

DISTRICT	Manhattan - 6000 2458
DIST_NO	2960 4840
COUNTY <small>If different from written on document</small>	Nye
TITLE <small>If not obvious</small>	Hughes Series Administrative Records - Financial Records
AUTHOR	Bounty, W; Simmons, W; Gribbin, D; Robinson, W; Hamilton, D; Page D; Saunders, F Robertson, W
DATE OF DOC(S)	1976
MULTI_DIST <input checked="" type="radio"/> Y <input type="radio"/> N? <small>Additional Dist. Nos:</small>	See District; District no; Quad; PMC
QUAD_NAME	Manhattan 7 1/2 - 60002458 Tonopah 7 1/2 - 60002459
P_M_C_NAME <small>(mine, claim & company names)</small>	Summa - both Big Pine Pit - 60002458
COMMODITY <small>If not obvious</small>	Gold, silver
NOTES	Correspondence; budget sheets; cost estimates; production 3 1/2 p.

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

Revised: 1/22/08

SS:	DP	12/22/08
	Initials	Date
DB:		
	Initials	Date
SCANNED:	MT	1.11.10
	Initials	Date
QA:	PB	1-15-10

ACCOUNTING - Budgetary 1976

6

HUGHES SERIES
ADMINISTRATIVE RECORDS
FINANCIAL RECORDS

6

60002458

2960



summa

Internal Communication

Date: February 12, 1976
To: Walt Simmons
From: Wallace T. Boundy *WTB*
Subject: Cost Estimates for Mining At Big Pine Pit,
Group 26, Manhattan

The attached estimates are based on past experience at Manhattan and have been updated somewhat due to rising costs.

A further report on the crushing and screening report will be prepared as soon as we can make some tests at the present screening plant.

WTB:sfm

Dist: WTB
WTB rf
Big Pine Pit
Cost Estimates ✓

cut B

ESTIMATED LOADING AND PIT CONTROL COSTS

BIG PINE PIT - GROUP 26 - MANHATTAN

Based on 3000 tons per 8-hour shift:

980B Cat Loader (company) -- Excellent condition, 1 year old

Operator	\$.03	per ton
Fuel, oil and maintenance	<u>.06</u>	per ton
Total:	\$.08	per ton

D8H Cat Dozer (company) -- Excellent shape, 2 years old

Operator	\$.03	per ton
Fuel, oil and maintenance	<u>.06</u>	per ton
Total:	\$.08	per ton

Haulage Costs

Outside Contracting

(See Haulage Reports & Cost Heap #4)

\$.35 per ton

Road Construction and Maintenance

Operator	\$.03	per ton
Fuel, oil and maintenance	<u>.04</u>	per ton
Total:	\$.07	per ton

General * \$.29 per ton

TOTAL COSTS MINING (OPEN PIT) \$1.00 per ton

* General costs include: Mine Supervision, employees benefits, overtime premiums, Mine Surveying, Development Drilling, payroll taxes, insurance, assaying, mine plant depreciation.

ESTIMATED DRILLING AND BLASTING COSTS
BIG PINE PIT - GROUP 26 - MANHATTAN

Drilling Costs:

DM-3 Drill Rig (Company) presently being overhauled:

Labor (2 men)	\$.04 per ton
Fuel, oil and maintenance	.02 per ton
Bits	.013 per ton bit life
Total bare cost:	<u>\$.073 per ton</u>

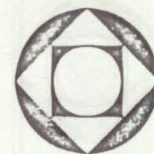
Costs here are somewhat high due to the type of drill rig being used for short holes of 15-20'. The mast has to be lowered each time drill rig is moved from one hole to another, thus almost doubling bare drilling costs. The use of an air track or a more compatible rig would decrease the cost per ton for drilling by 50%. Blasting costs would remain much the same.

