CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the A. F. Budge Mining Ltd. Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Vulture?

Scanned as Vulture Estimates Report Oct 1988.pdf 7/22/11 -MC

October 18, 1988 Tucson, Arizona

MINING PLAN AND ORE RESERVES

The "Project" program involves mining and processing gold and silver ores found in dumps and as outcropping, in-place mineralization in the district. Proven ore reserves consist of 300,550 metric tons (mt) of mine dumps which average 2.06 grams of gold (Au) and 82 grams of silver (Ag). (See Table 1, below.) An area of carefully (well) sampled outcrops indicate a probable 60,650 mt grading 3.65g/mt of Au and 52 g/mt of AG.

OPERATIONS:

A cost estimate study indicates an initial capital investment of * $175,955 U.S. is required to establish a 10,000 mt heap for leaching. The estimated operating cost for a 300 Tons Per Day (TPD) rate of processing is $66,300 for the initial 10,000 mt.

* This amount varies according to design parameters decided upon by consulting metallurgical and mining consultants.

FINANCE

A $750,000 line of credit or "initial development" loan is sought to process the dump ores and mine a limited amount of in-situ or in-place ores. This amount would be held in an escrow account in the United States and released via a corresponding Mexican Bank as needed for each phase of the project. Details of the proposed program indicate that ninety (90) days are required to continue and improve production at the existing plant. Additional lead time for planning and construction (land purchasing, leveling or excavation and construction of buildings or leaching pads) is estimated at six (6) months.

Repayment of the loan/line of credit can begin as soon as a cash flow is established from the existing plant's first 10,000 mt heap leach operation. Realistically, for a mining venture in Mexico, it is estimated that repayment can be guaranteed beginning in the thirteenth month.

Assuming the full $750,000 is spent on development, a repayment schedule can be structured as follows:

ESTIMATED RETURNS

Calculations of the potential return on investment indicate that for the processing of mine dump ores the gross returns are projected as follows:

Gross Earnings:

Sales (gold and silver)	=	$7,745,173
Total Est. Prod. Costs	=	1,992,650
Estimated Profits	=	5,752,523

ESTIMATED LOAN PAYMENTS

Gross Earnings must be reduced by loan repayment (principal + interest); payments to property owners and other encumbrances.

Loan Principal Repayment	=	$750,000
Loan Interest (R/T on Invest.)	=	750,000
Payments to property owners	=	420,000
Other encumbrances	=	600,000
Grand Total	=	2,520,000

CASH FLOW ANALYSIS

Phase I Twelve (12) months' mining and development

Phase II Processing 500 metric tons per day on a monthly basis (mtpm) =10,000 mtpm.
[one (1) month = twenty (20) working days]

Production Cost	=	$(66,300)
Est. Recovered Value: gold	=	177,500
Est. Recovered Silver	=	80,000
Est. Total Recoverable Value	=	$257,700

Monthly repayment of principal and interest (R/T on investment) beginning in the thirteenth (13th) month:

Total monthly (P + I) payments	=	$41,666
Est. payments to landowners	=	10,000
Est. payments-encumbrance	=	10,000
Net amount retained for further production	=	$129,734

TABLE 1 - DUMP TONNAGE AND GRADE ESTIMATES

Total tonnage calculated grades:

300,500 metric tons

	Au g/mt	Au oz/st	Ag g/mt	Ag oz/st
	2.06	0.060	82	2.39
Estimated Recoveries Au X 67% Ag X 46%	1.38	0.040	39	1.13
Value Au = $400/oz Ag = $6.40/oz	$17.75	16.00	8.02	7.23

Value of Recovered Gold	$5,334,762
Value of Recovered Silver	2,410,411
Total sales of metal	7,745,173
Est. total Prod. Costs	(1,992,650)
Estimated Profits	$5,752,523

POTENTIAL OF THE DISTRICT

Another possible ore reserve exists separate and in addition to the ore dumps described in this study. Actual sampling studies of outcrops, pit walls, and underground workings in the district indicate probable ore reserves of over 1,000,000 metric tons. Geological studies of the district estimate the potential to be greater than one (1) million metric tons with grades running three grams of gold and more than 120 grams of silver.

Proposed Income Statement
300 tons per day
6,000 tons per mo.
20 working days
1st month of operation

Net Sales		$154,620
Less Operating expenses:	$66,331	
Selling & delivery expense		
Salaries	6,000	
Other general and admin exp lease, rentals	5,950	
Total operating expense excluding depreciation.	$78,281	
Net operating profit excluding depreciation		76,339
Depreciation (1% of gross plant and equipment $175,955)		1,759
Net operating income		74,580
Less:		
Interest on notes payable	21,662	
Long term debt	20,000	
Earnings before taxes and before recirculation of capital for exploration and development.		$32,918
Net Income for 1st (first) month of operations		$32,918

Proposed Income Statement
300 tons per day
6,000 tons per mo.
20 working days

(After 1st Mo.?)

Net Sales		$154,620
Less Operating expenses:	$66,331	
Selling & delivery expense		
Salaries	6,000	
Other general and admin exp lease, rentals	2,950	
Total operating expense excluding depreciation.	$75,281	
Net operating profit excluding depreciation		79,339
Depreciation (1% of gross plant and equipment $175,955)		1,759
Net operating income		77,580
Less:		
Interest on notes payable	21,662	
Long term debt	20,000	
Earnings before taxes and before recirculation of capital for exploration and development.		$35,918
Net Income for after 2nd and subsequent months of operations until stockpiles are depleted (49 months of operation)		$35,918

SALES

The sales forecasts shown here are based on an ounce of gold selling for $400.00 U.S. dollars and silver selling for $6.40 per ounce. The average grams of gold per ton is 1.38 which yields $17.75. The silver values average 39 grams per metric ton or $8.02. The sum of the gold and silver ($17.75 + $8.02 = $25.77) is then multiplied by 300 which is the daily tonnage produced (300 x $25.77 = $7,731 daily earnings). The daily earnings is then multiplied by the average monthly working days ($7,731 x 20 = $ 154,620).

GENERAL AND ADMIN EXPENSE

Month	1	2	3	4	5	6
Consult. Fees						
Insurance						
Legal & Acct.	200	200	200	200	200	200
Office Supplies	50	50	50	50	50	50
Payroll Taxes						
Rent	100	100	100	100	100	100
Office Salaries	500	500	500	500	500	500
Officer Salaries	6000	6000	6000	6000	6000	6000
Telephone	1000	1000	1000	1000	1000	1000
Travel	1000	1000	1000	1000	1000	1000
Utilities	100	100	100	100	100	100
Start-up Expense (fax, comp, legal)	3000	0	0	0	0	0
TOTAL	11950	8950	8950	8950	8950	8950

OPERATING COSTS

Desc	Qty	Unit/M.	Amt. of Material	Labor	Total
Loader	1	EA	4059		4059
Dozer	1	EA	2370		2370
Aggloader	1	EA	4059		4059
Heapload	1	EA	5214		5214
Truck Haul	10,000	MT	9600		9600
Crushing	10,000	MT	10000		10000
Labor					
Agglom	528	MH		333	333
Leach	792	MH		499	499
Metlrgst	264	MH		396	396
Op.Spvrsn	264	MH		9240	9240
Dsl gen	1	EA	1339		1339
Cyanide	5,000	LB	3300		3300
Lime	50,000	LB	1400		1400
Zinc	1,360	LB	1238		1238
Precoat	3,400	LB	1972		1972
Flux					
Borax	480	LB	202		202
So.nit	500	LB	120		120
SodaAsh	200	LB	54		54
Antiscale	140	LB	140		140
Filter	1	LOT	200		200
Crucibles	1	LOT	300		300
Prof. Eng.	1	EA		3025	3025
L.lease	1	MO	1241		1241
SUBTOTAL			46808	13493	60301
Contingency @10%			4680.8	1349.3	6030.1
TOTALS			51488.8	14842.3	66331.1

Description	EQUIPMENT Quantity	Unit of Measure	CAPITAL Amt. of Material	Labor	COSTS	Total
Agglomerating Conveyor "A"	1	ea			3700	3700
Aglomerating Conveyor "B"	1	ea			4700	4700
Agglom. Cyanide Del. System	1	lot			3700	3700
Agglom. Lime Del. System	1	lot			1500	1500
Agglom. Piping System	1	lot			250	250
Asphalt Pad 20,000 Sq. Ft.	1	lot			41000	41000
Site Preparation					2080	2080
Pond Liners 20,000 Sq. FT.	1	lot	7200			7200
Excavating & Shaping Ponds					500	500
Precip. Plant 300tpd M. Crowe	2	ea			12000	24000
Instrumentation & Lab Equipment	1	lot	6100			6100
Precipitation Build 500 Sq Ft	1	lot			10000	10000
Piping Valves Sprinklers	1	lot	2300			2300
Leach. cyanide Lime make-up Sy	1	lot	1500			1500
Electrical Sys	1	lot	4000			4000
Fencing	1	lot	1200			1200
Well to well piping	1	lot	5100			5100

Furnace, Dore	1	ea	3000			3000
Const. Labor @ $0.63/Hr	960	mh		605		605
Land: 50 acres ($16,550 x 0.25)					4140	4140
Engineering & Procurement	630	mh	35¢/hr		22050	22050
Travel, Local Living Expense Auto Rental Engineering Space, Etc.					4380	4380
Sub Total						153005
15% Contingency						22950.75
TOTAL						175955.8

ARIZONA DEPARTMENT OF WATER RESOURCES

P E R M I T

PERMIT NO. 59-516142 (P)

STATE OF ARIZONA)
) ss.
County of Maricopa)

This is to certify that I have examined the foregoing application and have determined that it meets the requirements of Title 45, Chapter 2, Article 7, Arizona Revised Statutes, for a mineral extraction and metallurgical processing permit. The Department of Water Resources hereby grants a permit to withdraw groundwater for a Mineral Extraction and Metallurgical Processing Use, subject to the following limitations and conditions:

Permittee: A. F. Budge (Mining) Limited, 7340 East Shoeman Lane, Suite 111"B"(E), Scottsdale, Arizona 85251

Active Management Area: Phoenix Subbasin: Hassayampa

Location of the well: Township 6 North, Range 5 West, Section 31, NW¼

Registration No. 55-800940 Depth: 714 feet Diameter: 6 inches

Type of casing: steel

Maximum pumping capacity: 60 gallons per minute

Authorized use of groundwater: a heap leach gold mining operation

Land groundwater will be used upon:

Township 5 North, Range 6 West, Section 1
Township 5 North, Range 5 West, Section 6
Township 6 North, Range 5 West, Section 31
Township 6 North, Range 6 West, Sections 35 and 36

Total amount of groundwater to be withdrawn: 100 acre feet per annum

Duration of permit: From July 5, 1988 to July 5, 1993

Conditions of the permit:

- If during the life of the permit, the Director determines that uncommitted Municipal and Industrial Central Arizona Project water is available or other water or effluent of adequate quality is available at a cost comparable to groundwater, the Director may require the permittee to use such water in lieu of groundwater.

