	$19.35	237	$20.37
38	$19.21	88	$22.92	138	$23.10	188	$22.08	238	$20.64
39	$24.24	89	$20.08	139	$20.13	189	$17.66	239	$18.49
40	$21.53	90	$20.86	140	$22.76	190	$24.54	240	$21.53
41	$21.13	91	$16.88	141	$21.62	191	$19.60	241	$19.41
42	$20.91	92	$19.28	142	$21.17	192	$17.36	242	$24.24
43	$19.88	93	$18.07	143	$20.99	193	$21.04	243	$19.28
44	$18.07	94	$19.35	144	$20.82	194	$20.95	244	$21.72
45	$21.04	95	$23.53	145	$21.87	195	$22.84	245	$21.87
46	$15.70	96	$23.53	146	$19.28	196	$21.82	246	$21.17
47	$19.14	97	$20.99	147	$25.02	197	$19.71	247	$24.01
48	$21.77	98	$21.97	148	$21.35	198	$22.49	248	$18.07
49	$21.67	99	$19.93	149	$22.92	199	$20.64	249	$17.66
50	$20.95	100	$20.32	150	$20.32	200	$21.21	250	$22.42

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ST. JOE
RESOURCES COMPANY
NATIONAL ZINC DIVISION

P.O. Box 579
Bartlesville, Oklahoma
74005-0579

Base Schedule
for deductions and discounts
for Smelter Processing

Exhibit Number 2

1.0 - DELIV

F.O.B. railcar, smelter.

OCT 11 1995

2.0 - PRICE:

To be the sum of the PAYMENTS less the sum of the DEDUCTIONS as specified below:

PAYMENTS

2.1 - Zinc:

Pay for 85% of the zinc content, subject to a minimum deduction of eight units, at the Metals Week U. S. Producer High Grade zinc quotation (MW US HG), as published in Metals Week, averaged for the Quotational Period, less 1.50 cents per pound of payable zinc.

2.2 - Gold:

Deduct 0.03 troy ounce of gold per dry short ton of concentrates and pay for 60% of the remaining gold content at the daily London Final gold quotation, as published in Metals Week, averaged for the Quotational Period, less $7.00 per troy ounce of payable gold.

2.3 - Silver:

Deduct 3.0 ounces of silver per dry short ton of concentrates and pay for 60% of the remaining silver content at the Handy & Harman refined quotation, as published in Metals Week, averaged for the Quotational Period less 30 cents per ounce of payable silver.

No payment will be made for any metal or content except as above specified.

DEDUCTIONS

2.4 - Treatment Charge:

$180.00 per dry short ton of concentrates, based on a MW US HG zinc quotation of 38 cents per pound.

2.5 - Treatment Charge Adjustment:

For each one cent (1¢) that the MW US HG zinc quotation, averaged for the Quotational Period, is greater than 38 cents, the Treatment Charge shall be increased by $3.50 per dry short ton of concentrates, fractions pro rata. For each one cent (1¢) that the MW US HG zinc quotation, averaged for the Quotational Period, is less than 38 cents, the Treatment Charge shall be decreased by $2.50 per dry short ton of concentrates, fractions pro rata.

2.6 - Iron Penalty:

8.0 units free; the excess will be charged at $1.50 per dry short ton per unit, fractions pro rata.

2.7 - Precious Metal Value Adjustment:

Charge 5% of the sum of the gold and silver payments in excess of $100 per short dry ton of concentrate.

3.0 - QUOTATIONAL PERIOD:

The governing quotational period shall be the calendar month following the date of delivery at the receiving plant.

4.0 - PAYMENT:

Payment for concentrates received shall be made on the earliest practicable date following the availability of all necessary information.

ASARCO INCORPORATED

180 Maiden Lane
New York, N.Y. 10038

Base Schedule
for deductions and discounts
for Smelter Processing

Exhibit Number 3

PAYMENTS

GOLD: Deduct 0.02 troy oz./dry short ton, pay for 95% remaining at average London Daily Final, less $6.00/troy oz. payable gold.

SILVER: Deduct 1.0 troy oz./dry short ton, pay for 95% remaining at average Handy & Harman refined, less 30¢/troy oz. payable silver

LEAD: Deduct 1.5 units, pay for 95% remaining at Asarco's average monthly price for refined lead, less 12¢/pound payable lead.

QUOTATIONAL PERIOD

Quotational period shall be the third calendar month following date of delivery.

TREATMENT DEDUCTION

The base treatment deduction shall be $105 per dry short ton of product, and shall be escalated on the basis of metal value or an inflation index. Such escalator base to be discussed.

IMPURITY DEDUCTIONS

ARSENIC: Fifteen dollars per unit, fractions in proportion.

ANTIMONY: Fifteen dollars per unit, fractions in proportion.

BISMUTH: Thirty dollars per unit, fractions in proportion.

SETTLEMENT

Asarco shall make settlement on all constructively delivered shipments on the tenth business day following the quotational period if all necessary information is available. Otherwise, a 100% provisional payment shall be made on the tenth business day following the quotational period based on best available information and final settlement to follow when all necessary information is available.

OTHER TERMS

Per Asarco's usual agreement including Weighing, Sampling & Assaying (gold and silver by unadjusted commercial fire assay), Force Majeure, Taxes, Diversion, etc.

We look forward to your questions and comments regarding the foregoing indication of terms.

Very truly yours,

J. H. Beck

J. H. Beck

JHB/tlb

PART C

INTRODUCTION

Having previously discussed the history and current capabilities of the facility along with projections from the probability analysis, we come to the review of what it all means. The intention of this report is to summarize what we expect the expanded facilities capability and profitability to be taking into account the needed capital improvements.

In Part "C" we will examine each of three Phases of expansion we intend to pursue. These Phases are:

Phase I : Gravity Operation - Processing of 500 tons per day through the use of Gravity concentration along with limited Flotation and Cyanide Agitated Leach circuits for recovery purposes. (The intent is to operate on extremely low grade ores)

Phase II : Flotation Operation - Processing up to 100 tons per day through the use of Flotation concentration. (The intent is to operate on moderate grade ores, invariably containing base metals)

Phase III : Cyanide Agitated Leach Operation - Process up to 100 tons a day through the use of a high pressure closed circuit cyanide agitated leach circuit for recovery. (The intent is to be able to recover precious metals quickly and economically from slightly higher grade ores that are amenable to cyaniding.)

Each Phase (operation) of the facility will work completely independent of the others. The Gravity operation is based upon the needs of the dump material we have access to and will incorporate existing crushing and cyanide agitated leach capabilities.

We will examine the capital cost requirements for each of the three phases of operation as it relates to each circuits equipment needs.

Most important we will examine what the results of the probability analysis were. How this relates to our program and how we ultimately analyzed the results ourselves.

ARMCO EXPANSION PROGRAM NUMBER 1
PROPOSED EQUIPMENT ACQUISITION FOR EXPANSION OF MILL FACILITY TO 500 TON PER DAY GRAVITY-FLOTATION CIRCUIT.

Explanation of the flow of material on the Proposed 500 ton Gravity/Flotation circuit.

The material will be crushed to 0.5 inch minus thru the crushing circuit. The crushing will take approximately 8 hours and can be done in one shift.

The fine ore material will be stored in a fine ore bin which will have the capacity to store in excess of 500 tons of ore, which is one days production thru the gravity/flotation circuit in 24 hours.

The ball mill will be feed from the fine ore bin by a pan feeder. The ball mill will wet grind the ore to minus 6 mesh which will be feed to a Denver mineral jig. The jig will concentrate the ore to approximately a 10 to 1 ratio with the concentrates from the jig being pumped to the regrind ball mill for regrinding to feed the flotation circuit. The anticipated volume of concentrates to be feed from the jig to the flotation cells will amount to 50 tons containing approximately 35% of the values with the remaining 450 tons being sent to a screen. The screen will seperate the tails into two commodities, plus 20 mesh and minus 20 mesh material. Approximately 150 tons of minus 20 mesh material will be generated from the screening operation which will be sent to a splitter and distributed to the four gravity tables. The 150 tons of minus 20 mesh material has been calculated as containing 80% of the balance of the 65% of the values remaining from the jig concentrates. The balance of the tails from the screen, the plus 20 mesh material, will be sent directly to the cyanide agitated leach circuit to capture the remaining gold and silver values and then finally disposed of in the cyanide tailings pond.

The 150 tons of minus 20 mesh material as previously mentioned, will then be concentrated utilizing the gravity tables at a ratio of 10 to 1. This would generate another 15 tons of concentrates containing approximately 75% of the total value from the original 150 tons of minus 20 mesh material. The tails from the tables will be pumped directly to the agitated cyanide leach circuit for recovery of the remaining gold and silver values. The middlings from the tables will be sent back to the large ball mill for regrinding and reprocessing thru the jig and gravity tables.

The jig and table concentrates, which amounts to approximately 65 tons, will be sent to the regrind ball mill for further grinding down to approximately minus 80 mesh. From the regrind ball mill, the ore will be classified and sent to the flotation circuit where a 15 to 1 concentration ratio can be anticipated with a recovery of 80% of the lead, gold and silver values. The tails from the flotation circuit will be sent directly to the tailings pond for disposal.

The agitated cyanide circuit will be processing approximately 435 tons of tails from the jig and gravity tables. The anticipated recovery from the cyanide circuit will amount to 60% of the gold and silver values that were left in the tails. The process should be relatively quick since most of the values will be oxides, thus reducing the retention time for extraction of the precious metals. From the agitated cyanide leach circuit the pregnant solution will be seperated from the ore, with the pregnant solution being sent to the precipation room for removal of the precious metals and the tails will be neutralized and sent to the tailings disposal pond.

The concentrates from the flotation process will be stored in concentrate storage area for later shipment to the lead smelter. The zinc precips will be sent to the laboratory for smelting and refining.

Summary of equipment needed to expand to the 500 ton gravity/flotation circuit. Refer to the proposed 500 ton gravity/flotation schematic on page 160 for details on the following information.

1. **CRUSHING.** The circuit is completed to a 1000 ton per day (24 hours) capcity. It utilizes a 15" X 36" Universal Jaw Crusher for primary crushing and a Simons 3' short head cone crusher for secondary crushing. Some minor modifications to the current screening capabilities may be needed depending on final size determination on feed to the ball mill.

2. **GRINDING.** An 8' X 8' Hardinge Ball Mill has been purchased and is at the ARMCO Mill Facility. The purchase included the motor and controls for the ball mill which may have to be replaced with up-dated equipment. A spiral classifier or hydrocyclone, depending on cost and performance requirements, will be needed for product classification. An SRL pump will be needed to pump material from the ball mill/classifier to the gravity circuit.

3.1 **FLOTATION.** A flotation circuit that can handle between 50 and 100 tons per day will need to be purchased. Some equipment is at the mill but the majority of the equipment will need to be purchased. This includes 2 banks of flotation cells of 6 to 8 cells each(Denver #18 or equivalent), conditioner tanks, pumps, reagent feeders and other related flotation equipment.

3.1 AGITATED CYANIDE LEACH. The majority of this circuit is currently installed. The purchase of two additional agitator mechanisms and pumps for the two 10' X 10' holding tanks will double the agitation circuit capacity. This would give the needed capacity for processing the tails from the gravity circuit. The bottoms of the agitator tanks may have to be modified by installing conical bottoms.

3.7 GRAVITY JIG. This encomnpasses the purchase of Denver mineral jigs, pumps and a screen for proper classification of material to the gravity tables and the cyanide agitated leach circuit.

3.7 GRAVITY TABLE. Four tables have been designed into the system which will handle approximately 150-200 tons of the material, which is the calculated tonnage that will be -20 mesh material screened from the mineral jig tails. The purchase of 2 to 3 additional gravity tables and pumps will complete this portion of the circuit.

3.2 CONS THICKENER. The cons thickening will be handled by two hydrocyclones. The hydrocyclones will replace the more expensive conventional thickener tanks.

3.3 FILTER CONS. A two compartment 4' disc filter unit will handle the anticipated tonnage from the flotation circuit.

3.8 DRYING CONS. Cement holding bins will be constructed to handle the concentrates and the cons will be allowed to air dry.

6.1.2 REGRIND. A small 3' or 4' ball mill will be purchased to grind approximately 70 tons of material from the jig and gravity tables for the flotation circuit. A small spiral classifier or hydrocyclone will be used for proper material classification. One pump, a galigher 1" pump will be needed to supply the nmecessary pumping demands to the flotation circuit.

4.1 DEWATERING TAILS. The conventional expensive thickener tanks will not be used. Engineering data has indicated that a bank of hydrocyclones will sufficiently dewater the tails from the various circuits.

4.2 TAILS DISPOSAL. Primarily directed toward the disposal and neutralization of cyanide tailings which will require an agitator tank for the neutralizing of cyanide and possibly some pond liners for the sealing some additional tailings ponds. The purchase of some additional pumps will be needed for the tails disposal.

4.3 WATER RECLAMATION. The system is essentially complete with the exception of 1 lined pond for water storage.

4.4 DIKES AND DAMS. The tailings ponds for the disposal of flotation tails has been completed. The tailings disposal area for the tailings from the cyanide agitation process will need to be prepared and dams built for the initial filling.

6.1 WATER SYSTEM. Plans are to pull the old well pump, clean the hole, and install a new pump and redo the electrical service to the pump.

6.2 ELECTRICAL SYSTEM. This is the largest single expenditure for equipment in the proposed expaansion program. A generator has been budgeted for in order for Alanco to supply its' own power to the mill facility. Based on preliminary figures to date, it will be cheaper to produce our own power than to buy power from the co-operative out of Sierra Vista. The other expenditures will be for additional panels and electrical supplies to expand the electrical system on the expansion program beyond what is already installed. Their will be an approximate 500 HP increase in electric demand beyond what is currently installed at the mill facility.

6.3 MILL BUILDING. This is essentially a cover over the ball mill and necessary awnings for equipment outside the existing mill building. Much of the money needed for the foundations for the ball mill is in the mill building expenditures.

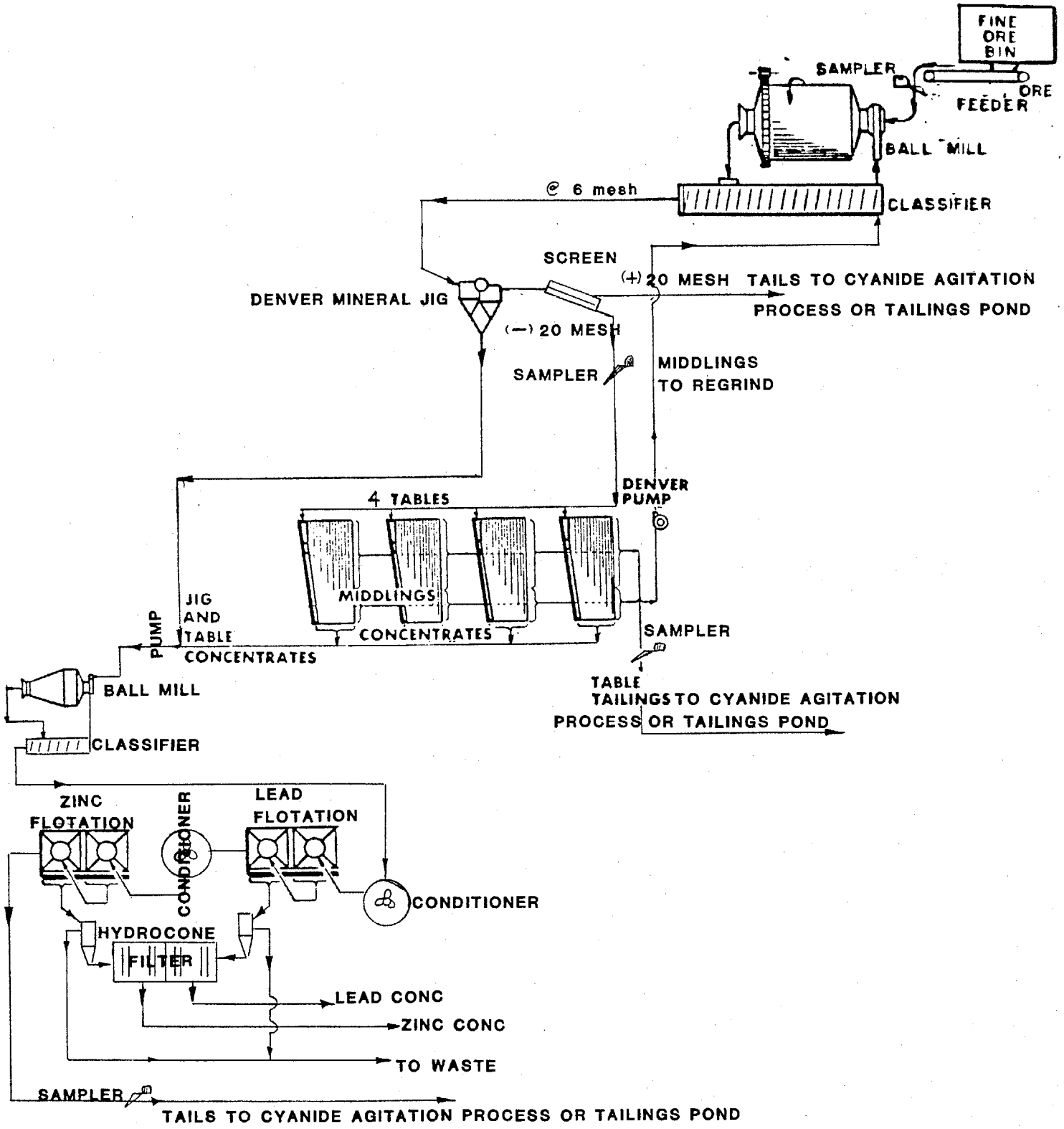
6.4 OFFICE AND LAB. No expenditures have been budgeted. The lab is well enough equiped to handle most metallurgical testing programs and to take care of the mill quality control testing.

6.5 VEHICLES. The money budgeted for will be for the purchase of an articulated front end rubber tired loader of approximately 3 1/2 yard capacity.

6.6 MISC. EQUIPMENT. This is money budgeted for hand tools, welders and etc. needed in the installation of the equipment in the proposed expansion program.

PROPOSED TWO PRODUCT GRAVITY AND FLOTATION PROCESS

DESIGNED TO RECOVER PRECIOUS METALS AND BASE METALS FROM THE APPROXIMATE 1,000,000 TONS OF TOMBSTONE DUMP MATERIAL



ARMCO EXPANSION PROGRAM NUMBER 2
PROPOSED EQUIPMENT ACQUISITION FOR EXPANSION OF MILL FACILITY TO 100 TONS PER DAY FLOTATION CAPACITY.

EXPANATION OF THE FLOW OF MATERIAL ON THE PROPOSED 100 TON FLOTATION CIRCUIT.

The incoming ore will be crushed to minus 0.5 inch thru the crushing circuit. The crushing circuit will be supplying the 500 ton per day gravity/flotation circuit plus the added proposed 100 ton per day flotation clircuit. This would require additional time in crushing and could expand the program to a second shift.

The fine ore material will be stored in a fine ore bin which will have the capacity to store in excess of 200 tons of crushed ore. This would be enough storage for approximately two days of running time.

The ball mill will be feed from the fine ore bin by a pan feeder. The ball mill will wet grind the ore to a minus 80 mesh which will feed a hydrocyclone for proper classification before being pumped to the flotation circuit.

The flotation circuits will be designed for a two product flotation process, which will be based on lead and zinc ores that were found to be the predominant ores that were tested and available to the mill. The two product flotation circuit will have an estimated concentration ratio from 10 to 1 to 15 to 1 with some of the higher grade ores in the area of 8 to 1 concentration ratios. This will yeild from 7 to 13 tons of concentrates per day (24 hours) from the flotation circuit. When ores that contain lead and copper, the circuit can easily be switched over to a lead and copper flotation process by changing the reagents. Tests have indicated that the ores from Mexico ran toward the lead-copper in some of the districts.

The concentrates will be stored in concentrate bins until such time they are shipped to the smelter for refining. The tails from the flotation process will be pumped directly to a hydrocyclone for dewatering and disopsal in the tailings pond.

Summary of equipment needed to expand to the 100 ton flotation circuit. Refer to the proposed 100 ton per day flotation schematic on page 163 for specific details on the following information.

1. CRUSHING. The circuit is completed to a 1000 ton per day (24 hours) capacity. It is the same circuit described in the summary of equipment under the 500 ton per day gravity/flotation circuit.

2. GRINDING. An 5' X 5' hardinge conical ball mill or equivalent must be pruchased to handle the 100 tons of ore to be feed to the flotation circuit. Hydrocyclones will be purchased which will replace the conventional spiral classifier for classification of the ground ore. An SRL pump will be needed for the pumping of the ore from the ball mill to the conditioner tank on the flotation circuit.

3.1 TWO PRODUCT FLOTATION. A flotation circuit that wil handle no less than 100 tons per day of ore will need to be purchased. Two products will be produced, so two flotation units consisting of 8 to 10 cells each(Denver # 18 or equivalent) will be needed along with the accompanying pumps, conditioner tanks. and reagent feeders. Refer to the flotation schematic on page 163 for futher details.

3.2 CONS THICKENER. This can be accomplished by using hydrocyclones to dewater the cons before they go to the disc filters.

3.3 FILTER CONS. Must purchase a 2 compartment disc filter and pumps to handle the two flotation products.

3.8 CONS DRYING. Alanco will construct cement holding bins for the storage of concentrates generated from the flotation circuit and allow them to air dry.

4.1 DEWATERING TAILS THRU 6.1 WATER SYSTEM. The handling of the tails dewatering, disposal, water reclamation, dikes and dams and the water system is already installed and only minor pumping and the use of additional hydrocyclones will be needed. (This is predicated on the fact that the 500 ton per day gravity/flotation circuit has been installed.)

6.2 ELECTRICAL SYSTEM. Additional panels and circuits will have to be installed to handle the additional 200 HP that is estimated to run the proposed 100 ton flotation circuit expansion.

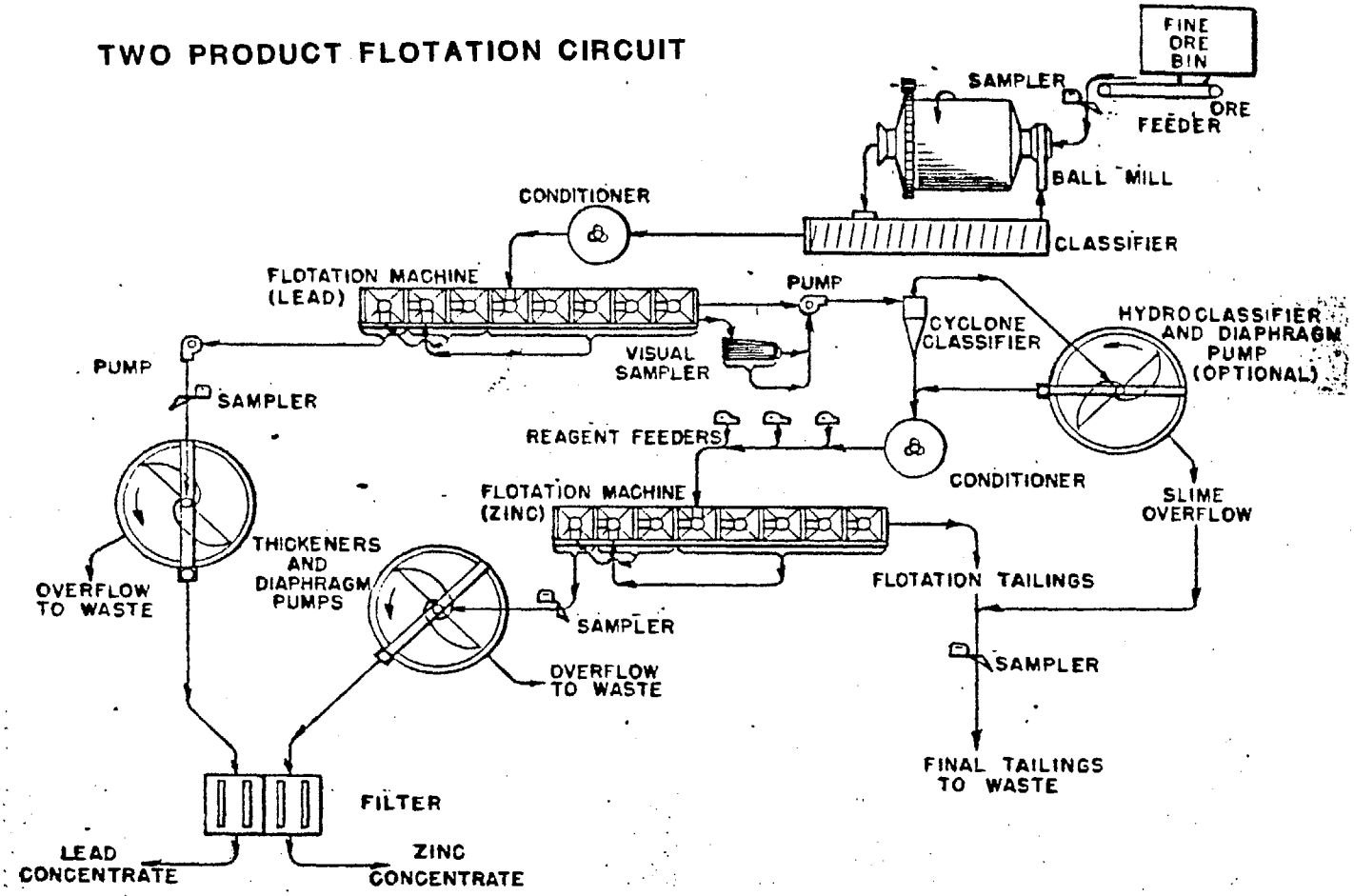
6.3 MILL BUILDING. No expenditures are scheduled. The mill building is of suffcicient size to house the added flotation circuit.

6.4 OFFICE AND LABORATORY. The laboratory facilities are already complete and no expansion will be needed.

6.5 VEHICLES. There will be no need to purchase any more machinery at this time.

6.6 MISC. EQUIPMENT. No further purchases are necessary.

TWO PRODUCT FLOTATION CIRCUIT



MILL EQUIPMENT LIST

EQUIPMENT DESCRIPTION	100 TONS/24 HRS. MACHINE SIZE	HP.
Ball Mill	5'X 5' or equivalent	75-100
Spiral Classifier	36"X18'X8"	3
Lead Conditioner Tank	4'x4'	1½
Flotation Machine	8 Cell @3'X3'	30
SRL Pump -pb conc't	2"X2"	1
Thickener-Lead	12' Dia. X 10'	3
diaphragm pump	2" Simplex	1
Visual Sampler, pb tails	40"X18" Wifley	½
SRL Pump, pb tails	3"X3" SRL	2
Cyclone Classifier	----	-
Hydroclassifier (optional)	----	-
Diaphragm Pump	----	-
Zinc Conditioner	5'X5'	2
Flotation Machine	8 Cell @3'X3'	30
Thickener-Zinc	15' Dia. X 10'	3
Diaphragm Pump	3" Simplex	1
Disc Filter, pb & zn	4' dia. X 5 disc.	1
Vacuum Equipment	144 CFM	10
Automatic Samplers	----	-
Dry Reagent Feeders	----	-
Wet Reagent Feeders	----	-

ARMCO EXPANSION PROGRAM NUMBER 3
PROPOSED EQUIPMENT ACQUISTION FOR EXPANSION OF MILL TO 100 TONS PER DAY OF AGITATED CYANIDE LEACHING CAPACITY.

Explanation of the flow of material on the proposed 100 ton per day agitated cyanide leaching circuit.

The incoming ore will be crushed to minus 0.5 inch thru the crushing circuit. The crushing circuit will be supplying the 500 ton per day gravity/flotation circuit and the 100 ton per day flotation circuit. The proposed addition of the 100 ton per day cyanide agitation porcess will not add any further burden on the crushing capacity, for all 700 tons can be crushed in two shifts.

The fine ore material will be stored in a second fine ore bin which will have the capacity to store in excess of 200 tons of crushed ore. This would be enough storage for approximately two days of running time.

The ball mill will be feed from tlhe fine ore bin by a pan feeder. The ball mill will wet grind the ore to a minus 60-80 mesh or finer which will feed a hydrocyclone for proper classifiction before being pumped to the agitation circuit. Lime will be added in the ball mill for proper conditioning of ore before the cyanide is added.

The classified material will flow to a sump at the ball mill area, where the cyanide will be added, and then pumped to the proper agitated circuit. Two agitation circuits will be installed, one circuit will be for batch type cyanide agitaion and one circuit will be for a continuous flow circuit. The batch type circuit will be for the higher grade material that is amenable to cyanide but needs longer retention time and the continuous flow circuit will be for lower grade material that is easily extracted on shorter retention times. Pumps will be added to all of the agitatior tanks to increase the efficiency of the agitation process.

Pregnant solution will be stripped at various places along the agitation process and sent to the filter press room for zinc precipitation. Counter current decantation will be used on the continuous cyanide circuit while the batch type circuit will be allowed to settle and stripped of pregnant solution and the tank refilled with fresh cyanide solution.

Once the ore has completed the proper retention time and maximum extraction of precious metals has been reached, the ore will be stripped of all pregnant solution, washed, neutralized and pumped to the tailings pond disposal area.

The zinc precips from the press room will be taken to the smelting room located at the lab for smelting and subsequent refining.

Summary of equipment needed to expand to the 100 ton agitated cyanide circuit. Refer to the proposed 100 ton per day batch and continuous cyanide agitation process schematic on page 167 for details.

1. **CRUSHING.** The circuit is completed to a 1000 ton per day (24 hour) capcity. It is the same circuit discribed in the summary of equipment under the 500 ton per day gravity/flotation circuit.

2. **GRINDING.** An 5' X 8' hardinge ball mill or equivalent must be purchased to handle the 100 tons of ore to be feed to the agitated cyanide circuit. Hydrocyclones will be used for classification of ore from the ball mill. Two SRL pumps will be needed to pump the ore from the ball mill to the hdrocyclones and then from the sump, where the cyanide is added, to the agitator tanks.

3.1 **CYANIDE LEACH.** Must install from 4 to 5 additional 10' X 10' agitator tanks, mechnisms, pumps, hydrocyclones and thichener tanks associated with the batch type and continuous cyanide agitated circuits. A filter press is being installed in the precipitation house to handle the anticipated quanity of pregnant solution that must be stripped of the precious metals. Refer to the schematic on page 167 for details.

4.1 **DEWATER TAILS.** This will either be a hydrocyclone or a small thichener tank for the dewatering of the tails and to strip the pregnant solution from the ore.

4.2 **TAILS DISPOSAL.** This will consist of a pump and agitator tank for the purpose of pumping and neutralizing of the tails before being sent to the tailings disposal pond.