Blasting Costs:

2500 lb. blasting agent per day @ \$.12	= \$300.00 = \$.10 per ton
Caps, fuse and powder	= 50.00 = .02 per ton
Labor	<u>.01 per ton</u>
Total:	<u>\$.13 per ton</u>

TOTAL COST PER TON DRILLING AND BLASTING = \$.20 per ton

Internal Communication



summa

Date: February 19, 1976
To: D. J. Gribbin
From: W. J. Robinson
Subject: 1976 Budget for Tonopah and Manhattan
Existing Facilities

Attached please find the 1976 Budget for Tonopah and Manhattan existing facilities. This budget covers expenditures for operations as they now exist based on recoveries from past production and future predictions.

Each department head generated his own figures and will be held accountable for meeting his goals.

The machinery, equipment, and parts are all replacement items and should not be considered new capital. The remaining monies are for supplies and labor.

Upon approval, we will proceed with the replacement of the carbon stripping plant immediately and routine operating maintenance and repairs as needed.

Attachment

1976 BUDGET FOR TONOPAH
AND MANHATTAN EXISTING FACILITIES

I. PRODUCTION: Without expanding capacity, the present system is capable of producing 5,476 oz. Au and 1,642 oz. Ag. These figures are based on 50% total dump recovery calculated on prior produced gold bars. The monthly production is as follows:

1976	Month	Operating Days	Oz./Day Mill	Oz./Day Ref. @ 70%	Total Production
Jan.	completed	--	--		60 oz.
Feb.	6	4	2.8		17 oz.
March	15	15	10.5		158 oz.
April	30	35	24.5		735
May	31	35	24.5		759
June	30	35	24.5		735
July	31	35	24.5		759
Aug.	31	35	24.5		759
Sept.	30	35	24.5		735
Oct.	31	35	24.5		759
Nov.	0				
Dec.	0				
TOTAL					5,476 oz. Au 1,642 oz. Ag

II. INCOME

Au	5,476 oz. @ \$130/oz.	\$711,880
Ag	1,642 oz. @ \$3.97/oz.	<u>6,518</u>
GROSS INCOME		\$718,398

III. EXPENSES

Project # 03401 Leach Mine Manhattan	
03402 Leach Heap #2 Manhattan	---W. Simmons
03403 Leach Mill Manhattan	
03408 Leach Heap #4 Manhattan	
03201 Development Manhattan	---F. Saunders
03000 Unassigned Manhattan	---D. Page
02301 Fire Assay Lab	
02302 Carbon Stripping	
02303 Wet Lab	---D. K. Hamilton
02304 Metallurgy Research	
03407 Refining	

New Capital = 0

Operating =

	<u>Supplies</u>	<u>Labor</u>	<u>Replacements</u>
All	--	\$400,000	--
03401	\$23,750	0	0
03402	8,300	0	0
03403	69,750	0	\$16,500

III. EXPENSES (continued)

Operating:

<u>Code</u>	<u>Supplies</u>	<u>Labor</u>	<u>Replacements</u>
03201			
03000	\$ 3,300		
02301	17,000	0	\$15,200
02302	30,900	0	23,000
02303	2,500	0	15,000
02304	15,000	0	
03407	--	--	
	<hr/>	<hr/>	<hr/>
Total	\$170,500	\$400,000	\$69,700

TOTAL EXPENSES: \$640,200

IV. PROFIT

Gross	\$718,398
Expenses	<u>640,200</u>
Profit	78,198
% Profit	12.2%

DETAIL OF BUDGET

03401 LEACH MINE - MANHATTAN

Auto & Expense		\$23,000
Steel Material		<u>750</u>
Total		23,750

03402 LEACH HEAPS

Operating Supplies			
Cyanide	4,270		
Caustic	<u>640</u>		
	4,910	5,000	
Baroid		1,000	
Tools & Equipment		500	
Repairs & Maintenance		<u>1,800</u>	
Total		\$8,300	