PERMIT NO. 59-516142 (P)

- Groundwater withdrawals under this permit are subject to the management plans for the designated active management area, and the permittee should be aware that the Director maintains continuing jurisdiction and can modify the permit terms as needed to conform to the conservation elements of the management plans.

Witness my hand seal of office this 5th day of July, 1988.

Herb Dishlip

Herb Dishlip, Deputy Director

Diesel consumption for generator at Vulture Mine project (pump)

Month	Number of gallons
January	702
February	702
March	1,005
April	0
May	944
June	2,130
July	880
August	1,005
September	1,131
October	1,852
November	1,107
December	1,854
Totals	13,312
Monthly average	1,109

Wickenburg Pump & Electric Inc.

160 W. CENTER • P.O. BOX 1495
WICKENBURG, ARIZONA 85358

(602) 684-2444

QUALITY • DEPENDABILITY

August 8, 1989

A. F. Budge Mining
4301 N. 75th Street
Suite 101
Scottsdale, AZ.
85251

ATTN: Dale Allen

Dear Dale:

Per your request, following are the stats on the well at the Vulture Mine well site:

Riser Pipe: 2" galvanized
Pump Cable: 500' of 6/3 double jacketed & 190' of 8/3 neoprene
Depth to Water: 430'
Depth to Pump: 690'
Depth to Bottom: unknown

Sounder tube installed

Make/Model of Pump: Berkeley 6AM15 pump end with 20 h.p. Hitachi motor, 460 volt, 3Ø

Testing shows that pumping rate starts at 84 GPM with 203' of water above the pump; after pumping for approximately one (1) hour, the water level drops to 55' of water over the pump and the pumping rate is 60 GPM.

Any further questions, please feel free to contact me.

Respectfully,

Esther

Esther Little
Wickenburg Pump & Elect., I

Week ending	Number of loads	Tons	Estimated Monthly Totals
7-23-88			
7-30-88			0
8-05-88			
8-12-88	54	810	
8-19-88	113	1695	
8-26-88	115	1725	5,418
9-02-88	132	1980	
9-09-88	244	3660	
9-16-88	317	4755	
9-23-88	325	4875	
9-30-88	373	5595	19,677
10-07-88	331	4965	
10-14-88	292	4380	
10-21-88	361	5415	
10-28-88	410	6150	
11-04-88	330	4950	21,900
11-11-88	126	1890	
11-18-88	315	4725	
11-23-88	263	3945	
12-02-88	371	5565	17,859
12-09-88	397	5955	
12-16-88	314	4710	
12-23-88	269	4035	
12-30-88	188	2820	19,746

1988 yearend total 84,600 tons

Multiplying factor 15 tons per load

Week ending	Equipment Hours Blade @$80/hr	Scraper @$80/hr	Loader @$35/hr	Number of loads	Tons	Estimated Monthly Totals
7-23-88						
7-30-88						0
8-05-88						
8-12-88				54	810	
8-19-88				113	1695	
8-26-88	8	30		115	1725	5,418
9-02-88	5	23		132	1980	
9-09-88	14	33		244	3660	
9-16-88	17	38		317	4755	
9-23-88	17	37		325	4875	
9-30-88	18	41		373	5595	19,677
10-07-88	18	35		331	4965	
10-14-88	23	32		292	4380	
10-21-88	19	44		361	5415	
10-28-88	18	44		410	6150	
11-04-88	21	40		330	4950	21,900
11-11-88	25	18		126	1890	
11-18-88	25	40		315	4725	
11-23-88	10	29		263	3945	
12-02-88	15	46		371	5565	17,859
12-09-88	21	48		397	5955	
12-16-88	16	47		314	4710	
12-23-88	10	36		269	4035	
12-30-88	13	27		188	2820	19,746
01-06-89	14	21		28	420	
01-13-89	11	38		300	4500	
01-20-89	10	44		458	6870	
01-27-89	17	28	15	186	2790	
02-03-89	15	49	11	372	5580	16,812
02-10-89	15	26	23	137	2055	
02-17-89	5	0	18	0	0	
02-24-89	31	14	36	0	0	
03-03-89	2	5	52	0	0	5,403
03-10-89	13	0	62	0	0	
03-17-89	30	14	54	49	735	
03-24-89	14	28	35	216	3240	
03-31-89	15	21	37	161	2415	6,390
04-07-89	14	39	46	356	5340	
04-14-89	22	24	29	230	3450	
04-21-89	13	37	32	351	5265	
04-28-89	15	27	39	252	3780	17,835
05-05-89	26	29	35	266	3990	
05-12-89	22	31	32	301	4515	
05-19-89	29	32	23	311	4665	
05-26-89	21	21	24	195	2925	
06-02-89	24	31	32	225	3375	18,120
06-09-89	17	28	35	280	4200	
06-16-89	18	25	38	224	3360	

06-23-89	15	39	40	376	5640	
06-30-89	12	44	45	424	6360	20,910
07-07-89	12	26	20	258	3870	
07-14-89	19	36	16	332	4980	
07-21-89	13	39	14	387	5805	
07-28-89	25	34	16	336	5040	19,754
08-04-89	7	37	10	344	5160	

Total loads to date 12,995

Tonnage 194,925

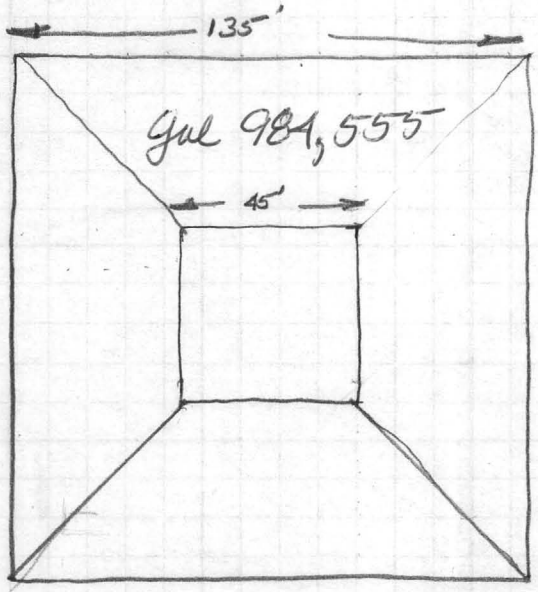
Averages through August 4, 1989

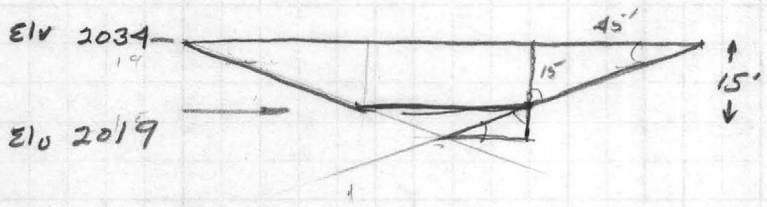
17	31	30	257	3848

Totals through August 4, 1989

829	1555	869	12,995	194,925
Blade hours	Scraper hours	Loader hours	Loads	Tons

Prey Pond





$\frac{1}{3}Bh$

$\frac{(135)(135)(24')}{3} = 145800 \, ft^3$

$\frac{(45)(45)(9)}{3} = 6075 \, ft^3$

$139,725 \, ft^3$

~~99875 ft³~~

~~70% full = 68512.5~~

~~7.48 gal/ft³ = 512,473 gal~~

100% = 1,045,143

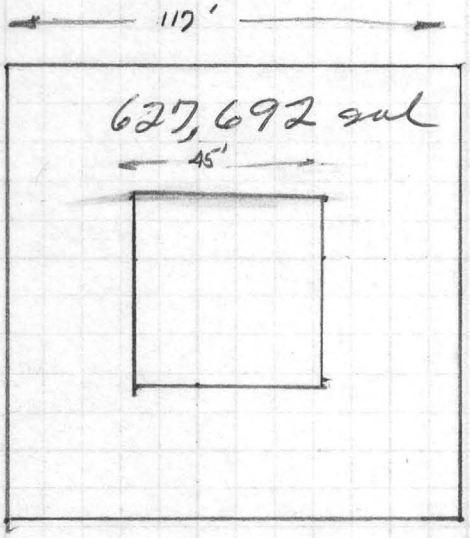
70% = 731,600 gal

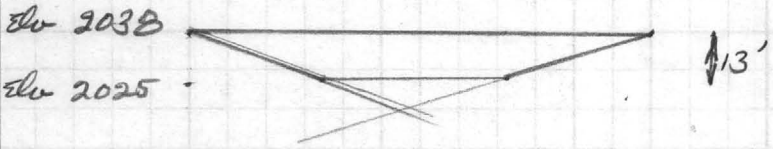
70% 689,189

$\frac{h}{3}\left(\sqrt{\text{area Bot} * \text{area Top}} + \right.$

117
40
2)72 (39
12

Barren Pond





$\frac{(117)(117)(20)}{3} = 91260$

$\frac{(45)(45)(7)}{3} = 4725$

$86,535 \, ft^3$

7.48 gal/ft³

100% – 647,280

70% 453,097

70% (439,384)

total H_2O at start-up

1,184,700 gal

1,128,573

July 19, 1989

RECEIVED JUL 21 1989

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N. W. Plummer
Director

Phoenix Active Management Area
15 South 15th Avenue
Phoenix, Arizona 85007

AF BUDGE MINING LTD.