4.3 **WATER RECLAMATION.** A pond liner will need to be purchased for the lining of the additional solution storage ponds for fouled mill solution. This will allow the solutions to be rejuvenated and made ready for reuse back into the cyanide leaching process.

4.4 **DIKES AND DAMS THRU 6.1 WATER SYSTEM.** The dikes and dams will be utilized from the 500 ton per day gravity/flotation circuit and the water system will need only minor changes since much of the system has been installed.

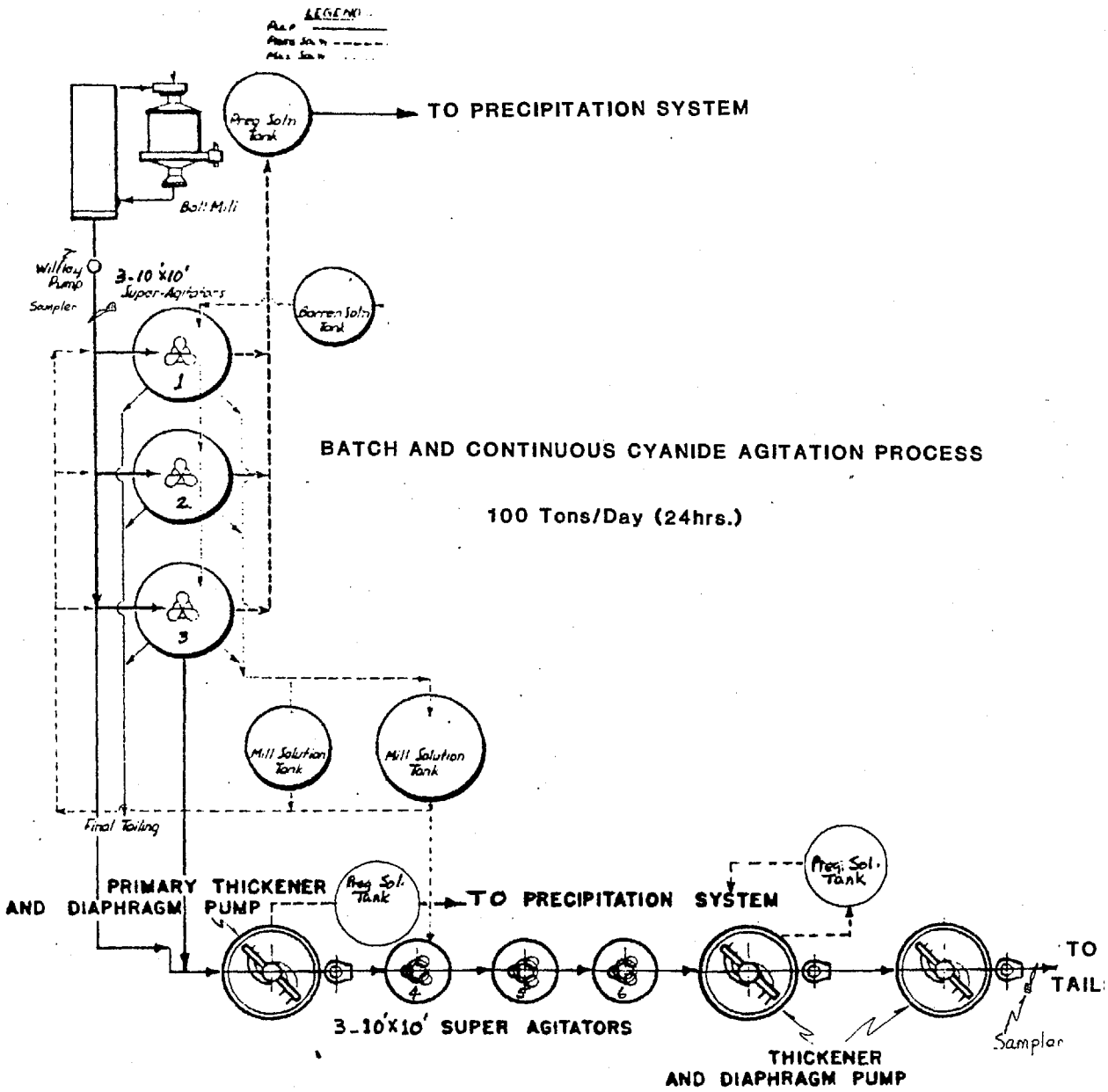
6.2 **ELECTRICAL SYSTEM.** The major electrical changes will be associated with the installation of the ball mill. There will be an estimated 250 HP increase in demand over the existing circuits that are currently installed.

6.3 MILL BUILDING. No expansion is planned for the mill building. Much of the equipment will be located outside and there will be no need for a building.

6.4 OFFICE AND LABORATORY. No expansion to the laboratory is planned. The laboratory is well enough equipped to handle all quality control and research work required for the expansion of the mill facililty.

6.5 VEHICLES. No expenditures are planned. This has been taken care of in the 500 ton per day circuit.

6.6 MISC. EQUIPMENT. No additional quipment will be needed for the installation of the proposed expansion program.



MILL EQUIPMENT LIST

EQUIPMENT DESCRIPTION	100 TONS/24 HRS. MACHINE SIZE	HP
BALL MILL	5'X8' or equivalent	75-100
SPIRAL CLASSIFIER	36"X18'X18"	3
SUPER AGITATORS	6-10' dia X10'	60
SRL PUMPS	6-3" SRL	30
THICKENER TANKS	3- 20' dia. X 10'	9
DIAPHRAM PUMP	3-3" Simplex	9

CAPITAL COSTS OF EXPANSION

Using the "Capital and Operating Cost Estimating System Manual for Mining and Benefication of Metallic and Nonmetallic Minerals Except Fossil Fuels in the United States and Canada" we determined the capital cost requirements of each circuit in the milling operation. We accomplished this task for each of the three proposed operations (Gravity, Flotation and Cyanide Agitated Leach) to be included in the envisioned fully operational facility.

How the Capital Costs were Calculated

Using the aforementioned manual (previously utilized in the development of the Operating Costs) it is necessary to predetermine and set certain variables. The variables used in the development of the capital costs are identical to the variables used in the development of the operating costs and can be found in Part B, Section 3, page 48 under operating costs.

When the process to determine capital costs is first set in motion, unit production figures and escalation factors for materials and supplies plus equipment purchases are calculated. (One should note that the materials and supplies is composed mainly of labor.) Once calculated these figures are combined in the Summary of Item Cost Tables which calculate and identify the total capital requirements for each operation, as well as each circuit in each operation.

On the following pages, one will find the escalation factor and summary Tables, for review, identified as:

Table 2G - Escalation Factors - Gravity Operation
Table 2H - Summary of Item Costs - Gravity Operation
Table 2I - Escalation Factors - Flotation Operation
Table 2J - Summary of Item Costs - Flotation Operation
Table 2K - Escalation Factors - Cyanide Agitated Leach Operation
Table 2L -Summary of Item Costs - Cyanide Agitated Leach Operation

When we developed the original capital cost figures we expected there to be certain overlapping capabilities. This is due to the "Capital Cost Estimating System Manual" being based upon a newly constructed installation. We were aware with the present capabilities at the facility and the fact that we intend to include three seperate and nondependent operations that the capital cost figures would need to be adjusted.

We determined there were two possible ways to adjust these capital costs, being: 1.) by trying to adjust the results in the use of the "Capital Cost Estimating System Manual" or 2.) by taking the capital cost figures arrived at by use of the manual, and adjusting afterwards. It was felt we could ascertain a more representative capital cost figure by using the second method.

Therein, we established and adjusted the overlapping capabilities by referring to available equipment sources for operating specifications and based further upon the already established circuits at the facility. The results of the adjustments have been included in Table 2M for review. This is a more realistic representation of the capital cost requirements. Throughout the adjustment procedure, we based the capital cost requirements as though the Gravity Operation were being installed first with the Flotation and Cyanide Agitated Leach Operations to follow.

```
##########################################################
#                        TABLE 2G                        #
#                                                        #
# Subject                    Proj. No. 85-02-20500       #
# Escalation Factors for     Sheet   1  of  2            #
# 500 t-p/d Gravity Mill     By   K.L.J.  Date 11-11-85  #
# Capital Costs              Group _________Item________ #
# ====================================================== #
# 6.1.1 Crushing                                         #
#          Escalation Factors                            #
#                 S=    .5058            YsubX= 443646.1 #
#                 E=      .62                            #
#          Work Index=12                                 #
#                Size Factor= 1.000501                   #
#                                                        #
# 6.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 S=    .4436            YsubX= 448745.8 #
#                 E=      .66                            #
#                Size Factor= .1374898                   #
#                                                        #
# 6.1.3.7 Gravity Seperation                             #
#          Escalation Factors                            #
#                 S=    .4688            YsubX= 207015.5 #
#                 E=      .62                            #
#                                                        #
# 6.1.3.7 Gravity Seperation Tables                      #
#          Escalation Factors                            #
#                 S=    .4688            YsubX= 85021.91 #
#                 E=      .62                            #
#                                                        #
# 6.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 S=    .4436            YsubX= 110440.5 #
#                 E=      .66                            #
#                Size Factor= .7522736                   #
#                                                        #
# 6.1.3.1 Flotation                                      #
#          Escalation Factors                            #
#                 S=    .4688            YsubX= 118337.3 #
#                 E=      .62                            #
#          Two-product Float factor YsubX by    1.363444 #
#                                                        #
# 6.1.3.2 Concentrate Thickening                         #
#          Escalation Factors                            #
#                 S=     .431            YsubX= 10479.14 #
#                 E=      .68                            #
#                                                        #
# 6.1.3.3 Concentrate Filtration                         #
#          Escalation Factors                            #
#                 S=    .4362            YsubX= 33618.05 #
#                 E=      .66                            #
#                                                        #
#                                                        #
#                                                        #
##########################################################
```

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##########################################################
#                        TABLE 2G                        #
#                        (cont.)                         #
# Subject                    Proj. No. 85-02-20500       #
# Escalation Factors for     Sheet   2  of  2            #
# 500 t-p/d Gravity Mill     By   K.L.J.  Date 11-11-85  #
# Capital Costs              Group _________Item________ #
# ====================================================== #
# 6.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 S=    .4162            YsubX= 76713.46 #
#                 E=      .68                           #
#                                                        #
# 6.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                 S=    .6472            YsubX= 50302.34 #
#                 E=      .56                           #
#                                                        #
# 6.1.4.3 Water Reclamation                              #
#          Escalation Factors                            #
#                 S=    1.237            YsubX= 26818.94 #
#                 E=      .17                           #
#                                                        #
# 6.1.4.4 Earthfill Dikes and Small Dams                 #
#          Escalation Factors                            #
#                 S=   1.6573            YsubX= 132058.9 #
#                                                        #
# 6.1.6.1 Water Supply System                            #
#          Escalation Factors                            #
#                 S=    .3962            YsubX= 36200.89 #
#                 E=       .7                           #
#                                                        #
# 6.1.6.2 Electrical System                              #
#          Escalation Factors                            #
#                 S=    .3566            YsubX= 276972.4 #
#                 E=      .71                           #
#                                                        #
# 6.1.6.3 Mill Buildings                                 #
#          Escalation Factors                            #
#                 S=    .5758            YsubX= 305268.8 #
#                 E=      .55                           #
#                                                        #
# 6.1.6.4 Office and Labratories                         #
#          Escalation Factors                            #
#                 S=   1.2488            YsubX= 142865.8 #
#                 E=      .21                           #
#                                                        #
# 6.1.6.5 Vehicles                                       #
#          Escalation Factors                            #
#                 E=        1            YsubX= 99425.52 #
#                                                        #
# 6.1.6.6 Miscellaneous Equipment                        #
#          Escalation Factors                            #
#                 E=        1            YsubX= 29443.00 #
#                                                        #
##########################################################
```

TABLE 2H
SUMMARY OF ITEM COSTS

Group: 6.1
WORK: Capital Costs for construction of a 500 ton a day Gravity Circuit

Estimate 85-02-20500
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description	Quan.	Labor			Materials and Supplies			Equip. oper. purchase			ITEM TOTAL
			Un.cost*	prod. fact.	=TOTAL	Un.cost*	prod. fact.	=TOTAL	Un.cost*	prod. fact.	=TOTAL	
6.1.1	Crushing	455				443646.1	.5058	224396.2	443646.1	.62	275060.6	499456.78
6.1.2	Grinding	455				448745.8	.0609905	27369.22	448745.8	.0907433	40720.66	68089.8
6.1.3.7	Gravity Jig	455				40905.76	.4562	18661.21	40905.76	.64	26179.69	44840.89
6.1.3.7	Gravity Tables	140				425109.6	.4688	199291.4	425109.6	.62	263567.9	462859.28
6.1.2	Re-grind	70				110440.5	.3337086	36854.94	110440.5	.4965006	54833.77	91688.71
6.1.3.1	Two-Prod. Flote	70				118337.3	.6391825	75639.14	118337.3	.8453353	100034.7	175673.83
6.1.3.2	Con Thickening	5				10479.14	.431	4516.509	10479.14	.68	7125.815	11642.32
6.1.3.3	Con Filtration	5				33618.05	.4362	14664.19	33618.05	.66	22187.91	36852.11
6.1.4.1	Dewater Tails	450				76713.46	.4162	31928.14	76713.46	.68	52165.15	84093.29
6.1.4.2	Tails Disposal	450				50302.34	.6472	32555.67	50302.34	.56	28169.31	60724.98
6.1.4.3	Water Reclamation					26818.94	1.2377	33193.80	26818.94	.17	4559.220	37753.02
6.1.4.4	Dikes & Dams					132058.9	1.6573	218861.2				218861.21
6.1.6.1	Water System					36200.89	.3962	14342.79	36200.89	.7	25340.62	39683.42
6.1.6.2	Electrical System					276972.4	.3566	98768.36	276972.4	.71	196650.4	295418.76
6.1.6.3	Mill Builddings					305268.8	.5758	175773.8	305268.8	.55	167897.8	343671.62
6.1.6.4	Off. & Labs					142865.8	1.2488	178410.8	142865.8	.21	30001.82	208412.63
6.1.6.5	Vehicles								99425.52	1	99425.52	99425.52
6.1.6.6	Misc. Equip.								29443	1	29443	29443.00
	SUB-TOTAL							1385227.			1423364.	
	TOTAL											2808591.27
						COST PER TON OF INSTALLED CAPACITY					5617.18	

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##########################################################
#                        TABLE 2I                        #
#                                                        #
# Subject                    Proj. No. 85-02-10100       #
# Escalation Factors for     Sheet   1  of  2            #
# 100 t-p/d Flotation Mill   By   K.L.J.  Date 10-11-85  #
# Capital Costs              Group _________Item________ #
# ====================================================== #
# 6.1.1 Crushing                                         #
#          Escalation Factors                            #
#                 S=    .5058            YsubX= 160430.7 #
#                 E=      .62                            #
#          Work Index=12                                 #
#                Size Factor= 1.000501                   #
#                                                        #
# 6.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 S=    .4436            YsubX= 134422.5 #
#                 E=      .66                            #
#                Size Factor= .9998970                   #
#                                                        #
# 6.1.3.1 Flotation                                      #
#          Escalation Factors                            #
#                 S=    .4688            YsubX= 135350.8 #
#                 E=      .62                            #
#          Two-product Float factor YsubX by    1.349210 #
#                                                        #
# 6.1.3.2 Concentrate Thickening                         #
#          Escalation Factors                            #
#                 S=     .431            YsubX= 12457.63 #
#                 E=      .68                            #
#                                                        #
# 6.1.3.3 Concentrate Filtration                         #
#          Escalation Factors                            #
#                 S=    .4362            YsubX= 40452.28 #
#                 E=      .66                            #
#                                                        #
# 6.1.3.8 Drying Concentrates                            #
#          Escalation Factors                            #
#                 S=    .4214            YsubX= 64675.76 #
#                 E=      .66                            #
#                                                        #
# 6.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 S=    .4162            YsubX= 19944.10 #
#                 E=      .68                            #
#                                                        #
# 6.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                 S=    .6472            YsubX= 22259.36 #
#                 E=      .56                            #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
##########################################################
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##########################################################
#                        TABLE 2I                        #
#                        (cont.)                         #
# Subject                    Proj. No. 85-02-10100       #
# Escalation Factors for     Sheet   2  of  2            #
# 100 t-p/d Flotation Mill   By   K.L.J.  Date 10-11-85  #
# Capital Costs              Group _________Item________ #
# ======================================================= #
# 6.1.4.3 Water Reclamation                               #
#          Escalation Factors                             #
#                 S=    1.237            YsubX=    20300 #
#                 E=      .17                            #
#                                                        #
# 6.1.4.4 Earthfill Dikes and Small Dams                  #
#          Escalation Factors                             #
#                 S=   1.6573            YsubX= 132058.9 #
#                                                        #
# ======================================================= #
# 6.1.6 Utilities and Facilities                          #
# ------------------------------------------------------- #
#                                                        #
# 6.1.6.1 Water Supply System                             #
#          Escalation Factors                             #
#                 S=    .3962            YsubX= 10966.89 #
#                 E=       .7                            #
#                                                        #
# 6.1.6.2 Electrical System                               #
#          Escalation Factors                             #
#                 S=    .3566            YsubX= 98877.10 #
#                 E=      .71                            #
#                                                        #
# 6.1.6.3 Mill Buildings                                  #
#          Escalation Factors                             #
#                 S=    .5758            YsubX= 114185.7 #
#                 E=      .55                            #
#                                                        #
# 6.1.6.4 Office and Labratories                          #
#          Escalation Factors                             #
#                 S=   1.2488            YsubX= 80685.20 #
#                 E=      .21                            #
#                                                        #
# 6.1.6.5 Vehicles                                        #
#          Escalation Factors                             #
#                 E=        1            YsubX= 56242.23 #
#                                                        #
# 6.1.6.6 Miscellaneous Equipment                         #
#          Escalation Factors                             #
#                 E=        1            YsubX= 12013.12 #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
##########################################################
```

TABLE 2J

SUMMARY OF ITEM COSTS

Group: 6.1.
WORK: Capital cost for construction of a 100 ton a day two product flotation mill

Estimate 85-02-10100
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description Quan.	Labor Un.cost	Labor prod. fact.	Labor TOTAL	Materials and Supp Un.cost	Materials and Supp prod. fact.	Materials and Supp TOTAL	Equip. oper. purchase Un.cost	Equip. oper. purchase prod. fact.	Equip. oper. purchase TOTAL	ITEM TOTAL
1	Crushing				160430.7	.5060534	81186.5021	160430.7	.6203106	99516.87	180703.37
2	Grinding				134422.5	.4435543	59623.6791	134422.5	.6599320	88709.71	148333.3[illegible]
3.1	Flotation				182615.3	.6325096	115505.939	182615.3	.8365102	152759.56	268265.50
3.2	Cons Thickener				12457.63	.431	5369.23853	12457.63	.68	8471.19	13840.43
3.3	Filter Cons.				40452.28	.4362	17645.2845	40452.28	.66	26698.50	44343.79
3.8	Drying Cons.				64675.76	.4214	27254.3653	64675.76	.66	42686.00	69940.37
4.1	Dewater tails				19944.1	.4162	8300.73442	19944.1	.68	13561.99	21862.72
4.2	Tailings Dis.				22259.36	.6472	14406.2578	22259.36	.56	12465.24	26871.50
4.3	Water Recl.				20300	1.237	25111.1	20300	.17	3451.00	28562.10
4.4	Dikes & Dams				0	2.0227	0			.00	.00
6.1	Water System				10966.89	.3962	4345.08182	10966.89	.7	7676.82	12021.90
6.2	Elec. System				98877.1	.3566	35259.5739	98877.1	.71	70202.74	105462.31
6.3	Mill Buildings				114185.7	.5758	65748.1261	114185.7	.55	62802.14	128550.[illegible]
6.4	Office & Labs				80685.2	1.2488	100759.678	80685.2	.21	16943.89	117703.57
6.5	Vehicles							56242.23	1	56242.23	56242.23
6.6	Misc. Equip.							12013.12	1	12013.12	12013.12
	SUB-TOTAL						560515.560			674201.00	
	TOTAL										1234716.56
	COST PER TON OF INSTALLED CAPACITY									12347.17	