*600⁰⁰ Baroid
3 mil - Per. - #20*

03403 LEACH MILL

Auto & Expense		23,000
Repairs & Maintenance		
Steel & Tanks	7,500	
Paint, etc.	<u>1,500</u>	
	9,000	9,000
Operating Supplies		
Carbon	17,500	
Column Repair Steel	<u>5,000</u>	
	22,500	22,500
Safety		1,000
Freight		750
Utilities		
Power	25,000	
Water	<u>5,000</u>	
	30,000	30,000
Total		\$86,250

*General mill power
New Pump*

DETAIL OF BUDGET

02301 FIRE ASSAY LAB

Operating Supplies		
Operating Supplies	21,000	
Professional Supplies	1,000	
Expensed Tools & Equipment	700	
Fuel & Lubricant Expense	100	
Safety Supplies	<u>300</u>	
	23,100	\$23,100
Operating Services		
Purchased (Assaying)		700
Communications (Library)		200
Repairs & Maintenance		
Buildings & Improvements	1,500	
Machinery & Equipment	2,000	
Furniture & Fixtures	<u>1,200</u>	
	4,700	4,700
Utilities		<u>3,500</u>
Total		\$32,200

02302 CARBON STRIPPING

Operating Supplies		
Operating Supplies	7,500	
Expensed Tools & Equipment	1,500	
Safety Supplies	<u>300</u>	
	9,300	9,300
Professional Services (Metallurgy)		8,000
Communications		
Postage & Freight		800
Repairs & Maintenance		
Buildings & Improvements	4,900	
Machinery & Equipment	16,900	
Furniture & Fixtures	<u>2,000</u>	
	23,800	23,800
Utilities		<u>12,000</u>
Total		\$53,900

DETAIL OF BUDGET

02303 WET LAB

Operating Supplies		
Operating Supplies	1,500	
Expenses Tools &		
Equipment	<u>15,000</u>	
	16,500	\$16,500
Repairs & Maintenance		
Buildings &		
Improvements	500	
Machinery &		
Equipment	<u>500</u>	
	1,000	<u>1,000</u>
Total		\$17,500

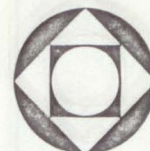
02304 METALLURGY RESEARCH

Metallurgy Research		<u>\$15,000</u>
Total		\$15,000

03000 UNASSIGNED MANHATTAN

Unassigned Manhattan		<u>\$ 3,300</u>
Total		3,300

GRAND TOTAL (Supplies & Replacements) \$240,200



summa

Internal Communication

Date: March 11, 1976
To: D. J. Gribbin
From: W. J. Robinson
Subject: Budget Changes for Tonopah and Manhattan
Existing Facilities

We had originally anticipated charging expenses related to employee relations and travel to Las Vegas administration. The thinking behind this was most travel to Las Vegas would be because of Division or Corporate reasons. We now find we cannot expense this way; therefore, we have adjusted our original budget to reflect the added costs.

There are some contingencies built into our budget figures but not a great deal. We figured we would just do without items if we could not stay within budget. This action, of course, has to be tempered with common sense.

These figures do point out the need for more ore to be treated and in such a manner to produce a good cash flow for 1976 and on into 1977. Most of the overhead will be absorbed by present operations; therefore, we should be able to generate a positive cash flow and a fair profit.

Att.

Dist: WJR
DKH
DP
Budget file ✓.
WJR rf

1976 BUDGET FOR TONOPAH
AND MANHATTAN EXISTING FACILITIES

I. PRODUCTION: Without expanding capacity, the present system is capable of producing 5,476 oz. Au and 1,642 oz. Ag. These figures are based on 50% total dump recovery calculated on prior produced gold bars. The monthly production is as follows:

1976 Month	Operating Days	Oz./Day Mill	Oz./Day Ref. @ 70%	Total Production	
Jan.	completed	--	--	60 oz.	
Feb.	6	4	2.8	17 oz.	
March	15	15	10.5	158 oz.	
April	30	35	24.5	735	5,241 oz.
May	31	35	24.5	759	
June	30	35	24.5	735	
July	31	35	24.5	759	
Aug.	31	35	24.5	759	
Sept.	30	35	24.5	735	
Oct.	31	35	24.5	759	
Nov.	0				
Dec.	0				
TOTAL				5,476 oz. Au 1,642 oz. Ag	