4301 N. 75TH STREET, STE 101
SCOTTSDALE, AZ 85251

RE: 59-516142.0000

Dear SIR:

The Department of Water Resources has the responsibility of conducting enough audits of documents, records and data concerning groundwater withdrawals, transportation and use to insure general compliance with the Groundwater Code (Chapter 2, Title 45, Arizona Revised Statutes). As part of the general effort to insure compliance, the staff of the Department has selected you as a subject of audit.

The attached Notice of Audit requires that you bring certain documents, data or records to the Department's Phoenix Active Management Area office at 15 South 15th Avenue, Phoenix, Az. for this audit.

If you have any questions regarding this, please contact the individual referenced on the Notice of Audit at (602)542-1512.

Sincerely,

Dennis G. Kimberlin
Chief Field Svcs/Operations

ARIZONA DEPARTMENT OF WATER RESOURCES
NOTICE OF AUDIT

TO: AF BUDGE MINING LTD.

4301 N. 75TH STREET, STE 101
SCOTTSDALE AZ 85251

FROM: ARIZONA DEPARTMENT OF WATER RESOURCES

DATE: July 19, 1989

SUBJECT: Documents, Data and Records of Groundwater Withdrawals, transportation and Use in reference to: 59-516142.0000

YOU ARE HEREBY GIVEN NOTICE that you, or a representative designated by you in writing, are required to appear at 1:00 PM on August 15, 1989 at the Department´s Active Management Area Office at 15 South 15th Avenue, Phoenix, and to bring with you for audit the following documents, data or records relating to your 1988 Annual Water Use and Withdrawal Report:

The following information should reflect calendar year(s) 1988:

X Energy records for each month during the year.

X Water utilization and application records.

X Flow meter and pump specifications.

X Meter readings and all worksheets.

Irrigation District delivery records.

X Additional information regarding groundwater withdrawal and uses:

WATER WITHDRAWAL CALCULATIONS AND METER READINGS FOR WELL NUMBER 55-800940

The purpose of the audit is to determine whether the records and annual reports you are required to keep pursuant to section 45-632, Arizona Revised Statutes, are complete, true and correct.

If you need further information, you may contact the following employee of the Phoenix Active Management Area Office at 542-1512.

TOM HARBOUR
Water Resource Specialist

If you fail to appear for audit at the time stated above, in person or by your representative designated in writing, or if you fail to produce the documents, data or records requested, the Director of the Department may issue an order to show cause why you should not be found in violation of section 45-633(C), Arizona Revised Statutes.

August 16, 1989

AF BUDGE MINING LTD.

4301 N. 75TH STREET, STE 101
SCOTTSDALE, AZ 85251-3504

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N. W. Plummer
Director

Phoenix Active Management Area
15 South 15th Avenue
Phoenix, Arizona 85007

RE: 59-516142.0000

Dear SIR:

It is the Department's policy to send a copy of the Report of Audit to the Groundwater Right holder after a formal audit. We recommend that this report be reviewed for accuracy and retained for future reference. Please find enclosed a copy of the referenced report.

It is important to note that the Report of Audit will indicate whether or not the Phoenix AMA intends to refer your case to our legal staff for enforcement action. Recommendations of this nature may be found in the summary of audit section of the report.

If your case has been referred to the Department's legal staff, please address your inquiries to the legal division at (602) 542-1507.

If you have any specific questions regarding the accuracy of this report or any general questions or comments regarding this matter, contact the Phoenix AMA representative that conducted the audit at (602) 542-1512.

Sincerely,

Frank M. Barrios

Frank M. Barrios
Area Director

REPORT OF AUDIT

Arizona Department Of Water Resources

Person Audited: AF BUDGE MINING LTD.

Right No.:59-516142.0000

Date: 8/15/89 Place: ADWR Phoenix AMA Office

Person(s) appearing at audit (person audited or representative or designated in writing). Dale Allen

Documents, data, or records requested: As indicated in Notice of Audit. Brought

X 1. Energy records for each month during calendar year.
X 2. Water utilization and application records.
X 3. Flow meter and pump specifications.
X 4. Meter readings and all worksheets.
5. Irrigation District water delivery records.
X 6. Additional pertinent information as follows:
WATER WITHDRAWAL CALCULATIONS AND METER READINGS FOR WELL NUMBER 55-800940

Comments on information requested:

Dale Allen, Production Manager for A.F. Budge Mining Limited, appeared for the audit at the scheduled time and provided the records as requested in the Notice of Audit.

SUMMARY OF AUDIT:
The purpse of the audit was to determine if groundwater withdrawn persuant to Mineral Extraction Permit 59-516142 was properly accounted for. The 1988 Annual Water Withdrawal and Use Report for the above referenced permit was submitted without meter readings to substantiate withdrawals from well 55-800940. Mr. Allen stated that water withdrawals were not measured during 1988 and that a water measuring device was not installed on the well until January 1989. The reported withdrawal amount of 37.73 acre feet was estimated by Mr. Allen by estimating the number of days the well was in operation. A letter describing the methods used to estimate the withdrawals was presented by Mr. Allen during the audit. A field inspection will be scheduled to further analyze the well and water

Date: 8/16/89 Auditor: TOM HARBOUR

Report of Audit sent on: 8/18/89 To: AF BUDGE MINING LTD.

4301 N. 75TH STREET, STE 101
SCOTTSDALE AZ 85251

CONTINUATION OF SUMMARY OF AUDIT

distribution system.

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Phoenix Active Management Area
15 South 15th Avenue
Phoenix, Arizona 85007

PHOENIX
AUG 1 2 '30
AR 7

US POSTAGE
$0.35

AF BUDGE MINING LTD.
4301 N. 75th St., Ste 101
Scottsdale, AZ 85251-3504

BUDGE

A.F. Budge (Mining) Limited

P.O. Box 143
Clarkdale, AZ 86324
(602) 634-7712

4301 North 75th Street
Suite 101
Scottsdale, AZ 85251-3504

(602) 945-4630
FAX (602) 949-1737

P.O. Box 20878
Wickenberg, AZ 85358
Mobile (602) 376-9056

October 27, 1988

Arizona Department of Environmental Quality
Office of Water Quality
Compliance Section
2005 North Central Avenue
Phoenix, Arizona 85004

Third Quarter Report
Permit: G-0090-07 Vulture Mine

All information contained in this report to the Department of Environmental Quality is to be considered confidential.

In mid-August, A.F. Budge (mining) Limited commenced operations at the Vulture Mine, 14 miles south of Wickenburg, Maricopa County, Arizona.

Hindered by materials handling problems, it wasn't until the first week of September that 5,000 tons of agglomerated material was under leach using the OreMax drip system.

By September 19, sufficient solution had collected in the pregnant pond to warrant the start-up of the Merrill-Crowe zinc precipitation plant at 20% of design capacity.

The barren pond is being maintained at 2 pounds/ton NaCN with pH above 11.0. Lime is added to the agglomerated material, resulting in a much higher pH (12.0+) in the returning pregnant solution.

Enclosed are reports for September detailing the sampling of the solutions.

The average amount of freshwater added to the leach system from initial start-up in August was approximately 40 g.p.m.

No liquid has been observed in the leak detection system.

Yours very truly,

Dale H. Allen
Production Manager
for A.F. Budge (Mining) Limited

DIRECTORS: A.F. Budge, O.B.E., C.Eng., F.I.C.E., F.I.H.T.; Mrs. J. Budge; 7602 Underwater Lane, Paradise Valley, AZ 85253

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/29/88	barren pond	.05	.001	1.9	11.8	7:00
	leach stream	2.2	.064	0.9	12.3	"
	press feed	2.0	.058			7:40
	press discharge	.3	.009			"
	" "	.2	.006			8:30
	" "	.1	.003			9:30
	" "	.1	.003			11:00
	" "	.1	.003			12:00
	" "	.1	.003			1:15
	" "	.1	.003			2:00
	" "	.1	.003			3:00
9/30/88	barren pond	0.1	.003	1.9	11.8	7:00
	leach stream	2.7	.078	0.8	12.3	
	press feed	2.0	.058	0.8	12.3	
	press discharge	0.1	.003	0.8	12.2	
	" "	0.1	.003	—	—	8:00
	" "	0.1	.003			9:45

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/28/88	press discharge	.8	.024			9:00
	"	.5	.015			9:15
	"	.3	.009			9:30
	"	.4	.012			9:45
	"	.3	.009			10:00
	press feed	1.9	.055	.7	12.0	10:15
	press discharge	.4	.012			"
		.2	.006			10:30
		.4	.012			11:00
		.7	.020			11:30
		.4	.012			12:00
		.4	.012			12:20
		.2	.006			12:30
		.3	.009			12:45
		.2	.006			1:00
		.1	.003			1:35
		.2	.006			2:10
		.2	.006			3:00
		.2	.006			4:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/27/88	discharge	.2	.006			14:00
9/27/88	DISCHARGE	.2	.006			14:30
	"	.3	.009			15:00
	Filter dripping	.9	.026			15:05
	discharge	.5	.015			15:10
	press 2					15:30
	discharge	0.1	.003			15:45
	leach stream	2.0	.058			16:15
	press discharge	0.1	.003			"
9/28/88	leach stream	2.2	.064			7:00
	press feed	2.0	.058			"
	press discharge	.9	.026			"
	barren pond	.1	.003	1.9	11.7	"
	press discharge	.9	.026			7:30
	"	.9	.026			7:45
	"	.8	.023			8:00
	"	.7	.020			8:15
	"	.7	.020			8:30
		.6	.017			8:35
		.5	.015			8:45