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##########################################################
#                        TABLE 2K                        #
#                                                        #
# Subject                    Proj. No. 85-02-11100       #
# Escalation factors for     Sheet   1  of  2            #
# 100 t-p/d Cyanide Leaching By   K.L.J.  Date 10-14-85  #
# Capital Costs              Group _________Item________ #
# ====================================================== #
# 6.1.1 Crushing                                         #
#          Escalation Factors                            #
#                 S=    .5058            YsubX= 160430.7 #
#                 E=      .62                            #
#          Work Index=18                                 #
#                Size Factor= 1.000501                   #
#                                                        #
# 6.1.2 Grinding                                         #
#          Escalation Factors                            #
#                 S=    .4436            YsubX= 134422.5 #
#                 E=      .66                            #
#                Size Factor= .9998970                   #
#                                                        #
# 6.1.3.4 Cyanide Vat Leach                              #
#          Escalation Factors                            #
#                 S=    .4688            YsubX= 420846.2 #
#                 E=      .62                            #
#                                                        #
# 6.1.4.1 Tailings Dewatering                            #
#          Escalation Factors                            #
#                 S=    .4162            YsubX= 21276.59 #
#                 E=      .68                            #
#                                                        #
# 6.1.4.2 Transportation and Placement of Tailings       #
#          Escalation Factors                            #
#                 S=    .6472            YsubX= 23147.89 #
#                 E=      .56                            #
#                                                        #
# 6.1.4.3 Water Reclamation                              #
#          Escalation Factors                            #
#                 S=    1.237            YsubX=    20300 #
#                 E=      .17                            #
#                                                        #
# 6.1.6.1 Water Supply System                            #
#          Escalation Factors                            #
#                 S=    .3962            YsubX= 10966.89 #
#                 E=       .7                            #
#                                                        #
# 6.1.6.2 Electrical System                              #
#          Escalation Factors                            #
#                 S=    .3566            YsubX= 98877.10 #
#                 E=      .71                            #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
#                                                        #
##########################################################
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##########################################################
#                        TABLE 2K                        #
#                        (cont.)                         #
# Subject                    Proj. No. 85-02-11100       #
# Escalation factors for     Sheet   2  of  2            #
# 100 t-p/d Cyanide Leaching By   K.L.J.  Date 10-14-85  #
# Capital Costs              Group _________Item________ #
# ======================================================= #
# 6.1.6.3 Mill Buildings                                 #
#          Escalation Factors                            #
#                 S=    .5758            YsubX= 114185.7 #
#                 E=      .55                            #
#                                                        #
# 6.1.6.4 Office and Labratories                         #
#          Escalation Factors                            #
#                 S=   1.2488            YsubX= 80685.20 #
#                 E=      .21                            #
#                                                        #
# 6.1.6.5 Vehicles                                       #
#          Escalation Factors                            #
#                 E=        1            YsubX= 56242.23 #
#                                                        #
# 6.1.6.6 Miscellaneous Equipment                        #
#          Escalation Factors                            #
#                 E=        1            YsubX= 12013.12 #
#                                                        #
#                                                        #
#                                                        
```

TABLE 2L

SUMMARY OF ITEM COSTS

Group: 6.1.
WORK: Capital cost for construction of a 100 ton a day Cyanide Leaching Facility

Estimate 85-02-11100
Sheet No.0001
Prepared by: Kevin Jones
Checked by:_____

Item #	Description	Quan.	Labor Un.cost	Labor prod. fact.	Labor TOTAL	Materials and Supp Un.cost	Materials and Supp prod. fact.	Materials and Supp TOTAL	Equip. oper. purchase Un.cost	Equip. oper. purchase prod. fact.	Equip. oper. purchase TOTAL	ITEM TOTAL
1	Crushing		160430.7	.5060534	81186.5021	160430.7	.6203106	99516.87				180703.37
2	Grinding		134422.5	.4435543	59623.6791	134422.5	.6599320	88709.71				148333.39
3.1	Cyanide Leach		420846.2	.4688	197292.699	420846.2	.62	260924.64				458217.3
4.1	Dewater tails		21276.59	.4162	8855.31676	21276.59	.68	14468.08				23323.40
4.2	Tailings Dis.		23147.89	.6472	14981.3144	23147.89	.56	12962.82				27944.13
4.3	Water Recl.		20300	1.237	25111.1	20300	.17	3451.00				28562.10
6.1	Water System		10966.89	.3962	4345.08182	10966.89	.7	7676.82				12021.90
6.2	Elec. System		98877.1	.3566	35259.5739	98877.1	.71	70202.74				105462.31
6.3	Mill Buildings		114185.7	.5758	65748.1261	114185.7	.55	62802.14				128550.26
6.4	Office & Labs		80685.2	1.2488	100759.678	80685.2	.21	16943.89				117703.57
6.5	Vehicles								56242.23	1	56242.23	56242.23
6.6	Misc. Equip.								12013.12	1	12013.12	12013.12
	SUB-TOTAL							593163.070			705914.06	
	TOTAL											1299077.13
	COST PER TON OF INSTALLED CAPACITY										12990.77	

TABLE 2M

ARMCO CAPITAL COST SUMMARY

ITEM	100 TON FLOTATION	100 TON CYANIDE LEACH	500 TON GRAVITY/ FLOTATION
1. CRUSHING	-0-	-0-	-0-
2. GRINDING	145,000	145,000	68,000
3.1 FLOTATION	268,000	-0-	145,000
3.1 CYANIDE LEACH	-0-	350,000	70,000
3.7 GRAVITY JIG	-0-	-0-	40,000
3.7 GRAVITY TABLES	-0-	-0-	260,000
3.2 CONS THICKENER	13,000	-0-	11,000
3.3 FILTER CONS	43,000	-0-	36,000
3.8 DRYING CONS	25,000	-0-	-0-
6.1.2 REGRIND	-0-	-0-	92,000
4.1 DEWATER TAILS	-0-	23,000	84,000
4.2 TAILS DISPOSAL	-0-	26,000	60,000
4.3 WATER RECLAMATION	-0-	26,000	25,000
4.4 DIKES & DAMS	-0-	-0-	25,000
6.1 WATER SYSTEM	-0-	-0-	39,000
6.2 ELECTRIC SYSTEM	66,000	15,000	260,000
6.3 MILL BUILDING	-0-	-0-	200,000
6.4 OFFICE & LABORATORY	-0-	-0-	-0-
6.5 VEHICLES	-0-	-0-	60,000
6.6 MISC. EQUIPMENT	-0-	-0-	25,000
TOTAL	560,000	600,000	1,500,000
EQUIPMENT PURCHASE	319,000	299,000	728,000
LABOR & SUPPLIES	241,000	301,000	772,000

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RATE of RETURN ANALYSIS

The SFPL Speadsheet, as explained previously, produced 250 randomly selected and matched operation model's of the proposed custom milling facility. This was done by means of the variables' ranges and the constraints that were determined in the manner described in the preceding section.

These operation model's were then analyized to determine the Rate of Return one could expect given these three situations:

1) PHASE I, $1.5 million expansion program implementing the Gravity Circuit.

2) PHASE II, $600,000 expansion program implementing the Closed Circuit Agitated Leach (Cyanide Curcuit) Process.

3) PHASE III, $600,000 expansion program implementing the Flotation Curcuit.

PHASE I

Under the Gravity Circuit a Rate of Return analysis was performed given the Net Gross Revenue's calculated by the SFPL Speadsheet for the 250 operation models. These models were based on the variables discussed in the preceeding section. To reinforce a few important points made about the Gravity Circuit, it's worth repeating that all of the variables were relatively unpredictable, given their ranges and mean, except for two. Both the Tonnage and Grade could be controlled to a certain degree. Recall that Tonnage was fixed at 500 tons a day and Ore Grade was allowed a very small range of variance. This was determined by Alancos' in house experts and the historical grade recoveries from the Tombstone area.

The Net Gross Revenue figures from the Gravity Circuit were analyized by performing a Rate of Return analysis, or, what percentage of profit can be made given the $1.5 million initial cost of start-up figure. The "Interval Range" was taken from the 250 Net Gross Revenue occurances. Referring to Table G6 it can be seen that given any figure less than or equal to $146,000.00, will produce a rate of return up to a -20%. The next range is between $146,000.01 and $300,000.00 and any figure meeting this criteria will produce a return from a -20% to 0% or the breakeven point. The next range gives a rate of return range between 0% and 5% and so on up to 100%.

Given the Rate of Return, the 250 Gross Net Revenue Figures were integrated into a Data Distribution Table, with these figures being the set of data and the Interval Range being the constraints. Each occurance in the Interval Range was then counted, by the computer, and listed to the right of the upper constraint. These firures are located in the data distribution column titled Data Dist. (refer to Table G6).

To the right of the "Percentage of Return Column" (% Return) you will see "IND. %" which represents the individual percentage occurrence in relation to the total occurnces.

Exp: Given the interval range of $675,000.00 ($615,800.01 - $675,000.00), the total occurance in this range equal 7.60% of the total 100% chance of occurances.

To the right of the "Individual Rate of Return" column, there is a column titled "Cum Freq.", which is the cummulative frequency or the running total occurance percentage of the group. This is evidenced by the 100% figure at the bottom of the column.

Graph G6, properly titled "Probability Analysis Distribution", represents in graphical form what the Data Distribition column in Table G6 tells us in numerical form; mainly, where the majority of the occurances take place in the 250 Gross Net Revenue figures. The graphs' peak is skewed to the right which indicates a positive, or higher chance of probable favorable return for the amount of money invested. In viewing the Data Distribution figure's it can be seen that the majority of occurances are located between $799,900.00 ($739,000.01 - $799,900.00) and $1,129,500.00. This is .648 or 64.8% of the Gross Net Revenue figures and indicates a percentage of return, before expenses, between 45% and 70% on the proposed $1.5 million investment.

The 250 Gross Net Revenue figures were then analyized further by sorting them by gold grade in acending order. The highest and lowest 5 grades were then deleted, and from here two seperate cash flow analysis test were performed. The first test analysis took advantage of the original sort on the 240 dicounted Gross Net Revenue figures by seperating them into groups of 20 averageing each group and then combining these 12 averaged test models in a cash flow analysis spreadsheet. This speadsheet is labled Proforma G1. Each of the averaged test models represented one operating month of a model year. The proper amount of expenses, depreciation, taxes, credits, and operating loss carryforwards were then added to or subtracted from the operating gross profit figure to represent net profit/loss, depreciation was then added back to represent a monthly cash flow figure. This same test procedure was again performed on the 240 Gross Net Revenue figures, except that these figures were then sorted by gold price, combined into groups of 20, and averaged to represent a comparitive model year of operation. This model operation year is presented for comparison in Proforma G1A. Note that both test produce a 12 month year-to-date cash flow of $422,673.27.

The expensed cost in Proforma G1 and G1A represents the $1.5 million initial investment. It was estimated that it would take at least 6 months to get the mill in operation so the future value of $1.5 million dollars for 6 months at 18% anuual interest compounded monthly was calculated. This figure, $1,511,208.10, was amortized over a 5 year payback period at 18% interest compounded monthly which calculated a monthly payment figure of $38,374.75.

PHASE I has a depreciation basis consisting of the original $755,655.00 Alanco currently has invested in the mill facility plus the $1.5 million expansion proposal. A 10 year life is estimated with no salvage value. The depreciation charge is calculated to be $18,797.13 monthly.

Income taxes are based on the United States 1985 corporate tax rate structure of:

1st $25,000.00	-	15%
2nd $25,000.00	-	18%
3rd $25,000.00	-	30%
4th $25,000.00	-	40%
excess upto 1,000,000.00	-	46%

The Investment Tax Credit is calculated at the maximum allowable credit of $125,000.00 per year for used eqiupment purchases. The optional 8% ITC was taken so as not to reduce the basis for depreciation.

The tax loss carrforward is based on Alanco's current operating loss carryforwards as reported in the May 31, 1985 10-K which total $926,684.00 and expire as follows:

May 31, 1996	-	$ 14,771.00
May 31, 1999	-	$911,913.00

Alanco also has substantial capital loss carryovers and Investment Tax Credits carryforwards that were not taken into consideration in this analysis for reasons of simplicity.

PHASE II & PHASE III

Table & Graph C6 represent the Closed Circuit Agitated Leach (Cyanide Circuit) "Rate of Return Analysis and Probability Analysis" graphs. These Graphs along with Table & Graph F6, which represents the Flotation Circuit, are reviewed in the same manner as described for the Gravity Circuit.

The Cyanide Leach and the Flotation Circuits were both analyized in the same fashion as the Gravity Circuit except for these factors:

1) Grade and Tonnage are not as controllable as with the Gravity Circuit, but Alanco believes that with sufficient lab testing and selectivity the elimination of undesirable ore and insufficient tonnage can be attained to meet the standards that have been set by this analysis.

2) Expensed Cost are calculated in the same fashion mentioned in PHASE I except that the future value of $600,000.00 was calculated for both the Cyanide and Flotation Circuits given a six month implementation time with an interest factor of 18% compounded monthly. This future value calculation works out to a monthly payment figure of $11,297.13 given a 5 year amortization period with 18% interest compounded monthly.

3) Depreciation is still calculated on a 10 year estimated life with no salvage value. The $600,000.00 plus the $755.655.60 basis Alanco presently has is used for the calculation on both the Cyanide and Flotation Circuits.

4) Taxes, Investment Tax Credits, and Operating Tax Loss Carryforwards are based on the same facts and assumptions used in the analysis of the Gravity Circuit.

All of the Proforma's are analyized on an individual basis to show what an investor could expect given each individual operation. The operation's were not combined in this analysis because of the time element that must be taken into consideration in the actual expansion of the mill. Each operation is referred to as a Phase and the first Phase is the Gravity Circuit. Given the positive cash flows generated from this model and the Cyanide and Flotation Circuit, Alanco feels that the eventual completion of each Phase will only add to our increased growth and profitability.

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE G5

	GOLD GRADE	SILVER GRADE	LEAD GRADE	GOLD PRICE	SILVER PRICE	LEAD PRICE	OPER. COST	GNR	GOLD TAILS GRADE	SILVER TAILS GRADE	PER DAY GOLD	PER DAY SILVER	GOLD REC % 60.00%	SILVER REC % 60.00%	PER YEAR GOLD VALUE	PER YEAR SILVER VALUE	OPER. COST	NET REVENUE
1	0.017667	2.520941	0.95264	$304.67	$5.71	$0.09	$8.44	$242,927.62	0.008	1.196	3.604	514.272	2.163	308.563	$237,185.80	$634,495.90	$360,000.00	$754,609.32
2	0.020208	2.359789	0.86677	$313.94	$5.88	$0.05	$8.05	$278,411.66	0.010	1.120	4.123	481.397	2.474	288.838	$279,558.23	$611,393.00	$360,000.00	$809,362.89
3	0.016138	2.520941	0.84753	$319.72	$5.89	$0.09	$9.67	$14,924.69	0.008	1.196	3.292	514.272	1.975	308.563	$227,360.32	$653,992.04	$360,000.00	$536,277.05
4	0.019664	2.813341	0.81981	$307.12	$5.89	$0.11	$9.25	$370,986.61	0.009	1.335	4.012	573.922	2.407	344.353	$266,118.94	$730,161.08	$360,000.00	$1,007,266.64
5	0.020776	2.186658	0.71184	$298.72	$5.81	$0.07	$8.00	$174,096.93	0.010	1.037	4.238	446.078	2.543	267.647	$273,471.57	$560,023.46	$360,000.00	$647,591.96
6	0.020292	2.359789	0.78172	$317.32	$5.74	$0.06	$7.41	$366,164.76	0.010	1.120	4.140	481.397	2.484	288.838	$283,745.10	$596,388.44	$360,000.00	$886,298.29
7	0.020918	2.504165	0.93945	$314.12	$5.83	$0.14	$8.75	$411,126.11	0.010	1.188	4.267	510.850	2.560	306.510	$289,543.07	$643,233.24	$360,000.00	$983,902.42
8	0.019833	2.402905	1.01507	$316.06	$6.11	$0.04	$8.27	$301,758.75	0.009	1.140	4.046	490.193	2.428	294.116	$276,213.63	$646,446.52	$360,000.00	$864,418.90
9	0.021950	2.612371	0.80681	$308.32	$5.95	$0.08	$8.29	$469,481.99	0.010	1.239	4.478	532.924	2.687	319.754	$298,215.96	$684,541.89	$360,000.00	$1,092,239.84
10	0.020730	2.646258	0.8375	$300.62	$5.78	$0.15	$8.07	$542,400.59	0.010	1.255	4.229	539.837	2.537	323.902	$274,607.20	$673,666.27	$360,000.00	$1,130,674.06
11	0.017774	2.573287	0.87585	$321.41	$5.94	$0.13	$8.69	$364,076.56	0.008	1.221	3.626	524.951	2.176	314.970	$251,728.36	$673,365.96	$360,000.00	$929,170.88
12	0.022332	2.525156	0.76278	$318.08	$5.87	$0.07	$10.77	($36,250.07)	0.011	1.198	4.556	515.132	2.733	309.079	$313,008.41	$653,376.42	$360,000.00	$570,134.76
13	0.019492	2.466363	0.96816	$315.53	$5.87	$0.08	$8.27	$336,586.60	0.009	1.170	3.977	503.138	2.386	301.883	$271,016.90	$638,163.88	$360,000.00	$885,767.38
14	0.017667	2.520941	0.93154	$317.70	$6.00	$0.14	$9.99	$131,095.26	0.008	1.196	3.604	514.272	2.163	308.563	$247,327.90	$665,987.87	$360,000.00	$684,411.03
15	0.022730	2.435809	0.91063	$328.17	$5.82	$0.14	$9.08	$386,529.66	0.011	1.156	4.637	496.905	2.782	298.143	$328,690.09	$624,600.57	$360,000.00	$979,820.32
16	0.018349	2.813341	0.79323	$317.14	$5.91	$0.09	$8.29	$490,498.95	0.009	1.335	3.743	573.922	2.246	344.353	$256,417.91	$732,339.19	$360,000.00	$1,119,256.05
17	0.017964	2.112438	0.73197	$311.73	$5.90	$0.07	$8.99	($89,098.59)	0.009	1.002	3.665	430.937	2.199	258.562	$246,751.82	$548,953.96	$360,000.00	$346,607.20
18	0.019176	2.365653	0.67551	$320.64	$5.94	$0.10	$8.49	$233,981.94	0.009	1.122	3.912	482.593	2.347	289.556	$270,947.03	$619,602.51	$360,000.00	$764,531.49
19	0.019360	2.327335	0.78466	$310.50	$5.95	$0.08	$8.05	$268,460.63	0.009	1.104	3.950	474.776	2.370	284.866	$264,883.90	$610,432.98	$360,000.00	$783,777.51
20	0.021519	2.704334	0.88399	$321.96	$5.90	$0.08	$8.52	$494,161.31	0.010	1.283	4.390	551.684	2.634	331.011	$305,296.15	$703,066.50	$360,000.00	$1,142,523.95
21	0.018932	2.602092	0.92064	$294.00	$5.87	$0.07	$7.98	$390,676.73	0.009	1.234	3.862	530.827	2.317	318.496	$245,262.16	$673,283.34	$360,000.00	$949,222.23
22	0.017964	2.652505	0.75221	$331.28	$5.86	$0.10	$8.59	$349,399.12	0.009	1.258	3.665	541.111	2.199	324.667	$262,233.28	$685,088.66	$360,000.00	$936,721.06
23	0.020420	2.713514	0.8551	$310.71	$5.80	$0.06	$8.36	$403,227.97	0.010	1.287	4.166	553.557	2.499	332.134	$279,579.69	$694,043.80	$360,000.00	$1,016,851.45
24	0.021119	2.887561	0.98051	$328.17	$5.94	$0.12	$8.88	$633,322.92	0.010	1.370	4.308	589.063	2.585	353.438	$305,396.53	$755,262.79	$360,000.00	$1,333,982.24
25	0.018932	2.208333	0.93154	$311.53	$5.96	$0.12	$9.36	$57,218.84	0.009	1.048	3.862	450.500	2.317	270.300	$259,885.04	$580,377.04	$360,000.00	$537,480.91
26	0.019875	2.559726	0.8425	$301.83	$6.00	$0.13	$9.85	$175,384.69	0.009	1.214	4.055	522.184	2.433	313.310	$264,338.14	$677,161.19	$360,000.00	$756,884.02
27	0.018982	2.587365	0.73197	$322.88	$6.02	$0.05	$7.74	$458,410.37	0.009	1.227	3.872	527.822	2.323	316.693	$270,078.92	$686,640.24	$360,000.00	$1,055,129.53
28	0.017872	2.341030	0.99548	$325.88	$5.91	$0.04	$8.15	$200,598.63	0.008	1.111	3.646	477.570	2.188	286.542	$256,644.99	$609,912.09	$360,000.00	$707,155.71
29	0.021397	2.568722	0.81981	$309.59	$5.89	$0.11	$9.99	$152,925.91	0.010	1.219	4.365	524.019	2.619	314.412	$291,898.13	$666,673.90	$360,000.00	$751,497.94
30	0.020595	2.359789	0.84753	$327.25	$5.87	$0.13	$8.96	$264,163.55	0.010	1.120	4.201	481.397	2.521	288.838	$296,984.78	$610,588.18	$360,000.00	$811,736.51
31	0.018416	2.704334	0.95264	$307.75	$5.87	$0.16	$7.66	$668,623.85	0.009	1.283	3.757	551.684	2.254	331.011	$249,730.26	$700,048.08	$360,000.00	$1,258,402.19
32	0.018718	2.529388	0.96265	$323.97	$5.76	$0.09	$7.74	$457,505.90	0.009	1.200	3.819	515.995	2.291	309.597	$267,210.30	$641,923.75	$360,000.00	$1,006,639.95
33	0.021519	2.520941	0.67551	$327.25	$5.96	$0.11	$7.66	$575,107.75	0.010	1.196	4.390	514.272	2.634	308.563	$310,315.55	$661,535.67	$360,000.00	$1,186,958.98
34	0.018130	2.407803	0.60737	$304.67	$5.88	$0.04	$8.12	$171,153.82	0.009	1.142	3.699	491.192	2.219	294.715	$243,396.75	$624,372.92	$360,000.00	$678,923.49
35	0.019404	2.208333	0.93542	$314.30	$5.89	$0.15	$8.52	$258,749.39	0.009	1.048	3.959	450.500	2.375	270.300	$268,742.04	$573,628.73	$360,000.00	$741,120.16
36	0.021172	2.537901	0.74458	$310.92	$5.86	$0.11	$7.62	$537,853.87	0.010	1.204	4.319	517.732	2.592	310.639	$290,071.07	$654,878.14	$360,000.00	$1,122,803.07
37	0.020041	2.745868	0.81981	$294.00	$6.02	$0.06	$10.77	$8,315.56	0.010	1.303	4.088	560.157	2.453	336.094	$259,633.94	$728,704.15	$360,000.00	$636,653.66