II. INCOME

Au	5,476 oz. @ \$130/oz.	\$711,880
Ag	1,642 oz. @ \$3.97/oz.	6,518
	GROSS INCOME	\$718,398

III. EXPENSES

Project # 03401	Leach Mine Manhattan	
03402	Leach Heap #2 Manhattan	--- W. Simmons
03403	Leach Mill Manhattan	
03408	Leach Heap #4 Manhattan	
03201	Development Manhattan	--- F. Saunders
03000-0102	Tonopah Administration	--- D. Page
03000-0522	Tonopah Warehouse	
02301	Fire Assay Lab	
02302	Carbon Stripping	
02303	Wet Lab	--- D. K. Hamilton
02304	Metallurgy Research	
03407	Refining	

New Capital = 0

Operating	=	Supplies	Labor	Replacements
All		--	\$400,000	--
03401		\$23,750	0	0
03402		8,300	0	0
03403		69,750	0	\$16,500

III. EXPENSES (continued)

Operating:

Code	Supplies	Labor	Replacements
03201			
03000-0102	29,996		
03000-0522	5,854		
02301	17,000	0	15,200
02302	30,900	0	23,000
02303	2,500	0	15,000
02304	15,000	0	
03407	--	--	
	<hr/>	<hr/>	<hr/>
Total	\$203,050	\$400,000	\$69,700

TOTAL EXPENSES: \$672,750

IV. PROFIT

Gross	\$718,398
Expenses	<u>672,750</u>
Profit	45,648
% PROFIT	6.8%

DETAIL OF BUDGET

03401 LEACH MINE - MANHATTAN

Auto & Expense		\$23,000
Steel Material		<u>750</u>
Total		23,750

03402 LEACH HEAPS

Operating Supplies		
Cyanide	4,270	
Caustic	<u>640</u>	
	4,910	5,000
Baroid		1,000
Tools & Equipment		500
Repairs & Maintenance		<u>1,800</u>
Total		\$8,300

03403 LEACH MILL

Auto & Expense		23,000
Repairs & Maintenance		
Steel & Tanks	7,500	
Paint, etc.	<u>1,500</u>	
	9,000	9,000
Operating Supplies		
Carbon	17,500	
Column Repair Steel	<u>5,000</u>	
	22,500	22,500
Safety		1,000
Freight		750
Utilities		
Power	25,000	
Water	<u>5,000</u>	
	30,000	30,000
Total		<u>\$86,250</u>

DETAIL OF BUDGET

02301 FIRE ASSAY LAB

Operating Supplies		
Operating Supplies	21,000	
Professional Supplies	1,000	
Expensed Tools & Equipment	700	
Fuel & Lubricant Expense	100	
Safety Supplies	<u>300</u>	
	23,100	\$23,100
Operating Services		
Purchased (Assaying)		700
Communications (Library)		200
Repairs & Maintenance		
Buildings & Improvements	1,500	
Machinery & Equipment	2,000	
Furniture & Fixtures	<u>1,200</u>	
	4,700	4,700
Utilities		<u>3,500</u>
Total		\$32,200

02302 CARBON STRIPPING

Operating Supplies		
Operating Supplies	7,500	
Expensed Tools & Equipment	1,500	
Safety Supplies	<u>300</u>	
	9,300	9,300
Professional Services (Metallurgy)		8,000
Communications		
Postage & Freight		800
Repairs & Maintenance		
Buildings & Improvements	4,900	
Machinery & Equipment	16,900	
Furniture & Fixtures	<u>2,000</u>	
	23,800	23,800
Utilities		<u>12,000</u>
Total		\$53,900