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/27/88	discharge	0.3	.009			8:30
	"	0.3	.009			9:00
	"	0.1	.003			9:30
	"	0.1	.003			10:00
	heap leach 1	1.0	.029			10:00
	" " 2	2.0	.058			10:00
	" " 3	1.8	.052			10:00
	discharge	0	0			11:00
	"	.05	.001			12:00
	Zinc + Pb Nitrate stopped at 12:20 PM					
	discharge	.10	.003			12:25
	"	.10	.003			12:30
	"	.10	.003			12:35
	"	.20	.006			12:40
	"	.20	.006			12:45
	"	.20	.006			13:00
	"	.30	.009			13:15
	"	.10	.009			13:30
	press feed	2.0	.058			13:40
	" discharge	.30	.009			

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/26/88	Press discharge	0.6	.017	—	—	9:50
	Press feed	1.7	.049			10:00
	" discharge	0.5	.015			10:00
	" feed	1.7	.049			10:30
	" discharge	0.4	.012			"
	" "	0.4	.012			11:00
	" "	0.3	.009			12:00
	" "	0.2	.005			13:00
	" "	0.2	.005			14:00
	" "	0.2	.005			15:00
	" "	0.2	.005			16:00
	" feed	1.7	.049			17:00
	discharge	0.05	.001			"
9/27/88	barren pond	—	—	2.4	11.7	6:30
	leach stream	1.7	.049	1.2		"
	discharge	.8	.023	0.7	12.0	"
	feed	1.7	.049	—	—	7:15
	discharge	.1	.003	—	—	7:15
	"	1.3	.038	—	—	7:45
	"	0.5	.015	—	—	8:10

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/22/88	press feed	1.4	0.041			2:00
	" discharge	.2	0.005			
	feed	1.4	0.041			3:00
	discharge	.05	0.001			
	feed	1.4	0.041			4:00
	discharge	.09	0.003			
9/23/88	Barren pond	—	—	1.7	11.7	7:00
	leach stream	3.2	0.093	0.7	12.8	"
9/26/88	Barren pond	—	—	1.8	11.4	7:00
	leach stream	3.4	.099	0.7	12.	"
	press feed	1.5	.044	0.9	11.7	"
	press discharge	34	.99	0.9	11.7	"
	" "	1.5	.044	—	—	9:00
	" "	0.8	.023	—	—	9:05
	" "	0.7	.020			9:10
	" "	0.7	.020			9:15
	" "	0.6	.017			9:20
	" "	0.6	0.017			9:30
	" "	0.6	0.017			9:40

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/21/88	press feed	1.4	.041			9:15
	" discharge	.1	.003			"
	press feed	1.4	.041			10:15
	" discharge	.1	.003			"
	press discharge	0.1	—			11:00
	" "	0.1	.003			12:00
	" "	.04	.001			1:00
	" "	.04	.001			2:00
	" "	.15	.004			3:00
	" "	.10	.003			4:00
9/22/88	barren pond	—	—	1.8		7:00
	leach stream	3.3	.096	0.6	12.7	7:00
	press feed	1.3	.038			8:45
	press discharge	.2	.006			"
	press feed	1.3	.038			10:45
	press discharge	.1	.003			"
	feed	1.3	.038			12:00
	discharge	.2	.006			"
	feed	1.6	.041			1:00
	discharge	.1	.003			"

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/19/88	press discharge	.25	.007			3:30 AM
	" "	.20	.006			4:00
9/20	barren pond	—	—	2.4	11.2	7:15
	leach stream	2.5	.073	0.7	11.	"
	press feed	1.25	.036	—	—	8:45
	" discharge	.30	.009	—	—	"
	leach stream	2.7	.078	—	—	9:00
	feed	1.5	.044	—	—	9:45
	discharge	0.2	.006	—	—	"
	feed	1.5	.044			10:30
	discharge	0.3	.009			"
9/21	barren pond	—	—	2.4	11.4	7:00 AM
	leach stream	3.1	0.09			7:15
	press discharg	4.7	0.14			7:25 start up
	"	0.5	0.015			7:30
	press feed	1.4	0.041	0.7	12.0	7:45
	" discharge	.20	.006	0.7	12.0	7:45
	press feed	1.3	.038			8:30
	" discharge	0.2	.006			8:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
9/19/88	stream	2.4	0.070	0.7	12.1	7:30 AM
	preg. pond	1.3	0.038	0.5	11.6	"
	barren pond	—	—	1.8	11.1	"
	discharge	0.8	0.023	—	—	"
	press feed	1.3	0.038			8:45
	press discharge	0.4	0.012			"
	press feed	1.4	.041	0.5	11.6	9:15
	press discharge	0.4	.012	0.5	11.6	"
	feed	1.3	.040			9:45
	discharge	0.4	.012			9:45
	feed	1.3	.038			10:30
	discharge	0.5	.015			"
	FEED	1.25	.036			
	~~DISCHARGE~~	.7	.020			
	Discharge	.25	.007			11.30
	"	.30	.009			12:15
	"	.17	.005			12:45
	GT - 16	.30	.017			hot leach
	Discharge	.18	.005			1:15
	"	.30	.009			2:00
	"	.05	.001			3:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

BUDGE

A.F. Budge (Mining) Limited

4301 North 75th Street
Suite 101
Scottsdale, AZ 85251-3504

(602) 945-4630
FAX (602) 949-1737

August 15, 1989

Mr. Dennis G. Kimberlin
Chief Field Services/Operations
Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007

RE: 59-516142.0000

Dear Mr. Kimberlin:

With regard to the above-referenced groundwater permit, please be advised that during the first and second quarter of 1988 the groundwater withdrawal was almost entirely used for a single-family dwelling occupied by our watchman and his wife. However, in the latter part of May and in June during the early part of construction, the water withdrawal increased.

In the third quarter, the heaviest consumption of water was in July during the pad preparation, the pump ran continuously for approximately 28 days. In August and September we filled the ponds, agglomerated and started the plant. Our consumption for the third quarter was approximately 40 gallons/minute average or 16.0 acre feet. [See Calculations Appendix "A"].

During the fourth quarter, our water consumption was approximately 20 gallons/minute or 8 acre feet. [See Calculations Appendix "B"].

Our permit allows us to draw 100 acre feet of water from Well No. 55-800940 in one year, which is also approximately the maximum amount that can be expected from our present pump running at 100 percent. At the present time, we do not foresee using the full allocation.

If you should have any further questions, please don't hesitate to give me a call.

Sincerely,

Dale H. Allen
Production Manager

DHA/vaa
Attachments

Calculations Appendix "A"

Water withdrawal for 3rd quarter	Gallons
July:	
Ran 28 days, 24 hrs/day, 60 gals/min (full pump capacity)	2,419,200
August/September:	
Filled pregnant and barren ponds 70% capacity for initial start-up	
Pregnant pond = 731,600 gals Barren pond = 453,097 gals	1,184,700
Agglomeration - 25,095 tons @ 12% moisture	
.88X = 25,095 = 28,517 tons	
- 25,095 tons 3,422 tons H2O	
1 gal H2O = 8.3 lbs or	824,578
Leach - saturate heap to 18% moisture 5,000 ton before return of solution	
.94X = 5,000 tons = 5,320 ton	
- 5,000 ton 320 ton H2O	77,108
Watering roads - two (5,000) gallon loads/day - 45 days	450,000
Domestic use - 800 gals/wk for 9 wks	7,200
TOTAL	2,543,586
10% evaporation	254,359
TOTAL GALLONS FOR QUARTER	5,217,145

Total Acre Feet/Quarter - 5,217,145/325,851 = 16.01 acre ft
or
Gallons/minute in quarter (91 days) -
5,217,145/(91 days)(24 hrs)(60 min) 39.8 gallons/min.

Calculations Appendix "A"

Water withdrawal for 3rd quarter	Gallons
July:	
Ran 28 days, 24 hrs/day, 60 gals/min (full pump capacity)	2,419,200
August/September:	
Filled pregnant and barren ponds 70% capacity for initial start-up	
Pregnant pond = 731,600 gals Barren pond = 453,097 gals	1,184,700
Agglomeration - 25,095 tons @ 12% moisture	
.88X = 25,095 = 28,517 tons	
- 25,095 tons 3,422 tons H2O	
1 gal H2O = 8.3 lbs or	824,578
Leach - saturate heap to 18% moisture 5,000 ton before return of solution	
.94X = 5,000 tons = 5,320 ton	
- 5,000 ton 320 ton H2O	77,108
Watering roads - two (5,000) gallon loads/day - 45 days	450,000
Domestic use - 800 gals/wk for 9 wks	7,200
TOTAL	2,543,586
10% evaporation	254,359
TOTAL GALLONS FOR QUARTER	5,217,145

Total Acre Feet/Quarter - 5,217,145/325,851 = 16.01 acre ft
or
Gallons/minute in quarter (91 days) -
5,217,145/(91 days)(24 hrs)(60 min) 39.8 gallons/min.

Calculations Appendix "B"

Water withdrawal for 4th quarter	Gallons
October/November/December:	
Agglomeration - 59,505 tons @ 12% moisture	
.88X = 59,505 = 67,619 tons	
- 58,505	
8,144 tons H2O	
1 gal H2O = 8.3 lbs or	1,955,180
Additional tons under leach (Sept/October) to saturate heap to 18% moisture	
.94X = 41,577 = 44,230	
- 41,577	
2,653 tons H2O or	639,277
Watering roads - 5,000 gals/wk for 13 wks	65,000
Domestic Use - 800 gals/wk for 13 wks	10,400
TOTAL FOR QUARTER	2,669,857

Total Acre Feet/Quarter - 2,669,857/325,851 = 8.2 acre ft
or
Gallons/minute in quarter (92 days) -
2,669,857/92(24)(60) = 20.15 gallons/min.