38	0.020730	2.734089	1.04537	$323.23	$5.96	$0.07	$8.02	$599,342.40	0.010	1.297	4.229	557.754	2.537	334.653	$295,252.15	$717,823.35	$360,000.00	$1,252,417.89
39	0.018279	2.112438	0.80415	$313.41	$5.81	$0.08	$9.85	($225,431.10)	0.009	1.002	3.729	430.937	2.237	258.562	$252,440.73	$540,665.90	$360,000.00	$207,675.53
40	0.020292	2.713514	0.81467	$319.29	$5.94	$0.10	$8.35	$511,936.28	0.010	1.287	4.140	553.557	2.484	332.134	$285,503.33	$709,739.53	$360,000.00	$1,147,179.13
41	0.019081	2.392826	0.8375	$304.12	$5.94	$0.09	$9.15	$121,580.67	0.009	1.135	3.893	488.137	2.336	292.882	$255,701.33	$626,430.51	$360,000.00	$643,712.52
42	0.019032	2.449103	0.89534	$308.85	$5.82	$0.08	$8.29	$272,656.67	0.009	1.162	3.883	499.617	2.330	299.770	$259,021.11	$627,629.78	$360,000.00	$799,307.56
43	0.017872	2.687658	0.63463	$321.96	$5.97	$0.10	$9.67	$169,667.72	0.008	1.275	3.646	548.282	2.188	328.969	$253,556.20	$707,095.58	$360,000.00	$770,319.50
44	0.021338	2.453468	0.84	$308.04	$5.93	$0.06	$8.94	$218,424.21	0.010	1.164	4.353	500.508	2.612	300.305	$289,637.86	$640,585.30	$360,000.00	$788,647.37
45	0.021793	2.387628	0.82996	$307.44	$6.06	$0.09	$8.88	$264,670.24	0.010	1.133	4.446	487.076	2.667	292.246	$295,232.58	$637,087.69	$360,000.00	$836,990.50
46	0.018602	2.347494	0.89534	$302.75	$5.78	$0.11	$9.78	($41,903.37)	0.009	1.114	3.795	478.889	2.277	287.333	$248,166.25	$597,609.03	$360,000.00	$443,871.91
47	0.016590	2.842146	0.88125	$322.56	$5.97	$0.10	$8.27	$521,160.00	0.008	1.348	3.385	579.798	2.031	347.879	$235,812.11	$748,146.87	$360,000.00	$1,145,118.98
48	0.021281	2.365653	0.86275	$319.50	$5.75	$0.16	$8.59	$364,389.01	0.010	1.122	4.341	482.593	2.605	289.556	$299,618.35	$599,633.22	$360,000.00	$903,640.58
49	0.018279	2.687658	0.92064	$313.94	$6.02	$0.12	$8.10	$547,728.14	0.009	1.275	3.729	548.282	2.237	328.969	$252,872.06	$712,646.34	$360,000.00	$1,153,246.54
50	0.022449	2.295665	0.90745	$318.87	$6.04	$0.11	$7.88	$484,494.50	0.011	1.089	4.580	468.316	2.748	280.989	$315,439.28	$611,034.96	$360,000.00	$1,050,968.74

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE G5

	GOLD GRADE	SILVER GRADE	LEAD GRADE	GOLD PRICE	SILVER PRICE	LEAD PRICE	OPER. COST	GNR	GOLD TAILS GRADE	SILVER TAILS GRADE	PER DAY GOLD	PER DAY SILVER	GOLD REC % 60.00%	SILVER REC % 60.00%	PER YEAR GOLD VALUE	PER YEAR SILVER VALUE	OPER. COST	NET REVENUE
51	0.023409	2.723377	0.80415	$321.15	$6.13	$0.09	$8.47	$636,548.31	0.011	1.292	4.775	555.569	2.865	333.341	$331,261.52	$735,933.36	$360,000.00	$1,343,743.18
52	0.018480	2.617669	0.70592	$323.59	$5.80	$0.11	$7.50	$526,896.77	0.009	1.242	3.770	534.005	2.262	320.403	$263,502.77	$668,581.10	$360,000.00	$1,098,980.64
53	0.019360	2.426712	0.74846	$313.94	$6.02	$0.13	$8.18	$397,926.54	0.009	1.151	3.950	495.049	2.370	297.030	$267,823.75	$644,005.98	$360,000.00	$949,756.27
54	0.018661	2.359789	0.94364	$319.50	$5.86	$0.07	$8.83	$135,820.29	0.009	1.120	3.807	481.397	2.284	288.838	$262,725.76	$609,203.15	$360,000.00	$647,749.20
55	0.019032	2.504165	0.82236	$311.33	$5.89	$0.09	$9.08	$191,104.82	0.009	1.188	3.883	510.850	2.330	306.510	$261,096.35	$649,639.79	$360,000.00	$741,840.96
56	0.021720	2.582616	0.86793	$310.50	$5.80	$0.06	$8.21	$401,993.41	0.010	1.225	4.431	526.854	2.659	316.112	$297,173.09	$660,563.72	$360,000.00	$999,730.22
57	0.022127	2.276622	0.86275	$322.88	$5.93	$0.07	$9.57	$74,006.21	0.010	1.080	4.514	464.431	2.708	278.659	$314,820.50	$595,200.44	$360,000.00	$624,027.14
58	0.017269	2.592196	0.78172	$325.33	$5.86	$0.08	$8.21	$333,281.30	0.008	1.230	3.523	528.808	2.114	317.285	$247,564.14	$669,818.13	$360,000.00	$890,663.57
59	0.02	2.687658	0.83498	$308.32	$5.88	$0.07	$9.02	$298,073.08	0.009	1.275	4.080	548.282	2.448	328.969	$271,716.78	$696,942.66	$360,000.00	$906,732.52
60	0.022332	2.723377	0.69949	$320.17	$5.96	$0.09	$9.78	$297,488.19	0.011	1.292	4.556	555.569	2.733	333.341	$315,067.35	$715,370.87	$360,000.00	$967,926.41
61	0.019916	2.687658	0.76612	$319.08	$5.67	$0.09	$8.09	$442,964.96	0.009	1.275	4.063	548.282	2.438	328.969	$280,026.83	$671,180.81	$360,000.00	$1,034,172.59
62	0.020870	2.341030	0.8551	$311.33	$5.81	$0.06	$8.12	$255,685.84	0.010	1.111	4.258	477.570	2.555	286.542	$286,310.13	$599,172.61	$360,000.00	$781,168.58
63	0.019707	2.422081	0.79323	$315.70	$5.90	$0.10	$8.27	$329,885.48	0.009	1.149	4.020	494.105	2.412	296.463	$274,149.05	$629,686.85	$360,000.00	$873,721.38
64	0.021226	2.529388	0.86793	$316.41	$5.95	$0.14	$8.52	$477,493.46	0.010	1.200	4.330	515.995	2.598	309.597	$295,947.83	$663,111.34	$360,000.00	$1,076,552.63
65	0.016877	2.559726	0.85257	$308.85	$5.81	$0.09	$10.19	($62,704.94)	0.008	1.214	3.443	522.184	2.066	313.310	$229,697.26	$655,146.49	$360,000.00	$462,138.81
66	0.020684	2.444705	0.82743	$307.75	$5.85	$0.08	$9.32	$122,307.67	0.010	1.160	4.220	498.720	2.532	299.232	$280,495.23	$629,919.64	$360,000.00	$672,722.54
67	0.018206	2.479058	0.66493	$319.50	$5.87	$0.10	$9.48	$74,702.19	0.009	1.176	3.714	505.728	2.229	303.437	$256,324.59	$641,732.67	$360,000.00	$612,759.45
68	0.016590	2.254131	0.87055	$306.03	$5.79	$0.09	$7.94	$149,455.16	0.008	1.069	3.385	459.843	2.031	275.906	$223,725.28	$574,835.67	$360,000.00	$588,016.10
69	0.021067	2.542199	0.77255	$320.17	$5.92	$0.09	$9.32	$249,309.59	0.010	1.206	4.298	518.609	2.579	311.165	$297,226.49	$662,891.02	$360,000.00	$849,427.10
70	0.020684	2.426712	1.04537	$300.62	$5.88	$0.09	$8.64	$291,262.68	0.010	1.151	4.220	495.049	2.532	297.030	$274,004.68	$628,458.26	$360,000.00	$833,725.63
71	0.022730	2.295665	1.02808	$312.86	$5.81	$0.10	$8.67	$291,744.45	0.011	1.089	4.637	468.316	2.782	280.989	$313,361.53	$587,561.67	$360,000.00	$832,667.65
72	0.020166	2.225959	0.90433	$298.72	$5.88	$0.10	$7.50	$356,935.54	0.010	1.056	4.114	454.096	2.468	272.457	$265,446.08	$576,468.22	$360,000.00	$838,849.85
73	0.017093	2.371351	0.78756	$308.59	$5.99	$0.15	$9.48	$87,978.08	0.008	1.125	3.487	483.756	2.092	290.253	$232,438.70	$626,063.39	$360,000.00	$586,480.18
74	0.020967	2.422081	0.81725	$318.47	$5.90	$0.11	$8.34	$383,293.50	0.010	1.149	4.277	494.105	2.566	296.463	$294,238.70	$629,686.85	$360,000.00	$947,219.06
75	0.019622	2.449103	0.88959	$311.33	$5.79	$0.01	$8.09	$206,603.84	0.009	1.162	4.003	499.617	2.402	299.770	$269,187.44	$624,556.30	$360,000.00	$740,347.58
76	0.019791	2.470611	0.94803	$309.11	$5.79	$0.11	$8.75	$286,121.16	0.009	1.172	4.037	504.005	2.422	302.403	$269,569.31	$630,041.16	$360,000.00	$825,731.62
77	0.020507	2.371351	0.96816	$313.23	$6.00	$0.11	$8.26	$400,646.98	0.010	1.125	4.183	483.756	2.510	290.253	$283,040.03	$627,327.74	$360,000.00	$951,014.74
78	0.017667	2.687658	0.77567	$309.11	$5.98	$0.08	$8.36	$379,268.28	0.008	1.275	3.604	548.282	2.163	328.969	$240,641.89	$708,697.92	$360,000.00	$968,608.09
79	0.019315	2.537901	0.65192	$317.14	$5.98	$0.14	$9.08	$275,453.10	0.009	1.204	3.940	517.732	2.364	310.639	$269,918.85	$668,433.06	$360,000.00	$853,805.01
80	0.018130	2.435809	0.72736	$322.25	$5.78	$0.06	$8.85	$105,747.80	0.009	1.156	3.699	496.905	2.219	298.143	$257,445.52	$620,644.33	$360,000.00	$623,837.65
81	0.019622	2.520941	0.8425	$317.70	$5.99	$0.10	$9.62	$176,301.52	0.009	1.196	4.003	514.272	2.402	308.563	$274,693.38	$665,140.31	$360,000.00	$756,135.21
82	0.018880	2.617669	0.79041	$321.96	$5.97	$0.12	$6.94	$707,711.15	0.009	1.242	3.852	534.005	2.311	320.403	$267,853.57	$688,682.27	$360,000.00	$1,304,246.99
83	0.021338	2.435809	0.69949	$318.27	$6.03	$0.08	$8.07	$413,359.47	0.010	1.156	4.353	496.905	2.612	298.143	$299,261.85	$647,646.79	$360,000.00	$1,000,268.11
84	0.018661	2.365653	1.00449	$312.49	$5.89	$0.10	$7.88	$371,042.55	0.009	1.122	3.807	482.593	2.284	289.556	$256,959.34	$614,493.70	$360,000.00	$882,495.58
85	0.020420	2.474843	0.93542	$313.59	$5.78	$0.12	$8.04	$446,962.51	0.010	1.174	4.166	504.868	2.499	302.921	$282,167.80	$630,590.30	$360,000.00	$999,720.61
86	0.022906	2.112438	0.8551	$307.44	$5.78	$0.13	$8.94	$138,950.51	0.011	1.002	4.673	430.937	2.804	258.562	$310,308.49	$537,770.10	$360,000.00	$627,029.10
87	0.017774	2.491636	0.74055	$305.16	$5.92	$0.09	$7.92	$337,182.16	0.008	1.182	3.626	508.294	2.176	304.976	$239,006.36	$649,427.58	$360,000.00	$865,616.10
88	0.020250	2.573287	1.00449	$313.41	$5.92	$0.12	$8.10	$541,769.25	0.010	1.221	4.131	524.951	2.479	314.970	$279,661.37	$670,997.25	$360,000.00	$1,132,427.88
89	0.020595	2.431277	0.92779	$313.41	$5.88	$0.12	$8.29	$402,480.17	0.010	1.153	4.201	495.981	2.521	297.588	$284,418.22	$630,187.88	$360,000.00	$957,086.27
90	0.018718	2.713514	0.78466	$324.39	$6.00	$0.10	$8.27	$500,888.60	0.009	1.287	3.819	553.557	2.291	332.134	$267,552.10	$716,862.21	$360,000.00	$1,125,302.91
91	0.021281	2.265910	0.94364	$318.08	$5.67	$0.14	$7.94	$400,361.74	0.010	1.075	4.341	462.246	2.605	277.347	$298,283.17	$565,858.97	$360,000.00	$904,503.87
92	0.019129	2.550896	0.66493	$323.97	$6.09	$0.01	$8.49	$267,279.01	0.009	1.210	3.902	520.383	2.341	312.230	$273,082.49	$684,316.60	$360,000.00	$864,678.10
93	0.018542	2.813341	0.88399	$317.14	$5.94	$0.07	$8.96	$375,597.03	0.009	1.335	3.783	573.922	2.270	344.353	$259,122.74	$736,519.36	$360,000.00	$1,011,239.12
94	0.019032	2.791666	0.60737	$308.04	$5.79	$0.06	$7.90	$461,626.31	0.009	1.324	3.883	569.500	2.330	341.700	$258,336.60	$711,914.72	$360,000.00	$1,071,877.63
95	0.020823	2.495835	1.07263	$315.88	$5.98	$0.11	$7.96	$547,356.48	0.010	1.184	4.248	509.150	2.549	305.490	$289,836.62	$658,116.81	$360,000.00	$1,135,309.92
96	0.021397	2.376915	0.80147	$331.28	$5.91	$0.11	$8.83	$299,619.10	0.010	1.128	4.365	484.891	2.619	290.935	$312,347.86	$618,996.45	$360,000.00	$870,963.41
97	0.018661	2.412634	0.94803	$310.71	$6.06	$0.06	$8.96	$158,314.33	0.009	1.145	3.807	492.178	2.284	295.307	$255,495.57	$644,718.04	$360,000.00	$698,527.94
98	0.020595	2.791666	0.84	$309.11	$5.90	$0.06	$8.27	$503,104.22	0.010	1.324	4.201	569.500	2.521	341.700	$280,517.14	$725,770.79	$360,000.00	$1,149,392.15
99	0.021869	2.407803	0.88125	$305.16	$5.96	$0.10	$8.25	$404,053.02	0.010	1.142	4.461	491.192	2.677	294.715	$294,078.27	$631,846.42	$360,000.00	$969,977.71
100	0.020870	2.695755	0.77872	$306.41	$5.87	$0.08	$8.75	$368,341.52	0.010	1.279	4.258	549.934	2.555	329.960	$281,790.38	$696,893.42	$360,000.00	$987,025.32

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE G5

	GOLD GRADE	SILVER GRADE	LEAD GRADE	GOLD PRICE	SILVER PRICE	LEAD PRICE	OPER. COST	GNR	GOLD TAILS GRADE	SILVER TAILS GRADE	PER DAY GOLD	PER DAY SILVER	GOLD REC % 60.00%	SILVER REC % 60.00%	PER YEAR GOLD VALUE	PER YEAR SILVER VALUE	OPER. COST	NET REVENUE
101	0.021950	2.512544	0.69949	$321.41	$5.96	$0.11	$7.96	$529,578.23	0.010	1.192	4.478	512.559	2.687	307.536	$310,874.25	$659,989.89	$360,000.00	$1,140,442.37
102	0.017093	2.745868	0.91722	$316.06	$5.93	$0.09	$8.83	$338,747.79	0.008	1.303	3.487	560.157	2.092	336.094	$238,061.36	$717,880.03	$360,000.00	$934,689.19
103	0.020550	2.422081	0.74846	$322.25	$5.97	$0.06	$7.85	$397,525.06	0.010	1.149	4.192	494.105	2.515	296.463	$291,820.17	$637,571.81	$360,000.00	$966,917.04
104	0.021793	2.376915	0.82996	$323.97	$5.99	$0.12	$8.91	$322,609.69	0.010	1.128	4.446	484.891	2.667	290.935	$311,109.51	$627,139.71	$360,000.00	$900,858.90
105	0.020550	2.320022	0.78756	$300.62	$5.94	$0.09	$7.94	$316,301.53	0.010	1.101	4.192	473.284	2.515	283.971	$272,232.33	$607,092.66	$360,000.00	$835,626.52
106	0.019958	2.320022	0.71184	$300.62	$5.91	$0.11	$9.48	$36,923.77	0.009	1.101	4.072	473.284	2.443	283.971	$264,384.27	$603,666.95	$360,000.00	$544,974.98
107	0.020166	2.573287	0.73197	$318.87	$5.84	$0.13	$7.92	$509,514.63	0.010	1.221	4.114	524.951	2.468	314.970	$283,358.87	$662,048.57	$360,000.00	$1,094,922.08
108	0.019622	2.353741	0.92416	$311.13	$5.89	$0.08	$8.15	$293,421.33	0.009	1.117	4.003	480.163	2.402	288.098	$269,011.92	$610,878.86	$360,000.00	$813,312.10
109	0.018279	2.658969	0.89828	$321.41	$5.93	$0.13	$10.08	$178,790.08	0.009	1.261	3.729	542.430	2.237	325.456	$258,884.74	$694,544.98	$360,000.00	$772,219.80
110	0.018773	2.304245	1.07263	$317.32	$5.87	$0.10	$7.62	$403,133.07	0.009	1.093	3.830	470.066	2.298	282.040	$262,502.39	$596,216.23	$360,000.00	$901,851.69
111	0.019622	2.582616	0.80945	$320.17	$5.96	$0.10	$8.25	$453,660.72	0.009	1.225	4.003	526.854	2.402	316.112	$276,832.93	$678,743.34	$360,000.00	$1,049,236.98
112	0.020967	2.713514	0.8249	$313.94	$5.80	$0.08	$7.98	$531,909.69	0.010	1.287	4.277	553.557	2.566	332.134	$290,054.96	$693,561.93	$360,000.00	$1,155,526.59
113	0.019492	2.525156	0.92064	$314.47	$5.98	$0.06	$7.80	$428,737.21	0.009	1.198	3.977	515.132	2.386	309.079	$270,111.41	$665,456.84	$360,000.00	$1,004,305.47
114	0.021226	2.568722	0.76612	$318.08	$5.95	$0.09	$8.77	$357,426.54	0.010	1.219	4.330	524.019	2.598	314.412	$297,506.07	$673,423.31	$360,000.00	$968,355.93
115	0.019129	2.774040	1.01507	$312.68	$6.09	$0.09	$9.67	$322,234.41	0.009	1.316	3.902	565.904	2.341	339.543	$263,562.10	$744,178.37	$360,000.00	$969,974.88
116	0.019622	2.617669	0.91388	$320.17	$5.60	$0.09	$8.22	$378,261.44	0.009	1.242	4.003	534.005	2.402	320.403	$276,832.93	$645,931.96	$360,000.00	$941,026.32
117	0.020041	2.529388	0.76278	$313.77	$5.92	$0.08	$8.30	$360,418.29	0.010	1.200	4.088	515.995	2.453	309.597	$277,088.76	$659,834.56	$360,000.00	$937,341.62
118	0.021650	2.617669	0.93154	$318.47	$5.80	$0.13	$7.96	$616,220.81	0.010	1.242	4.417	534.005	2.650	320.403	$303,829.24	$669,064.40	$360,000.00	$1,229,114.45
119	0.020083	2.417383	0.76612	$306.78	$6.13	$0.10	$8.00	$421,249.76	0.010	1.147	4.097	493.146	2.458	295.888	$271,481.13	$653,245.09	$360,000.00	$985,975.99
120	0.019449	2.470611	0.8249	$324.84	$5.86	$0.09	$10.49	($58,166.97)	0.009	1.172	3.968	504.005	2.381	302.403	$278,385.09	$637,813.03	$360,000.00	$498,031.15
121	0.022906	2.407803	1.02808	$313.77	$5.94	$0.13	$9.52	$304,074.10	0.011	1.142	4.673	491.192	2.804	294.715	$316,694.86	$630,351.51	$360,000.00	$891,120.47
122	0.019833	2.597094	0.65192	$314.47	$5.97	$0.07	$8.57	$327,931.38	0.009	1.232	4.046	529.807	2.428	317.884	$274,829.23	$683,641.10	$360,000.00	$926,401.70
123	0.020550	2.665683	0.90745	$322.56	$5.77	$0.12	$9.78	$249,660.67	0.010	1.265	4.192	543.799	2.515	326.280	$292,098.44	$677,268.92	$360,000.00	$859,028.03
124	0.020967	2.646258	0.79601	$321.68	$5.97	$0.10	$8.72	$438,969.38	0.010	1.255	4.277	539.837	2.566	323.902	$297,202.70	$696,582.60	$360,000.00	$1,072,754.67
125	0.019707	2.483273	0.76937	$313.94	$6.03	$0.11	$9.32	$204,741.36	0.009	1.178	4.020	506.588	2.412	303.953	$272,620.88	$660,266.88	$360,000.00	$777,629.12
126	0.021869	2.225959	0.81207	$302.75	$5.96	$0.10	$9.48	$48,215.64	0.010	1.056	4.461	454.096	2.677	272.457	$291,746.95	$585,009.44	$360,000.00	$564,972.03
127	0.019749	2.704334	0.80945	$318.67	$5.98	$0.12	$10.32	$173,281.98	0.009	1.283	4.029	551.684	2.417	331.011	$277,318.46	$713,095.32	$360,000.00	$803,695.76
128	0.021519	2.208333	0.86533	$317.51	$5.79	$0.06	$9.92	($108,771.35)	0.010	1.048	4.390	450.500	2.634	270.300	$301,074.59	$563,605.03	$360,000.00	$395,908.28
129	0.021793	2.208333	0.83498	$318.47	$5.90	$0.09	$9.18	$100,720.67	0.010	1.048	4.446	450.500	2.667	270.300	$305,827.95	$574,360.48	$360,000.00	$620,909.11
130	0.020292	2.516726	0.88399	$318.67	$5.91	$0.08	$8.38	$374,195.20	0.010	1.194	4.140	513.412	2.484	308.047	$284,950.01	$655,405.96	$360,000.00	$954,551.17
131	0.016590	2.208333	0.74846	$331.28	$6.03	$0.11	$8.54	$113,307.95	0.008	1.048	3.385	450.500	2.031	270.300	$242,188.41	$586,588.21	$360,000.00	$582,084.56
132	0.019129	2.516726	0.87319	$320.41	$5.91	$0.13	$9.99	$122,871.71	0.009	1.194	3.902	513.412	2.341	308.047	$270,076.80	$655,686.53	$360,000.00	$688,635.04
133	0.019664	2.376915	0.81981	$317.89	$6.01	$0.09	$8.57	$267,721.70	0.009	1.128	4.012	484.891	2.407	290.935	$275,453.26	$629,742.41	$360,000.00	$812,917.37
134	0.019176	2.365653	0.95264	$331.28	$6.02	$0.09	$9.92	$54,314.56	0.009	1.122	3.912	482.593	2.347	289.556	$279,937.31	$627,802.04	$360,000.00	$602,053.91
135	0.020776	2.320022	0.83498	$311.73	$5.88	$0.11	$7.50	$453,734.37	0.010	1.101	4.238	473.284	2.543	283.971	$285,382.28	$601,350.43	$360,000.00	$980,467.08
136	0.017093	2.759029	0.69949	$324.39	$5.86	$0.11	$9.52	$205,757.64	0.006	1.309	3.487	562.842	2.092	337.705	$244,334.66	$712,270.99	$360,000.00	$802,363.29
137	0.020292	2.5	1.07263	$305.16	$5.94	$0.07	$7.98	$414,467.66	0.010	1.186	4.140	510.000	2.484	306.000	$272,872.73	$653,893.24	$360,000.00	$981,233.62
138	0.017667	2.426712	0.77872	$318.27	$5.97	$0.13	$7.94	$383,266.07	0.008	1.151	3.604	495.049	2.163	297.030	$247,776.94	$638,443.45	$360,000.00	$909,486.45
139	0.023409	2.397907	0.9575	$316.06	$5.94	$0.10	$7.85	$544,485.31	0.011	1.138	4.775	489.173	2.865	293.504	$326,012.93	$628,050.29	$360,000.00	$1,138,548.53
140	0.018349	2.334316	0.93154	$325.88	$5.77	$0.10	$7.98	$301,253.78	0.009	1.107	3.743	476.201	2.246	285.720	$263,488.64	$593,687.50	$360,000.00	$798,429.92
141	0.023122	2.529388	0.81725	$324.39	$5.96	$0.09	$10.08	$180,920.27	0.011	1.200	4.717	515.995	2.830	309.597	$330,501.39	$664,754.18	$360,000.00	$816,175.84
142	0.018206	2.474843	0.81467	$321.68	$5.87	$0.13	$8.09	$392,042.54	0.009	1.174	3.714	504.868	2.229	302.921	$258,070.55	$640,072.32	$360,000.00	$930,185.42
143	0.021017	2.623084	0.75221	$320.64	$5.80	$0.16	$8.99	$414,287.45	0.010	1.244	4.288	535.109	2.573	321.065	$296,950.44	$670,448.32	$360,000.00	$1,021,686.21
144	0.016877	2.435809	0.60737	$301.83	$5.95	$0.15	$8.72	$175,111.24	0.008	1.156	3.443	496.905	2.066	298.143	$224,476.22	$638,578.35	$360,000.00	$678,165.81
145	0.020292	2.457800	0.72736	$312.86	$5.85	$0.13	$8.33	$369,504.24	0.010	1.166	4.140	501.391	2.484	300.835	$279,755.43	$633,602.38	$360,000.00	$922,862.06
146	0.023861	2.412634	0.60737	$319.08	$5.82	$0.14	$8.49	$405,754.76	0.011	1.145	4.868	492.178	2.921	295.307	$335,493.09	$619,021.76	$360,000.00	$1,000,269.61
147	0.023861	2.376915	0.84	$312.68	$5.94	$0.07	$10.49	($9,715.59)	0.011	1.128	4.868	484.891	2.921	290.935	$328,760.82	$622,552.25	$360,000.00	$581,597.48
148	0.019081	2.713514	0.67551	$316.59	$5.82	$0.11	$7.90	$506,608.32	0.009	1.287	3.893	553.557	2.336	332.134	$266,191.25	$695,811.01	$360,000.00	$1,108,610.59
149	0.020292	2.365653	0.94803	$328.17	$5.98	$0.16	$8.23	$500,404.26	0.010	1.122	4.140	482.593	2.484	289.556	$293,440.10	$623,066.41	$360,000.00	$1,056,910.78
150	0.019449	2.774040	0.7225	$323.23	$6.13	$0.13	$8.72	$538,083.43	0.009	1.316	3.968	565.904	2.381	339.543	$277,004.72	$749,623.95	$360,000.00	$1,204,712.10

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE G5

	GOLD GRADE	SILVER GRADE	LEAD GRADE	GOLD PRICE	SILVER PRICE	LEAD PRICE	OPER. COST	GNR	GOLD TAILS GRADE	SILVER TAILS GRADE	PER DAY GOLD	PER DAY SILVER	GOLD REC % 60.00%	SILVER REC % 60.00%	PER YEAR GOLD VALUE	PER YEAR SILVER VALUE	OPER. COST	NET REVENUE
151	0.017550	2.495835	0.73197	$324.39	$5.83	$0.09	$8.23	$279,795.14	0.008	1.184	3.580	509.150	2.148	305.490	$250,857.37	$641,443.28	$360,000.00	$812,095.79
152	0.021397	2.487455	0.8551	$311.33	$6.13	$0.09	$6.94	$690,407.63	0.010	1.180	4.365	507.441	2.619	304.464	$293,533.58	$672,180.51	$360,000.00	$1,296,121.72
153	0.019492	2.479058	0.8551	$313.41	$5.98	$0.07	$9.28	$144,169.89	0.009	1.176	3.977	505.728	2.386	303.437	$269,196.30	$653,693.05	$360,000.00	$707,059.24
154	0.019032	2.568722	0.60737	$306.41	$5.95	$0.11	$8.26	$361,881.76	0.009	1.219	3.883	524.019	2.330	314.412	$256,974.63	$673,104.12	$360,000.00	$931,960.51
155	0.020124	2.559726	0.88959	$310.06	$5.81	$0.07	$8.40	$323,836.95	0.010	1.214	4.105	522.184	2.463	313.310	$274,953.82	$655,569.46	$360,000.00	$894,360.23
156	0.020776	2.774040	0.82743	$304.12	$5.93	$0.08	$8.91	$406,651.25	0.010	1.316	4.238	565.904	2.543	339.543	$278,415.67	$725,245.34	$360,000.00	$1,050,312.26
157	0.020870	2.665683	0.82236	$318.08	$5.84	$0.03	$7.66	$496,649.74	0.010	1.265	4.258	543.799	2.555	326.280	$292,517.78	$685,820.06	$360,000.00	$1,114,987.57
158	0.023409	2.791666	0.75221	$313.94	$5.90	$0.11	$9.67	$392,765.78	0.011	1.324	4.775	569.500	2.865	341.700	$323,832.34	$725,770.79	$360,000.00	$1,082,368.91
159	0.018602	2.157853	1.07263	$314.47	$5.60	$0.09	$8.12	$134,794.57	0.009	1.024	3.795	440.202	2.277	264.121	$257,779.76	$532,468.50	$360,000.00	$565,042.83
160	0.019176	2.504165	0.95264	$301.83	$6.13	$0.13	$9.67	$214,500.56	0.009	1.188	3.912	510.850	2.347	306.510	$255,052.11	$676,696.02	$360,000.00	$786,248.70
161	0.019875	2.435809	0.98051	$328.17	$5.87	$0.10	$8.94	$280,155.34	0.009	1.156	4.055	496.905	2.433	298.143	$287,398.27	$629,693.45	$360,000.00	$837,247.06
162	0.022730	2.550896	0.8249	$308.04	$6.04	$0.07	$8.52	$421,110.56	0.011	1.210	4.637	520.383	2.782	312.230	$308,530.82	$678,969.60	$360,000.00	$1,048,610.98
163	0.018049	2.371351	0.71735	$327.25	$5.89	$0.05	$9.78	($90,127.18)	0.009	1.125	3.682	483.756	2.209	290.253	$260,276.68	$615,973.72	$360,000.00	$426,123.22
164	0.019223	2.516726	0.75584	$317.51	$5.80	$0.11	$8.75	$264,700.82	0.009	1.194	3.922	513.412	2.353	308.047	$268,952.61	$643,263.84	$360,000.00	$816,917.27
165	0.021869	2.353741	0.90745	$320.64	$5.90	$0.01	$8.38	$213,317.57	0.010	1.117	4.461	480.163	2.677	288.098	$308,996.39	$611,920.16	$360,000.00	$774,234.12
166	0.022906	2.577918	0.91063	$321.15	$5.94	$0.07	$9.72	$238,209.73	0.011	1.223	4.673	525.895	2.804	315.537	$324,143.87	$675,198.12	$360,000.00	$877,551.72
167	0.020463	2.254131	0.80945	$311.33	$5.94	$0.11	$9.32	$79,230.60	0.010	1.069	4.175	459.843	2.505	275.906	$280,728.57	$590,120.95	$360,000.00	$590,080.13
168	0.020335	2.582616	0.69949	$315.53	$5.89	$0.10	$7.77	$511,556.42	0.010	1.225	4.148	526.854	2.489	316.112	$282,727.50	$670,851.28	$360,000.00	$1,105,135.20
169	0.019315	2.652505	0.94803	$322.56	$5.85	$0.12	$8.33	$506,597.22	0.009	1.258	3.940	541.111	2.364	324.667	$274,534.92	$683,795.97	$360,000.00	$1,104,928.11
170	0.01502	2.457800	0.82236	$308.59	$5.96	$0.10	$9.48	$1,593.36	0.007	1.166	3.064	501.391	1.838	300.835	$204,239.06	$644,966.35	$360,000.00	$490,798.77
171	0.018773	2.568722	0.81207	$312.30	$6.00	$0.10	$8.80	$310,073.86	0.009	1.219	3.830	524.019	2.298	314.412	$258,349.31	$678,610.73	$360,000.00	$887,033.90
172	0.018661	2.679977	0.81981	$317.32	$5.91	$0.12	$9.28	$301,697.00	0.009	1.271	3.807	546.716	2.284	328.029	$260,933.32	$698,218.64	$360,000.00	$900,848.96
173	0.020292	2.791666	0.83498	$307.75	$5.96	$0.11	$9.43	$362,694.42	0.010	1.324	4.140	569.500	2.484	341.700	$275,180.53	$732,578.27	$360,000.00	$1,010,453.22