DETAIL OF BUDGET

02303 WET LAB

Operating Supplies		
Operating Supplies	1,500	
Expensed Tools & Equipment	<u>15,000</u>	
	16,500	\$16,500
Repairs & Maintenance		
Buildings & Improvements	500	
Machinery & Equipment	<u>500</u>	
	1,000	<u>1,000</u>
Total		\$17,500

02304 METALLURGY RESEARCH

Metallurgy Research		<u>\$15,000</u>
Total		\$15,000

03000-0102 TONOPAH ADMINISTRATION

Employee Relations		<u>2,200</u>	
Employee relocation	2,200		
Employee morale	<u>1,320</u>		
	3,520		3,520
Operating Supplies			
Office Supplies	300		
Office Operating Supplies	<u>1,800</u>		
	2,100		2,100
Communications			
Subscriptions, dues, Memberships	180		
Postage & Freight	240		
Telephone	7,200		
Library	<u>900</u>		
	8,520		8,520
Travel & Conference			6,286
Utilities			9,520
Public Image			
Contributions	50		<u>50</u>
Total			\$29,996

DETAIL OF BUDGET

03000-0522 TONOPAH WAREHOUSE

Supplies		\$ 900
Operating Supplies		
Expenses Tools &		
Equipment	1,865	
Fuel & Lubricant	2,000	
Safety Supplies	<u>789</u>	
	4,654	4,654
Repairs & Maintenance		
Automotive Equip.	300	<u>300</u>
Total		\$5,854

GRAND TOTAL (Supplies & Replacements) \$272,750

1 2 3

RECEIVED NO. 2
SHEET NO. 2

DATE	ITEMS	POST REF.	✓	DEBITS	✓	CREDITS	✓	DR. or CR.	BALANCE
412 001	Employee recruitment			0		0			0
002	Employee relocation			7 200		0			7 200
003	Employee morale			1 320		198			1 518
004	Employee general/Exp.			0		0			0
413 001	Office Supplies			300		45			345
002	Office Operating Supplies (Duplicating machine)			1 800		270			2 070
416 001	Subscription, memberships & dues			180		0			180
002	Postage & Freight			240		36			276
003	Telephone			7 200		90			8 280
004	Library			900		135			1 035
417 001	Travel			6 286		396			7 228
002	Entertainment			0		0			0
003	Conference			0		0			0
005	Furniture & Fixtures			0		0			0
419 001	Utilities			9 520		1 170			10 948
421 001	Contributions			50		8			58
002	Public Relations			0		0			0
	1 Anticipated Actual Cost			34 996		4 142			39 138
	2 Inflation factor (AAC + 15%)								
	3 Total Budget Cost								

DATE	ITEMS	POST REF.	DEBITS	CREDITS	DR. or CR.	BALANCE
412 001	Employee recruitment		0	0		0
002	Employee relocation		2200	0		2200
003	Employee morale		1320	198		1518
004	Employee general/Exp.		0	0		0
413 001	Office Supplies		300	45		345
002	Office Operating Supplies (Duplicating machine)		1800	270		2070
416 001	Subscription, memberships & dues		180	0		180
002	Postage & Freight		240	36		276
003	Telephone		600	90		690
004	Library		900	135		1035
417 001	Travel		2643	396		3039
002	Entertainment		600	0		600
003	Conference		600	0		600
005	Furniture & Fixtures		0	0		0
419 001	Utilities		7800	1170		8970
421 001	Contributions		50	8		58
002	Public Relations		220	33		253
	1 Anticipated Actual Cost		19453	2381		21834
	2 Inflation factor(AAC + 15%)					
	3 Total Budget Cost					

RATING CREDIT LIMIT NAME OF ACCOUNT
 20,528 Warehouse Inventory & Tools Exp. (for sign-out)

TERMS 03000-0522

ACCOUNT NO.
 SHEET NO.