BUDGE

A.F. Budge (Mining) Limited

4301 North 75th Street
Suite 101
Scottsdale, AZ 85251-3504

(602) 945-4630
FAX (602) 949-1737

January 13, 1989

Arizona Department of Environmental Quality
Office of Water Quality
Compliance Section
2005 North Central Avenue
Phoenix, AZ 85004

Fourth Quarter Report
Permit: G-0090-07 Vulture Mine

All information contained in this report to the Department of Environmental Quality is to be considered confidential.

At the end of the fourth quarter of 1988, 60,000 tons of agglomerated material were under leach. This represents approximately 25% of our expected tonnage to be treated on the heap. The Merrill-Crowe Zinc Precipitation plant is operating at 50% of design capacity.

The barren pond is maintained at 1 pound NaCN per ton of solution; pH, above 11.0.

Enclosed are our daily report sheets detailing the results of solution sampling.

The average amount of freshwater added to the leach system during the fourth quarter was 20 g.p.m.

No solution was observed in the leak detection system.

Respectfully submitted,

Dale A. Allen
Production Manager
for A.F. Budge (Mining) Limited

DIRECTORS: A.F. Budge, O.B.E., C.Eng., F.I.C.E., F.I.H.T.; Mrs J. Budge; 7602 Clearwater Parkway, Paradise Valley, AZ 85253

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/30/88	Preg pond	0.2	.006	1.4	12.1	
	Feed	2.8	.081	0.7	12.7	
	Discharge	1.0	.030			17:00
	"	1.4				17:15
		1.3				17:30
1-1-89	DISCHARGE	1.3	.04			10:30
	"	0.0	<.001			11:30
	"	.2				12:30
	"	.0	<.001			1330
	"	.0	<.001			1430
	"	.0	<.001			1530
	"	.0	<.001			1630
	"	.0	<.001			1730
	"	.0	<.001			1830
	"	.0	<.001			1930
	"	0.1741	.060			2030
	"	.0	<.001			2130
	"	.0	<.001			2230
						2330
1-2-89						0030
						0130

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/29/88	Discharge		<.001			16:35
	"		<.001			17:00
	"	.0	<.001			18:00
	"	.02	.001			19:00
	"	.0	<.001			20:00
	"	.0	<.001			21:00
	"	.0	<.001			22:00
12/30/88	Discharge	1.90	.055			10:20
	"	2.0	.058			10:30
	"	1.2	.035			10:45
	Stream	2.0	.058			~~11:00~~
	Discharge	0.7	.020			11:00
		0.4	.012			11:15
		0.2	.006			11:35
		0.3	.009			12:00
		0.27	.008			12:30
		0.15	.004			13:00
			<.001			13:30
			<.001			14:00
		.10	.003			14:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/28/88	Discharge	.03	<.001			15:00
		Ø	<.001			15:30
			<.001			16:05
			<.001			16:30
12/29/88	stream	2.0	.058			
	discharge		<.001			11:35
	"		<.001			11:55
	"	.10	.003			
	feed	3.0	.087			
	discharge	0.3	.009			13:00
	"	0.6	.017			13:20
		0.3	.009			13:30
		0.5	.015			13:45
		0.4	.012			14:00
		0.2	.006			14:20
		0.2	.006			14:40
		0.1	.003			15:05
		0.15	.004			15:20
		0.08	.002			15:40
			<.001			16:05

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/23/88	Discharge	<.001	<.001			7:45
			<.001			8:20
			<.001			9:25
	Barren pond	0.2	.006	1.2	11.8	
	feed	2.8	.081	0.5	12.1	
	leach stream	2.5	.073			
	Discharge	0.2	.006			10:30
			<.001			10:55
			<.001			12:20
12-27-88	BARREN POND	.14		1.3	12.2	
	PREG POND	2.61		.076		
	LEACH STREAM	2.25				
	DISCHARGE					
12/28/88	Discharge	0.7	.020			12:30
		0.5	.015			13:00
		0.2	.006			13:15
		0.1	.003			13:30
		0.16	.005			13:50
		0.3	.009			14:15
		<.	<.001			14:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/21/88	discharge	0.4	.012			13:00
		0.4	.012			14:00
		0.35	.010			14:20
		0.16	.005			14:35
		0.30	<.001			15:00
			<.001			15:20
		.10	.003			16:00
12/22/88	Discharge	2.0	.058			9:35
		.8	.023			9:50
		.7	.016			10:05
		.1	.003			10:25
			<.001			11:25
		.2	.006			11:45
		ø	<.001			12:15
		.15	.004			12:30
		.90	.026			13:00
		.40	.012			13:20
		.05	.001			13:45
			<.001			13:15
			<.001			13:50

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/20/88	leach stream	2.9	.084			
	discharge	0.9	.026			12:00
	"	0.5	.015			12:15
	"	0.8	.023			12:40
	feed	2.8	.081			
	discharge	.5	.015			13:00
	"	.2	.006			13:25
12/21/88	discharge	0.5	.015			9:00
		0.35	.010			9:15
		0.20	.006			9:30
		0.10	.003			9:45
		0.20	.006			10:20
		0.20	.006			10:45
		0.10	.003			11:00
		0.05	.0015			11:30
	barren pond	.03	<.001	1.1	11.0	
	preg. (feed) soln	2.8	.081	0.5	11.9	
	leach stream	2.0	.058			
	discharge	.10	.003	1.3	11.9	12:10
	"	.03	<.001			12:35

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/12/88	DISCHARGE	2.4	.070			9:15
	"	1.4	.041			9:30
	"					10:00
	leach stream	3.0	.087			
	feed	2.6	.075			
	discharge	2.6				10:00
	"	1.2	.035			10:15
	"	2.6	.075			10:30
	"	2.4	.075			10:45
	"	2.5				11:00
	"	2.6	.075			11.15
	"	.04	.001			1:15
	"	.70	.020			1:30
	"	1.3	.038			1:45
	"	1.2	.035			2:00
	"	0.7	.020			2:30
	"	0.25	.007			2:45
	"	0.15	.004			3:00
	"		<.001			3:15
	"	2.6	.075			3:50
	"	2.1	.061			4:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/16/88	leach stream	2.8				
	barren pond	0.2	.006	0.9	11.9	
	feed soln					
	discharge soln.	.18	.005			11:00
	" "	.07	.002			11:30
	" "	.18	.005			12:00
	" "		<.001			12:30
12/19/88	discharge	.20	.006			9:00
	"	.05	.001			9:30
	feed	2.8	.081			
	discharge		<.001			10:00
			<.001			10:30
		.1	.003			11:00
		.12	.003			11.30
	leach stream	3.0	.087			11:30
	discharge	.30	.009			11:50
	"	.45	.013			12:10
	"		<.001			12:30
	"	.0	<.001			13:30
	"	.05	.001			14:20
			<.001			15:05

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/15/88	Discharge		<.001			9:15
	"		<.001			9:30
	Feed	2.8		.5	12.1	
	leach stream	2.9				
	barren pond	.45		.9	11.9	
	DISCHARGE		<.001			11:00
	"		<.001			11:45
	"		<.001			12:30
	"	0.1	.003			1:00
	"		<.001			1:30
	"	.04	.001			2:00
	"	.05	.001			2:30
	"	.09	.003			3:00
	"	.13	.004			3:40
	"	.04	<.001			4:10
	"	.12	.0035			4:40
	"	.22	.006			5:10
	"	.15	.004			6:00
	"	.22	.006			6:45
	"	.21	.006			7:45

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/13/88	DISCHARGE	0.50	.015			4:15
	"		<.001			4:30
	"		<.001			5:00
12/14/88	Discharge	2.60	.075			8:00
	"	2.00	.058			8:10
	Barren pond	0.4	.012	0.9	11.9	
	leach stream	2.9	.084	[illegible]		
	Feed	2.8	.081	0.5	12.1	
	Discharge	1.8	.052			8:20
	"	2.3				8:30
	"	1.4	.041			9:00
	"	0.6	.017			9:15
	"	0.9	.026			9:25
	"	2.3	.067			9:35
	"	2.4	.070			9:45
	"	1.6	.046			9:55
	"	1.9	.055			10:10
	"	1.3	.038			10:20
	"	1.8	.052			10:30
	"	2.2				

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/14/88	Discharge	1.7	.049			10:50
		4.4	.128			11:00
		2.6				12:15
		0.1	.003			12:25
		0.1	.003			12:45
		~~.06~~	<.001			13:00
			<.001			13:30
		.8	.023			13:45
		1.1	.032			14:00
		.8	.023			14:15
		.7	.020			14:30
		.9	.026			14:45
		1.3	.034			15:05
		1.8	.052			15:20
		1.7	.049			15:30
		1.7				15:40

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/8/88	press discharge		<.001	—	—	7:30
	press feed	2.5	.073	0.5	11.9	8:00
	leach stream	3.2	.093	—	—	
	barren pond	.25	.007	1.1	11.8	
	press discharge		<.001	1.0	12.2	8:45
	" "		<.001	—	—	9:45
	" "		<.001	—	—	10:45
	" "		<.001	—	—	11:45
	" "		<.001	—	—	12:45
	" "		<.001	—	—	1:45
	" "		<.001	—	—	2:45
12/9/88	press discharge	0.1	.003	—	—	7:40
	" "		<.001	—	—	8:15
	leach stream	3.0	.087	—	—	
	press feed	2.6	.075	0.5	12.0	
	barren pond	0.15	.004	1.1	12.0	
	press discharge		<.001	0.9	12.5	9:15
	" "	.08	.002	—	—	10:15
	" "		<.001	—	—	10:45
	" "		<.001			11:40