174	0.019223	2.417383	1.02808	$311.33	$5.84	$0.11	$8.43	$326,164.83	0.009	1.147	3.922	493.146	2.353	295.888	$263,717.47	$622,257.69	$360,000.00	$852,139.79
175	0.021338	2.426712	1.02808	$308.85	$5.91	$0.11	$8.21	$452,009.15	0.010	1.151	4.353	495.049	2.612	297.030	$290,405.30	$631,427.73	$360,000.00	$1,013,842.18
176	0.020335	2.365653	0.80147	$306.03	$5.83	$0.11	$8.39	$272,963.72	0.010	1.122	4.148	482.593	2.489	289.556	$274,216.56	$607,315.72	$360,000.00	$794,496.01
177	0.019916	2.529388	0.66493	$323.59	$6.02	$0.09	$8.18	$418,986.30	0.009	1.200	4.063	515.995	2.438	309.597	$283,981.24	$670,680.24	$360,000.00	$1,013,647.79
178	0.019622	2.359789	0.73636	$314.47	$6.00	$0.15	$7.96	$420,975.89	0.009	1.120	4.003	481.397	2.402	288.838	$271,905.61	$623,414.33	$360,000.00	$956,295.83
179	0.019404	2.577918	0.75221	$308.85	$5.90	$0.07	$6.94	$585,592.59	0.009	1.223	3.959	525.895	2.375	315.537	$264,088.40	$670,485.13	$360,000.00	$1,160,166.12
180	0.019269	2.312341	0.77872	$312.30	$5.92	$0.13	$7.62	$402,265.61	0.009	1.097	3.931	471.718	2.359	283.031	$265,177.32	$603,475.08	$360,000.00	$910,918.01
181	0.019032	2.687658	0.77567	$315.88	$5.82	$0.09	$8.62	$357,721.96	0.009	1.275	3.883	548.282	2.330	328.969	$264,912.80	$689,180.83	$360,000.00	$951,815.58
182	0.016877	2.265910	1.04537	$309.36	$5.77	$0.08	$8.43	$89,906.51	0.008	1.075	3.443	462.246	2.066	277.347	$230,069.49	$576,289.79	$360,000.00	$536,265.79
183	0.018827	2.516726	0.81467	$326.51	$6.00	$0.08	$7.85	$451,045.41	0.009	1.194	3.841	513.412	2.304	308.047	$270,881.75	$665,321.26	$360,000.00	$1,027,248.42
184	0.019223	2.407803	0.93542	$302.75	$5.60	$0.07	$9.36	($6,143.26)	0.009	1.142	3.922	491.192	2.353	294.715	$256,446.14	$594,145.75	$360,000.00	$484,448.64
185	0.019536	2.417383	0.70592	$322.88	$5.86	$0.04	$8.96	$101,339.59	0.009	1.147	3.985	493.146	2.391	295.888	$277,955.46	$624,646.72	$360,000.00	$643,941.77
186	0.018480	2.376915	0.90128	$311.92	$5.74	$0.10	$8.21	$250,440.30	0.009	1.128	3.770	484.891	2.262	290.935	$254,003.87	$600,716.80	$360,000.00	$745,160.97
187	0.01502	2.0002	0.74055	$311.53	$5.98	$0.11	$8.22	($32,293.81)	0.007	0.949	3.064	408.041	1.838	244.824	$206,182.55	$527,114.55	$360,000.00	$341,003.29
188	0.020823	2.529388	0.97408	$305.61	$5.74	$0.13	$8.07	$494,891.13	0.010	1.200	4.248	515.995	2.549	309.597	$280,417.48	$639,251.06	$360,000.00	$1,054,559.66
189	0.02	2.550896	0.90433	$320.89	$5.83	$0.01	$10.49	($130,360.68)	0.009	1.210	4.080	520.383	2.448	312.230	$282,795.00	$655,236.90	$360,000.00	$447,671.21
190	0.017872	2.347494	0.98051	$322.56	$6.03	$0.16	$9.08	$274,268.19	0.008	1.114	3.646	478.889	2.188	287.333	$254,029.19	$624,165.18	$360,000.00	$792,462.56
191	0.019791	2.453468	0.79323	$312.86	$6.03	$0.17	$8.57	$422,762.32	0.009	1.164	4.037	500.508	2.422	300.305	$272,841.98	$651,702.22	$360,000.00	$987,306.52
192	0.021338	2.312341	0.87853	$317.89	$5.92	$0.08	$7.28	$493,116.13	0.010	1.097	4.353	471.718	2.612	283.031	$298,898.53	$603,475.08	$360,000.00	$1,035,489.75
193	0.020208	2.612371	0.88399	$316.59	$5.69	$0.08	$9.99	$78,596.27	0.010	1.239	4.123	532.924	2.474	319.754	$281,917.54	$655,517.67	$360,000.00	$656,031.48
194	0.019081	2.592196	0.79323	$305.16	$5.79	$0.08	$7.88	$399,648.19	0.009	1.230	3.893	528.808	2.336	317.285	$256,582.41	$661,573.55	$360,000.00	$957,804.15
195	0.020639	2.417383	0.99548	$315.00	$6.06	$0.10	$10.19	$78,137.96	0.010	1.147	4.210	493.146	2.526	295.888	$286,480.92	$645,986.85	$360,000.00	$650,605.73
196	0.018932	2.449103	0.82996	$308.32	$5.95	$0.06	$7.90	$331,940.30	0.009	1.162	3.862	499.617	2.317	299.770	$257,208.76	$642,371.29	$360,000.00	$871,520.35
197	0.020967	2.734089	0.86019	$318.67	$5.77	$0.05	$8.30	$446,446.26	0.010	1.297	4.277	557.754	2.566	334.653	$294,423.02	$695,362.00	$360,000.00	$1,076,231.28
198	0.020041	2.665683	1.00449	$315.53	$5.89	$0.05	$7.70	$516,950.72	0.010	1.265	4.088	543.799	2.453	326.280	$278,644.71	$692,428.40	$360,000.00	$1,128,023.83
199	0.022225	2.542199	0.80681	$311.13	$6.09	$0.09	$10.19	$153,949.04	0.011	1.206	4.534	518.609	2.720	311.165	$304,702.84	$681,983.62	$360,000.00	$780,635.50
200	0.023122	2.791666	1.04537	$310.71	$6.97	$0.07	$9.57	$397,929.87	0.011	1.324	4.717	569.500	2.830	341.700	$316,568.36	$734,067.95	$360,000.00	$1,088,566.18

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE G5

	GOLD GRADE	SILVER GRADE	LEAD GRADE	GOLD PRICE	SILVER PRICE	LEAD PRICE	OPER. COST	GNP	GOLD TAILS GRADE	SILVER TAILS GRADE	PER DAY GOLD	PER DAY SILVER	GOLD REC % 60.00%	SILVER REC % 60.00%	PER YEAR GOLD VALUE	PER YEAR SILVER VALUE	OPER. COST	NET REVENUE
201	0.019833	2.542199	0.82236	$322.88	$5.79	$0.12	$8.26	$430,879.95	0.009	1.206	4.046	518.609	2.428	311.165	$282,180.69	$648,813.53	$360,000.00	$1,001,874.17
202	0.021119	2.665683	0.69949	$298.72	$6.02	$0.09	$8.36	$455,852.83	0.010	1.265	4.308	543.799	2.585	326.280	$277,990.14	$706,819.68	$360,000.00	$1,080,662.65
203	0.021338	2.431277	0.75221	$316.41	$5.84	$0.09	$8.05	$384,273.34	0.010	1.153	4.353	495.981	2.612	297.588	$297,512.39	$625,185.90	$360,000.00	$946,971.63
204	0.017269	2.623084	0.71184	$323.23	$5.85	$0.11	$8.83	$260,192.76	0.008	1.244	3.523	535.109	2.114	321.065	$245,961.86	$676,537.26	$360,000.00	$822,691.88
205	0.019749	2.495835	0.81981	$304.12	$5.74	$0.07	$7.90	$337,319.34	0.009	1.184	4.029	509.150	2.417	305.490	$264,652.71	$630,771.16	$360,000.00	$872,743.21
206	0.018932	2.387628	0.76278	$315.70	$5.92	$0.10	$8.21	$296,690.07	0.009	1.133	3.862	487.076	2.317	292.246	$263,367.18	$622,854.03	$360,000.00	$822,911.28
207	0.017964	2.695755	0.76278	$314.47	$5.86	$0.07	$8.88	$259,427.65	0.009	1.279	3.665	549.934	2.199	329.960	$248,926.10	$695,610.53	$360,000.00	$843,964.28
208	0.021869	2.813341	1.01507	$308.04	$5.84	$0.13	$8.05	$712,861.65	0.010	1.335	4.461	573.922	2.677	344.353	$296,848.05	$723,430.91	$360,000.00	$1,373,140.61
209	0.020463	2.529388	0.60737	$315.00	$6.13	$0.07	$8.16	$416,735.93	0.010	1.200	4.175	515.995	2.505	309.597	$284,038.57	$683,512.05	$360,000.00	$1,024,286.55
210	0.020124	2.665683	0.73636	$313.59	$5.72	$0.16	$7.74	$599,124.51	0.010	1.265	4.105	543.799	2.463	326.280	$278,084.89	$672,454.21	$360,000.00	$1,189,663.61
211	0.022332	2.640210	0.85257	$311.92	$6.13	$0.14	$8.39	$632,053.14	0.011	1.253	4.556	538.603	2.733	323.162	$306,947.99	$713,459.37	$360,000.00	$1,292,460.50
212	0.017269	2.791666	1.01507	$315.53	$5.94	$0.10	$8.62	$446,961.13	0.008	1.324	3.523	569.500	2.114	341.700	$240,104.05	$731,182.09	$360,000.00	$1,058,247.27
213	0.018279	2.208333	0.97408	$318.08	$5.87	$0.16	$8.64	$231,437.39	0.009	1.048	3.729	450.500	2.237	270.300	$256,203.73	$570,887.56	$360,000.00	$698,528.67
214	0.019269	2.559726	0.9575	$308.85	$6.11	$0.10	$8.22	$474,099.31	0.009	1.214	3.931	522.184	2.359	313.310	$262,249.44	$688,635.49	$360,000.00	$1,064,984.24
215	0.020166	2.759029	0.84	$319.72	$5.83	$0.14	$7.41	$740,499.79	0.010	1.309	4.114	562.842	2.468	337.705	$284,112.16	$709,085.76	$360,000.00	$1,373,697.71
216	0.019833	2.453468	0.90128	$317.70	$6.02	$0.09	$9.85	$105,534.96	0.009	1.164	4.046	500.508	2.428	300.305	$277,646.97	$651,106.53	$360,000.00	$674,288.46
217	0.019958	2.444705	0.68452	$311.33	$6.00	$0.04	$7.70	$371,812.73	0.009	1.160	4.072	498.720	2.443	299.232	$273,798.88	$646,281.76	$360,000.00	$931,893.38
218	0.020639	2.734089	0.88677	$317.51	$5.87	$0.07	$9.72	$237,199.71	0.010	1.297	4.210	557.754	2.526	334.653	$288,763.22	$707,437.20	$360,000.00	$873,400.14
219	0.020124	2.453468	0.88125	$316.23	$5.88	$0.11	$6.94	$634,275.74	0.010	1.164	4.105	500.508	2.463	300.305	$280,433.20	$635,387.39	$360,000.00	$1,190,096.33
220	0.018827	2.334316	0.75221	$313.77	$5.91	$0.13	$9.11	$126,426.28	0.009	1.107	3.841	476.201	2.304	285.720	$260,304.88	$607,644.48	$360,000.00	$634,375.64
221	0.019269	2.402905	0.88959	$312.30	$5.85	$0.05	$7.56	$349,236.51	0.009	1.140	3.931	490.193	2.359	294.116	$265,177.32	$619,749.53	$360,000.00	$874,163.36
222	0.021817	2.365653	0.69242	$320.64	$5.89	$0.07	$9.85	$6,159.30	0.010	1.122	4.288	482.593	2.573	289.556	$296,950.44	$614,232.06	$360,000.00	$557,341.80
223	0.020870	2.495835	0.94803	$324.39	$5.60	$0.07	$8.23	$335,139.13	0.010	1.184	4.258	509.150	2.555	305.490	$298,317.29	$615,868.25	$360,000.00	$889,324.67
224	0.021119	2.462098	0.82996	$301.83	$5.88	$0.05	$9.28	$113,214.67	0.010	1.168	4.308	502.268	2.585	301.361	$280,892.27	$638,176.70	$360,000.00	$672,283.63
225	0.020420	2.597094	0.76937	$304.12	$6.09	$0.17	$7.50	$706,788.29	0.010	1.232	4.166	529.807	2.499	317.884	$273,646.35	$696,709.96	$360,000.00	$1,317,144.60
226	0.017667	2.407803	0.93154	$326.51	$5.96	$0.06	$9.05	$99,810.66	0.008	1.142	3.604	491.192	2.163	294.715	$254,192.11	$631,846.42	$360,000.00	$625,849.19
227	0.017964	2.658969	0.75221	$306.41	$5.99	$0.09	$8.00	$441,581.49	0.009	1.261	3.665	542.430	2.199	325.458	$242,547.34	$701,558.47	$360,000.00	$1,025,687.30
228	0.020507	2.529388	0.99548	$322.88	$5.95	$0.12	$7.50	$660,153.58	0.010	1.200	4.183	515.995	2.510	309.597	$291,767.16	$662,797.03	$360,000.00	$1,254,717.77
229	0.019916	2.723377	0.81981	$323.97	$5.81	$0.05	$9.48	$208,843.12	0.009	1.292	4.063	555.569	2.438	333.341	$284,319.74	$697,482.03	$360,000.00	$830,644.89
230	0.019749	2.347494	0.99548	$317.51	$5.99	$0.11	$9.99	$53,341.20	0.009	1.114	4.029	478.889	2.417	287.333	$276,307.85	$619,376.95	$360,000.00	$589,026.00
231	0.017667	2.387628	1.01507	$320.17	$6.01	$0.11	$10.49	($59,167.23)	0.008	1.133	3.604	487.076	2.163	292.246	$249,254.30	$632,095.54	$360,000.00	$462,182.61
232	0.021017	2.392826	0.77872	$317.14	$5.94	$0.14	$8.91	$297,501.90	0.010	1.135	4.288	488.137	2.573	292.882	$293,703.24	$625,861.15	$360,000.00	$857,066.29
233	0.019664	2.422081	0.74846	$316.77	$5.94	$0.11	$8.49	$306,491.11	0.009	1.149	4.012	494.105	2.407	296.463	$274,487.62	$633,513.00	$360,000.00	$854,491.73
234	0.021519	2.334316	0.89534	$317.89	$5.97	$0.13	$8.31	$408,698.32	0.010	1.107	4.390	476.201	2.634	285.720	$301,433.03	$614,134.90	$360,000.00	$964,266.25
235	0.018349	2.658969	0.91388	$319.72	$5.88	$0.10	$8.26	$454,564.80	0.009	1.261	3.743	542.430	2.246	325.458	$258,506.36	$689,503.38	$360,000.00	$1,042,574.54
236	0.018542	2.457800	0.80415	$308.32	$6.02	$0.10	$8.07	$364,888.83	0.009	1.166	3.783	501.391	2.270	300.835	$251,917.95	$652,256.06	$360,000.00	$909,062.84
237	0.017872	2.568722	0.90433	$306.78	$5.83	$0.11	$8.23	$359,237.16	0.008	1.219	3.646	524.019	2.188	314.412	$241,596.29	$659,815.83	$360,000.00	$900,649.28
238	0.019833	2.612371	0.87585	$303.49	$5.98	$0.14	$8.05	$562,735.93	0.009	1.239	4.046	532.924	2.428	319.754	$265,227.11	$688,047.04	$360,000.00	$1,156,010.08
239	0.018416	2.723377	0.8249	$307.12	$5.77	$0.14	$8.12	$509,132.38	0.009	1.292	3.757	555.569	2.254	333.341	$249,219.03	$692,637.52	$360,000.00	$1,090,988.93
240	0.019492	2.320022	0.79601	$318.87	$5.84	$0.01	$8.33	$112,707.80	0.009	1.101	3.977	473.284	2.386	283.971	$273,891.49	$597,496.38	$360,000.00	$624,095.67
241	0.019791	2.704334	0.85257	$318.87	$5.79	$0.11	$9.52	$277,722.78	0.009	1.283	4.037	551.684	2.422	331.011	$278,085.22	$690,193.23	$360,000.00	$886,001.23
242	0.021793	2.607173	0.8425	$305.61	$5.86	$0.10	$9.15	$314,003.32	0.010	1.237	4.446	531.863	2.667	319.118	$293,481.47	$672,753.10	$360,000.00	$920,237.89
243	0.018349	2.276622	0.68452	$311.13	$5.93	$0.13	$9.48	$1,578.47	0.009	1.080	3.743	464.431	2.246	278.659	$251,556.75	$594,411.94	$360,000.00	$487,547.16
244	0.022449	2.695755	0.86275	$317.51	$6.05	$0.05	$8.02	$585,368.36	0.011	1.279	4.580	549.934	2.748	329.960	$314,089.68	$718,366.32	$360,000.00	$1,257,824.35
245	0.020730	2.376915	0.78756	$321.41	$5.97	$0.08	$9.57	$92,638.63	0.010	1.128	4.229	484.891	2.537	290.935	$293,592.21	$625,342.43	$360,000.00	$651,573.28
246	0.021226	2.320022	0.79601	$311.73	$5.80	$0.08	$8.72	$174,124.29	0.010	1.101	4.330	473.284	2.598	283.971	$291,563.79	$592,558.70	$360,000.00	$698,246.78
247	0.019833	2.359789	1.00449	$320.89	$6.13	$0.11	$8.52	$371,474.18	0.009	1.120	4.046	481.397	2.428	288.838	$280,438.41	$637,681.67	$360,000.00	$929,594.26
248	0.020918	2.397907	0.91722	$317.14	$5.80	$0.10	$9.36	$161,393.41	0.010	1.138	4.267	489.173	2.560	293.504	$292,325.31	$612,894.22	$360,000.00	$706,612.93
249	0.018480	2.312341	1.02808	$309.11	$5.96	$0.11	$8.31	$291,937.85	0.009	1.097	3.770	471.718	2.262	283.031	$251,714.08	$607,711.71	$360,000.00	$791,363.64
250	0.018602	2.382330	0.80415	$315.53	$5.81	$0.08	$8.77	$127,935.77	0.009	1.130	3.795	485.995	2.277	291.597	$258,643.91	$610,136.79	$360,000.00	$636,716.47

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET RESULTS TABLE

TABLE F5

	LEAD GRADE	GOLD GRADE	SILVER GRADE	ZINC GRADE	LEAD % REC.	GOLD % REC.	L-CON. GOLD % REC.	SILVER % REC.	L-CON. SILVER % REC.	ZINC % REC.	LEAD $	GOLD $	SILVER $	ZINC $	TONS P/D	CONC. RATIO	OPER. COST	GROSS NET REVENUE
1	4.675	0.132	3.387	4.546	88.93%	89.49%	72.04%	90.97%	58.67%	91.12%	$0.22	$341.05	$6.79	$0.42	75.49	12.21	$20.51	$429,898.60
2	3.940	0.139	2.104	2.569	92.59%	88.77%	80.22%	85.00%	76.36%	89.58%	$0.31	$337.08	$8.35	$0.47	79.66	21.60	$25.02	$359,182.22
3	2.159	0.125	5.568	4.450	91.73%	90.42%	68.82%	87.77%	68.42%	90.47%	$0.28	$349.73	$9.21	$0.48	84.88	12.47	$23.53	$619,525.33
4	4.905	0.115	5.013	3.674	88.27%	93.88%	79.52%	91.53%	71.52%	89.49%	$0.21	$398.26	$6.14	$0.44	69.50	15.11	$17.66	$592,778.22
5	3.195	0.103	4.588	3.674	88.93%	89.45%	73.54%	89.49%	77.29%	90.42%	$0.26	$299.38	$8.70	$0.45	95.12	15.11	$22.92	$466,666.93
6	2.095	0.114	4.950	5.113	92.14%	92.59%	76.12%	90.92%	65.30%	88.60%	$0.19	$361.67	$9.30	$0.42	92.45	10.85	$22.08	$558,186.56
7	5.145	0.097	6.694	3.059	92.46%	91.07%	71.63%	92.59%	80.21%	89.31%	$0.25	$347.35	$6.75	$0.43	89.61	18.14	$21.30	$742,942.72
8	2.506	0.173	4.856	4.088	89.31%	89.49%	57.71%	91.88%	74.12%	90.55%	$0.26	$378.70	$5.96	$0.48	73.64	13.58	$23.30	$530,439.45
9	2.274	0.032	3.954	3.971	88.41%	90.92%	68.46%	89.40%	68.73%	89.03%	$0.16	$324.21	$7.41	$0.47	65.97	13.98	$22.42	($51,176.75)
10	3.004	0.083	5.441	4.513	89.92%	90.08%	65.84%	91.40%	74.35%	89.08%	$0.18	$328.75	$8.05	$0.35	62.92	12.30	$22.08	$225,525.40
11	3.115	0.075	3.749	4.612	88.71%	88.71%	70.53%	90.04%	74.51%	90.78%	$0.25	$322.27	$8.12	$0.52	72.47	12.03	$21.62	$249,264.78
12	4.415	0.151	5.660	4.000	88.88%	90.13%	61.58%	88.82%	72.25%	90.47%	$0.23	$355.48	$7.98	$0.51	85.98	13.88	$22.36	$820,568.22
13	2.857	0.130	1.000	3.674	88.54%	88.47%	66.61%	90.08%	74.88%	90.60%	$0.20	$312.25	$6.52	$0.50	90.97	15.11	$21.72	$119,058.48
14	2.274	0.141	7.214	3.550	89.75%	90.25%	71.45%	88.60%	68.60%	91.80%	$0.21	$312.25	$5.65	$0.47	68.06	15.63	$17.66	$521,614.12
15	3.753	0.153	3.785	2.887	87.54%	89.75%	71.20%	91.34%	75.75%	87.86%	$0.28	$337.08	$6.93	$0.48	82.05	19.23	$22.13	$545,931.86
16	4.175	0.188	6.694	4.418	91.18%	90.73%	81.51%	93.13%	67.80%	88.04%	$0.18	$375.88	$10.01	$0.52	95.79	12.56	$22.55	$1,449,944.16
17	2.857	0.052	3.921	4.751	91.18%	91.53%	78.14%	93.42%	72.51%	91.40%	$0.24	$306.59	$6.89	$0.45	92.45	11.68	$19.60	$188,204.52
18	3.425	0.122	2.306	5.209	91.40%	92.34%	78.22%	87.77%	72.95%	89.22%	$0.23	$337.08	$7.25	$0.46	80.34	10.65	$23.30	$254,296.81
19	2.887	0.127	5.814	5.431	87.26%	87.66%	72.70%	86.58%	77.78%	89.31%	$0.25	$297.16	$7.57	$0.45	65.97	10.22	$22.13	$420,096.42
20	2.218	0.078	6.314	4.147	86.87%	89.03%	57.42%	89.49%	64.58%	88.60%	$0.23	$324.21	$7.50	$0.42	96.60	13.38	$20.64	$398,387.98
21	4.342	0.124	3.599	3.883	90.42%	92.59%	70.66%	87.86%	60.66%	88.04%	$0.23	$366.56	$6.79	$0.49	77.25	14.29	$20.64	$465,374.40
22	3.859	0.082	6.543	3.674	91.53%	90.87%	73.00%	92.14%	65.08%	89.36%	$0.26	$345.77	$6.86	$0.47	81.02	15.11	$23.41	$450,570.24
23	2.546	0.151	3.291	3.704	93.13%	87.41%	71.71%	90.78%	77.30%	89.53%	$0.24	$337.88	$9.51	$0.44	94.28	14.98	$22.08	$564,496.61
24	2.728	0.116	5.995	2.361	89.71%	87.66%	76.99%	86.12%	70.80%	88.34%	$0.25	$416.30	$9.51	$0.54	94.82	23.51	$20.03	$957,939.25
25	4.415	0.114	6.543	4.646	90.60%	87.41%	68.15%	90.00%	75.15%	88.66%	$0.25	$402.34	$8.92	$0.51	62.92	11.95	$21.13	$714,509.26
26	2.374	0.092	2.778	3.824	86.58%	88.93%	70.40%	89.17%	68.39%	91.88%	$0.22	$313.51	$7.63	$0.41	60.67	14.51	$22.84	$33,317.45
27	3.142	0.052	4.383	3.941	92.59%	90.13%	63.23%	90.13%	76.95%	89.92%	$0.24	$270.51	$7.35	$0.48	92.98	14.08	$18.49	$280,801.44
28	4.206	0.118	3.820	3.487	90.51%	87.26%	67.72%	90.73%	64.48%	90.17%	$0.21	$326.07	$6.64	$0.43	67.02	15.92	$20.18	$307,084.93
29	3.525	0.159	1.000	5.431	87.86%	93.88%	86.06%	87.08%	69.81%	92.46%	$0.20	$377.26	$5.89	$0.49	77.25	10.22	$17.36	$567,273.43
30	3.940	0.157	5.871	4.680	88.34%	88.60%	71.03%	88.82%	69.40%	87.54%	$0.27	$325.15	$6.48	$0.44	99.05	11.86	$22.30	$791,953.54
31	2.464	0.032	4.235	2.932	88.88%	92.34%	64.30%	90.21%	76.61%	87.96%	$0.25	$346.55	$6.43	$0.44	75.12	18.93	$20.46	$23,882.83
32	3.676	0.153	5.215	4.418	89.87%	89.71%	72.37%	89.66%	64.07%	88.34%	$0.28	$364.54	$7.79	$0.49	76.56	12.56	$21.92	$720,358.11
33	2.947	0.089	2.686	4.481	89.66%	91.18%	67.14%	91.73%	82.41%	89.58%	$0.20	$368.68	$6.48	$0.49	79.66	12.38	$21.48	$165,696.27
34	2.917	0.100	3.476	3.018	88.88%	89.49%	79.24%	91.88%	74.58%	89.40%	$0.15	$284.47	$7.79	$0.49	87.53	18.39	$24.54	$104,488.19
35	2.218	0.148	5.660	4.824	90.04%	92.04%	79.99%	93.42%	79.98%	86.12%	$0.21	$284.47	$7.63	$0.43	60.95	11.50	$21.08	$415,568.35
36	4.306	0.101	3.340	4.296	88.04%	90.83%	77.13%	90.21%	73.38%	87.08%	$0.22	$312.25	$7.29	$0.54	80.00	12.92	$22.76	$294,579.36
37	4.580	0.088	3.240	5.814	89.22%	90.73%	71.37%	89.03%	73.67%	93.42%	$0.20	$334.66	$8.12	$0.45	78.63	9.55	$20.08	$342,165.81
38	2.658	0.079	2.457	2.569	90.29%	92.23%	65.91%	90.60%	70.31%	89.66%	$0.27	$378.70	$6.86	$0.47	87.53	21.60	$25.02	$16,789.98
39	1.446	0.178	5.760	4.862	90.13%	89.45%	82.77%	89.22%	66.58%	88.41%	$0.27	$360.75	$6.14	$0.46	85.61	11.42	$21.35	$730,631.75
40	4.272	0.083	5.251	2.278	93.13%	90.25%	73.88%	90.51%	74.57%	90.04%	$0.28	$351.34	$7.35	$0.45	83.09	24.36	$20.64	$532,783.41
41	2.464	0.148	4.324	5.371	91.02%	88.88%	68.98%	92.74%	76.41%	89.03%	$0.27	$345.77	$7.00	$0.45	90.97	10.33	$20.23	$631,798.08
42	4.976	0.069	5.146	5.639	90.51%	88.12%	75.44%	88.71%	71.56%	88.41%	$0.25	$341.83	$6.14	$0.48	89.17	9.84	$21.44	$423,690.63
43	5.554	0.155	5.524	6.714	89.53%	90.04%	66.76%	89.13%	72.35%	91.59%	$0.21	$299.38	$8.75	$0.47	75.12	8.27	$23.67	$714,922.51
44	2.585	0.134	5.931	2.791	90.69%	86.87%	77.26%	89.75%	74.43%	87.86%	$0.27	$331.33	$7.85	$0.47	64.56	19.89	$20.32	$528,779.58
45	3.115	0.095	4.324	5.431	91.80%	89.13%	77.99%	91.07%	64.33%	88.41%	$0.19	$328.75	$6.24	$0.52	67.55	10.22	$19.28	$302,729.73
46	2.694	0.082	5.251	3.519	88.41%	90.64%	83.88%	90.21%	64.10%	91.40%	$0.30	$367.60	$6.29	$0.47	93.80	15.77	$23.10	$354,358.88
47	2.917	0.111	3.888	3.853	89.62%	91.07%	73.31%	92.34%	77.10%	89.87%	$0.26	$383.57	$8.56	$0.43	77.60	14.40	$19.41	$516,949.89
48	4.536	0.127	3.749	2.887	87.66%	89.22%	75.39%	87.41%	67.20%	90.47%	$0.30	$416.30	$5.89	$0.48	83.80	19.23	$22.55	$587,357.32
49	4.782	0.065	5.614	4.387	88.41%	91.88%	65.99%	91.12%	71.67%	91.12%	$0.22	$310.93	$7.10	$0.45	83.09	12.65	$21.17	$406,838.57
50	1.855	0.128	6.222	3.582	88.77%	89.22%	76.60%	91.34%	69.88%	90.92%	$0.23	$394.95	$8.19	$0.49	72.07	15.50	$18.98	$700,498.21

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET RESULTS TABLE

TABLE F5

#	LEAD GRADE	GOLD GRADE	SILVER GRADE	ZINC GRADE	LEAD % REC.	GOLD % REC.	L-CON. GOLD % REC.	SILVER % REC.	L-CON. SILVER % REC.	ZINC % REC.	LEAD $	GOLD $	SILVER $	ZINC $	TONS P/D	CONC. RATIO	OPER. COST	GROSS NET REVENUE
51	3.500	0.148	3.387	3.824	88.47%	90.97%	69.06%	89.66%	74.53%	91.59%	$0.24	$309.56	$7.19	$0.44	79.32	14.51	$19.48	$473,261.13
52	4.905	0.155	5.362	4.715	89.36%	92.23%	73.32%	91.29%	72.42%	87.86%	$0.17	$328.75	$7.03	$0.55	64.21	11.77	$19.60	$609,627.87
53	3.450	0.148	5.180	1.286	89.40%	88.82%	70.61%	89.40%	69.39%	89.53%	$0.28	$353.81	$7.50	$0.43	69.95	43.16	$20.77	$576,262.88
54	4.024	0.078	3.888	2.932	87.54%	88.93%	76.13%	89.49%	74.05%	90.42%	$0.22	$338.68	$7.00	$0.44	82.05	18.93	$22.92	$201,235.58
55	3.324	0.094	4.617	4.000	90.13%	89.45%	79.94%	89.03%	76.66%	92.14%	$0.21	$297.16	$6.75	$0.35	73.64	13.88	$18.37	$300,629.26
56	4.239	0.116	4.736	4.579	92.04%	90.13%	74.42%	88.34%	66.32%	91.88%	$0.21	$334.66	$5.65	$0.52	83.80	12.12	$19.77	$518,109.73
57	1.619	0.122	3.476	2.932	89.49%	92.92%	75.90%	88.41%	76.84%	90.83%	$0.23	$352.98	$6.93	$0.43	81.71	18.93	$18.98	$362,355.42
58	3.913	0.099	3.291	3.388	88.66%	91.46%	75.19%	93.88%	84.83%	89.49%	$0.28	$389.65	$8.99	$0.41	78.29	16.38	$23.30	$407,236.72
59	2.420	0.106	5.251	3.704	90.08%	91.73%	69.45%	88.93%	74.42%	92.23%	$0.26	$312.25	$6.82	$0.50	62.35	14.98	$19.21	$355,987.58
60	1.446	0.061	3.005	2.686	89.22%	88.34%	64.04%	85.00%	56.36%	89.83%	$0.19	$344.98	$6.43	$0.44	84.15	20.66	$22.49	($142,233.70)
61	4.143	0.118	5.362	4.206	89.71%	91.46%	71.78%	87.41%	62.11%	90.13%	$0.18	$323.25	$8.65	$0.47	70.83	13.20	$18.07	$566,888.43
62	3.913	0.095	2.104	3.735	89.58%	90.34%	68.58%	90.25%	65.97%	88.77%	$0.23	$330.48	$7.19	$0.48	99.05	14.86	$19.98	$261,452.85
63	5.145	0.069	4.144	2.932	89.92%	90.38%	69.49%	89.31%	65.53%	89.40%	$0.17	$314.72	$7.75	$0.46	98.36	18.93	$18.60	$386,144.02
64	3.600	0.055	1.786	3.735	90.13%	86.87%	81.39%	89.31%	71.00%	90.73%	$0.20	$323.25	$9.30	$0.54	88.75	14.86	$18.49	$127,167.44
65	1.749	0.084	3.432	5.068	92.92%	91.73%	61.88%	88.12%	70.79%	86.58%	$0.29	$383.57	$6.72	$0.46	72.87	10.95	$23.83	$79,929.54
66	4.083	0.094	5.079	4.000	90.73%	89.66%	80.55%	88.98%	71.93%	90.29%	$0.32	$377.26	$6.48	$0.47	76.91	13.88	$20.08	$562,169.36
67	3.273	0.100	3.888	2.686	85.00%	88.82%	68.78%	91.18%	68.84%	93.13%	$0.24	$303.25	$7.63	$0.50	86.74	20.66	$21.87	$297,414.08
68	3.374	0.104	3.518	2.686	90.73%	90.51%	73.32%	90.04%	71.28%	90.25%	$0.22	$337.08	$8.16	$0.45	94.03	20.66	$20.91	$392,876.95
69	3.806	0.084	4.204	5.209	90.73%	89.40%	77.96%	91.23%	79.29%	90.04%	$0.23	$313.51	$6.24	$0.47	95.12	10.65	$22.49	$301,396.22
70	2.095	0.148	3.518	4.982	88.98%	89.75%	62.97%	90.13%	74.42%	87.66%	$0.22	$389.65	$8.99	$0.49	71.25	11.14	$21.04	$491,306.16
71	3.088	0.118	4.856	4.901	92.14%	91.07%	80.64%	86.12%	65.89%	91.12%	$0.27	$315.90	$8.56	$0.41	61.64	11.32	$18.89	$447,124.85
72	2.374	0.097	5.709	2.629	88.04%	90.69%	71.48%	87.26%	62.67%	89.66%	$0.27	$294.69	$6.56	$0.51	65.72	21.11	$21.82	$244,951.89
73	3.273	0.114	4.950	5.024	90.13%	91.96%	74.49%	90.34%	58.26%	90.51%	$0.23	$392.13	$6.64	$0.47	80.34	11.05	$22.92	$466,364.05