DATE	ITEMS	POST REF.	DEBITS	CREDITS	DR. or CR.	BALANCE
106 008	Supplies (Pipe, etc.) Back-up pumps		6 590	981		7 521
413 006	Tools & Equipment (hand tools, mech. & Elect.)		1 865	130		1 995
012	Fuel & Lubricant exp. (Diesel, Gas & Oil)		8 910	1 337		10 247
013	Safety supplies (Respirators, filters, 1st Aid)		789	119		908
418 004	Automotive equipment (spark plugs, filters)		746	112		858
			17 850			
			17 850	2 679		21 529
			5854			

RATING

CREDIT LIMIT

NAME OF ACCOUNT

ACCOUNT NO.

\$39,138.

Tonopah Administration

TERMS

SHEET NO.

Months 1-10/76

03000-0102

1

2

3

DATE	ITEMS	POST REF.	✓	DEBITS	✓	CREDITS	✓	DR. or CR.	BALANCE
412 001	Employee recruitment			0		0		0	0
002	Employee relocation			2 200		0		2 200	7 200
003	Employee morale			1 320		198		1 518	1 518
004	Employee general/Exp.			0		0		0	0
413 001	Office Supplies			300		45		345	345
002	Office Operating Supplies (Duplicating machine)			1 800		270		2 070	2 070
416 001	Subscription, memberships & dues			180		0		180	180
002	Postage & Freight			240		36		276	276
003	Telephone			7 200		90		8 280	8 280
004	Library			900		135		1 035	1 035
417 001	Travel			6 286		396		7 228	7 228
002	Entertainment			0		0		0	0
003	Conference			0		0		0	0
005	Furniture & Fixtures			0		0		0	0
419 001	Utilities			9 520		1 170		10 948	10 948
421 001	Contributions			50		8		58	58
002	Public Relations			0		0		0	0
	1 Anticipated Actual Cost			34 996		4 142		39 138	39 138
	2 Inflation factor (AAC + 15%)			2 996					
	3 Total Budget Cost								

Internal Communication



Date: March 26, 1976
To: William J. Robinson
From: David K. Hamilton
Subject: Financial Justification for
Atomic Absorption Unit

	<u>Present Load/Day</u>	<u>Expected Load/Day</u>
Exploration	75 samples	75 samples
Solutions	5	6
Carbons	0	5
Blastholes	0	30
Research	6	30
TOTAL	86	146

Presently all samples are analysed using fire assay methods. The current load is about the maximum if no additional equipment, manpower, or outside services are used.

The following table shows the expected breakdown of costs for (1) fire assay and (2) atomic absorption for the expected sample load.

ROCK SAMPLES

	<u>Fire Assay</u>	<u>Atomic Absorption</u>
Bucking room	\$0.50/sample	\$0.50/sample
Reagents	\$1.00/sample	\$.25/sample
Samples/Run	25	40
Time/Run	3 hours	1 hour
Capacity/Day	67 samples	320/day
Wages/Run	\$40.00	\$13.25
Wages/Sample	\$ 1.60/sample	\$ 0.33/sample
TOTAL COST (without utilities & Depreciation)	\$ 3.10	\$ 1.08

We plan to utilize the Atomic Absorption unit on solutions, research, and blast hole samples. Fire assay checks will be made on a 1 in 5 basis. Exploration samples will be run by fire assay until such time as confidence in the wet technique.

Under the expected load the costs would be:

	<u>Fire Assay</u>	<u>Fire Assay + Atomic Absorption (includes Check Assays)</u>
Exploration	\$232.50	\$240.00
Solutions	18.60	6.50
Carbons	60.00	60.00
Blast Holes	93.00	51.00
Research	93.00	51.00
Overtime for Load	96.00	- 0 -
TOTAL DAILY COST	\$593.10	\$408.50

DKH to WJR 3/26/76 -- 3

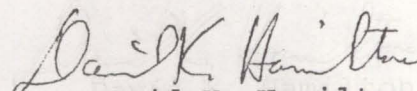
From the preceeding, the daily saving available through the use of atomic absorption techniques is \$185.60, or about \$1.25 per sample. Using a 240-day work year, the saving amounts to over \$44,000/year. This yields a payback in 4 months of operation.