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/7/88	press discharge	∅	<.001			8:15
	" "	∅	<.001	0.9	11.9	8:45
	barren pond	0.3	.009	1.1	11.5	
	stream	3.3	.096			
	press feed	2.5	.073	0.5	11.95	
	Heap 1	NO	SOLN.			
	Heap 2	1.5	.044			
	Heap 3	1.8	.052			
	Heap 4	4.8	.139			
	discharge		<.001	0.8	12.2	10:00
	"		<.001			10:45
	"		<.001			11:45
	"		<.001			12:45
	"		<.001			1:45
	"		<.001			3:00
	"		<.001			4:15

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/9/88	White Pile	x 2 .08	.005			
	lower leach area		<.001			
	" " "		<.001			
	upper leach area	.80	.046			
	press discharge	.00	<.001			1:15
	Ress dscharge	.00				2:15
	"	.0	<.001			3:15
	"	.0	<.001			4:15
		.0	<.001			4:45
12-11-88	PRESS DISCHARGE	1.60	.05			9:45
	"	.65	.02			10:00
	"	.13	.004			10:15
	"	.10	.003			10:30
	"	.03	.001			10:45
	"	.02	.001			11:00
	"	.03	.001			12:00
	"	.0	<.001			1:00
		.0	<.001			2:00
		.0	<.001			3:00
		.0	<.001			4:00

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/5/88	barren pond	.35	.010	1.2	11.8	10:30
	press feed	2.2	.064	0.5	12.0	"
	leach stream	3.3	.096			"
	discharge	1.4	.041			10:45
	"	1.6	.046			11:00
	"	1.5	.043			11:15
	"	1.5	.043			11:30
	"	1.5	.043			11:45
	"	1.4	.041			12:00
	"	1.4	.041			12:30
	"	1.4	.041			12:45
	"	0.1	.003			1:00
	"	0	<.001			1:15
	"	0	<.001			1:45
	"	.15	.004			2:15
	"	0	<.001			2:45
	"	0	<.001			3:15
	"	0	<.001			3:45
	"	0	<.001			4:30
	"	0	<.001			6:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/6/88	press discharge	.6	.017			7:55
	" "	.5	.015			8:15
	" "	.5				8:30
	barren pond	.37	.011	1.2	11.8	
	press feed	2.5	.073	0.5	12.0	
	leach stream	3.1	.090			
	discharge	.2	.006			8:45
	"	Ø	<.001			9:05
	"	Ø	<.001	0.7	12.2	9:35
	"	Ø	<.001			10.05
	"	Ø	<.001			10:35
	"	Ø	<.001			11:05
	"	Ø	<.001			11:35
	"	Ø	<.001			12:05
	"	Ø	<.001			12:35
	"	Ø	<.001			1:25
	"	Ø	<.001			2:05
	"	Ø	<.001			2:35
	"	.08	.002			3:10
	"	Ø	<.001			3:35

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12 DEC 88	PRESS DISCHARGE	1.03	.03			0730
	"	.95	.03			0745
	BARREN POND	.10	.003	1.6	12.54	
	PREG POND	2.58	.08	.3	12.44	
	LEACH STREAM	2.84		.5	12.14	
	PRESS DISCHARGE	.17				0800
		.01	.002			0815
		.2	.006			0930
		.0	.00			12:50
		.0	.00			1:00
		.0	.00			1:15
		.12	.003			1:30
		.25	.007			2:00
		.60	.017			

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12/1/80	press discharge	0.9	.026			1:45
	" "	0.7	.020			2:00
	" "	0.6	.017			2:15
	" "	0.6	.017			2:30
	" "	0.6	.017			2:45
	" "	0.6	.017			3:00
	" "	0.5	.015			3:15
	" "	0.6	.017			3:30
	" "	0.5	.015			3:45
	" "	0.35	.010			4:00
	" "	0.20	.006			4:15
	" "	0.13	.004			4:30
	" "	0.03	<.001			4:45
	" "	Ø	<.001			5:00
	" "	Ø	<.001			5:15
	" "	Ø	<.001			5:30
	" "	Ø	<.001			5:45

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/30/88	Press discharge	0.7	.020			12:00
	" "	0.8	.023			12:15
	" "	1.5	.044			12:30
12/1/88	Discharge	1.4				9:30
	"	1.2				9:45
	"	Ø	<.001			10:00
	"	Ø	<.001			10:15
	barren pond	0.4	.012	1.0	11.9	10:30
	press feed	2.4	.070	0.5	12.0	"
	discharge	.8	.023			11:15
	"	.7	.020			11:30
	"	.7	.020			11:45
	"	.9	.026			12:00
	"	.75	.022			12:15
	leach stream	4.4	.128			~~12:30~~
	press discharge	.60	.017			12:30
		.70	.020			12:45
		.70	.020			1:00
		.70	.020			1:15
		.70	.020			1:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/30/88	barren pond	0.3	.009			7:45
	leach stream	3.4	.099			"
	press feed	2.2	.064			"
	press discharge	1.50	.044			"
	" "	1.30	.038			8:00
	" "	1.30	.038			8:20
	" "	1.30	.038			8:35
	" "	1.30	.038			8:50
	" "	1.30	.038			9:10
	" "	1.30	.038			9:30
	" "	1.50	.044			9:45
	" "	1.30	.038			10:00
	" "	1.20	.035			10:10
	" "	1.10	.032			10:20
	" "	1.10	.032			10:30
	" "	1.20	.035			10:40
	" "	1.20	.035			10:55
	" "	1.15	.033			11:05
	" "	1.10	.032			11:20
	" "	1.0	.029			11:35
	" "	0.9	.026			11:45

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/29/88	barren pond	.23	.007	1.1	12.3	8:20
	press feed	1.90	.055	0.5	12.2	"
	press discharge	1.50	.044			9:30
	" "	1.50	.044			10:00
	" "	1.40	.041			10:15
	" "	1.30	.038			10:30
	" "	1.00	.029			10.45
	" "	0.50	.015			11:00
	" "	0.22	.006			11:15
	" "	0.30	.009			11:30
	" "	0.20	.006			12.00
	" "	0.10	.003			12:30
	" "	0.13	.004			1:00
	" "	0.05	.001			1:30
	" "	0.05	.001			2:00
	" "	0	<.001			3:00
	" "	0	<.001			4:00
	" "	.20	.006			5:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/28/88	press discharge	0.1	.003			2:15
	" "	.28	.008			2:30
	" "	.05	.001			2:45
	" "	0	<.001			3:00
	" "	0	<.001			3:15
	" "	0	<.001			3:45
	" "	0.8	.023			4:15
	" "	0.7	.020			4:30
	" "	0.5	.015			4:45
	" "	0.45	.013			5:00
	" "	0.37	.011			5:15
	" "	0.20	.006			5:50
	" "	0.28	.006			6:30
	" "	0.20	.006			7:30
11/29/88	leach stream	3.2	.093			7:45
	press feed	1.9	.055			8:00
	press discharge	1.3	.038			"
	" "	1.3	.038			8:20
	" "	1.5	.044			8:40
	" "	1.4	.041			9:10

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
12-23-88	DISCHARGE	.13	.003	–	–	1:30
	"	.20	.005	–	–	1:45
11/28/88	leach stream	3.8	0.110			9:00
	barren pond	0.1	.003	1.2	12.0	10:20
	Heap 1	1.3	.038			
	" 2	2.1	.061			
	" 3	1.5	.044			
	" 4	7.4	.215			
	press feed	1.9	.055			11:30
	press discharge	1.8	.052			"
	" "	1.7	.049			11:45
	" "	1.7	.049			12:00
	" "	1.7	.049			12:15
	" "	1.7	.049			12:30
	" "	1.7	.049			12:45
	" "	1.7	.049			1:00
	" "	0.9	.023			1:15
	" "	0	<.001			1:30
	" "	0.9	.023			1:45
	" "	0.26	.008			2:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/22/88	barren pond	0.3	.009	1.5	12.1	7:15
	press feed	1.9	.055	ø	ø	7:45
	press discharge	ø	<.001	ø	ø	"
		ø	<.001			8:45
	"	ø	<.001			9.45
	"	ø	<.001	-	-	10.45
	"	ø	<.001	-	-	11.45
	"	.26	.007	-	-	12:45
	"	.30	.009			1:45
	"	.23	.007			2:45
	"	.02	<.001	-	-	3:45
	"	.03	.001	-	-	4:15
11-23-88	BARRON POND	.3	.009	1.5	12.15	0730
	PRESS FEED	1.91	.06			0730
	STREAM	1.62	.05	.8	12.92	"
	PRESS DISCHARGE	.13	.004	-	-	"
	"	.09	.002	-	-	0830
	"	.07	.002	-	-	0930
	"	ø	<.001	-	-	1030
	"	0	<.001	-	-	1130
	"	.03	<.001	-	-	12:30

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/21/88	press discharge	0.9	.026			7:45
	press feed	2.0	.058	0.5	12.1	"
	press discharge	0.8	.023			8:00
	barren pond	0.3	.009	1.2	12.0	8:00
	press discharge	0.5	.015			8:15
	" "	Ø	<.001			8:45
	" "	Ø	<.001			9:45
	" "	.20	.006			10:45
	" "	Ø	<.001			11:15
	" "	Ø	<.001			12:15
	" "	.15	.004			1:15
	" "	.35	.010			1:45
	" "	.20	.006			2:15
	" "	Ø	<.001			2:45
	" "	Ø	<.001			3:15
	" "	Ø	<.001			4:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/19/88	press discharge	.002	<.001			2:30
	" "	ø	<.001			3:30
	" "	ø	<.001			4:30
	" "	ø	<.001			5:00
11/20/88	press feed	2.0	.058			8:00
	press discharge	ø	<.001			9:00
	" "	ø	<.001			10:00
	" "	ø	<.001			11:00
	" "	ø	<.001			12:00
	" "	ø	<.001			1:00
	" "	ø	<.001			2:00
	" "	ø	<.001			3:00
	" "	ø	<.001			4:00
	" "	ø	<.001			5:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/18/88	barren pond	0.55	.016	1.4	12.3	9:00
	press feed	2.0	.058	0.5	12.	9:00
	press discharge	Ø	<.001			9:00
	" "	Ø	<.001			10:00
	" "	Ø	<.001			11:00
	" "	Ø	<.001			NOON
	" "	Ø	<.001			1:00
	" "	Ø	<.001			2:00
	" "	Ø	<.001			3:00
	" "	Ø	<.001			4:00
	" "	Ø	<.001			5:00
11/19/88	press discharge	.03	<.001			8:15
		.Ø	<.001			8:45
	barren pond	0.3	.009	0.9	11.9	8:45
	press feed	2.2	.064	0.5	12.2	8:45
	press discharge	0.2	.006			10:30
	" "	0.08	.002			11:00
	" "	.05	.001			11:30
		.10	.003			12:30
		.03	<.001			1:30