74	2.826	0.134	5.660	4.824	91.02%	85.00%	66.42%	87.08%	64.98%	90.78%	$0.17	$319.21	$6.60	$0.45	73.26	11.50	$21.87	$368,051.22
75	4.306	0.097	5.046	5.564	88.93%	88.77%	74.46%	91.66%	80.51%	92.34%	$0.26	$389.65	$6.60	$0.48	64.21	9.97	$21.82	$455,246.96
76	2.694	0.083	4.082	3.941	90.08%	88.12%	69.76%	91.18%	78.74%	91.46%	$0.15	$342.62	$7.25	$0.45	97.08	14.08	$21.48	$236,995.41
77	3.753	0.105	4.264	2.629	90.97%	88.66%	58.79%	89.71%	67.15%	88.71%	$0.27	$330.48	$7.66	$0.48	92.98	21.11	$21.39	$463,882.94
78	5.251	0.032	3.240	2.569	91.40%	90.83%	79.20%	90.97%	68.69%	90.25%	$0.22	$356.33	$7.00	$0.48	82.05	21.60	$23.41	$49,158.97
79	2.159	0.108	2.861	4.176	89.62%	88.27%	76.72%	88.82%	76.48%	92.92%	$0.23	$297.16	$10.01	$0.45	66.47	13.29	$17.36	$304,063.65
80	3.651	0.125	4.235	4.206	91.23%	88.88%	73.87%	90.87%	68.42%	90.08%	$0.23	$322.27	$7.53	$0.49	97.08	13.20	$20.69	$600,553.85
81	3.859	0.096	4.235	3.794	90.92%	89.49%	69.77%	89.71%	79.78%	89.62%	$0.27	$361.67	$6.93	$0.43	91.94	14.63	$22.13	$441,769.47
82	2.728	0.153	6.064	5.113	90.04%	89.45%	74.51%	91.12%	60.42%	88.04%	$0.21	$339.47	$7.53	$0.46	72.47	10.85	$20.73	$614,264.04
83	4.272	0.063	5.013	1.286	92.23%	88.34%	71.27%	89.75%	66.55%	90.55%	$0.19	$351.34	$7.19	$0.39	93.80	43.16	$24.54	$178,617.55
84	2.976	0.120	5.995	6.194	85.00%	90.08%	71.61%	88.41%	66.56%	90.42%	$0.21	$313.51	$9.30	$0.44	62.35	8.96	$21.30	$484,420.70
85	2.622	0.173	4.856	4.481	88.54%	90.87%	62.09%	92.92%	79.55%	90.21%	$0.30	$360.75	$5.74	$0.47	85.98	12.38	$19.98	$736,321.54
86	2.917	0.168	3.340	2.686	87.96%	88.20%	68.13%	90.21%	60.86%	87.26%	$0.25	$270.51	$6.96	$0.46	60.67	20.66	$22.84	$223,587.00
87	3.996	0.109	4.647	4.982	90.42%	88.41%	68.30%	92.59%	71.19%	92.23%	$0.24	$366.56	$6.29	$0.51	99.33	11.14	$21.72	$604,375.87
88	4.342	0.085	7.214	4.117	90.42%	90.64%	70.98%	91.02%	82.80%	89.40%	$0.23	$326.07	$7.03	$0.46	74.76	13.48	$21.87	$548,857.79
89	2.694	0.093	3.785	5.919	87.96%	90.87%	75.20%	90.51%	77.70%	88.98%	$0.27	$314.72	$7.63	$0.48	94.03	9.38	$20.82	$379,296.77
90	3.859	0.168	3.518	4.000	88.04%	89.45%	71.71%	91.53%	62.54%	88.98%	$0.14	$284.47	$7.85	$0.49	80.00	13.88	$23.53	$360,029.17
91	4.626	0.092	2.861	4.646	90.25%	89.36%	57.63%	89.92%	76.36%	86.87%	$0.22	$297.16	$6.02	$0.45	85.61	11.95	$20.73	$189,842.78
92	4.024	0.149	3.069	3.613	88.71%	90.51%	69.42%	88.47%	75.14%	89.31%	$0.23	$389.65	$8.35	$0.42	71.67	15.36	$22.02	$494,704.67
93	4.675	0.113	5.568	4.715	90.83%	88.41%	64.09%	89.08%	65.36%	89.62%	$0.23	$322.27	$8.39	$0.48	64.21	11.77	$22.19	$472,351.99
94	1.749	0.159	4.676	4.387	89.17%	90.64%	66.75%	89.83%	63.03%	92.92%	$0.24	$337.88	$7.25	$0.52	90.50	12.65	$21.92	$613,892.60
95	3.832	0.094	5.709	4.862	87.96%	88.04%	71.32%	87.41%	68.15%	89.87%	$0.28	$322.27	$7.22	$0.41	67.55	11.42	$23.53	$332,786.42
96	4.580	0.085	5.995	5.024	91.02%	90.78%	68.92%	90.29%	69.59%	89.36%	$0.29	$354.64	$6.86	$0.43	78.63	11.05	$22.69	$506,438.61
97	3.832	0.074	2.104	4.450	89.40%	88.34%	72.01%	87.66%	66.89%	87.86%	$0.19	$326.98	$10.35	$0.48	72.87	12.47	$23.10	$57,295.93
98	3.475	0.074	2.104	4.059	90.83%	91.73%	73.84%	90.73%	70.74%	90.17%	$0.22	$335.47	$5.82	$0.46	64.88	13.67	$20.91	$55,350.32
99	3.600	0.125	5.146	3.285	91.66%	88.27%	67.19%	92.14%	68.76%	93.88%	$0.21	$327.87	$7.25	$0.42	65.97	16.89	$24.01	$332,406.97
100	3.273	0.081	3.854	3.883	89.08%	89.03%	73.35%	88.66%	71.07%	89.66%	$0.26	$321.28	$7.35	$0.52	91.45	14.29	$20.69	$339,191.89

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET RESULTS TABLE

TABLE F5

	LEAD GRADE	GOLD GRADE	SILVER GRADE	ZINC GRADE	LEAD % REC.	GOLD % REC.	L-CON. GOLD % REC.	SILVER % REC.	L-CON. SILVER % REC.	ZINC % REC.	LEAD $	GOLD $	SILVER $	ZINC $	TONS P/D	CONC. RATIO	OPER. COST	GROSS NET REVENUE
#101	2.464	0.142	5.568	4.326	91.66%	92.74%	73.42%	89.36%	79.12%	90.83%	$0.20	$389.65	$8.12	$0.46	87.93	12.83	$22.76	$758,810.51
#102	2.761	0.071	4.887	3.674	90.08%	87.26%	60.24%	91.96%	73.11%	90.83%	$0.22	$333.83	$6.24	$0.44	99.33	15.11	$22.62	$172,619.25
#103	3.273	0.127	5.362	4.751	90.25%	89.36%	74.44%	90.04%	73.25%	90.25%	$0.20	$342.62	$8.47	$0.47	75.85	11.68	$21.67	$581,249.43
#104	4.083	0.153	4.324	2.840	89.03%	88.47%	82.89%	90.64%	71.91%	91.96%	$0.19	$366.56	$9.13	$0.51	77.95	19.54	$19.54	$769,872.01
#105	3.195	0.115	4.412	4.941	87.54%	87.86%	68.03%	91.02%	81.77%	91.40%	$0.23	$279.06	$8.05	$0.49	90.97	11.23	$23.01	$418,768.88
#106	4.239	0.124	5.013	4.579	89.22%	90.55%	71.38%	91.12%	65.76%	89.27%	$0.26	$288.55	$7.38	$0.47	69.95	12.12	$21.04	$463,798.35
#107	2.976	0.165	4.113	6.194	89.36%	92.04%	74.41%	90.55%	63.96%	89.71%	$0.24	$325.15	$7.10	$0.51	97.65	8.96	$20.46	$776,175.44
#108	3.273	0.134	5.362	0.500	89.27%	89.27%	65.25%	90.83%	73.42%	88.88%	$0.22	$347.35	$7.82	$0.49	90.05	111.02	$18.49	$720,795.64
#109	3.525	0.116	4.294	4.236	88.93%	89.53%	66.39%	87.66%	71.61%	89.13%	$0.27	$359.84	$9.21	$0.47	69.50	13.10	$20.73	$501,597.46
#110	4.495	0.134	5.079	2.840	91.80%	88.41%	72.84%	88.77%	68.08%	90.60%	$0.19	$328.75	$5.82	$0.47	92.45	19.54	$21.39	$528,617.33
#111	3.550	0.093	3.129	6.714	90.21%	88.54%	78.39%	88.82%	71.36%	87.66%	$0.21	$337.88	$6.93	$0.49	69.95	8.27	$22.08	$216,323.35
#112	3.168	0.104	6.139	3.519	89.36%	93.42%	69.72%	89.53%	70.42%	89.31%	$0.21	$308.11	$8.23	$0.47	77.95	15.77	$19.48	$567,304.66
#113	5.251	0.092	4.294	4.481	91.80%	91.80%	65.93%	90.08%	69.43%	89.03%	$0.24	$328.75	$8.05	$0.44	98.36	12.38	$20.08	$611,889.66
#114	3.400	0.129	4.412	4.862	88.27%	90.21%	79.54%	89.92%	69.30%	86.87%	$0.21	$336.28	$6.96	$0.53	61.64	11.42	$20.37	$399,801.16
#115	3.832	0.143	5.760	2.436	90.97%	92.23%	55.34%	90.38%	83.64%	88.82%	$0.29	$389.65	$5.15	$0.43	89.17	22.79	$21.35	$696,585.58
#116	4.083	0.139	5.613	4.862	89.87%	90.47%	72.52%	87.26%	79.99%	88.66%	$0.25	$328.75	$8.27	$0.47	74.02	11.42	$15.70	$840,166.09
#117	3.324	0.107	4.324	5.564	90.29%	91.46%	73.48%	89.58%	77.60%	88.04%	$0.20	$344.98	$7.41	$0.46	70.39	9.97	$20.60	$363,281.02
#118	4.626	0.055	2.457	4.751	89.75%	91.73%	75.57%	92.59%	76.96%	88.60%	$0.20	$361.67	$8.43	$0.48	76.20	11.68	$20.42	$158,080.70
#119	3.349	0.151	5.112	4.982	90.87%	93.13%	72.61%	88.34%	75.03%	92.23%	$0.28	$288.55	$5.96	$0.45	75.85	11.14	$17.89	$607,449.96
#120	4.415	0.052	4.918	2.740	87.66%	92.46%	76.01%	88.77%	68.08%	88.27%	$0.26	$314.72	$6.89	$0.44	83.44	20.26	$19.21	$316,788.19
#121	4.580	0.052	5.079	4.029	89.31%	91.23%	63.53%	89.36%	62.69%	89.71%	$0.21	$312.25	$5.55	$0.51	79.32	13.77	$17.89	$274,817.30
#122	3.676	0.113	5.112	4.117	88.98%	89.79%	73.19%	89.03%	64.25%	87.26%	$0.20	$398.26	$6.56	$0.49	85.98	13.48	$20.60	$551,284.76
#123	1.446	0.052	7.214	5.495	90.29%	90.17%	77.19%	90.92%	72.43%	89.22%	$0.19	$321.28	$7.32	$0.47	67.55	10.10	$20.69	$285,171.71
#124	2.976	0.113	5.401	4.147	91.46%	92.59%	72.51%	91.02%	78.85%	90.92%	$0.27	$279.06	$7.22	$0.45	84.51	13.38	$21.35	$488,337.38
#125	3.298	0.085	4.981	5.314	89.49%	90.21%	74.16%	88.82%	66.49%	87.41%	$0.28	$331.33	$7.25	$0.48	77.25	10.44	$21.53	$370,683.97
#126	3.004	0.083	7.214	5.431	89.53%	92.46%	77.38%	89.75%	74.27%	91.23%	$0.26	$288.55	$8.39	$0.48	94.28	10.22	$21.08	$757,391.85
#127	3.968	0.074	3.954	3.794	90.60%	86.87%	66.46%	88.71%	79.70%	92.92%	$0.25	$325.15	$6.29	$0.48	79.32	14.63	$20.55	$272,322.97
#128	1.749	0.162	6.064	3.519	90.29%	91.80%	82.04%	90.38%	67.23%	90.83%	$0.25	$334.66	$6.56	$0.53	64.21	15.77	$20.82	$544,965.28
#129	3.676	0.110	2.861	4.418	88.12%	88.47%	68.82%	88.47%	74.39%	88.20%	$0.21	$341.83	$8.81	$0.40	99.33	12.56	$23.67	$258,274.89
#130	2.095	0.095	5.046	4.824	91.46%	88.34%	65.72%	90.42%	73.25%	91.29%	$0.26	$310.93	$8.19	$0.38	71.67	11.50	$17.36	$391,983.18
#131	5.554	0.090	4.676	4.513	90.04%	88.04%	64.09%	92.46%	68.56%	90.25%	$0.30	$310.93	$8.02	$0.47	94.55	12.30	$22.42	$648,270.10
#132	2.506	0.077	6.314	2.505	89.92%	88.47%	70.93%	88.20%	66.96%	88.20%	$0.18	$303.25	$6.43	$0.44	92.45	22.16	$19.54	$314,281.87
#133	5.381	0.116	6.064	4.751	89.17%	92.74%	77.26%	90.13%	69.12%	86.58%	$0.26	$313.51	$8.70	$0.48	76.91	11.68	$23.83	$699,272.98
#134	2.420	0.105	5.613	3.644	91.46%	88.82%	71.65%	88.41%	68.13%	91.12%	$0.20	$362.61	$7.92	$0.48	76.56	15.23	$20.64	$472,612.30
#135	4.113	0.135	5.441	2.840	93.42%	90.92%	79.02%	89.27%	72.61%	88.04%	$0.23	$304.98	$7.72	$0.45	68.06	19.54	$22.02	$503,027.69
#136	1.619	0.097	2.306	4.579	92.59%	90.47%	76.63%	92.34%	68.47%	89.45%	$0.21	$319.21	$4.93	$0.49	60.67	12.12	$20.86	$36,244.21
#137	3.676	0.102	4.144	3.421	91.80%	89.62%	67.28%	92.34%	81.76%	89.22%	$0.21	$324.21	$6.08	$0.45	65.72	16.22	$23.01	$190,573.74
#138	5.826	0.093	5.180	3.099	92.14%	90.08%	70.85%	91.73%	77.32%	90.47%	$0.21	$339.47	$6.96	$0.48	60.67	17.91	$21.17	$395,782.71
#139	5.826	0.085	4.113	4.513	88.27%	93.42%	69.27%	88.41%	73.32%	91.96%	$0.19	$354.64	$8.35	$0.47	80.00	12.30	$21.13	$458,438.00
#140	2.947	0.153	4.765	3.059	90.38%	88.20%	70.71%	91.02%	70.31%	92.23%	$0.25	$288.55	$7.88	$0.43	62.92	18.14	$19.60	$442,337.85
#141	3.676	0.083	6.694	4.901	93.42%	89.31%	78.45%	88.66%	74.20%	92.14%	$0.24	$385.42	$8.31	$0.41	94.03	11.32	$19.66	$811,230.57
#142	3.168	0.165	5.871	6.714	91.59%	90.47%	77.67%	90.25%	77.05%	90.17%	$0.24	$323.25	$9.13	$0.47	65.46	8.27	$20.69	$749,401.98
#143	2.024	0.109	6.064	3.213	89.31%	89.31%	66.44%	89.71%	68.63%	89.17%	$0.30	$342.62	$7.06	$0.52	65.97	17.27	$22.84	$362,123.17
#144	4.342	0.107	3.888	6.714	89.22%	85.00%	73.64%	90.51%	70.08%	90.34%	$0.27	$306.59	$6.60	$0.47	82.05	8.27	$21.30	$430,345.12
#145	3.195	0.106	4.235	4.982	88.12%	91.40%	78.47%	90.04%	66.31%	91.80%	$0.17	$341.05	$9.39	$0.43	82.05	11.14	$22.02	$414,592.42
#146	2.917	0.124	3.069	4.546	90.55%	89.40%	79.51%	89.87%	75.75%	92.92%	$0.28	$328.75	$7.98	$0.50	60.67	12.21	$20.42	$350,440.31
#147	3.575	0.122	3.676	2.976	88.12%	89.87%	65.43%	89.40%	71.97%	88.27%	$0.22	$355.48	$8.43	$0.45	86.74	18.65	$21.08	$462,330.17
#148	3.968	0.165	2.686	4.387	88.93%	90.78%	64.12%	92.23%	66.86%	89.66%	$0.26	$325.15	$6.75	$0.44	78.29	12.65	$25.02	$357,409.18
#149	4.024	0.143	5.013	3.285	86.12%	87.41%	68.30%	88.54%	53.12%	90.38%	$0.17	$347.35	$6.52	$0.45	77.60	16.89	$20.28	$474,086.57
#150	5.554	0.168	4.324	4.000	90.29%	92.04%	68.25%	86.58%	62.48%	90.17%	$0.21	$299.38	$6.29	$0.46	68.06	13.88	$23.53	$438,246.15

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET RESULTS TABLE

TABLE F5

	LEAD GRADE	GOLD GRADE	SILVER GRADE	ZINC GRADE	LEAD % REC.	GOLD % REC.	L-CON. GOLD % REC.	SILVER % REC.	L-CON. SILVER % REC.	ZINC % REC.	LEAD $	GOLD $	SILVER $	ZINC $	TONS P/D	CONC. RATIO	OPER. COST	GROSS NET REVENUE
#151	2.658	0.042	4.412	0.500	89.27%	88.93%	71.59%	89.79%	74.63%	89.58%	$0.28	$333.83	$7.85	$0.51	99.33	111.02	$21.72	$144,640.07
#152	3.004	0.111	2.306	6.714	91.46%	92.04%	79.49%	88.27%	75.36%	91.02%	$0.24	$348.14	$7.29	$0.47	94.28	8.27	$18.89	$455,235.43
#153	3.425	0.097	6.694	3.613	90.25%	90.83%	69.31%	91.88%	66.60%	90.73%	$0.21	$288.55	$6.96	$0.44	95.79	15.36	$20.28	$566,950.30
#154	5.145	0.120	3.340	5.639	88.20%	90.13%	69.95%	92.04%	76.17%	88.66%	$0.29	$319.21	$6.60	$0.46	77.95	9.84	$22.92	$435,777.93
#155	2.325	0.084	6.543	3.941	87.08%	92.23%	67.67%	89.75%	69.17%	89.08%	$0.22	$312.25	$8.39	$0.43	65.18	14.08	$21.53	$355,995.48
#156	3.032	0.113	4.918	2.840	90.47%	90.51%	80.50%	88.12%	73.92%	87.26%	$0.26	$326.07	$8.05	$0.46	68.55	19.54	$23.10	$373,550.37
#157	4.626	0.081	5.441	4.000	85.00%	89.79%	70.32%	89.62%	75.92%	93.88%	$0.27	$294.69	$6.86	$0.38	89.17	13.88	$19.35	$505,842.15
#158	5.251	0.126	5.524	4.513	88.12%	92.14%	71.67%	85.00%	66.56%	88.20%	$0.23	$357.19	$9.51	$0.45	89.61	12.30	$19.82	$917,410.26
#159	3.779	0.061	3.888	4.481	90.34%	91.46%	61.70%	89.22%	68.43%	89.17%	$0.16	$364.54	$7.03	$0.49	75.85	12.38	$17.66	$238,441.10
#160	3.702	0.127	4.588	3.941	90.17%	87.77%	68.88%	92.23%	74.87%	88.60%	$0.27	$249.40	$6.39	$0.49	64.21	14.08	$20.82	$317,819.36
#161	3.088	0.141	5.760	3.421	91.29%	89.62%	78.15%	92.59%	71.69%	90.60%	$0.27	$398.26	$7.10	$0.52	94.03	16.22	$21.39	$926,250.99
#162	0.500	0.102	3.432	4.646	90.17%	91.73%	72.61%	90.17%	73.35%	91.23%	$0.24	$352.16	$7.82	$0.48	77.60	11.95	$20.46	$219,663.97
#163	2.761	0.124	4.050	5.113	90.08%	90.60%	71.41%	89.27%	74.20%	88.54%	$0.17	$308.11	$8.47	$0.48	76.20	10.85	$21.97	$352,650.83
#164	2.694	0.146	4.887	4.147	91.12%	91.40%	75.80%	91.46%	68.46%	88.71%	$0.26	$344.98	$7.19	$0.49	77.25	13.38	$19.98	$621,018.68
#165	3.676	0.168	3.291	4.646	90.38%	91.66%	64.31%	91.46%	74.56%	85.00%	$0.26	$333.83	$5.55	$0.48	79.32	11.95	$21.35	$497,464.84
#166	3.032	0.093	3.888	3.320	90.60%	89.96%	60.69%	92.34%	77.46%	91.12%	$0.22	$341.83	$8.56	$0.44	98.36	16.72	$22.49	$351,375.17
#167	4.306	0.095	3.476	4.059	90.83%	89.22%	78.08%	92.92%	78.91%	92.46%	$0.18	$347.35	$8.02	$0.41	98.36	13.67	$22.49	$358,250.28
#168	3.702	0.083	3.005	3.138	90.51%	89.83%	68.20%	89.40%	76.33%	89.58%	$0.26	$385.42	$5.31	$0.38	74.76	17.69	$16.88	$275,943.68
#169	3.450	0.116	5.931	5.371	89.53%	89.13%	74.25%	90.60%	71.26%	90.73%	$0.22	$313.51	$5.96	$0.50	62.35	10.33	$20.37	$403,700.74
#170	3.273	0.082	4.412	5.113	92.74%	88.41%	76.84%	91.66%	74.56%	86.87%	$0.19	$394.95	$7.00	$0.45	66.20	10.85	$20.08	$278,822.91
#171	3.142	0.126	3.476	4.029	88.41%	85.00%	61.88%	92.92%	68.17%	91.12%	$0.32	$343.41	$9.06	$0.45	68.06	13.77	$21.62	$396,843.45
#172	3.060	0.072	4.050	4.265	91.40%	87.26%	59.62%	89.45%	74.51%	89.17%	$0.19	$339.47	$4.60	$0.44	71.67	13.01	$21.17	$43,478.25
#173	2.917	0.148	4.647	3.059	89.49%	90.29%	73.76%	89.13%	62.06%	90.08%	$0.24	$341.83	$7.60	$0.48	71.25	18.14	$20.64	$516,715.91
#174	1.619	0.063	3.559	2.505	88.71%	89.96%	78.18%	88.71%	65.33%	91.18%	$0.21	$398.26	$6.86	$0.44	99.05	22.16	$23.67	($18,204.47)
#175	2.794	0.113	6.419	5.160	89.08%	88.04%	66.29%	89.17%	73.79%	88.34%	$0.27	$363.56	$7.75	$0.45	76.56	10.76	$22.92	$549,582.39
#176	3.032	0.092	2.457	0.500	88.41%	91.53%	64.22%	92.23%	74.41%	91.07%	$0.24	$362.61	$7.57	$0.46	92.98	111.02	$18.60	$267,927.91
#177	3.221	0.093	5.814	3.582	86.58%	90.87%	83.31%	92.14%	83.26%	90.69%	$0.25	$355.48	$7.79	$0.46	64.56	15.50	$20.99	$464,035.09
#178	2.585	0.085	3.987	2.081	89.92%	89.22%	67.36%	88.77%	75.01%	89.53%	$0.26	$359.84	$3.77	$0.47	88.33	26.67	$25.02	($18,662.47)
#179	0.500	0.010	3.921	4.941	90.51%	89.27%	70.67%	88.93%	68.86%	91.88%	$0.31	$323.25	$6.14	$0.50	66.47	11.23	$20.03	($117,491.66)
#180	3.996	0.116	2.936	2.081	91.88%	88.77%	74.12%	88.93%	66.76%	91.02%	$0.17	$346.55	$5.31	$0.52	95.44	26.67	$17.89	$390,264.54
#181	3.500	0.120	5.482	3.176	85.00%	93.42%	68.54%	91.53%	77.73%	89.79%	$0.17	$328.75	$8.51	$0.49	88.75	17.48	$21.30	$638,758.14
#182	2.218	0.079	5.760	5.564	93.42%	91.07%	72.86%	89.17%	77.25%	90.34%	$0.23	$350.54	$3.77	$0.44	95.79	9.97	$16.88	$332,405.47
#183	3.374	0.101	4.144	5.495	93.88%	90.21%	69.19%	89.13%	72.05%	92.04%	$0.12	$326.07	$6.34	$0.41	73.64	10.10	$18.37	$258,272.57
#184	4.306	0.072	4.981	4.265	89.13%	86.12%	69.04%	93.88%	83.12%	90.38%	$0.24	$389.65	$6.60	$0.42	85.24	13.01	$18.49	$489,222.46
#185	3.626	0.132	4.765	1.604	89.03%	92.59%	80.74%	90.73%	72.28%	90.04%	$0.23	$331.33	$9.06	$0.44	85.98	34.60	$23.10	$611,639.69
#186	2.947	0.128	2.861	2.740	88.88%	88.12%	67.91%	88.20%	65.18%	88.88%	$0.26	$328.75	$6.08	$0.46	73.64	20.26	$22.42	$201,440.35
#187	3.885	0.093	4.500	5.919	89.87%	92.92%	75.27%	88.41%	76.35%	89.79%	$0.26	$330.48	$7.72	$0.46	96.60	9.38	$21.13	$558,801.03
#188	2.857	0.100	3.387	4.612	87.86%	88.20%	67.97%	92.04%	82.26%	91.88%	$0.25	$320.26	$5.55	$0.50	78.63	12.03	$18.98	$292,164.09
#189	4.083	0.157	5.112	2.505	87.41%	89.53%	80.91%	89.13%	68.01%	90.83%	$0.27	$377.26	$8.99	$0.44	82.75	22.16	$23.30	$845,901.10
#190	3.525	0.143	4.588	3.941	87.08%	87.54%	72.60%	90.60%	77.56%	90.38%	$0.18	$373.31	$7.29	$0.46	97.08	14.08	$20.51	$725,360.46
#191	4.841	0.118	3.854	6.194	89.62%	92.92%	70.35%	91.73%	60.82%	86.87%	$0.21	$312.25	$7.44	$0.50	75.49	8.96	$20.03	$465,399.30
#192	5.381	0.168	3.785	4.787	88.20%	91.88%	69.56%	86.87%	79.02%	89.45%	$0.17	$407.76	$8.12	$0.39	99.05	11.59	$20.32	$953,269.82
#193	3.400	0.118	5.814	2.740	91.34%	89.40%	72.42%	91.73%	75.57%	87.96%	$0.23	$319.21	$5.44	$0.52	77.60	20.26	$20.42	$437,212.42
#194	4.175	0.143	1.786	5.371	89.45%	89.75%	76.02%	93.88%	85.40%	86.58%	$0.21	$325.15	$6.72	$0.51	64.21	10.33	$18.80	$358,476.08
#195	4.306	0.096	4.736	3.249	89.40%	88.71%	73.25%	90.42%	67.26%	89.49%	$0.17	$362.61	$6.75	$0.52	68.06	17.08	$19.60	$369,623.11
#196	1.855	0.135	5.871	3.454	90.34%	90.64%	74.36%	90.92%	79.02%	88.20%	$0.23	$249.40	$7.82	$0.53	64.88	16.07	$19.41	$435,727.08
#197	3.349	0.109	2.686	2.081	88.41%	88.20%	63.35%	90.73%	67.92%	88.12%	$0.25	$294.69	$8.92	$0.50	77.25	26.67	$19.93	$263,526.15
#198	2.857	0.088	4.617	4.236	90.08%	89.22%	60.96%	90.55%	66.19%	88.60%	$0.23	$306.59	$6.34	$0.48	69.50	13.10	$20.86	$199,627.93
#199	2.274	0.149	4.412	3.487	88.41%	90.73%	68.88%	92.14%	76.58%	89.92%	$0.24	$326.98	$7.72	$0.42	69.50	15.92	$20.55	$440,358.41
#200	4.626	0.173	3.340	3.249	91.46%	88.71%	53.23%	89.87%	76.53%	89.92%	$0.19	$330.48	$7.41	$0.43	97.65	17.08	$19.93	$652,956.15

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SPREADSHEET RESULTS TABLE

TABLE F5

#	LEAD GRADE	GOLD GRADE	SILVER GRADE	ZINC GRADE	LEAD % REC.	GOLD % REC.	L-CON. GOLD % REC.	SILVER % REC.	L-CON. SILVER % REC.	ZINC % REC.	LEAD $	GOLD $	SILVER $	ZINC $	TONS P/D	CONC. RATIO	OPER. COST	GROSS NET REVENUE
#201	3.779	0.116	4.500	6.714	88.41%	89.08%	67.07%	89.53%	85.51%	89.40%	$0.22	$321.28	$6.02	$0.50	60.67	8.27	$22.69	$305,298.38
#202	3.575	0.143	4.264	1.957	93.42%	87.66%	65.81%	88.71%	64.84%	87.66%	$0.26	$284.47	$3.77	$0.54	66.20	28.35	$19.98	$263,585.09
#203	4.905	0.138	3.987	6.714	92.14%	89.83%	78.90%	90.00%	61.50%	90.25%	$0.25	$333.01	$6.72	$0.48	81.71	8.27	$19.60	$678,939.72
#204	1.855	0.168	4.588	4.513	89.79%	90.29%	67.79%	88.12%	63.29%	92.46%	$0.23	$326.98	$6.64	$0.45	97.65	12.30	$21.26	$601,357.95
#205	2.464	0.052	5.013	3.613	93.13%	90.34%	78.26%	91.80%	67.10%	90.73%	$0.22	$381.84	$8.51	$0.52	95.44	15.36	$21.21	$371,980.66
#206	3.060	0.122	3.476	6.396	90.13%	89.27%	67.95%	90.92%	84.14%	91.46%	$0.26	$392.13	$8.43	$0.42	94.55	8.68	$21.39	$600,166.79
#207	3.600	0.162	5.287	3.213	91.96%	86.58%	69.55%	89.49%	63.95%	88.04%	$0.23	$358.95	$7.47	$0.46	80.00	17.27	$19.88	$723,684.05
#208	3.400	0.101	4.950	5.431	89.58%	92.34%	72.47%	91.02%	72.51%	89.13%	$0.18	$339.47	$6.08	$0.47	88.33	10.22	$19.60	$436,191.32
#209	3.475	0.099	3.888	5.160	86.87%	87.54%	61.83%	88.66%	64.27%	88.41%	$0.17	$333.01	$6.24	$0.47	63.40	10.76	$19.14	$207,601.51
#210	3.885	0.157	4.918	3.674	88.41%	92.14%	72.31%	88.93%	77.55%	91.59%	$0.21	$288.55	$8.75	$0.48	86.36	15.11	$21.87	$698,445.82
#211	3.575	0.101	4.706	3.735	90.83%	85.00%	67.29%	91.29%	82.01%	92.14%	$0.21	$321.28	$7.88	$0.44	85.61	14.86	$20.51	$453,258.71
#212	2.794	0.077	4.294	4.088	91.46%	91.12%	79.46%	90.38%	76.96%	90.60%	$0.30	$351.34	$7.60	$0.40	68.06	13.58	$21.67	$252,674.71
#213	3.060	0.091	4.050	3.454	87.26%	87.08%	67.11%	91.40%	75.47%	88.71%	$0.25	$326.98	$8.19	$0.42	86.74	16.07	$21.44	$315,833.93
#214	4.113	0.083	5.441	3.912	88.54%	92.34%	65.22%	89.17%	68.89%	91.46%	$0.21	$364.54	$8.47	$0.48	63.83	14.19	$18.98	$458,310.56
#215	4.024	0.109	6.064	0.500	88.41%	89.31%	66.44%	88.66%	77.58%	91.88%	$0.25	$324.21	$6.82	$0.45	94.03	111.02	$22.08	$565,657.76
#216	4.175	0.102	2.306	3.794	87.41%	91.40%	67.31%	88.88%	64.43%	88.88%	$0.20	$369.78	$6.43	$0.44	78.63	14.63	$21.17	$203,841.80
#217	3.753	0.129	2.686	6.194	93.88%	86.87%	65.77%	88.82%	73.18%	89.71%	$0.19	$348.14	$6.56	$0.47	70.39	8.96	$19.28	$347,355.69
#218	2.095	0.092	6.419	4.646	87.66%	91.02%	86.93%	90.13%	66.37%	90.78%	$0.19	$365.54	$7.16	$0.42	92.45	11.95	$21.87	$481,531.71
#219	2.274	0.142	3.069	5.024	89.45%	88.54%	71.27%	89.53%	71.18%	89.03%	$0.24	$325.15	$7.16	$0.42	68.06	11.05	$21.58	$260,306.00
#220	3.806	0.116	5.814	4.546	91.34%	86.87%	63.97%	90.08%	81.40%	90.73%	$0.20	$332.17	$5.31	$0.40	96.60	12.21	$22.49	$421,660.08
#221	3.450	0.155	5.995	2.976	87.26%	91.73%	77.70%	89.62%	68.73%	90.69%	$0.22	$323.25	$8.12	$0.51	77.25	18.65	$20.08	$760,732.11
#222	3.349	0.079	4.918	5.024	90.47%	92.59%	66.50%	91.73%	71.19%	90.47%	$0.21	$249.40	$8.35	$0.46	96.60	11.05	$20.73	$397,342.39
#223	2.095	0.088	5.362	5.260	90.60%	93.42%	74.27%	89.27%	72.46%	90.51%	$0.19	$279.06	$5.44	$0.45	97.65	10.55	$21.92	$180,127.06
#224	4.113	0.089	4.856	4.418	92.04%	90.78%	83.22%	89.79%	77.54%	90.92%	$0.25	$373.31	$6.64	$0.45	71.67	12.56	$21.48	$410,353.28
#225	3.298	0.094	4.796	4.418	90.73%	90.08%	83.36%	89.66%	64.40%	86.87%	$0.23	$367.60	$7.10	$0.46	67.55	12.56	$22.19	$310,714.03
#226	4.415	0.077	4.981	4.824	91.46%	89.58%	73.80%	89.83%	66.15%	86.87%	$0.23	$356.33	$6.39	$0.44	87.53	11.50	$21.77	$352,832.17
#227	2.506	0.142	5.287	3.824	90.21%	89.40%	68.40%	88.88%	66.92%	90.51%	$0.23	$341.05	$7.92	$0.51	90.05	14.51	$22.42	$634,206.74
#228	2.622	0.102	3.387	5.431	89.96%	88.77%	77.41%	89.31%	74.23%	89.66%	$0.23	$284.47	$6.79	$0.45	75.12	10.22	$20.51	$198,469.79
#229	2.218	0.124	3.129	3.176	90.29%	89.31%	68.15%	90.55%	75.96%	92.23%	$0.15	$361.67	$8.43	$0.49	88.75	17.48	$21.04	$374,807.61
#230	3.400	0.132	2.581	4.901	92.46%	88.71%	61.24%	91.29%	65.57%	90.42%	$0.29	$313.51	$6.68	$0.46	84.88	11.32	$23.41	$283,829.07
#231	2.546	0.155	3.186	2.505	92.34%	88.93%	71.59%	90.69%	77.43%	88.98%	$0.22	$380.23	$8.47	$0.53	77.95	22.16	$17.36	$648,462.72
#232	3.195	0.074	5.146	3.354	85.00%	89.62%	70.95%	91.18%	75.12%	87.77%	$0.26	$270.51	$8.70	$0.48	74.02	16.55	$22.49	$307,240.77
#233	3.374	0.151	5.146	2.740	90.83%	91.80%	71.41%	90.73%	65.17%	92.04%	$0.25	$407.76	$7.98	$0.49	81.71	20.26	$22.42	$783,731.88
#234	4.580	0.131	2.936	3.487	89.96%	91.18%	62.94%	89.96%	81.29%	88.93%	$0.26	$317.04	$8.43	$0.42	80.34	15.92	$25.02	$335,265.37
#235	2.506	0.065	3.854	4.296	91.66%	91.73%	82.89%	89.08%	76.48%	91.40%	$0.24	$364.54	$7.16	$0.39	63.40	12.92	$22.08	$108,767.02
#236	4.976	0.149	4.918	5.722	87.26%	88.60%	72.22%	89.96%	63.93%	89.03%	$0.15	$299.38	$8.75	$0.41	83.09	9.70	$22.30	$552,488.15
#237	3.940	0.085	5.568	4.824	88.77%	91.88%	65.99%	89.53%	71.18%	91.73%	$0.23	$356.33	$4.93	$0.45	72.87	11.50	$18.80	$358,214.90
#238	4.239	0.074	3.954	2.791	88.88%	90.47%	73.74%	90.08%	74.71%	88.47%	$0.23	$359.84	$8.60	$0.48	74.02	19.89	$23.30	$273,928.84
#239	3.400	0.082	5.482	6.714	90.51%	90.13%	72.86%	88.12%	63.60%	90.92%	$0.21	$373.31	$7.72	$0.49	97.08	8.27	$21.21	$575,391.19
#240	4.053	0.090	4.856	2.840	90.08%	91.53%	70.70%	90.47%	75.03%	91.34%	$0.26	$369.78	$7.50	$0.46	90.50	19.54	$20.91	$558,860.78