None of the justification takes into account the necessity of rapid return of results. Solution and blasthole assay results must be made available for decision making in the field. Plant solutions now take 4-5 hours, whereas atomic absorption analysis would require 10-15 minutes.

Blasthole results should be available within 24 hours for timely ore control and scheduling. Without atomic absorption, 36 hours is the best turnaround expected.

Further, this does not take into account the possibility of increasing loads in exploration or metallurgy samples that may be expected from other properties which will fall under the development category in the near future (i.e., at Mary and McCoy).

Dist: DKH rf
DKH


David K. Hamilton
Metallurgy & Planning

Budget



summa

Internal Communication

Date: October 15, 1975
To: D. J. Gribbin
From: Wm. J. Robertson
Subject: 1976 Estimated Budget

I attach a copy of the 1976 Estimated Budget for the Lab.

On the Fire Assay Supplies I allowed for enough material to fire 18,000 samples. I did the same with the Bucking Room, allowing for 18,000 samples to be prepared. I estimated cost on a Rolls Crusher. The Atomic Absorption budget again is an estimation, but close, I hope.

I did plan for a new heating system but I have no idea on costs. I do hope this information will be of some help to you in the preparation of the 1976 budget.

Attachment

Wm. J. Robertson

Wm. J. Robertson

1976 ESTIMATED BUDGET FOR SUMMA LAB

Fire Assay Supplies	Quantity	Cost
30 gram crucibles	70 cases	\$3,780
1½" composite cupels	180 cases	5,760
1 3/4" composite cupels	25 cases	1,050
Soda Ash	1,700 pounds	500
Lithrage Cp	300 pounds	800
Borax Glass	400 pounds	160
Silicia Acid Powder	50 pounds	125
Flour	50 pounds	20
Herman Inquarts	90 boxes	900
DFC Assay Furnace		
Extra Muffle & Elements		1,500
	Total	\$14,595

Bucking Room

New or Used Rolls Crusher	1	est.	\$1,750
Pulverizer Plates	12 sets		400
Crusher Plates 5 x 6	2 sets	est.	500
Sample Pans	200		150
6 x 8 sample bags	18,000		900
Riffle Splitter	1		125
New Air Compressor	1	est.	150
Misc. Items			400
	Total		\$4,375

Atomic Absorption Supplies

New or Used A. A. Unit	est.	\$6,500
Extra Lamps	est.	2,000
	Total	\$8,500

1976 Estimated Budget for Summa Lab -- 2

Wet Lab	Quantity	Cost
Misc. Glassware		750
Acids	50 gal. HCl	375
	50 gal. Nitric	190
New Counter Top		800
Misc. Chemicals	est.	700
	Total	<u>\$2,815</u>
Building Maintainance	est.	2,000
Heating -- New Heating System		?
Emergency Shower installed	est.	200
Utilities		?
Labor		
1 Chief Assayer		
1 Assistant Assayer		
1 Sample Preparation Man		

Submitted by: Wm. J. Robertson

ESTIMATED BUDGET FOR STRIPPING AND CARBON REACTIVATION
1975 - 1976

Based on 82 tons of carbon 200 oz./ton assay:

174	barrels Methanol	\$10,287
14	barrels flake caustic soda	1,173
160	gallons Hydrochloric acid	186
82	gallons Ammonium hydroxide	108
48	crucibles	345
24	cases steel wool	460
	Filters	70
	PVC screen (approx.)	80
	Safety supplies	125
	Oil for preheat	1,625
	Propane for carbon reactivation	2,275
	Repair and maintenance estimated	4,000
		<hr/>
		\$20,734 *

* Does not include freight, wages, or consulting fees.

Prices used are as of 9/26/75

Ken C. Morrison