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/16/88	press discharge	0.1	.003			11:00
	" "	0.03	<.001			11:30
	" "	0.03	<.001			12:00
	" "	0	<.001			12:30
	" "	0	<.001			1:00
	" "	0	<.001			1:30
11/17/88	press feed	2.1	.061	0.5	12.1	9:15
	press discharge	1.1	.032	—	—	"
	leach stream	1.4	.041	—	—	"
	press discharge	1.0	.029	—	—	9:45
	barren pond	0.5	.015	1.0	12.2	10:00
	press discharge	0.5	.015	—	—	10:15
	" "	0.2	.006			10:45
	" "	0.05	.001			11.30
	" "	Ø	<.001			12:00
	" "	Ø	<.001			2:00
	" "	0.14	.004			3:30
	" "	0.24	.007			4:30
	" "	0.40				5:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/15/88	barren pond	0.4	.012	1.2	11.9	7:00
	leach stream	1.3	.038	0.6	12.2	7:00
	press feed	2.2	.064			10:30
	press discharge	1.5	.044			"
	" "	1.2	.035			11:00
	" "	0.5	.015			11:30
	" "	0.15	.004			12:00
	" "	0.03	<.001			12:30
	" "	Ø	<.001			1:00
	" "	Ø	<.001			2:00
	" "	.3	.009			3:30
	" "	.7	.020			4:15
	" "	.6	.017			4:30
	" "	.05	.001			5:45
11/16/88	barren pond	0.4	.012	1.0	12.1	8:00
	press feed	2.2	.064	0.5	11.8	9.00
	press discharge	1.1	.032			"
	" "	0.8	.023			9:30
	" "	0.5	.015			10:00
	" "	0.16	.005			10:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/11/88	press discharge	0.6	.017			11:00
	" "	0.13	.004			11:30
	" "	0.20	.006			12:00
	" "	0.08	.002			12:30
11/14/88	barren pond	0.4	.012	1.0	11.9	7:00
	leach stream	1.3	.038	0.5	12.2	"
	press discharge	1.5	.044			11.00
	press feed	2.2	.064			11.00
	press discharge	1.5	.044			11:15
	" "	1.5	.044			11:30
	" "	0.3	.009			12.00
	" "	0.2	.006			12:30
	" "	0.2	.006			1:00
	" "	0.13	.004			1:30
	" "	0.04	.001			2:15
		0.16	.005			3:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/10/88	discharge	0.6	.017			10:15
	"	0.4	.012			10:30
	"	0.4	.012			10:45
	"	0.4	.012			11:00
	"	0.2	.006			11:15
	"	0.2	.006			11:45
	"	0.15	.004			12:25
	"	0.05	.001			1:00
	"	0.02	<.001			2.00
	"	.05	.001			3:00
	"	.07	.002			4:00
	"	.05	.001			4:30
11/10/88	press discharge	1.90	.055			7:45
		1.50	.044			8:00
		1.50	.044			8:15
		0.2	.006			8:30
		0.1	.003			9:00
		0.1	.003			9:30
	barren pond	0.3		0.9	11.6	9:45
	press feed	2.4		0.5	12.1	"

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/9/88	discharge	.13	.004			2:35
	"	.20	.006			3:00
	"	∅	<.001			3:20
	"	1.0	.029			4:00
	"	.9	.026			4:15
	"	.9	.026			4:30
	"	.8	.023			4:45
	"	.8	.023			5:00
	"	.6	.017			5:15
	"	.6	.017			5:30
	"	1.20				7:30
11/9/88	barren pond	0.4	.012		1.0	11.2
	leach stream	1.8	.052		0.6	12.0
	barren pond	Cu 50	Cu .050 g/l			
	"	Ag 2.8	Ag .081			
	"	Pb .2	Pb .002 g/l			
	"	Zn 13	Zn .013 g/l			
	discharge	2.0	.058			12:30
	"	.6	.017			1:00
	"	.2	.006			

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/9/88	discharge	0.1	.003			2:00
	press feed	2.4	.070			2:30
	press discharge	.05	.001			2:30
	" "	0	<.001			3:00
	" "	.05	.001			3:30
	" "	.01	<.001			4:00
	" "	.01	<.001			4:30
11/10/88	barren pond	0.3	.009	1.0	11.6	7:15
	leach stream	1.3	.038	0.6	12.3	
	press feed	2.2	.064	0.6	12.2	
	press discharge	.03	<.001	0.6	12.2	7:30
	" "	0	<.001			8:00
	" "	0	<.001			8:30
	press feed	Ag 15	Ag 0.44			
	" discharge	∅	<.001			
	press feed	Pb 19	Pb .019 g/l			
	" discharge	0.6	.006 g/l			
	" feed	Cu 180	Cu .180 g/l			
	" discharge	172	.172 g/l			
	" feed	Zn 14	Zn .014 g/l			
	" discharge	68	.068 g/l			

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11/7/88	barren pond	0.1	.003	0.4	10.4	
	stream	1.9	.055	0.5	11.9	
	discharge	0.8	.023			8:05
		1.2	.035			8:35
		1.5	.044			8:45
		1.4	.041			9:00
		1.6	.046			9:15
	stream	Ag 13.0	Ag 0.38			
		Pb 45	Pb .045 g/l			
		Cu 230	Cu .23 g/l			
		Zn 9.5	Zn .010 g/l			
11/8/88	barren pond	0.3	.009	1.2	11.0	7:00
	leach stream	1.8	.052	0.5	12.0	7:00
	discharge	1.4	.041			1:00
	"	1.7	.049			1:10
	"	0.5	.015			1:20
	"	0.7	.020			1:30
	"	0.2	.006			1:40
	"	0.3	.009			1:50
	"	0.1	.003			2:15

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
11-1-88	BARREN POND	.02	.001	.6	10.68	0800
	PREG POND	3.01	.087	.6	12.71	"
	LEACH STREAM	3.20	.092	.5	12.47	"
	PRESS DISCHARGE	1.54	.045	-	-	0830
	"	0.12	.032	-	-	0930
		.90	.026	-	-	1030
		[illegible]	[illegible]			
		[illegible]	.17			
11-2-88	BARREN POND	.10	.003	2.0	11.28	0730
	PREG POND	2.40	.07	.8	12.15	
	LEACH STREAM	2.12	.06	.7	12.38	
	PRESS DISCHARGE	.38	.01			
11-3-88	BARREN POND	.19	.005	1.8	11.57	
	PREG POND	2.82	.08	.7	12.42	
	LEACH STREAM	2.35	.07	.8	12.67	

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10-28-88	BARREN POND	.10	.003	.7	11.87	0730
	PREG POND	2.71	.08	.6	12.38	"
	LEACH STREAM	2.05	.06	.6	12.53	"
	PRESS DISCHARGE	.9	.03			"
	"	1.2	.04			
	"	1.14	.03			
	"	.74	.02			
	"	.52	.02			
	"	.32	.01			
	"	.40	.02			
	"	.35	.01			
	"	.25	.01			
	"	.00	.00			
	"	.00	.00			
	"	.30	.01			
10-31-88	BARREN POND	.15	.004	.5	10.93	
	PREG POND	2.86	.082	.7	12.33	
	STREEM	3.38	.098	.5	12.52	
	DISCHARGE	.9	.03			
		.68				

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/25/88	barren pond	—	—	1.1	11.4	7:00
	leach stream	2.8	.081	0.6	12.2	"
		3.1	.090	—	—	9:15
			.20 g/t Cu			
			.13 g/t Pb			
			.02 g/t Zn			
	press discharge	.7	.020			1:30
	" "	.2	.006			2:00
	" "	.05	.001			2:15
	" "	.03	<.001			3:00
	" "	0	<.001			4:00
	" "	0	<.001			4:30
	" "	0	<.001			5:00
	leach stream	3.0	.087			5:00
10/26/88	barren pond	—	—	1.0	11.6	
	leach stream	3.0	.087	.6	12.2	
	PRESS DISCHARGE	6.3	.183			1330
	"	3.8	.11			
	"	5.7	.17			
	"	.35	.010			

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10-26-88	DISCHARGE (PRESS)	.24	.007			1515
	"	.50	.015			
	"	.35	.010			
		.20	.006			
		.24	.007			
		.30	.008			
10-27-88	BARREN POND	.08	.002	.8	11.66	0800
	PREG POND	2.95	.09	.6	12.10	"
	LEACH STREEM	2.68	.08	.6	12.36	"
	PRESS FEED	2.95	.09			"
	PRESS DISCHARGE	.01	.000			"
	Ag SAMPLES					0830
	STREEM	7.6	.22			"
	PREG POND	7.5	.22			"
	PRESS DIS.	.31	.009			"
	"	.01	.000			0845
	"	.05	.001			0945
	"	.02	.001			1045
		.01	.000			1400
	"	.02	.001			1545