#241	2.585	0.072	3.518	4.751	90.69%	89.58%	74.13%	92.34%	69.72%	92.04%	$0.24	$308.11	$6.08	$0.52	98.36	11.68	$19.21	$253,724.31
#242	2.658	0.086	4.588	2.976	88.71%	90.55%	79.85%	87.26%	70.69%	91.29%	$0.15	$374.57	$8.19	$0.48	75.12	18.65	$15.70	$460,556.40
#243	3.806	0.096	4.588	4.117	91.80%	93.42%	76.81%	89.71%	76.59%	91.02%	$0.25	$303.25	$8.23	$0.41	87.13	13.48	$20.23	$508,977.99
#244	4.495	0.083	4.676	4.206	90.29%	91.18%	62.94%	89.58%	67.82%	90.69%	$0.16	$402.34	$6.72	$0.42	91.45	13.20	$20.23	$390,628.23
#245	3.996	0.095	5.524	0.500	90.69%	91.12%	71.36%	90.51%	65.89%	89.49%	$0.23	$270.51	$7.41	$0.40	89.61	111.02	$23.67	$333,583.57
#246	3.195	0.114	5.287	4.579	90.78%	92.34%	72.47%	90.00%	65.24%	91.12%	$0.21	$291.87	$4.93	$0.42	65.97	12.12	$22.36	$196,648.24
#247	3.374	0.142	4.736	4.982	89.45%	88.04%	73.51%	90.78%	66.09%	91.73%	$0.24	$372.09	$7.41	$0.43	65.72	11.14	$19.35	$548,100.22
#248	4.024	0.145	4.918	1.604	90.29%	91.12%	69.71%	89.71%	53.82%	88.60%	$0.27	$355.48	$8.65	$0.47	90.50	34.60	$16.88	$931,509.02
#249	2.274	0.135	5.871	4.646	88.60%	89.87%	53.92%	87.86%	62.78%	92.59%	$0.30	$315.90	$8.70	$0.47	65.46	11.95	$21.82	$479,465.56
#250	4.415	0.148	3.820	2.569	88.20%	91.73%	79.72%	90.25%	65.42%	93.88%	$0.24	$284.47	$7.66	$0.41	77.25	21.60	$18.49	$546,513.12

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE C5

	Au GRADE	% REC.	Au PRICE	Ag GRADE	% REC.	Ag PRICE	TONS P/D	OPER. COSTS	NET GROSS REVENUE	BASE OPER. COST
1	0.6088	90.32%	$407.76	22.866	59.94%	$10.01	67.550	$32.74	$3,598,302.57	$22.69
2	0.5245	88.14%	$342.62	19.354	56.42%	$7.44	77.946	$27.66	$2,586,301.00	$20.60
3	0.1425	84.22%	$294.69	4.5946	58.12%	$5.55	95.120	$21.05	$138,424.79	$19.71
4	0.1930	84.68%	$303.25	6.3292	68.93%	$5.89	78.634	$23.26	$406,655.59	$21.08
5	0.3603	90.94%	$270.51	12.514	63.72%	$4.60	73.639	$27.08	$942,961.89	$23.10
6	0.1493	88.40%	$370.92	4.8284	53.88%	$8.56	65.717	$20.90	$347,939.16	$19.60
7	0.3120	93.72%	$360.75	10.5	62.94%	$8.16	77.254	$27.55	$1,450,397.96	$24.24
8	0.2795	88.92%	$308.11	9.2972	73.23%	$6.08	87.131	$22.21	$1,153,786.78	$18.80
9	0.6088	86.34%	$347.35	22.866	63.72%	$7.63	90.967	$31.26	$3,785,561.96	$20.77
10	0.0732	89.89%	$344.19	2.4368	51.23%	$7.50	60.673	$20.04	($88,076.13)	$19.41
11	0.1209	90.94%	$317.04	3.8547	53.88%	$6.43	74.017	$22.25	$49,489.35	$21.21
12	0.8704	82.63%	$301.39	65.685	76.58%	$5.82	72.073	$54.68	$5,188,734.78	$19.93
13	0.1283	89.19%	$348.93	4.1088	52.19%	$7.69	64.212	$18.43	$226,184.12	$17.36
14	0.9721	83.73%	$416.30	110.37	71.56%	$10.35	74.017	$91.52	$12,964,642.93	$20.03
15	0.1811	85.81%	$358.95	5.9204	75.14%	$8.09	87.526	$23.22	$713,948.15	$20.99
16	0.1559	93.56%	$339.47	5.0559	68.12%	$7.32	68.554	$21.38	$394,420.40	$19.66
17	0.7869	90.94%	$333.01	32.73	54.29%	$7.06	74.39	$37.20	$3,875,013.18	$21.92
18	0.9226	86.99%	$326.98	86.3025	59.06%	$6.82	82.053	$67.63	$7,015,513.23	$24.54
19	0.2323	84.53%	$284.47	7.6767	59.94%	$5.15	83.798	$23.69	$485,081.19	$21.39
20	0.0632	83.39%	$370.92	2.1898	71.56%	$8.56	78.634	$21.15	($132,365.97)	$20.37
21	0.6238	82.63%	$380.23	23.49	69.77%	$8.92	71.251	$31.81	$3,573,483.53	$20.42
22	0.6238	86.73%	$361.67	23.49	64.23%	$8.19	72.473	$29.45	$3,396,604.93	$18.71
23	0.0117	87.88%	$335.47	0.83685	64.75%	$7.16	85.982	$22.76	($590,827.91)	$22.49
24	0.0777	93.72%	$279.06	2.547	57.46%	$4.93	60	$21.24	($161,405.96)	$20.51
25	0.2588	91.10%	$407.76	8.5867	68.12%	$10.01	99.326	$26.46	$1,819,696.85	$23.53
26	0.4721	81.71%	$392.13	17.17	69.49%	$9.39	92.449	$27.59	$3,463,929.84	$21.62
27	0.4216	81.71%	$375.88	15.066	67.85%	$8.75	94.823	$26.41	$2,835,571.15	$21.30
28	0.5656	93.56%	$387.44	21.068	61.88%	$9.21	72.073	$27.72	$3,498,520.25	$19.60
29	0.3725	89.74%	$387.44	13.02	62.15%	$9.21	66.203	$29.07	$1,738,599.00	$25.02
30	0.2377	84.97%	$372.09	7.8615	78.24%	$8.60	65.966	$23.16	$970,727.10	$20.08
31	0.2430	91.10%	$284.47	8.0449	76.34%	$5.15	75.845	$23.67	$645,283.84	$20.60
32	0.2430	84.22%	$345.77	8.0449	61.61%	$7.57	75.845	$23.87	$826,327.48	$21.39
33	0.0632	92.57%	$366.56	2.1898	62.15%	$8.39	94.282	$23.30	($233,294.26)	$22.62
34	0.7394	81.58%	$353.81	28.308	66.28%	$7.88	85.240	$36.80	$4,414,518.93	$22.62
35	0.8854	90.32%	$383.57	71.61	56.42%	$9.06	67.022	$53.37	$6,826,868.61	$21.97
36	0.0895	90.78%	$389.65	2.8394	53.88%	$9.30	84.513	$22.95	($331.59)	$22.19
37	0.2214	94.38%	$394.95	7.3029	56.77%	$9.51	96.169	$24.15	$1,274,811.24	$22.08
38	0.2159	90.47%	$392.13	7.1125	66.28%	$9.39	72.073	$21.57	$1,008,404.73	$19.21
39	0.7774	86.47%	$349.73	29.89	60.23%	$7.72	66.474	$39.64	$3,527,653.80	$24.24
40	0.3361	85.40%	$352.98	11.506	61.88%	$7.85	94.282	$25.09	$1,816,538.71	$21.53
41	0.8040	81.94%	$370.92	39.48	69.21%	$8.56	95.440	$41.19	$6,799,760.77	$21.13
42	0.0895	81.94%	$270.51	2.8394	50.51%	$4.60	73.639	$21.62	($222,886.30)	$20.91
43	0.5656	85.67%	$313.51	21.068	59.06%	$6.29	62.346	$27.70	$1,961,961.73	$19.88
44	0.4466	91.79%	$341.83	16.11	60.23%	$7.41	70.394	$22.92	$2,105,975.42	$18.07
45	0.1355	91.61%	$327.87	4.3552	69.49%	$6.86	79.317	$22.55	$233,519.56	$21.04
46	0.1871	81.71%	$369.78	6.1262	60.23%	$8.51	86.360	$17.54	$821,605.02	$15.70
47	0.3969	82.33%	$363.56	14.038	59.36%	$8.27	74.759	$23.30	$1,898,525.35	$19.14
48	0.5517	83.56%	$323.25	20.488	57.12%	$6.68	80.34	$29.22	$2,440,130.57	$21.77
49	0.1624	90.17%	$358.95	5.2785	77.13%	$8.09	85.240	$23.71	$584,089.13	$21.67
50	0.5112	92.17%	$341.05	18.798	76.12%	$7.38	93.525	$29.70	$3,482,354.65	$20.95

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE C5

	Au GRADE	% REC.	Au PRICE	Ag GRADE	% REC.	Ag PRICE	TONS P/D	OPER. COSTS	NET GROSS REVENUE	BASE OPER. COST
51	0.3361	83.90%	$322.27	11.506	67.85%	$6.64	81.024	$25.53	$1,336,811.51	$21.62
52	0.8040	91.61%	$356.33	39.48	67.06%	$7.98	62.346	$42.00	$4,374,521.14	$22.36
53	0.5941	80.00%	$323.25	22.256	62.15%	$6.68	68.060	$29.46	$2,291,961.71	$19.35
54	0.4721	83.73%	$344.98	17.17	54.86%	$7.53	69.498	$27.40	$1,908,134.43	$22.69
55	0.5245	83.90%	$357.19	19.354	56.05%	$8.02	65.176	$29.58	$2,170,165.86	$22.55
56	0.2214	86.73%	$416.30	7.3029	66.54%	$10.35	68.554	$25.27	$983,225.26	$22.84
57	0.0971	81.44%	$324.21	3.0385	66.80%	$6.72	61.643	$21.29	($36,712.58)	$20.28
58	0.3725	88.79%	$339.47	13.02	76.34%	$7.32	71.665	$24.25	$1,760,883.32	$19.28
59	0.2692	91.61%	$297.16	8.943	53.66%	$5.65	94.823	$23.00	$928,531.52	$20.60
60	0.5380	90.94%	$329.62	19.918	69.49%	$6.93	78.634	$31.93	$2,736,330.65	$23.41
61	0.9831	94.38%	$364.54	137.63	68.66%	$8.31	89.605	$108.97	$14,599,624.97	$21.72
62	0.0818	81.83%	$402.34	2.65	75.35%	$9.80	99.053	$24.83	($56,209.73)	$23.83
63	0.0895	93.56%	$372.09	2.8394	74.34%	$8.60	71.251	$18.94	$146,648.09	$17.89
64	0.6088	91.10%	$327.87	22.866	74.34%	$6.86	99.053	$34.12	$4,104,393.97	$22.42
65	0.0818	85.11%	$347.35	2.65	61.88%	$7.63	69.498	$21.14	($69,864.83)	$20.32
66	0.3120	87.12%	$368.68	10.5	68.66%	$8.47	61.643	$26.37	$1,204,172.08	$22.76
67	0.8570	81.71%	$369.78	60.3825	60.23%	$8.51	78.975	$46.78	$6,751,852.24	$20.60
68	0.2846	93.29%	$337.88	9.4729	69.77%	$7.25	89.605	$22.36	$1,499,040.87	$19.06
69	0.5517	92.86%	$324.21	20.488	76.12%	$6.72	62.917	$27.89	$2,435,342.30	$18.49
70	0.2159	89.89%	$279.06	7.1125	52.87%	$4.93	81.024	$22.34	$408,595.54	$20.46
71	0.8704	89.74%	$364.54	65.685	77.45%	$8.31	64.879	$54.32	$6,991,423.59	$19.28
72	0.3603	80.62%	$392.13	12.514	59.06%	$9.39	75.845	$23.17	$1,870,180.61	$19.48
73	0.1750	87.63%	$339.47	5.7104	54.65%	$7.32	77.600	$20.45	$474,661.58	$18.89
74	0.2588	91.79%	$270.51	8.5867	69.21%	$4.60	69.498	$23.75	$551,649.77	$20.77
75	0.8854	81.83%	$351.34	71.61	54.09%	$7.79	78.634	$52.81	$6,376,702.44	$22.24
76	0.7040	86.60%	$326.07	26.832	52.19%	$6.79	72.473	$32.88	$2,975,371.86	$21.08
77	0.1283	94.12%	$354.64	4.1088	62.15%	$7.92	92.449	$23.14	$278,811.13	$21.87
78	0.2214	90.94%	$383.57	7.3029	65.77%	$9.06	73.255	$23.79	$964,367.22	$21.39
79	0.0632	87.76%	$387.44	2.1898	75.71%	$9.21	67.022	$23.93	($133,901.88)	$23.10
80	0.2483	94.38%	$310.93	8.2269	52.55%	$6.19	86.360	$22.62	$845,657.44	$20.46
81	0.2640	93.91%	$355.48	8.7652	57.46%	$7.95	88.748	$24.82	$1,254,501.34	$22.30
82	0.8230	83.56%	$352.98	46.9875	66.80%	$7.85	95.120	$40.58	$6,985,431.19	$18.49
83	0.0632	80.25%	$337.88	2.1898	54.86%	$7.25	87.926	$25.62	($401,920.38)	$25.02
84	0.9721	84.83%	$394.95	110.37	68.39%	$9.51	94.545	$87.81	$14,763,328.31	$18.07
85	0.3603	94.12%	$372.09	12.514	70.64%	$8.60	84.875	$22.65	$2,397,945.28	$18.23
86	0.1355	90.03%	$343.41	4.3552	78.77%	$7.47	94.545	$25.01	$297,847.61	$23.30
87	0.5517	85.94%	$346.55	20.488	50.51%	$7.60	65.717	$26.76	$2,240,624.98	$19.98
88	0.2692	80.35%	$297.16	8.943	58.44%	$5.65	73.255	$25.53	$563,484.78	$22.92
89	0.1053	88.14%	$333.01	3.3206	52.55%	$7.06	94.033	$20.95	$22,598.44	$20.08
90	0.7580	85.67%	$339.47	29.084	51.76%	$7.32	78.634	$33.19	$3,739,939.19	$20.86
91	0.3361	87.88%	$392.13	11.506	64.49%	$9.39	84.513	$20.59	$2,196,176.28	$16.88
92	0.4721	81.58%	$340.26	17.17	73.23%	$7.35	63.830	$25.57	$1,979,656.68	$19.28
93	0.4092	84.53%	$365.54	14.55	60.51%	$8.35	84.154	$22.47	$2,347,419.00	$18.07
94	0.3482	85.11%	$357.19	12.008	59.36%	$8.02	70.826	$22.91	$1,493,778.31	$19.35
95	0.0684	85.67%	$329.62	2.3184	62.94%	$6.93	80.34	$24.26	($276,197.09)	$23.53
96	0.8230	81.83%	$249.40	46.9875	79.49%	$3.77	62.346	$48.61	$2,372,352.54	$23.53
97	0.7953	81.83%	$317.04	36.0225	72.88%	$6.43	60.946	$40.52	$3,226,844.51	$20.99
98	0.9721	89.74%	$398.26	110.37	76.84%	$9.64	94.545	$96.37	$16,540,690.85	$21.97
99	0.1283	83.90%	$312.25	4.1088	52.87%	$6.24	94.033	$21.02	$87,089.94	$19.93
100	0.1624	91.44%	$318.14	5.2785	62.15%	$6.48	80.34	$21.96	$355,208.22	$20.32

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE C5

	Au GRADE	% REC.	Au PRICE	Ag GRADE	% REC.	Ag PRICE	TONS P/D	OPER. COSTS	NET GROSS REVENUE	BASE OPER. COST
101	0.0117	86.34%	$310.93	0.83685	55.66%	$6.19	70.826	$23.64	($525,869.80)	$23.41
102	0.0777	90.47%	$347.35	2.547	66.02%	$7.63	68.554	$20.92	($56,956.89)	$20.08
103	0.6546	81.28%	$334.66	24.776	62.42%	$7.13	82.399	$34.12	$3,263,406.26	$23.19
104	0.4721	87.12%	$362.61	17.17	63.20%	$8.23	77.254	$24.64	$2,630,448.23	$19.21
105	0.6238	88.79%	$385.42	23.49	72.54%	$9.13	87.526	$30.43	$4,855,096.05	$18.71
106	0.2949	84.68%	$346.55	9.825	58.44%	$7.60	63.404	$24.54	$925,244.21	$21.67
107	0.6390	92.67%	$337.08	24.126	62.42%	$7.22	69.032	$33.09	$3,009,699.73	$22.36
108	0.6088	89.06%	$318.14	22.866	77.13%	$6.48	67.022	$33.94	$2,639,932.01	$21.92
109	0.2377	83.02%	$325.15	7.8615	56.42%	$6.75	70.826	$22.63	$622,677.15	$20.42
110	0.2269	80.35%	$378.70	7.4905	51.23%	$8.86	83.444	$24.28	$818,528.03	$22.36
111	0.3847	93.17%	$407.76	13.528	50.71%	$10.01	64.879	$26.35	$1,893,181.00	$22.92
112	0.6390	87.63%	$374.57	24.126	76.12%	$8.70	99.053	$29.26	$5,545,383.45	$16.88
113	0.0247	88.14%	$324.21	1.2384	55.66%	$6.72	81.024	$22.77	($493,831.38)	$22.42
114	0.3000	91.61%	$375.88	10	62.15%	$8.75	66.474	$24.50	$1,300,749.84	$21.39
115	0.5380	88.14%	$306.59	19.918	51.76%	$6.02	75.845	$25.96	$2,123,366.11	$19.21
116	0.9721	92.67%	$338.68	110.37	67.06%	$7.29	90.047	$89.78	$10,775,891.08	$20.77
117	0.1624	82.24%	$377.26	5.2785	77.45%	$8.81	73.639	$23.76	$515,134.82	$21.72
118	0.9721	83.02%	$325.15	110.37	62.15%	$6.75	87.131	$86.48	$8,667,802.33	$20.18
119	0.4980	86.47%	$327.87	18.25	70.64%	$6.86	68.554	$27.39	$2,157,486.51	$19.35
120	0.0777	88.40%	$288.55	2.547	76.58%	$5.31	84.875	$21.57	($198,313.98)	$20.60
121	0.8040	84.97%	$375.88	39.48	66.54%	$8.75	99.326	$39.86	$7,277,241.67	$20.32
122	0.4980	80.35%	$303.25	18.25	79.29%	$5.89	94.033	$31.08	$2,444,271.89	$22.24
123	0.2323	85.11%	$345.77	7.6767	55.27%	$7.57	94.033	$24.04	$886,632.85	$21.92
124	0.2744	88.66%	$309.56	9.1201	56.77%	$6.14	98.356	$23.94	$1,048,161.58	$21.35
125	0.1355	90.78%	$367.60	4.3552	52.87%	$8.43	98.356	$22.37	$352,136.26	$21.21
126	0.3120	93.29%	$352.98	10.5	67.58%	$7.85	78.634	$23.78	$1,569,630.75	$20.23
127	0.4721	88.92%	$337.88	17.17	73.23%	$7.25	66.203	$29.21	$2,081,074.50	$22.92
128	0.8133	90.63%	$338.68	43.125	58.12%	$7.29	97.082	$38.86	$6,194,883.41	$19.93
129	0.3361	85.53%	$375.88	11.506	61.88%	$8.75	74.39	$25.14	$1,608,517.72	$21.58
130	0.6238	93.56%	$332.17	23.49	53.88%	$7.03	87.526	$32.94	$3,418,144.74	$23.41
131	0.0858	83.56%	$352.98	2.7472	55.27%	$7.85	85.61	$21.62	($92,885.94)	$20.86
132	0.5380	88.92%	$309.56	19.918	66.02%	$6.14	91.445	$28.50	$2,828,248.00	$20.32
133	0.8448	91.98%	$407.76	55.56	79.49%	$10.01	76.201	$51.08	$9,008,946.68	$20.99
134	0.7580	85.40%	$326.98	29.084	53.16%	$6.82	93.796	$33.70	$4,216,970.48	$21.17
135	0.3847	83.02%	$392.13	13.528	53.42%	$9.39	67.550	$25.80	$1,720,758.28	$22.19
136	0.0931	89.60%	$381.84	2.9272	51.23%	$8.99	77.946	$19.46	$89,829.33	$18.71
137	0.2214	89.06%	$380.23	7.3029	67.06%	$8.92	75.124	$24.17	$951,168.56	$21.72
138	0.1133	85.53%	$385.42	3.5922	60.51%	$9.13	77.946	$24.18	$123,703.01	$23.10
139	0.1930	90.78%	$377.26	6.3292	55.27%	$8.81	67.022	$21.88	$641,255.10	$20.13
140	0.9025	82.63%	$312.25	78.3675	53.16%	$6.24	94.282	$57.99	$6,397,889.29	$22.76
141	0.1283	90.78%	$318.14	4.1088	60.79%	$6.48	67.022	$22.87	$90,337.41	$21.62
142	0.7040	94.12%	$347.35	26.832	72.88%	$7.63	67.022	$35.75	$3,713,438.39	$21.17
143	0.0684	94.38%	$381.84	2.3184	63.20%	$8.99	72.073	$21.73	($73,083.82)	$20.99
144	0.2744	86.34%	$326.98	9.1201	71.56%	$6.82	95.787	$24.08	$1,272,986.64	$20.82
145	0.8335	91.98%	$369.78	51.12	55.27%	$8.51	68.060	$42.39	$5,380,629.62	$21.87
146	0.4341	92.67%	$345.77	15.586	70.06%	$7.57	71.251	$24.74	$2,208,779.48	$19.28
147	0.2046	81.28%	$299.38	6.7261	67.85%	$5.74	97.653	$27.30	$375,352.14	$25.02
148	0.5656	92.17%	$303.25	21.068	60.23%	$5.89	89.173	$29.29	$2,796,654.38	$21.35
149	0.0684	92.86%	$383.57	2.3184	68.39%	$9.06	67.022	$23.71	($105,071.78)	$22.92
150	0.6238	85.67%	$364.54	23.49	54.65%	$8.31	75.845	$29.94	$3,297,771.74	$20.32

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE C5

	Au GRADE	% REC.	Au PRICE	Ag GRADE	% REC.	Ag PRICE	TONS P/D	OPER. COSTS	NET GROSS REVENUE	BASE OPER. COST
# 151	0.2588	81.94%	$347.35	8.5867	59.06%	$7.63	62.917	$24.45	$718,426.24	$21.92
# 152	0.2269	83.73%	$389.65	7.4905	60.23%	$9.30	90.967	$24.17	$1,107,056.52	$21.92
# 153	0.9025	90.47%	$346.55	78.3675	72.54%	$7.60	65.717	$62.85	$6,968,526.21	$20.03
# 154	0.2898	87.50%	$370.92	9.6486	75.71%	$8.56	67.022	$24.34	$1,301,469.01	$20.69
# 155	0.5797	86.47%	$314.72	21.656	74.73%	$6.34	83.094	$28.75	$3,034,765.16	$19.06
# 156	0.1688	83.21%	$336.28	5.4969	69.77%	$7.19	71.665	$20.41	$438,419.47	$18.49
# 157	0.8448	91.27%	$387.44	55.56	71.25%	$9.21	74.759	$51.09	$7,550,415.88	$23.30
# 158	0.0732	81.09%	$367.60	2.4368	60.23%	$8.43	75.124	$25.75	($234,252.73)	$25.02
# 159	0.2795	87.12%	$319.21	9.2972	57.46%	$6.52	79.317	$25.59	$876,177.88	$22.92
# 160	0.0117	85.67%	$361.67	0.83685	57.80%	$8.19	75.124	$20.70	($457,149.19)	$20.46
# 161	0.4593	87.63%	$381.84	16.638	55.27%	$8.99	78.634	$24.92	$2,639,684.46	$20.32
# 162	0.3725	90.17%	$341.05	13.02	55.27%	$7.38	72.868	$22.95	$1,597,062.12	$19.35
# 163	0.1688	85.94%	$297.16	5.4969	67.58%	$5.65	77.600	$22.54	$265,398.27	$20.69
# 164	0.1493	92.86%	$331.33	4.8284	69.21%	$7.00	91.445	$21.80	$423,101.67	$20.13
# 165	0.2046	88.01%	$337.88	6.7261	65.00%	$7.25	81.024	$22.56	$691,976.52	$20.37
# 166	0.8335	84.68%	$325.15	51.12	52.87%	$6.75	72.073	$35.61	$4,420,862.62	$15.70
# 167	0.7394	93.42%	$297.16	28.308	67.85%	$5.65	90.047	$35.66	$3,929,540.38	$21.26
# 168	0.5380	93.06%	$349.73	19.918	65.77%	$7.72	66.474	$31.07	$2,562,074.73	$22.92
# 169	0.2430	81.44%	$326.98	8.0449	76.84%	$6.82	70.826	$22.75	$782,824.02	$19.66
# 170	0.3603	80.62%	$355.48	12.514	68.66%	$7.95	68.060	$23.64	$1,522,413.36	$19.35
# 171	0.9226	82.63%	$333.83	86.3025	70.06%	$7.10	78.975	$69.32	$7,745,711.66	$21.48
# 172	0.1355	82.14%	$329.62	4.3552	75.35%	$6.93	83.444	$22.37	$220,547.87	$20.73
# 173	0.2323	82.33%	$356.33	7.6767	59.65%	$7.98	69.032	$24.78	$685,238.18	$22.49
# 174	0.2377	93.29%	$416.30	7.8615	77.13%	$10.35	94.823	$21.26	$1,920,597.49	$18.23
# 175	0.8854	89.19%	$385.42	71.61	51.76%	$9.13	65.966	$50.46	$6,433,784.45	$20.73
# 176	0.2483	87.76%	$363.56	8.2269	75.35%	$8.27	71.251	$26.40	$996,341.88	$23.30
# 177	0.0971	84.83%	$364.54	3.0385	75.14%	$8.31	66.474	$23.06	$34,431.12	$21.92
# 178	0.4466	80.35%	$323.25	16.11	52.87%	$6.68	64.879	$23.24	$1,476,337.83	$18.98
# 179	0.0971	80.00%	$328.75	3.0385	63.98%	$6.89	65.717	$22.01	($60,017.74)	$21.04
# 180	0.1559	91.98%	$317.04	5.0559	50.71%	$6.43	65.717	$21.05	$234,856.17	$19.77
# 181	0.4216	91.27%	$363.56	15.066	66.80%	$8.27	77.600	$27.52	$2,347,462.20	$22.49
# 182	0.3361	81.58%	$294.69	11.506	58.44%	$5.55	92.977	$24.40	$1,160,424.87	$21.04
# 183	0.0684	86.34%	$291.87	2.3184	79.29%	$5.44	85.61	$21.10	($230,581.73)	$20.18
# 184	0.2536	86.21%	$279.06	8.4075	67.06%	$4.93	82.053	$22.48	$648,027.88	$19.66
# 185	0.2159	86.34%	$343.41	7.1125	68.66%	$7.47	72.473	$21.58	$747,933.27	$19.14
# 186	0.9474	93.91%	$324.21	96.06	53.88%	$6.72	75.845	$66.03	$6,879,987.69	$19.35
# 187	0.4092	85.40%	$341.83	14.55	61.34%	$7.41	63.830	$23.81	$1,585,240.62	$19.35
# 188	0.2795	81.71%	$350.54	9.2972	54.86%	$7.75	73.639	$24.63	$932,544.05	$22.08
# 189	0.0438	80.25%	$346.55	1.7102	62.68%	$7.60	81.024	$18.19	($234,436.58)	$17.66
# 190	0.5112	83.02%	$330.48	18.798	58.44%	$6.96	96.169	$31.64	$2,656,522.14	$24.54
# 191	0.2846	94.65%	$299.38	9.4729	59.65%	$5.74	62.346	$22.42	$765,559.61	$19.60
# 192	0.7394	94.12%	$314.72	28.308	75.35%	$6.34	65.717	$32.82	$3,414,345.72	$17.36
# 193	0.8335	84.37%	$392.13	51.12	63.46%	$9.39	97.082	$43.66	$8,618,641.64	$21.04
# 194	0.2536	90.47%	$284.47	8.4075	60.23%	$5.15	86.744	$23.48	$692,836.99	$20.95
# 195	0.2588	84.37%	$357.19	8.5867	66.80%	$8.02	99.326	$25.71	$1,297,353.05	$22.84
# 196	0.3969	84.97%	$318.14	14.038	66.28%	$6.48	96.169	$26.47	$1,984,014.17	$21.82
# 197	0.2377	84.83%	$336.28	7.8615	54.29%	$7.19	60	$21.85	$591,778.41	$19.71
# 198	0.9474	88.40%	$365.54	96.06	53.66%	$8.35	81.709	$69.06	$8,797,809.62	$22.49
# 199	0.1624	85.53%	$359.84	5.2785	75.53%	$8.12	78.290	$22.63	$522,686.56	$20.64
# 200	0.0858	89.74%	$317.04	2.7472	68.12%	$6.43	80.34	$22.15	($113,689.32)	$21.21

SIMULATED FLOW PROFIT/LOSS ELECTRONIC SREADSHEET RESULTS TABLE

TABLE C5

	Au GRADE	% REC.	Au PRICE	Ag GRADE	% REC.	Ag PRICE	TONS P/D	OPER. COSTS	NET GROSS REVENUE	BASE OPER. COST
201	0.2588	90.32%	$333.01	8.5867	61.34%	$7.06	79.66	$23.36	$979,612.25	$20.73
202	0.8335	89.06%	$348.14	51.12	57.12%	$7.66	76.555	$43.76	$5,436,978.23	$22.76
203	0.2269	91.27%	$357.19	7.4905	65.26%	$8.02	80	$21.72	$1,003,584.03	$19.28
204	0.3241	91.98%	$312.25	11.004	75.35%	$6.24	94.033	$23.97	$1,640,247.01	$19.82
205	0.8040	83.21%	$299.38	39.48	73.58%	$5.74	71.665	$41.61	$3,659,793.57	$20.69
206	0.0632	86.47%	$345.77	2.1898	77.13%	$7.57	94.823	$23.21	($251,608.62)	$22.36
207	0.4849	81.44%	$344.98	17.706	51.23%	$7.53	74.39	$25.88	$2,046,316.02	$21.35
208	0.6707	93.17%	$352.98	25.444	71.56%	$7.85	60.673	$34.43	$3,217,720.41	$22.13
209	0.1209	91.98%	$378.70	3.8547	53.16%	$8.86	65.455	$21.06	$214,029.78	$20.03
210	0.0658	82.14%	$383.57	2.7472	61.07%	$9.06	93.796	$19.73	$46,435.50	$18.89
211	0.4980	81.09%	$306.59	18.25	62.94%	$6.02	93.796	$25.57	$2,394,527.21	$18.23
212	0.8448	90.03%	$320.26	55.56	53.88%	$6.56	77.600	$43.96	$4,917,024.34	$20.99
213	0.3603	89.47%	$336.28	12.514	73.95%	$7.19	81.024	$27.63	$1,745,683.34	$23.01
214	0.4466	87.37%	$349.73	16.11	77.45%	$7.72	70.826	$27.54	$2,266,029.06	$21.30
215	0.0117	88.27%	$378.70	0.83685	59.94%	$8.86	70.826	$22.44	($465,376.66)	$22.19
216	0.6390	90.63%	$374.57	24.126	50.00%	$8.70	62.346	$31.00	$2,916,544.01	$21.77
217	0.1425	83.90%	$291.87	4.5946	61.61%	$5.44	87.131	$20.95	$131,402.65	$19.54
218	0.0632	91.61%	$334.66	2.1898	61.07%	$7.13	86.360	$23.97	($295,760.26)	$23.30
219	0.1493	92.57%	$323.25	4.8284	76.84%	$6.68	91.445	$25.39	$307,340.03	$23.53
220	0.5517	90.03%	$321.28	20.488	75.91%	$6.60	87.926	$33.20	$3,099,032.21	$23.83
221	0.1355	85.67%	$318.14	4.3552	64.49%	$6.48	80.682	$20.38	$208,435.56	$18.98
222	0.7214	80.35%	$365.54	27.558	64.75%	$8.35	77.600	$34.09	$4,087,317.71	$20.37
223	0.7580	86.86%	$352.98	29.084	74.73%	$7.85	83.444	$36.35	$4,961,481.68	$20.69
224	0.0818	90.47%	$337.08	2.65	56.77%	$7.22	77.600	$20.35	($68,173.53)	$19.60
225	0.2159	88.27%	$380.23	7.1125	70.06%	$8.92	83.444	$22.09	$1,092,491.55	$19.60
226	0.3725	94.12%	$279.06	13.02	50.51%	$4.93	65.966	$22.09	$1,022,318.48	$18.80
227	0.5380	90.47%	$369.78	19.918	66.54%	$8.51	77.254	$29.90	$3,240,355.28	$21.67
228	0.5656	93.42%	$331.33	21.068	58.12%	$7.00	94.033	$26.93	$3,501,805.78	$19.21
229	0.2898	81.58%	$301.39	9.6486	66.54%	$5.82	76.906	$22.35	$884,436.44	$19.14
230	0.9226	86.86%	$321.28	86.3025	52.87%	$6.60	99.053	$60.78	$7,792,504.96	$20.37
231	0.7394	92.67%	$279.06	28.308	77.81%	$4.93	82.053	$37.53	$3,320,887.60	$21.72
232	0.3847	91.27%	$336.28	13.528	58.12%	$7.19	87.131	$24.97	$1,955,235.06	$21.04
233	0.1624	87.76%	$345.77	5.2785	71.56%	$7.57	77.946	$21.60	$486,167.30	$19.71
234	0.7214	89.33%	$358.06	27.558	60.79%	$8.05	76.906	$33.82	$4,124,910.93	$20.64
235	0.2377	86.60%	$360.75	7.8615	62.68%	$8.16	94.545	$24.43	$1,115,999.00	$21.97
236	0.0971	90.94%	$329.62	3.0385	76.58%	$6.93	75.845	$21.14	$40,223.87	$19.98
237	0.8335	93.29%	$319.21	51.12	74.73%	$6.52	80.34	$45.87	$5,863,929.20	$20.37
238	0.0818	84.97%	$364.54	2.65	63.72%	$8.31	80.682	$21.49	($52,285.27)	$20.64
239	0.0145	90.03%	$339.47	0.97315	75.35%	$7.32	90.501	$18.86	($454,986.46)	$18.49
240	0.0117	93.29%	$357.19	0.83685	54.86%	$8.02	77.946	$21.76	($504,106.00)	$21.53
241	0.4216	86.34%	$313.51	15.066	51.23%	$6.29	99.053	$23.27	$2,070,856.74	$19.41
242	0.0352	84.83%	$346.55	1.4986	68.12%	$7.60	95.120	$24.75	($537,678.42)	$24.24
243	0.3241	82.63%	$249.40	11.004	67.58%	$3.77	72.868	$23.00	$640,051.18	$19.28
244	0.1871	88.53%	$389.65	6.1262	57.80%	$9.30	78.975	$23.49	$717,592.83	$21.72
245	0.9474	89.06%	$315.90	96.06	69.21%	$6.39	68.060	$75.91	$6,607,754.42	$21.87
246	0.3603	94.12%	$398.26	12.514	70.64%	$9.64	64.212	$25.59	$1,954,254.23	$21.17
247	0.7040	80.88%	$326.07	26.832	50.51%	$6.79	72.073	$35.59	$2,678,619.67	$24.01
248	0.0858	81.94%	$312.25	2.7472	54.47%	$6.24	81.709	$18.82	($93,434.54)	$18.07
249	0.0117	85.40%	$363.56	0.83685	62.94%	$8.27	94.033	$17.92	($471,309.27)	$17.66
250	0.9831	90.03%	$330.48	137.63	64.75%	$6.96	81.709	$106.98	$10,280,505.77	$22.42

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - GRAVITY CIRCUIT
PROFORMA - G1

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.017	0.018	0.0185	0.019	0.0193	0.0197	0.0199	0.0203	0.0207	0.021	0.0216	0.0227
AVG. Ag GRADE	2.522	2.527	2.483	2.529	2.458	2.503	2.533	2.515	2.497	2.508	2.443	2.499
AVG. Pb GRADE	0.846	0.808	0.898	0.795	0.845	0.838	0.838	0.857	0.878	0.816	0.836	0.856
AVG. Au PRICE	$321.19	$322.19	$320.40	$317.20	$320.84	$320.29	$317.19	$320.14	$316.85	$320.20	$320.76	$320.86
AVG. Ag PRICE	$6.20	$6.21	$6.17	$6.23	$6.21	$6.21	$6.22	$6.19	$6.18	$6.16	$6.23	$6.24
AVG. Pb PRICE	$0.19	$0.19	$0.19	$0.18	$0.18	$0.19	$0.18	$0.19	$0.18	$0.19	$0.18	$0.19
PRODUCTION	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
CAP. INV.												
GROSS INCOME	$224,490.66	$229,451.30	$227,712.33	$230,682.85	$227,962.88	$233,469.81	$233,764.80	$236,048.18	$234,098.49	$237,076.89	$236,009.88	$245,052.27
-OPER. COSTS	$164,400.00	$159,450.00	$155,100.00	$157,950.00	$158,100.00	$160,950.00	$159,600.00	$155,850.00	$157,800.00	$159,750.00	$156,150.00	$167,550.00
GROSS PROFIT	$60,090.66	$70,001.30	$72,612.33	$72,732.85	$69,862.88	$72,519.81	$74,164.80	$80,198.18	$76,298.49	$77,326.89	$79,859.88	$77,502.27
-EXP'SED COSTS	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75
-DEPRECIATION	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	$2,918.77	$12,829.42	$15,440.44	$15,560.97	$12,691.00	$15,347.93	$16,992.91	$23,026.30	$19,126.60	$20,155.00	$22,688.00	$20,330.38
-TAX	$437.82	$1,924.41	$2,316.07	$2,334.15	$1,903.65	$2,302.19	$2,548.94	$3,453.94	$2,868.99	$3,023.25	$3,403.20	$3,049.56
+INV. TAX CREDIT	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33
TAX LOSS CARRY	($395.52)	$1,091.08	$1,482.73	$1,500.81	$1,070.32	$1,468.86	$1,715.60	$2,620.61	$2,035.66	$2,189.92	$2,569.87	$2,216.22
NET PROFIT/LOSS	$2,918.77	$12,829.42	$15,440.44	$15,560.97	$12,691.00	$15,347.93	$16,992.91	$23,026.30	$19,126.60	$20,155.00	$22,688.00	$20,330.38
+DEPRECIATION	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	$21,715.90	$31,626.55	$34,237.57	$34,358.10	$31,488.13	$34,145.06	$35,790.04	$41,823.43	$37,923.73	$38,952.13	$41,485.13	$39,127.51
YEAR TO DATE	$21,715.90	$53,342.45	$87,580.02	$121,938.12	$153,426.24	$187,571.30	$223,361.34	$265,184.77	$303,108.50	$342,060.63	$383,545.76	$422,673.27

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - GRAVITY CIRCUIT
PROFORMA - G1A

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.020	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.019	0.019
AVG. Ag GRADE	2.468	2.516	2.545	2.452	2.450	2.512	2.535	2.463	2.210	2.535	2.559	2.469
AVG. Pb GRADE	0.834	0.831	0.845	0.865	0.873	0.850	0.847	0.860	0.821	0.826	0.822	0.844
AVG. Au PRICE	$300.90	$306.15	$308.54	$310.86	$312.75	$314.43	$316.36	$317.79	$319.13	$321.07	$323.10	$327.05
AVG. Ag PRICE	$5.90	$5.88	$5.92	$5.91	$5.91	$5.93	$5.90	$5.92	$5.87	$5.92	$5.92	$5.90
AVG. Pb PRICE	$0.10	$0.10	$0.09	$0.08	$0.11	$0.10	$0.10	$0.10	$0.10	$0.10	$0.09	$0.10
PRODUCTION	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
CAP. INV.												
GROSS INCOME	$227,631.81	$230,556.04	$232,536.17	$227,820.62	$232,469.60	$235,189.28	$235,362.04	$232,816.42	$235,512.48	$237,340.91	$236,946.90	$231,338.07
-OPER. COSTS	$162,600.00	$154,650.00	$158,850.00	$159,300.00	$156,900.00	$158,100.00	$156,750.00	$160,650.00	$160,050.00	$165,900.00	$157,500.00	$161,100.00
GROSS PROFIT	$65,031.81	$75,906.04	$73,686.17	$68,520.62	$75,569.60	$77,089.28	$78,612.04	$72,166.42	$75,462.48	$71,440.91	$79,446.90	$70,238.07
-EXP'SED COSTS	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75	$38,374.75
-DEPRECIATION	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	$7,859.93	$18,734.16	$16,514.29	$11,348.73	$18,397.71	$19,917.40	$21,440.15	$14,994.53	$18,290.59	$14,269.02	$22,275.01	$13,066.19
-TAX	$1,178.99	$2,810.12	$2,477.14	$1,702.31	$2,759.66	$2,987.61	$3,216.02	$2,249.18	$2,743.59	$2,140.35	$3,341.25	$1,959.93
+INV. TAX CREDIT	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33	$833.33
TAX LOSS CARRY	$345.66	$1,976.79	$1,643.81	$868.98	$1,926.32	$2,154.28	$2,382.69	$1,415.85	$1,910.26	$1,307.02	$2,507.92	$1,126.59
NET PROFIT/LOSS	$7,859.93	$18,734.16	$16,514.29	$11,348.73	$18,397.71	$19,917.40	$21,440.15	$14,994.53	$18,290.59	$14,269.02	$22,275.01	$13,066.19
+DEPRECIATION	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13	$18,797.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	$26,657.06	$37,531.29	$35,311.42	$30,145.86	$37,194.84	$38,714.53	$40,237.28	$33,791.66	$37,087.72	$33,066.15	$41,072.14	$31,863.32
YEAR TO DATE	$26,657.06	$64,188.34	$99,499.76	$129,645.62	$166,840.46	$205,554.99	$245,792.27	$279,583.94	$316,671.66	$349,737.81	$390,809.96	$422,673.27

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - AGITATED LEACH CIRCUIT
PROFORMA - C1

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.058	0.094	0.144	0.2	0.242	0.286	0.358	0.448	0.545	0.655	0.793	0.899
AVG. Ag GRADE	2.059	2.991	4.656	6.571	8.024	9.526	12.415	16.149	20.214	24.772	38.516	77.447
AVG. Au PRICE	$343.54	$349.63	$335.17	$355.72	$342.03	$326.58	$350.77	$346.92	$331.60	$353.79	$334.15	$345.35
AVG. Ag PRICE	$7.48	$7.72	$7.15	$7.96	$7.42	$6.81	$7.76	$7.61	$7.01	$7.88	$7.11	$7.55
AVG. % REC. Au	88.07%	86.47%	88.76%	87.26%	86.46%	88.54%	88.08%	85.38%	88.18%	87.62%	87.69%	87.50%
AVG. % REC. Ag	65.22%	61.46%	64.99%	64.40%	64.20%	63.65%	63.12%	64.22%	63.27%	64.00%	65.97%	62.38%
PRODUCTION	2383.41	2335.17	2455.05	2392.65	2410.44	2334.57	2303.97	2328.9	2372.94	2316.06	2401.32	2326.59
GROSS INCOME	$32,123.59	$49,676.47	$79,144.44	$114,954.23	$133,660.07	$144,212.27	$195,828.03	$245,337.48	$293,963.11	$378,696.49	$500,355.97	$731,745.43
-OPER. COSTS	$53,364.55	$50,089.40	$54,354.81	$54,241.38	$57,103.32	$56,286.48	$56,769.82	$60,015.75	$68,625.42	$76,128.89	$95,452.47	$139,595.40
GROSS PROFIT	($21,240.96)	($412.93)	$24,789.64	$60,712.86	$76,556.75	$87,925.79	$139,058.21	$185,321.72	$225,337.69	$302,567.60	$404,903.50	$592,150.03
-EXP'SED COSTS	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90
-DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	($47,887.99)	($27,059.96)	($1,857.39)	$34,065.83	$49,909.72	$61,278.75	$112,411.18	$158,674.69	$198,690.65	$275,920.56	$378,256.47	$565,502.99
-TAX	$0.00	$0.00	$0.00	$5,381.85	$8,233.75	$11,633.63	$31,459.14	$52,740.36	$71,147.70	$106,673.46	$153,747.97	$239,881.38
+INV. TAX CREDIT	$0.00	$0.00	$0.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00
TAX LOSS CARRY	$0.00	$0.00	$0.00	$4,981.85	$7,833.75	$11,233.63	$31,059.14	$52,340.36	$70,747.70	$106,273.46	$153,347.97	$239,481.38
NET PROFIT/LOSS	($47,887.99)	($27,059.96)	($1,857.39)	$34,065.83	$49,909.72	$61,278.75	$112,411.18	$158,674.69	$198,690.65	$275,920.56	$378,256.47	$565,502.99
+DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	($36,590.86)	($15,762.83)	$9,439.74	$45,362.96	$61,206.85	$72,575.88	$123,708.31	$169,971.82	$209,987.78	$287,217.69	$389,553.60	$576,800.12
YEAR TO DATE	($36,590.86)	($52,353.69)	($42,913.96)	$2,449.00	$63,655.85	$136,231.73	$259,940.04	$429,911.86	$639,899.64	$927,117.34	$1,316,670.93	$1,893,471.06

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - AGITATED LEACH CIRCUIT
PROFORMA - C1A

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.277	0.422	0.481	0.513	0.368	0.373	0.334	0.464	0.411	0.386	0.355	0.338
AVG. Ag GRADE	10.445	19.571	25.738	29.277	16.114	17.801	15.334	20.102	19.681	17.281	17.855	14.139
AVG. Au PRICE	$280.75	$305.27	$317.74	$325.44	$332.85	$339.94	$346.48	$353.63	$362.07	$371.31	$381.97	$397.79
AVG. Ag PRICE	$5.00	$5.97	$6.46	$6.76	$7.06	$7.34	$7.59	$7.88	$8.21	$8.57	$8.99	$9.62
AVG. % REC. Au	87.41%	86.52%	88.46%	86.02%	87.95%	88.78%	86.68%	87.06%	87.10%	87.58%	88.16%	88.28%
AVG. % REC. Ag	63.94%	64.36%	64.44%	62.53%	63.41%	65.05%	61.90%	64.14%	65.20%	64.82%	62.56%	64.53%
PRODUCTION	2374.92	2560.71	2333.7	2325.18	2426.76	2378.79	2233.77	2354.76	2321.37	2355.84	2283.36	2411.94
GROSS INCOME	$110,837.49	$218,018.63	$258,545.58	$279,585.10	$207,456.03	$228,477.88	$184,784.76	$270,880.67	$262,764.69	$276,452.14	$271,981.11	$330,982.70
-OPER. COSTS	$53,174.46	$54,927.23	$51,668.12	$52,711.83	$57,489.94	$57,352.63	$55,040.09	$60,682.17	$67,134.02	$77,436.46	$90,763.56	$144,716.40
GROSS PROFIT	$57,663.03	$163,091.40	$206,877.47	$226,873.27	$149,966.08	$171,125.26	$129,744.67	$210,198.50	$195,630.67	$199,015.68	$181,217.55	$186,266.30
-EXP'SED COSTS	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90
-DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	$31,016.00	$136,444.37	$180,230.44	$200,226.24	$123,319.05	$144,478.23	$103,097.64	$183,551.47	$168,983.64	$172,368.65	$154,570.52	$159,619.27
-TAX	$4,832.88	$42,514.41	$62,656.00	$71,854.07	$36,476.76	$46,209.98	$27,174.91	$64,183.68	$57,482.48	$59,039.58	$50,852.44	$53,174.86
+INV. TAX CREDIT	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00	$400.00
TAX LOSS CARRY	$4,432.88	$42,114.41	$62,256.00	$71,454.07	$36,076.76	$45,809.98	$26,774.91	$63,783.68	$57,082.48	$58,639.58	$50,452.44	$52,774.86
NET PROFIT/LOSS	$31,016.00	$136,444.37	$180,230.44	$200,226.24	$123,319.05	$144,478.23	$103,097.64	$183,551.47	$168,983.64	$172,368.65	$154,570.52	$159,619.27
+DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	$42,313.13	$147,741.50	$191,527.57	$211,523.37	$134,616.18	$155,775.36	$114,394.77	$194,848.60	$180,280.77	$183,665.78	$165,867.65	$170,916.40
YEAR TO DATE	$42,313.13	$190,054.63	$381,582.19	$593,105.56	$727,721.74	$883,497.09	$997,891.86	$1,192,740.46	$1,373,021.23	$1,556,687.01	$1,722,554.66	$1,893,471.06

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - FLOTATION CIRCUIT
PROFORMA - F1

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.066	0.079	0.087	0.095	0.102	0.107	0.116	0.124	0.131	0.14	0.151	0.164
AVG. Ag GRADE	4.416	4.623	3.818	4.759	4.449	4.362	4.247	3.875	4.335	4.618	4.682	4.358
AVG. Pb GRADE	3.716	3.485	3.508	3.343	3.415	3.447	3.366	3.59	3.375	3.656	3.49	3.031
AVG. Zn GRADE	3.916	4.024	4.033	3.534	4.119	3.536	4.09	4.226	3.726	4.007	3.922	4.54
AVG. Au PRICE	$328.00	$342.14	$334.72	$337.19	$350.08	$349.22	$350.14	$338.17	$332.70	$338.65	$354.79	$343.33
AVG. Ag PRICE	$7.30	$7.97	$6.96	$7.40	$7.52	$7.74	$7.33	$7.61	$7.75	$7.65	$7.87	$7.63
AVG. Pb PRICE	$0.24	$0.23	$0.24	$0.22	$0.23	$0.23	$0.23	$0.22	$0.22	$0.23	$0.24	$0.22
AVG. Zn PRICE	$0.47	$0.47	$0.47	$0.45	$0.45	$0.46	$0.46	$0.46	$0.46	$0.47	$0.45	$0.46
AVG. % REC. Au	90.21%	89.64%	89.81%	90.11%	90.21%	89.70%	90.58%	89.64%	89.60%	89.99%	90.31%	90.58%
AVG. % REC. Ag	89.83%	90.66%	89.89%	89.87%	89.48%	90.28%	89.90%	89.78%	89.98%	89.54%	90.29%	90.51%
AVG. % REC. Pb	90.09%	90.12%	90.26%	89.93%	89.58%	90.15%	90.22%	89.63%	90.47%	89.66%	90.04%	90.48%
AVG. % REC. Zn	89.52%	90.24%	89.96%	90.29%	90.14%	90.31%	89.99%	89.74%	89.89%	90.43%	89.80%	90.41%
AVG. CONC. RATIO	14.886	15.051	14.558	20.81	14.356	18.372	15.03	18.208	16.585	19.306	15.313	13.444
PRODUCTION	2421.33	2439.6	2332.89	2288.07	2352.24	2514.9	2350.56	2427.72	2423.58	2482.11	2367.18	2361.87
CAP. INV.												
GROSS INCOME	$61,906.90	$71,078.74	$61,692.25	$68,033.61	$71,235.40	$79,109.53	$75,154.26	$76,328.27	$81,980.90	$90,733.53	$92,399.85	$91,023.79
-OPER. COSTS	$49,564.63	$51,499.96	$49,527.25	$47,111.36	$48,597.28	$53,089.54	$49,032.68	$50,011.03	$50,386.23	$51,131.47	$49,166.33	$50,236.97
GROSS PROFIT	$12,342.28	$19,578.79	$12,165.00	$20,922.25	$22,638.12	$26,019.99	$26,121.58	$26,317.24	$31,594.67	$39,602.06	$43,233.52	$40,786.82
-EXP'SED COSTS	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90
-DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	($14,304.75)	($7,068.24)	($14,482.03)	($5,724.78)	($4,008.91)	($627.04)	($525.45)	($329.79)	$4,947.64	$12,955.03	$16,586.49	$14,139.79
-TAX	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$742.15	$1,943.25	$2,487.97	$2,120.97
+INV. TAX CREDIT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$400.00	$400.00	$400.00	$400.00
TAX LOSS CARRY	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$342.15	$1,543.25	$2,087.97	$1,720.97
NET PROFIT/LOSS	($14,304.75)	($7,068.24)	($14,482.03)	($5,724.78)	($4,008.91)	($627.04)	($525.45)	($329.79)	$4,947.64	$12,955.03	$16,586.49	$14,139.79
+DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	($3,007.62)	$4,228.89	($3,184.90)	$5,572.35	$7,288.22	$10,670.09	$10,771.68	$10,967.34	$16,244.77	$24,252.16	$27,883.62	$25,436.92
YEAR TO DATE	($3,007.62)	$1,221.26	($1,963.64)	$3,608.71	$10,896.92	$21,567.01	$32,338.68	$43,306.02	$59,550.79	$83,802.95	$111,686.57	$137,123.48

CASH FLOW ANALYSIS

EXPANDED FACILITY OPERATIONS - FLOTATION CIRCUIT
PROFORMA - F1A

	MONTH ONE	MONTH TWO	MONTH THREE	MONTH FOUR	MONTH FIVE	MONTH SIX	MONTH SEVEN	MONTH EIGHT	MONTH NINE	MONTH TEN	MONTH ELEVEN	MONTH TWELVE
PROCESSING												
AVG. Au GRADE	0.115	0.098	0.117	0.113	0.116	0.106	0.111	0.111	0.118	0.126	0.107	0.123
AVG. Ag GRADE	4.461	4.398	4.765	4.392	4.192	4.401	4.43	4.271	4.245	4.013	4.564	4.408
AVG. Pb GRADE	3.276	3.737	3.335	3.55	3.898	3.27	3.22	3.716	3.346	2.647	3.508	3.92
AVG. Zn GRADE	3.494	3.953	4.11	3.835	3.938	3.949	3.908	3.852	4.505	4.19	3.645	4.296
AVG. Au PRICE	$278.89	$305.55	$315.87	$324.18	$330.87	$338.62	$346.84	$354.22	$361.50	$367.14	$376.83	$398.63
AVG. Ag PRICE	$7.42	$7.49	$7.79	$7.60	$7.05	$7.23	$7.71	$7.59	$7.56	$7.58	$7.85	$7.88
AVG. Pb PRICE	$0.23	$0.23	$0.22	$0.22	$0.24	$0.23	$0.23	$0.22	$0.22	$0.23	$0.24	$0.23
AVG. Zn PRICE	$0.45	$0.47	$0.45	$0.46	$0.46	$0.45	$0.48	$0.47	$0.46	$0.46	$0.45	$0.45
AVG. % REC. Au	91.03%	90.04%	89.58%	89.65%	89.73%	89.69%	90.62%	89.98%	90.39%	90.33%	89.73%	89.62%
AVG. % REC. Ag	89.58%	89.89%	89.84%	89.25%	90.06%	89.76%	90.31%	90.38%	90.25%	90.17%	90.13%	90.39%
AVG. % REC. Pb	89.58%	90.43%	89.79%	89.49%	90.12%	90.26%	89.98%	89.83%	90.31%	90.55%	90.18%	90.10%
AVG. % REC. Zn	90.16%	90.08%	89.87%	90.12%	90.56%	90.00%	89.56%	89.85%	90.23%	90.16%	90.10%	90.04%
AVG. CONC. RATIO	30.134	15.649	14.66	15.41	15.035	15.484	15.225	16.834	13.388	13.95	16.252	13.896
PRODUCTION	2409.57	2432.01	2405.58	2417.85	2519.94	2530.23	2255.58	2369.49	2242.53	2486.55	2357.22	2335.53
GROSS INCOME	$70,655.73	$71,205.68	$77,273.88	$74,677.36	$79,228.60	$75,875.62	$73,749.52	$76,089.60	$74,229.54	$81,664.64	$79,573.98	$86,415.86
-OPER. COSTS	$48,986.56	$51,607.25	$48,929.50	$49,662.64	$52,465.15	$53,058.92	$46,825.84	$49,877.76	$46,622.20	$51,024.01	$50,067.35	$50,190.54
GROSS PROFIT	$21,669.17	$19,598.43	$28,344.39	$25,014.72	$26,763.45	$22,816.70	$26,923.68	$26,211.84	$27,607.34	$30,640.64	$29,506.63	$36,225.32
-EXP'SED COSTS	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90	$15,349.90
-DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
-DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TAX. INCOME	($4,977.86)	($7,048.60)	$1,697.36	($1,632.31)	$116.41	($3,830.33)	$276.65	($435.19)	$960.31	$3,993.61	$2,859.60	$9,578.29
-TAX	$0.00	$0.00	$254.60	$0.00	$17.46	$0.00	$41.50	$0.00	$144.05	$599.04	$428.94	$1,436.74
+INV. TAX CREDIT	$0.00	$0.00	$400.00	$0.00	$400.00	$0.00	$400.00	$0.00	$400.00	$400.00	$400.00	$400.00
TAX LOSS CARRY	$0.00	$0.00	($145.40)	$0.00	($382.54)	$0.00	($358.50)	$0.00	($255.95)	$199.04	$28.94	$1,036.74
NET PROFIT/LOSS	($4,977.86)	($7,048.60)	$1,697.36	($1,632.31)	$116.41	($3,830.33)	$276.65	($435.19)	$960.31	$3,993.61	$2,859.60	$9,578.29
+DEPRECIATION	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13	$11,297.13
+DEPLETION	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
CASH FLOW	$6,319.27	$4,248.53	$12,994.49	$9,664.82	$11,413.54	$7,466.80	$11,573.78	$10,861.94	$12,257.44	$15,290.74	$14,156.73	$20,875.42
YEAR TO DATE	$6,319.27	$10,567.80	$23,562.29	$33,227.11	$44,640.65	$52,107.45	$63,681.23	$74,543.16	$86,800.60	$102,091.34	$116,248.07	$137,123.48

TABLE G6 — GRAPH G6

RATE OF RETURN ANALYSIS — PROBABILITY ANALYSIS DISTRIBUTION

500 TON PER DAY GRAVITY OPERATION

INTERVAL RANGE	DATA DIST.	% RETURN	IND. %	CUM. FREQ.
$146,000.00	0	-20%	0.00%	0.00%
$300,000.00	1	0%	0.40%	0.40%
$346,500.00	1	5%	0.40%	0.80%
$395,700.00	1	10%	0.40%	1.20%
$447,500.00	3	15%	1.20%	2.40%
$501,600.00	7	20%	2.80%	5.20%
$557,800.00	5	25%	2.00%	7.20%
$615,850.00	11	30%	4.40%	11.60%
$675,700.00	19	35%	7.60%	19.20%
$737,000.00	10	40%	4.00%	23.20%
$799,900.00	23	45%	9.20%	32.40%
$863,900.00	26	50%	10.40%	42.80%
$928,800.00	32	55%	12.80%	55.60%
$995,000.00	33	60%	13.20%	68.80%
$1,061,800.00	28	65%	11.20%	80.00%
$1,129,500.00	20	70%	8.00%	88.00%
$1,198,000.00	16	75%	6.40%	94.40%
$1,267,500.00	6	80%	2.40%	96.80%
$1,548,000.00	8	100%	3.20%	100.00%
	0		0.00%	100.00%
			0.00%	100.00%
			0.00%	100.00%

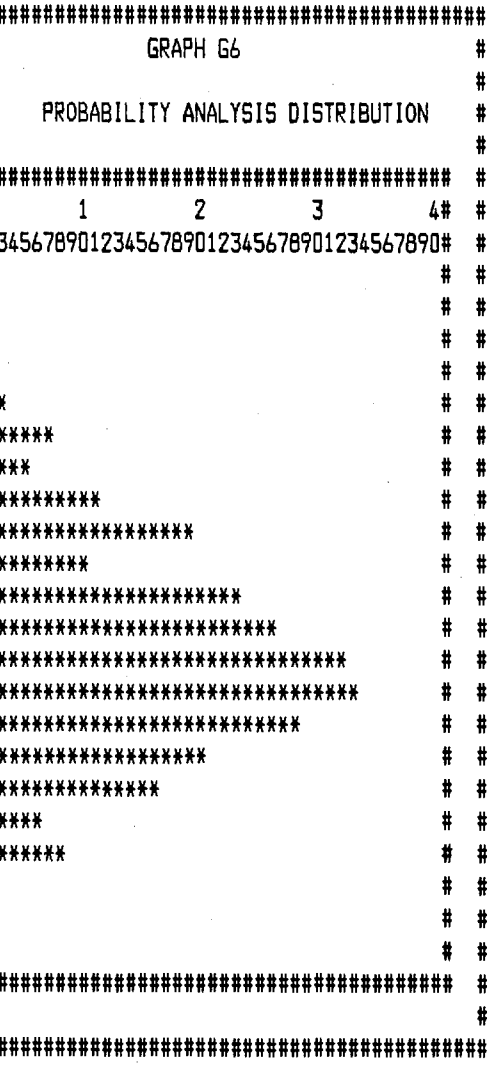

TABLE F6 — GRAPH F6

RATE OF RETURN ANALYSIS — PROBABILITY ANALYSIS DISTRIBUTION

FLOTATION OPERATION

INTERVAL RANGE	DATA DIST.	% RETURN	IND. %	CUM. FREQ.
$20,250.00	6	-40%	2.40%	2.40%
$36,350.00	3	-30%	1.20%	3.60%
$58,500.00	4	-20%	1.60%	5.20%
$86,500.00	1	-10%	0.40%	5.60%
$120,000.00	3	0%	1.20%	6.80%
$158,275.00	3	10%	1.20%	8.00%
$200,625.00	10	20%	4.00%	12.00%
$246,325.00	11	30%	4.40%	16.40%
$294,825.00	21	40%	8.40%	24.80%
$345,500.00	20	50%	8.00%	32.80%
$397,950.00	32	60%	12.80%	45.60%
$451,825.00	24	70%	9.60%	55.20%
$506,825.00	30	80%	12.00%	67.20%
$562,700.00	21	90%	8.40%	75.60%
$619,350.00	21	100%	8.40%	84.00%
$676,500.00	8	110%	3.20%	87.20%
$734,200.00	12	120%	4.80%	92.00%
$792,300.00	10	130%	4.00%	96.00%
$850,700.00	4	140%	1.60%	97.60%
$909,300.00	0	150%	0.00%	97.60%
$1,204,950.00	5	200%	2.00%	99.60%
$1,502,850.00	1	250%	0.40%	100.00%
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TABLE C6 — CYANIDE RATE OF RETURN ANALYSIS

INTERVAL RANGE	DATA DIST.	% RETURN	IND. %	CUM. FREQ.
$20,250.00	36	-40%	14.40%	14.40%
$58,500.00	5	-20%	2.00%	16.40%
$120,000.00	3	0%	1.20%	17.60%
$200,625.00	4	20%	1.60%	19.20%
$294,825.00	8	40%	3.20%	22.40%
$397,950.00	7	60%	2.80%	25.20%
$619,350.00	13	100%	5.20%	30.40%
$850,700.00	18	140%	7.20%	37.60%
$1,086,300.00	17	180%	6.80%	44.40%
$1,323,950.00	12	220%	4.80%	49.20%
$1,562,600.00	6	260%	2.40%	51.60%
$1,801,750.00	9	300%	3.60%	55.20%
$2,041,250.00	12	340%	4.80%	60.00%
$2,280,900.00	11	380%	4.40%	64.40%
$2,520,650.00	9	420%	3.60%	68.00%
$2,760,500.00	8	460%	3.20%	71.20%
$3,000,400.00	5	500%	2.00%	73.20%
$3,300,300.00	8	550%	3.20%	76.40%
$3,600,200.00	11	600%	4.40%	80.80%
$3,900,150.00	5	650%	2.00%	82.80%
$4,200,100.00	4	700%	1.60%	84.40%
$4,500,100.00	4	750%	1.60%	86.00%
$4,800,100.00	0	800%		
$5,100,050.00	3	850%		
$5,400,000.00	2	900%		
$5,700,000.00	2	950%		
$6,000,000.00	1	1000%		
	27			

GRAPH C6 — PROBABILITY ANALYSIS DISTRIBUTION

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PART D

SUMMATION

The basis of this report, when undertaken, was to determine whether or not the Armco Mill Facility could be completed and operated profitably. This report was prepared by examining all known variables and, from these variables, developing electronic working models to determine if our hypothesis was correct.

The fundamentals contained in this report prove that the Armco Mill Facility can be completed and operated profitably and, as in any business venture, certain variables, which can occur, will require controlling.

If you glance back at the 6 Proformas, contained in Part C, each one of these indicates a positive cash flow can be achieved on a yearly basis. This positive cash flow even takes into consideration the amoritization of the capital improvement requirements for each phase of expansion.

The Proformas, in conjunction with the rate of return analysis also located in Part C, indicate that a positive cash flow, given the variables discussed throughout the report, can not be achieved 100% of the time, nor should this be expected. What they do indicate is that certain variables have a more direct impact upon the profitability of the proposed operations. In examining the variables, it was determind that the grade of ore feed to each circuit, the recovery percentage achieved on the metals in each circuit and the price received for the metals contained had the most impact on profitability. The most significant factor is that the grade of ore and recovery percentages can be dealt with through the use of adequate control measures, at the mill, to insure that the impact of the metal prices is minimal.

In summation and not taking into consideration any control measures, the probability analysis shows:

a.) The Gravity Circuit can achieve a positive cash flow, not taking into consideration the amoritization of the $1,500,000 capital expansion costs, 99.6% of the time;

b.) The Gravity Circuit can achieve a positive cash flow, taking into consideration the amoritization of the $1,500,000 capital expansion costs at a rate of approximately 18% on the investment dollars, 94.6% of the time;

c.) The Flotation Circuit can achieve a positive cash flow, not taking into consideration the amoritization of the $600,000 capital expansion costs, 93.2% of the time;

d.) The Flotation Circuit can achieve a positive cash flow, taking into consideration the amoritization of the $600,000 capital expansion costs at a rate of approximately 18% on the investment dollars, 88% of the time;

e.) The Agitated Leach Circuit can achieve a positive cash flow, not taking into consideration the amoritization of the $600,000 capital expansion costs, 83,4% of the time;

f.) The Agitated Leach Circuit can achieve a positive cash flow, taking into consideration the amoritization of the $600,000 capital expansion costs at a rate of approximately 18% on the investment dollars, 80.8% of the time.

If one were to take into consideration adequate and consistent control measures on the grade of ore and the recovery percentages it is reasonable to expect the facility would then be capable of achieving profitable operations 100% of the time and could well become an operating model in the southwestern United States.

Many hours went into the preparation of the probability analysis which became the basis for this report. This report was prepared as a summary of the findings and in the event the reader requires any explanation of the contents herein they may wish to contact the preparers at:

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