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS	
10/24/88	barren pond	Ø	Ø	1.2	11.4	7:00	
	leach stream	2.8	.081	0.5	12.0	"	Ag 9.5 ppm
	1	.8	.023				
	2	1.4	.041				
	3	4.8	.14				
	press feed	2.3	.067			10:00	
	press discharge	2.8	.081			10:00	
	" "	0.3	.009			10:10	
	" "	0.1	.003			10:20	
	" "						
	" feed	2.6	.075			10:30	Ag 9.3 ppm
	" discharge	0.1	.003			"	
	" "	0.9	.026			11:15	
	" "	0.2	.006			11:30	
	" "		<.001			11:45	
	" "		<.001			12:00	
	" "		<.001			12:45	
	" "		<.001			1:30	
	" "		<.001			2:00	

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/21/88	Discharge		<.001	—	—	9:45
	"		<.001	—	—	10:15
	"		<.001	—	—	10:45
	"	.05	.001			11:00
	"	.10	.003			11:15
	"	.10	.003			11:30
	"	.10	.003			11:48
	"	.10	.003			12:00
	"	.05	.001			12:15
	"	.10	.003			12:30
	"	.12	.003			12:45
	"	.15	.004			13:00
	"	.15	.004			
	"	.20	.006			
	"	.20	.006			
	"	.25	.007			
	"	.35	.009			
	"	.50	.015			
	"	.57	.017			16:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/20/88	barren pond	0.0	0.0	1.7	11.4	6:40
	leach stream	2.2	0.06	0.7	12.1	"
	press feed	2.4	0.07	0.8	12.0	"
	press discharge	0.0	0.0	0.8	12.0	"
	" "	0.02	<.001	—	—	8:15
	" "	0.01	<.001	—	—	9:30
	" "	0.01	<.001	—	—	10:30
	" "	0.02	<.001	—	—	12:30
	" "	0.02	<.001	—	—	2:10
	" "	∅	<.001	—	—	3.10
	" "	∅	<.001	—	—	4:10
10/21/88	barren pond	∅	∅	1.3	11.5	6:30
	leach stream	3.1	0.09	0.6	12.3	"
	press feed	2.4	0.07	0.8	12.0	"
	press discharge	0.02	<.001	0.8	12.0	"
	leach stream	Ag 15.0	Ag .44	—	—	"
	press feed	Ag 8.7	.25	—	—	"
	discharge	0.01	<.001	—	—	7:30
	"		<.001			8:30
	"		<.001			9:30

PPM Au × 0.029 = oz/t

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/18/88	Press discharge	0.2	.006	—	—	10:00
	" "	.1	.003	—	—	10:30
	" "	.05	.001	—	—	11:15
	" "	.03	<.001	—	—	12:00
	" "	.05	.001	—	—	1:00
	" "	.10	.003	—	—	2:00
	" "	.05	.001	—	—	3:00
10/19/88	barren pond	0	<.001	1.2	11.4	6:45
	press feed	2.4	.070	0.8	11.9	"
	" discharge	Ø	<.001	0.9	11.8	"
	" "	.02	<.001	—	—	7:45
	" "	.02	<.001	—	—	8:45
	" "	.02	<.001	—	—	9:45
	" "	.01	<.001	—	—	10:45
	" "	.02	<.001	—	—	11:45
	" "	Ø	<.001	—	—	1:45
	press feed	2.4	.070	—	—	2:05
	press discharge	Ø	<.001	—	—	2:45
	" "	Ø	<.001	—	—	3:45

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/14/88	leach stream	2.4	0.070	0.6	12.1	6:30
	barren pond	∅	∅	1.6	11.6	6:30
10/17/88	BARREN POND,	∅	∅	.7	10.4	0700
	PRESS POND	2.3	.067	1.0	11.4	0700
	LEACH STREAM	2.7	.078	.7	11.9	0700
	Heap 1	1.5	.044	.8	11.9	8:00
	Heap 2	2.6	.075	.5	11.8	"
	Heap 3	3.2	.093	.5	11.9	"
	press feed	2.3	.067	—	—	9:30
	" discharge	0.18	.005	—	—	"
10/18/88	barren pond	0	0	1.0	10.6	7:00
	(1) leach stream	2.7	.078	0.5	11.8	"
	(2) press feed	1.7	.049	—	—	7:30
	press discharge	0.8	.023	—	—	7:30
	press feed	2.3	.067	—	—	7:45
	" discharge	0.9	.026	—	—	"
	" "	0.2	.006	—	—	8:00
	" "	0.03	.0009	—	—	8:30
	" "	0.17	.005	—	—	9:00
	(3) " "	0.11	.003	—	—	9:30

(1) 9.6
(2) 7.3
0.16

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/12/88	press discharge	.02	<.001			9:30
	"	.02	<.001			10:30
	"	.02	<.001			11:30
	"	.06	.002			12:45
	"	.02	<.001			1:45
	"	.02	<.001			2:45
	"	.04	.001			3:45
10/13/88	barren pond	Ø	Ø	0.7	11.6	7:00
	leach stream	2.2	.064	0.6	12.0	7:00
	press feed	2.4	.070	—	—	7:00
	press discharge	0.01	<.001	—	—	7:00
	" "	0.02	<.001	—	—	7:45
	" "	0.2	.006	—	—	9:45
	" "	0.2	.006	—	—	10:30
	" "	0.12	.003	—	—	11:30
	" "	0.2	.006	—	—	12:30
	" "	0.3	.009	—	—	2:00
	" "	0.13	.004	—	—	2:45
	" "	0.03	<.001	—	—	3:30
	" "	0.4	.012	—	—	5:00

PPM Au × 0.029 = oz/t

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

A.F. BUDGE (MINING) LIMITED — VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/11/88	barren pond	—	—	1.6	11.3	6:30
	leach stream	1.9	0.055	0.7	12.2	"
	press feed	2.5	0.073	0.8	12.1	7:00
	" discharge	0.02	0.0006	0.8	12.1	"
	" "	—	—	—	—	8:00
	" "	0.01	traces	—	—	9:00
	" "	0.02	.0006	—	—	10:00
	" "	0.02	<.001	—	—	11:15
	" "	—	<.001	—	—	12:30
	" "	0.02	<.001	—	—	1:30
	leach stream	2.0	0.058	—	—	2:15
	press discharge	0.02	<.001	—	—	2:30
	" "		<.001			3:45
	" "		<.001			4:30
10/12/88	press discharge	0.18	0.005			6:10
	barren pond	Ø	Ø	2.2	11.5	7:00
	leach stream	2.1	.061	0.7	12.2	7:00
	press feed	2.5	.073	—	—	7:30
	" discharge	0.05	.001	—	—	7:30
	" "	0.02	<.001	—	—	8:00

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/10/20	leach stream	1.6	.046	0.7	12.0	7:00
	barren pond	–	–	0.4	10.2	7:00
	heap 1	0.8	.023			
	heap 2	1.8	.052			
	heap 3	2.0	.058			
	feed	2.1	.061			10:10
	discharge	1.7	.049			"
	"	1.0	.029			10:20
	"	0.5	.015			10:30
	"	0.05	.0015			10:45
	"	0.03	.001			11:30
	"	0.02	<.001			12:15
	"	0.1	.003			1:00
	"	0.07	.002			1:45
	"	0.05	.001			2:30
	"	0.05	.001			3:30
	"	0.05	.001			4:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/6/88	leach stream	2.7	.078	0.7	12.0	6:45
	press discharge	0.1	.003			6:45
	barren pond	0.05	.0015	1.7	11.7	7:15
	press feed	2.8	.081			7:30
	" discharge	.07	.002			7:30
	heap 1	1.0	.029			
	" 2	3.0	.087			
	" 3	3.1	.090			
	discharge	0.05	.0015			9:30
	"	0.05	.0015			9:30
	"	Trace	—			10:30
	"	.03	.0009			12:30
	"	.05	.0015			1:30
	"	.03	.0009			2:30
	"	.03	.0009			4:00
10/7/88	barren pond	—	—	1.7	11.8	6:45
	leach stream	2.4	.07	0.8	12.1	"

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/4/88	press discharge	.3	.009			1:30
	" "	.3	.009			2:00
	" "	.3	.009			2:45
	" "	.15	.004			3:15
	" "	.15	.004			4:00
	stream	3.2	.093	—	—	6:30
	press feed	3.0	.087	—	—	"
	" discharge	.5	.015	0.7	11.9	"
	barren pond	.1	.003	1.2	11.5	"
		.2	.006	—	—	7:30
		.1	.003	—	—	8:15
		.05	.001	—	—	10:15
		.1	.003	—	—	11:30
		.05	.001	—	—	12:30
		.05	.001	—	—	1:30
		.05	.001	—	—	2:30
		.05	.001	—	—	4:30

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

A.F. BUDGE (MINING) LIMITED

VULTURE MINE

ASSAYS

DATE	SAMPLE	Au PPM	Au oz/t	NaCN lb/t	pH	REMARKS
10/3/88	barren pond (N)	—	—	0.5	10.3	7:00
	leach stream	3.0	.087	0.8	12.0	"
	barren pond (S)	—	—	0.4	10.3	7:30
	heap 1	1.1	.032	1.0	11.9	10:00
	heap 2	3.8	.110	0.7	11.8	"
	heap 3	4.3	.125	0.6	11.9	"
	barren pond	—	—	0.7	10.2	12:00
	Press I feed	2.4	0.070			2:20
	" " discharge	1.4	0.040			"
	" " "	1.4	0.040			3:00
10/4/88	barren pond	0.05	.001	1.0	11.1	6:35
	leach stream	3.1	.090	0.8	11.9	6:35
	press feed	2.7	.078			10:50
	" discharge	1.8	.052			"
	"	1.4	.041			11:20
	"	0.7	.020			11:45
	"	0.5	.015			12:15
	"	0.3	.009			12:45
	"	0.3	.009			1:00
	"	0.25	.007			1:15

PPM Au × 0.029 = oz/t

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS