CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

James Doyle Sell 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.

JDS

ASARCO

Southwestern Exploration Division

October 2, 1990

S.A. Anzalone
Tucson Office

Dynamite-Center Claims
Sec. 30, T17S, R13E
Between Pima & Twin Buttes
Mines, Pima County, Arizona

Ms. Alice Smith, 1/3 heir to the Addison Smith claims in Sec. 30, T17S, R13E, east of the Pima Mine, has submitted data on her claims and on other claims in the area.

The holes were drilled by Anaconda as expressed by K.E. Richard's memo on the Edwards block of claims in the general area. The SWED files do not have a copy of the Edwards memo by K.E. Richard, but perhaps it is in your file.

I have not checked the R.R. Weaver preliminary ore calculations on the Dynamite claims, but when Ms. Smith was in the office, she showed me a copy of a PD report which came up with similar figures for the six holes:

Weaver:	100 million tons of 0.54% Copper.
PD:	70 million tons of 0.75% copper with 20 million tons of 1.22% copper, surrounded by 70 million tons of 0.75% copper. All have a 3 to 5/1 waste to ore stripping ratio.

In addition to the 6 holes on the Dynamite claims, the Smith Center claims have 4 holes with similar mineralization, and of the 7 holes to the southwest, off the Center claims, two of the three adjacent holes also contain tactite mineralization. Drill logs and assays are included on the above holes.

Cyprus apparently has the adjacent ground under option (The Anamax ground) with a large mineral zone drilled out on the north side of the Dynamite claims.

Obviously, additional holes need to be drilled in the area to firm up any mining plans and with your knowledge of the district you may desire to talk with Ms. Smith about the property.

The group also has numerous claim blocks north of the Cyprus Esperanza pit which may be of interest.

Additional data on all the above can be viewed with Ms. Smith.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: R.L. Brown (w/o att.)
W.L. Kurtz (w/o att.)

JDS

ASARCO

Mining Department
S. A. Anzalone
Chief Geologist

ASARCO Incorporated

MAY 1 5 1991

Div Exploration

May 14, 1991

Mrs. Alice N. Smith
5701 E. Glenn Street #41
Tucson, AZ 85712

Dear Mrs. Smith:

Dynamite-Center Claims
Section 30, T17, R13E
Pima County, Arizona

I have had an opportunity to complete an economic analysis of the Dynamite-Center Claims utilizing the data that you were kind enough to submit to Jim Sell.

In developing the data base for use in the computer model, I used Richard R. Weaver's tonnage and grade figures of 100 million tons assaying 0.54% Cu. I believe Dick Weaver was far too optimistic in his reserve calculation; nevertheless I have used his figures in the evaluation. The remainder of the cost figures have been prepared in-house and reflect a reasonable approximation of what developing such a large mine and plant would cost today.

The basic parameters used are:

1.	Tons of ore:	100 million
2.	Grade:	0.54% Cu
3.	Recovery:	90%
4.	Production Ore:	10 million tons/year
5.	Production Waste:	77 million tons/year
6.	Mining Cost:	$1.00 per ton of material
7.	Milling Cost:	$3.00 per ton milled
8.	Smelting and Refining:	$0.30 per pound
9.	Total Capital Costs:	$240 million

As you can see, these are reasonably optimistic numbers. I indicated to you when we last met that the stripping ratio would be quite high, and it turned out to be 7.7:1. This is obviously a result of the great depth of overburden. As I pointed out to you, the average depth to ore is ±800 feet.

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703
1150 North 7th Avenue (602) 792-3010

Assuming a reasonable tax rate and no royalty or acquisition cost, the Dynamite-Center deposit would require a copper price of approximately $1.75 per pound to break even under current economic conditions. The attached analyses were run at $1.00/pound copper and $1.75/pound copper. Review of these printouts will provide details of the evaluation.

Regrettably, this type of deposit does not meet Asarco's requirements for investment.

I wish to thank you for bringing the prospect to Asarco's attention and taking the time to describe the history of your family's development of the property.

Yours truly,

S. A. Anzalone

S. A. Anzalone

SAA:brw
Attachments

cc:	R. J. Kupsch	w/o att.
	R. L. Brown	" "
	W. L. Kurtz	w/att.
	J. D. Sell	"

JDS

ENCLOSURE 1

PROJECT - DYNA\
DATA UTILIZED IN BASE CASE
****

PROJECT LIFE (INCLUDING DEVELOPMENT) - 12 YEARS

INVESTMENT SCHEDULE - CAPITAL

($1000)	CAPITAL	DEVELOPMENT CAPITALIZED	DEVELOPMENT EXPENSED	WORKING CAPITAL	TOTAL
YEAR 1	120000.0	0.0	0.0	0.0	120000.0
YEAR 2	120000.0	0.0	0.0	0.0	120000.0
YEAR 3	0.0	0.0	0.0	28750.0	28750.0
TOTAL	240000.0	0.0	0.0	28750.0	268750.0

METAL PRICE AND VALUE - $ PER LB/OZ METAL PRODUCED

METAL	PRICE	S,R+D	N.S.R.
CU	1.750	0.300	1.450
--	0.000	0.000	0.000
--	0.000	0.000	0.000

OPERATING COSTS - DIRECTS AND INDIRECTS
- MINING $ 0.920 PER TON MINED
- MILLING $ 3.000 PER TON MILLED

DEPRECIATION ELECTED - STRAIGHT LINE, 12. YEAR LIFE, GENERALLY BEGINNING IN THE FIRST PRODUCTION YEAR

EFFECTIVE PERCENTAGE DEPLETION RATES - PCT. OF GROSS DEPLETABLE INCOME
FOR CU --- 15. PERCENT
FOR -- --- 0. PERCENT
FOR -- --- 0. PERCENT

EFFECTIVE TAX RATE - 35.0 PERCENT (21% ALTERNATIVE MINIMUM)

WORKING CAPITAL - PROVIDED AS 25.0 PCT. OF YEAR 3. OPERATING COSTS

ANNUAL ORE AND WASTE TONNAGES, ORE GRADES, ORE RECOVERIES, AND METAL PRODUCTION MAY BE FOUND WITH THE CASH FLOW CALCULATIONS IN ENCLOSURE 2.

ENCLOSURE 2-1

PROJECT- DYNA\
NET ANNUAL CASH FLOW DETERMINATION
****

($ AND TONS X1000)

* PROJECT YEAR *	* 1 *	* 2 *	* 3 *	* 4 *	* 5 *
ORE TONNAGE	0.0	0.0	10000.0	10000.0	10000.0
ORE GRADE - CU	0.000	0.000	0.540	0.540	0.540
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.000	0.000	0.900	0.900	0.900
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	0.0	0.0	97200.0	97200.0	97200.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	0.0	70000.0	70000.0	70000.0	70000.0
TOTAL TONS MINED	0.0	70000.0	80000.0	80000.0	80000.0
NET SMELTER RETURN - CU	0.0	0.0	140940.0	140940.0	140940.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	0.0	0.0	140940.0	140940.0	140940.0
DEDUCTIONS					
-MINING COST	0.0	0.0	80000.0	80000.0	80000.0
-MILLING COST	0.0	0.0	30000.0	30000.0	30000.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	0.0	0.0	5000.0	5000.0	5000.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	0.0	0.0	20000.0	20000.0	20000.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	0.0	0.0	135000.0	135000.0	135000.0
NET DEPLETABLE INCOME	0.0	0.0	5940.0	5940.0	5940.0
DEPLETION					
-PERCENTAGE	0.0	0.0	21141.0	21141.0	21141.0
-NET LIMIT	0.0	0.0	2970.0	2970.0	2970.0
-TAKEN	0.0	0.0	2970.0	2970.0	2970.0
TAXABLE INCOME	0.0	0.0	2970.0	2970.0	2970.0
TAX	0.0	0.0	-1247.4	-1247.4	-1247.4
NET INCOME AFTER TAX	0.0	0.0	4692.6	4692.6	4692.6
OTHER INC. OR EXP.					
-CAPITAL (E)	120000.0	120000.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	0.0	28750.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	0.0	0.0	20000.0	20000.0	20000.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	-120000.0	-120000.0	-4057.4	24692.6	24692.6

NET ANNUAL CASH FLOW DETERMINATION
****

($ AND TONS X1000)

* PROJECT YEAR *	* 6 *	* 7 *	* 8 *	* 9 *	* 10 *
ORE TONNAGE	10000.0	10000.0	10000.0	10000.0	10000.0
ORE GRADE - CU	0.540	0.540	0.540	0.540	0.540
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.900	0.900	0.900	0.900	0.900
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	97200.0	97200.0	97200.0	97200.0	97200.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	70000.0	70000.0	70000.0	70000.0	70000.0
TOTAL TONS MINED	80000.0	80000.0	80000.0	80000.0	80000.0
NET SMELTER RETURN - CU	140940.0	140940.0	140940.0	140940.0	140940.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	140940.0	140940.0	140940.0	140940.0	140940.0
DEDUCTIONS					
-MINING COST	80000.0	80000.0	80000.0	80000.0	80000.0
-MILLING COST	30000.0	30000.0	30000.0	30000.0	30000.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	5000.0	5000.0	5000.0	5000.0	5000.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	20000.0	20000.0	20000.0	20000.0	20000.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	135000.0	135000.0	135000.0	135000.0	135000.0
NET DEPLETABLE INCOME	5940.0	5940.0	5940.0	5940.0	5940.0
DEPLETION					
-PERCENTAGE	21141.0	21141.0	21141.0	21141.0	21141.0
-NET LIMIT	2970.0	2970.0	2970.0	2970.0	2970.0
-TAKEN	2970.0	2970.0	2970.0	2970.0	2970.0
TAXABLE INCOME	2970.0	2970.0	2970.0	2970.0	2970.0
TAX	-1247.4	-1247.4	-1247.4	-1247.4	-1247.4
NET INCOME AFTER TAX	4692.6	4692.6	4692.6	4692.6	4692.6
OTHER INC. OR EXP.					
-CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	20000.0	20000.0	20000.0	20000.0	20000.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	24692.6	24692.6	24692.6	24692.6	24692.6

ENCLOSURE 2-3

PROJECT- DYNA\
NET ANNUAL CASH FLOW DETERMINATION
****

ENCLOSURE 2-3

PROJECT- DYNA\
NET ANNUAL CASH FLOW DETERMINATION
****

($ AND TONS X1000)

* PROJECT YEAR *	* 11 *	* 12 *	* 13 *	* 14 *	* 15 *
ORE TONNAGE	10000.0	10000.0	0.0	0.0	0.0
ORE GRADE - CU	0.540	0.540	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.900	0.900	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	97200.0	97200.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	70000.0	70000.0	0.0	0.0	0.0
TOTAL TONS MINED	80000.0	80000.0	0.0	0.0	0.0
NET SMELTER RETURN - CU	140940.0	140940.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	140940.0	140940.0	0.0	0.0	0.0
DEDUCTIONS					
-MINING COST	80000.0	80000.0	0.0	0.0	0.0
-MILLING COST	30000.0	30000.0	0.0	0.0	0.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	5000.0	5000.0	0.0	0.0	0.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	20000.0	20000.0	20000.0	20000.0	0.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	135000.0	135000.0	0.0	0.0	0.0
NET DEPLETABLE INCOME	5940.0	5746.0	0.0	0.0	0.0
DEPLETION					
-PERCENTAGE	21141.0	20982.9	0.0	0.0	0.0
-NET LIMIT	2970.0	2873.0	0.0	0.0	0.0
-TAKEN	2970.0	2873.0	0.0	0.0	0.0
TAXABLE INCOME	2970.0	2873.0	0.0	0.0	0.0
TAX	-1247.4	-1206.7	0.0	0.0	0.0
NET INCOME AFTER TAX	4692.6	4539.3	0.0	0.0	0.0
OTHER INC. OR EXP.					
-CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	-28750.0	0.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	20000.0	20000.0	0.0	0.0	0.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	24692.6	53289.3	0.0	0.0	0.0

ENCLOSURE 3

PROJECT - DYNA\
SENSITIVITY ANALYSIS
****

1ST FIGURE IS DCFROI IN PERCENT.
2ND FIGURE IS ACCUM. NET CASH (INCL. INVESTMENT).
3RD FIGURE IS AVE. ANNUAL BOOK NET INCOME.
4TH FIGURE IS AVE. ANN. NET CASH FLOW.
* NO. OF YEARS USED IN AVERAGES= 10. *

SENSITIVITY TO:	10 PERCENT ADVERSE	BASE CASE	10 PERCENT FAVORABLE
INVESTMENT	0.00	0.40	1.66
	-12874.	6773.	26383.
	3113.	4677.	6238.
	25113.	24677.	24238.
OPERATING COSTS	0.00	0.40	6.60
	-106960.	6773.	119520.
	-6696.	4677.	15952.
	13304.	24677.	35952.
METAL PRICE	0.00	0.40	7.44
	-127453.	6773.	139808.
	-8745.	4677.	17981.
	11255.	24677.	37981.
ORE GRADE	0.00	0.40	6.32
	-104417.	6773.	117002.
	-6442.	4677.	15700.
	13558.	24677.	35700.

A DCFROI OF 0.0 INDICATES THAT PAYBACK
OF INVESTMENT FROM NET CASH FLOW CANNOT
BE ACHIEVED.

PROJECT - DYNA\
SUMMARY ECONOMIC ANALYSIS
****

BASIC DATA

ASSUMED RESERVE - TONS ORE		100000000.
- TONS WASTE		770000000.
- TONS TOTAL		870000000.
- STRIPPING RATIO		7.70:1
ORE CHARACTERISTICS	CU	
- GRADE	0.540	
- RECOVERY	0.900	
- REC. INVENTORY	972000000.	
- EQUIV. REC. INV.	972000000.	
PREPRODUCTION PERIOD	2 YEARS	
PRODUCTION PERIOD	10 YEARS	

PREPRODUCTION INVESTMENT	$MM	$/TON ORE	$/OZ. OR EQUIV.
EXPLOR./DEVELOP. (CAP.)	0.00	0.00	0.00
EXPLOR./DEVELOP. (EXP.)	0.00	0.00	0.00
PLANT & EQUIPMENT	240.00	2.40	0.25
ACQUISITION	0.00	0.00	0.00
WORKING CAPITAL	28.75	0.29	0.03
OTHER			
TOTALS	268.75	2.69	0.28

OPERATING COSTS	$/TON ORE	$/OZ. OR EQUIV.
MINING	8.00	0.82
MILLING	3.00	0.31
SMELT./REFIN./DELIVERY	2.92	0.30
GENERAL & ADMINISTRATIVE	0.50	0.05
ROYALTIES	0.00	0.00
POSTPROD. DEVELOPMENT	0.00	0.00
POSTPROD. CAPITAL	0.00	0.00
OTHER		
TOTALS	14.42	1.48
*** GRAND TOTALS ***	17.10	1.76

BASE CASE EVALUATION	$ 1.75 CU
DCFROI, %	0.40
NPV @ 10%, $M	-99901.07
@ 15%, $M	*********
AVE. ANN. NET INCOME, $M	4677.27
AVE. ANN. NET CASH FLOW, $M	24677.27
PAYBACK PERIOD, PROD. YEARS	9.87
AVE. ANN. EARNINGS, $/SHARE	
EARNINGS CONTRIB. PERIOD, YEARS	10

PROJECT - DYNA\

PROJECT CASH FLOWS:

1	-120000.0
2	-120000.0
3	-4057.4
4	24692.6
5	24692.6
6	24692.6
7	24692.6
8	24692.6
9	24692.6
10	24692.6
11	24692.6
12	53289.3

NET PRESENT VALUE AT 8 PERCENT= -86614.3

NET PRESENT VALUE AT 9 PERCENT= -93611.3

NET PRESENT VALUE AT 10 PERCENT= -99901.1

NET PRESENT VALUE AT 11 PERCENT= -105554.1

NET PRESENT VALUE AT 12 PERCENT= -110633.1

NET PRESENT VALUE AT 13 PERCENT= -115193.9

NET PRESENT VALUE AT 14 PERCENT= -119286.8

NET PRESENT VALUE AT 15 PERCENT= -122956.4

NET PRESENT VALUE AT 16 PERCENT= -126242.9

NET PRESENT VALUE AT 17 PERCENT= -129182.3

NET PRESENT VALUE AT 18 PERCENT= -131806.8

NET PRESENT VALUE AT 19 PERCENT= -134145.6

NET PRESENT VALUE AT 20 PERCENT= -136224.8

ENCLOSURE 1

PROJECT - DYNA\
DATA UTILIZED IN BASE CASE
****

PROJECT LIFE (INCLUDING DEVELOPMENT) - 12 YEARS

INVESTMENT SCHEDULE - CAPITAL

($1000)		DEVELOPMENT CAPITALIZED	DEVELOPMENT EXPENSED	WORKING CAPITAL	TOTAL
YEAR 1	120000.0	0.0	0.0	0.0	120000.0
YEAR 2	120000.0	0.0	0.0	0.0	120000.0
YEAR 3	0.0	0.0	0.0	28750.0	28750.0
TOTAL	240000.0	0.0	0.0	28750.0	268750.0

METAL PRICE AND VALUE - $ PER LB/OZ METAL PRODUCED

METAL	PRICE	S,R+D	N.S.R.
CU	1.000	0.300	0.700
--	0.000	0.000	0.000
--	0.000	0.000	0.000

OPERATING COSTS - DIRECTS AND INDIRECTS
- MINING $ 0.920 PER TON MINED
- MILLING $ 3.000 PER TON MILLED

DEPRECIATION ELECTED - STRAIGHT LINE, 12. YEAR LIFE, GENERALLY BEGINNING IN THE FIRST PRODUCTION YEAR

EFFECTIVE PERCENTAGE DEPLETION RATES - PCT. OF GROSS DEPLETABLE INCOME
FOR CU --- 15. PERCENT
FOR -- --- 0. PERCENT
FOR -- --- 0. PERCENT

EFFECTIVE TAX RATE - 35.0 PERCENT (21% ALTERNATIVE MINIMUM)

WORKING CAPITAL - PROVIDED AS 25.0 PCT. OF YEAR 3. OPERATING COSTS

ANNUAL ORE AND WASTE TONNAGES, ORE GRADES, ORE RECOVERIES, AND METAL PRODUCTION MAY BE FOUND WITH THE CASH FLOW CALCULATIONS IN ENCLOSURE 2.

ENCLOSURE 2-1

PROJECT- DYNA\
NET ANNUAL CASH FLOW DETERMINATION
****

($ AND TONS X1000)

* PROJECT YEAR *	* 1 *	* 2 *	* 3 *	* 4 *	* 5 *
ORE TONNAGE	0.0	0.0	10000.0	10000.0	10000.0
ORE GRADE - CU	0.000	0.000	0.540	0.540	0.540
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.000	0.000	0.900	0.900	0.900
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	0.0	0.0	97200.0	97200.0	97200.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	0.0	70000.0	70000.0	70000.0	70000.0
TOTAL TONS MINED	0.0	70000.0	80000.0	80000.0	80000.0
NET SMELTER RETURN - CU	0.0	0.0	68040.0	68040.0	68040.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	0.0	0.0	68040.0	68040.0	68040.0
DEDUCTIONS					
-MINING COST	0.0	0.0	80000.0	80000.0	80000.0
-MILLING COST	0.0	0.0	30000.0	30000.0	30000.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	0.0	0.0	5000.0	5000.0	5000.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	0.0	0.0	20000.0	20000.0	20000.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	0.0	0.0	135000.0	135000.0	135000.0
NET DEPLETABLE INCOME	0.0	0.0	-66960.0	-66960.0	-66960.0
DEPLETION					
-PERCENTAGE	0.0	0.0	10206.0	10206.0	10206.0
-NET LIMIT	0.0	0.0	0.0	0.0	0.0
-TAKEN	0.0	0.0	0.0	0.0	0.0
TAXABLE INCOME	0.0	0.0	-66960.0	-66960.0	-66960.0
TAX	0.0	0.0	14061.6	14061.6	14061.6
NET INCOME AFTER TAX	0.0	0.0	-52898.4	-52898.4	-52898.4
OTHER INC. OR EXP.					
-CAPITAL (E)	120000.0	120000.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	0.0	28750.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	0.0	0.0	20000.0	20000.0	20000.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	-120000.0	-120000.0	-61648.4	-32898.4	-32898.4

ENCLOSURE 2-2

PROJECT- DYNA\
NET ANNUAL CASH FLOW DETERMINATION
****

($ AND TONS X1000)

* PROJECT YEAR *	* 6 *	* 7 *	* 8 *	* 9 *	* 10 *
ORE TONNAGE	10000.0	10000.0	10000.0	10000.0	10000.0
ORE GRADE - CU	0.540	0.540	0.540	0.540	0.540
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.900	0.900	0.900	0.900	0.900
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	97200.0	97200.0	97200.0	97200.0	97200.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	70000.0	70000.0	70000.0	70000.0	70000.0
TOTAL TONS MINED	80000.0	80000.0	80000.0	80000.0	80000.0
NET SMELTER RETURN - CU	68040.0	68040.0	68040.0	68040.0	68040.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	68040.0	68040.0	68040.0	68040.0	68040.0
DEDUCTIONS					
-MINING COST	80000.0	80000.0	80000.0	80000.0	80000.0
-MILLING COST	30000.0	30000.0	30000.0	30000.0	30000.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	5000.0	5000.0	5000.0	5000.0	5000.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	20000.0	20000.0	20000.0	20000.0	20000.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	135000.0	135000.0	135000.0	135000.0	135000.0
NET DEPLETABLE INCOME	-66960.0	-66960.0	-66960.0	-66960.0	-66960.0
DEPLETION					
-PERCENTAGE	10206.0	10206.0	10206.0	10206.0	10206.0
-NET LIMIT	0.0	0.0	0.0	0.0	0.0
-TAKEN	0.0	0.0	0.0	0.0	0.0
TAXABLE INCOME	-66960.0	-66960.0	-66960.0	-66960.0	-66960.0
TAX	14061.6	14061.6	14061.6	14061.6	14061.6
NET INCOME AFTER TAX	-52898.4	-52898.4	-52898.4	-52898.4	-52898.4
OTHER INC. OR EXP.					
-CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	20000.0	20000.0	20000.0	20000.0	20000.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	-32898.4	-32898.4	-32898.4	-32898.4	-32898.4

NET ANNUAL CASH FLOW DETERMINATION
($ AND TONS X1000)

* PROJECT YEAR *	* 11 *	* 12 *	* 13 *	* 14 *	* 15 *
ORE TONNAGE	10000.0	10000.0	0.0	0.0	0.0
ORE GRADE - CU	0.540	0.540	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
RECOVERIES - CU	0.900	0.900	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
- --	0.000	0.000	0.000	0.000	0.000
METAL PRODUCED - CU	97200.0	97200.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
WASTE TONNAGE	70000.0	70000.0	0.0	0.0	0.0
TOTAL TONS MINED	80000.0	80000.0	0.0	0.0	0.0
NET SMELTER RETURN - CU	68040.0	68040.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
- --	0.0	0.0	0.0	0.0	0.0
ROYALTIES - N. S. R.	0.0	0.0	0.0	0.0	0.0
-NET PROCEEDS	0.0	0.0	0.0	0.0	0.0
GROSS DEPLETABLE INCOME	68040.0	68040.0	0.0	0.0	0.0
DEDUCTIONS					
-MINING COST	80000.0	80000.0	0.0	0.0	0.0
-MILLING COST	30000.0	30000.0	0.0	0.0	0.0
-EXP. EXPL/DEV	0.0	0.0	0.0	0.0	0.0
-ADMINISTRATION	5000.0	5000.0	0.0	0.0	0.0
-DEPREC. - (IMMED.)	0.0	0.0	0.0	0.0	0.0
- (PROD.)	20000.0	20000.0	20000.0	20000.0	0.0
-AMORTIZATION	0.0	0.0	0.0	0.0	0.0
-TOTAL	135000.0	135000.0	0.0	0.0	0.0
NET DEPLETABLE INCOME	-66960.0	-66960.0	0.0	0.0	0.0
DEPLETION					
-PERCENTAGE	10206.0	10206.0	0.0	0.0	0.0
-NET LIMIT	0.0	0.0	0.0	0.0	0.0
-TAKEN	0.0	0.0	0.0	0.0	0.0
TAXABLE INCOME	-66960.0	-66960.0	0.0	0.0	0.0
TAX	14061.6	14061.6	0.0	0.0	0.0
NET INCOME AFTER TAX	-52898.4	-52898.4	0.0	0.0	0.0
OTHER INC. OR EXP.					
-CAPITAL (E)	0.0	0.0	0.0	0.0	0.0
-WORKING CAPITAL (E)	0.0	-28750.0	0.0	0.0	0.0
-CAP. EXPL./DEV. (E)	0.0	0.0	0.0	0.0	0.0
-DEPRECIATION (I)	20000.0	20000.0	0.0	0.0	0.0
-AMORTIZATION (I)	0.0	0.0	0.0	0.0	0.0
NET CASH AFTER TAX	-32898.4	-4148.4	0.0	0.0	0.0

ENCLOSURE 3

PROJECT - DYNA\
SENSITIVITY ANALYSIS

ENCLOSURE 3

PROJECT - DYNA\
SENSITIVITY ANALYSIS
****

1ST FIGURE IS DCFROI IN PERCENT.
2ND FIGURE IS ACCUM. NET CASH (INCL. INVESTMENT).
3RD FIGURE IS AVE. ANNUAL BOOK NET INCOME.
4TH FIGURE IS AVE. ANN. NET CASH FLOW.
* NO. OF YEARS USED IN AVERAGES= 10. *

SENSITIVITY TO:	10 PERCENT ADVERSE	BASE CASE	10 PERCENT FAVORABLE
INVESTMENT	0.00	0.00	0.00
	-588784.	-568984.	-549184.
	-54478.	-52898.	-51318.
	-32478.	-32898.	-33318.
OPERATING COSTS	0.00	0.00	0.00
	-682870.	-568984.	-455097.
	-64287.	-52898.	-41510.
	-44287.	-32898.	-21510.
METAL PRICE	0.00	0.00	0.00
	-645772.	-568984.	-492196.
	-60577.	-52898.	-45220.
	-40577.	-32898.	-25220.
ORE GRADE	0.00	0.00	0.00
	-622736.	-568984.	-515232.
	-58274.	-52898.	-47523.
	-38274.	-32898.	-27523.

A DCFROI OF 0.0 INDICATES THAT PAYBACK
OF INVESTMENT FROM NET CASH FLOW CANNOT
BE ACHIEVED.

PROJECT - DYNA\
SUMMARY ECONOMIC ANALYSIS
****

BASIC DATA

ASSUMED RESERVE - TONS ORE		100000000.
- TONS WASTE		770000000.
- TONS TOTAL		870000000.
- STRIPPING RATIO		7.70:1
ORE CHARACTERISTICS	CU	
- GRADE	0.540	
- RECOVERY	0.900	
- REC. INVENTORY	972000000.	
- EQUIV. REC. INV.	972000000.	
PREPRODUCTION PERIOD	2 YEARS	
PRODUCTION PERIOD	10 YEARS	

PREPRODUCTION INVESTMENT	$MM	$/TON ORE	$/OZ. OR EQUIV.
EXPLOR./DEVELOP. (CAP.)	0.00	0.00	0.00
EXPLOR./DEVELOP. (EXP.)	0.00	0.00	0.00
PLANT & EQUIPMENT	240.00	2.40	0.25
ACQUISITION	0.00	0.00	0.00
WORKING CAPITAL	28.75	0.29	0.03
OTHER			
TOTALS	268.75	2.69	0.28

OPERATING COSTS	$/TON ORE	$/OZ. OR EQUIV.
MINING	8.00	0.82
MILLING	3.00	0.31
SMELT./REFIN./DELIVERY	2.92	0.30
GENERAL & ADMINISTRATIVE	0.50	0.05
ROYALTIES	0.00	0.00
POSTPROD. DEVELOPMENT	0.00	0.00
POSTPROD. CAPITAL	0.00	0.00
OTHER		
TOTALS	14.42	1.48
*** GRAND TOTALS ***	17.10	1.76

BASE CASE EVALUATION	$ 1.00 CU
DCFROI, %	0.00
NPV @ 10%, $M	*********
@ 15%, $M	*********
AVE. ANN. NET INCOME, $M	-52898.40
AVE. ANN. NET CASH FLOW, $M	-32898.40
PAYBACK PERIOD, PROD. YEARS	0.00
AVE. ANN. EARNINGS, $/SHARE	
EARNINGS CONTRIB. PERIOD, YEARS	10

PROJECT - DYNA\

PROJECT CASH FLOWS:

1	-120000.0
2	-120000.0
3	-61648.4
4	-32898.4
5	-32898.4
6	-32898.4
7	-32898.4
8	-32898.4
9	-32898.4
10	-32898.4
11	-32898.4
12	-4148.4

NET PRESENT VALUE AT 8 PERCENT= -430604.1

NET PRESENT VALUE AT 9 PERCENT= -418034.8

NET PRESENT VALUE AT 10 PERCENT= -406232.5

NET PRESENT VALUE AT 11 PERCENT= -395134.2

NET PRESENT VALUE AT 12 PERCENT= -384683.5

NET PRESENT VALUE AT 13 PERCENT= -374828.8

NET PRESENT VALUE AT 14 PERCENT= -365523.0

NET PRESENT VALUE AT 15 PERCENT= -356726.3

NET PRESENT VALUE AT 16 PERCENT= -348397.8

NET PRESENT VALUE AT 17 PERCENT= -340503.5

NET PRESENT VALUE AT 18 PERCENT= -333011.7

NET PRESENT VALUE AT 19 PERCENT= -325893.2

NET PRESENT VALUE AT 20 PERCENT= -319121.8

6 Pages
Pima county Courthouse Book 2834 Page 325
1964 ?

PRELIMINARY CALCULATIONS OF THE DYNAMITE CLAIMS

PIMA COUNTY, ARIZONA

Introduction

The Dynamite claim group lies approximately twenty-five miles south-southwest of Tucson, Arizona, in the Pima Mining district. The six unpatented Dynamite claims are located in the N.½, N ½. sec. 30, T. 27 S., R. 13 E., and are oriented in a north-south direction. They embrace an area 1500 feet by 3600 feet and occupy approximately 125 acres.

The blacktopped Twin Buttes Road approximates the western boundary of the claim group, and the maintained, dirt Sahuarita Road traverses eastward through the center of the acreage.

While the claims were under option to Anaconda a total of 9,381 feet was drilled in six holes. Five of these holes contained well mineralized intercepts, and the sixth hole was essentially barren of copper mineralization.

Method of Attack

The calculations of this study are based on five wide-spaced drill holes - A-979, A-974, A-973, A-969 and A-978. Drill hole A-970 contained less copper values and was not considered in the calculations. The spacing of the drill holes ranges from 900 feet to 925 feet.

Areas of influence were calculated by the polygonal method, and where there wasn't any drill hole bounding the polygon, the mirror image of the controlled half of the polygon was projected. The polygons were constructed around the respective drill holes on graph paper, and the square footage of influence was measured by counting the number of squares in the polygon and multiplying the number by a constant.

To allow for easier calculations a figure of 10 $Ft.^3$/ton was used. The specific gravity of the rock containing the sulfide mineralization is about 3. This gives a value of 10.5 $Ft.^3$.ton. Thus the estimated tonnage derived in the study is very close to the actual tonnage figures.

In drill hole A-979 excellent molybdenum values were reported. In this hole only a Cu-Mo equivalent was derived. The formula used in this derivation is ¼(Mo %) + Cu % = Mo equivalent. This conversion allows for a total tonnage in Cu % while still getting the benefit of the Mo assays.

PERSONAL
PETER M. ROBBINS

It was assumed for the purpose of this study that there was no limited area due to ownership boundary lines. Also it must be borne in mind that this study is of the rapid preliminary character, and time did not allow for double checking of the figures. It is felt, however, that the estimations are fairly accurate and closely approximate the true values.

Tonnage and Grade Calculations

A break down of the calculations are presented in appendix A. These tonnages and grades were derived from the assay data supplied to Mr. Vernon Smith by the Anaconda Company. Under Mr. Smith's direction more care in preparation of intervals over 1 % Cu was taken than in the intervening intercepts.

In the five wide spaced holes a total of 30, 136, 190 tons of 1.225 % Cu occurs as indicated ore, and a total of 99, 814, 280 tons of 0.539 % Cu. occurs as indicated ore.

Mineralization and Depth

A very brief survey of the core in Mr. V. Smith's possession indicates that mineralization consists of chalcocite, malachite, azurite, native copper, chalcopyrite, pyrite, molybdenite and very minor amounts of sphalerite and galena. This mineralization occurs in altered limestones and is of the typical contact-metasomatic type. The limestone units are altered to garnet, wollastonite, tremolite and other calc-silicate minerals. Minor veinlets of gypsum were observed.

The depth of the ore varies from hole to hole, except between A-969 and A-973 where it averages 926 feet below the surface between the two holes. In drill hole A-974, located in the extreme southwest corner of the claim group, the ore grade material comes in at 374 feet and maintains an average grade of 1.01 % Cu to 511 feet. Ore grade material over 1 % Cu occurs at various depths in the remaining two holes, and correlations of the ore grade intercepts with any degree of confidence is difficult.

Mineralization Immediately South of The Smith Property

A hole located 1000 feet south of the south end boundary of the Dynamite group intersected the following ore grade mineralization in a tactite-hornfels host rock:

From	To	Interval	% Cu
702.4	805.5	103.1	0.83
702.4	880.8	178.4	0.74
702.4	722.6	20.2	0.81
742.2	805.5	63.3	1.03
855.8	880.8	25.0	1.44

Mineralization consisted of pyrite, chalcopyrite, molybdenite, bornite and primary chalcocite.

Three holes were drilled on 500 foot centers from the ore hole mentioned above. The hole 500 feet south had 5 feet of 5.13 % oxide copper in tactite-hornfels at a depth of 329 feet. The hole 500 feet west of the ore hole had 41.3 feet of 0.75 % Cu in tactite beginning at a depth of 455 feet, while the hole 500 feet to the east of the ore hole had minor Cu values. Based on the center hole and the hole to the west an estimated 5.5 million tons of 0.80 % Cu is indicated.

Based on drilling information in the area south of the Dynamite claims, it is theorized that the mineralized zone should strike roughly N. 40°-50° W. and dip 40° NE. The mineralized zone would thus project across the Kress ground and into the Dynamite claims.

Conclusions

Tonnage and grade calculations in this report are based on wide spaced-drill hole intercepts. Also high grade intercepts were correlated between the wide-spaced holes with very little regularity. It is extremely dangerous to correlate intersections which do not lie on a straight line or regular curve. Only further closer-spaced drilling will confirm or disprove the derivations contained in this report.

S/ Richard R. Weaver
Richard R. Weaver

Appendix A

ORE CALCULATIONS - DYNAMITE CLAIM GROUP

Hole A-969 Area of influence 481, 200 ft.^{2} 10 ft.^{3} = 1 ton

Footage	Interval	Tonnage and Grade
927.0 - 941.0	14.0	673,680 tons of 0.697 % Cu
931.0 - 941.0	10.0	481,200 tons of 0.860 % Cu
1289.0 - 1295.5	6.5	312,780 tons of 1.453 % Cu
1365.0 - 1385.0	20.0	962,400 tons of 0.740 % Cu

Hole A-973 Area of influence 438, 000 ft.^{2} 10 ft.^{3} = 1 ton

Footage	Interval	Tonnage and Grade
925.0 - 968.0	43.0	1,969,400 tons of 1.230 % Cu
925.0 - 1216.0	291.0	13,327,800 tons of 0.411 % Cu
1186.0 - 1203.0	17.0	0,778,600 tons of 0.631 % Cu
1332.0 - 1483.0	150.5	6,892,900 tons of 0.424 % Cu
1339.0 - 1379.0	40.0	1,877,800 tons of 0.482 % Cu
1401.0 - 1444.0	43.0	1,969,400 tons of 0.606 % Cu
1471.0 - 1483.0	12.0	0,549,600 tons of 0.589 % Cu

Hole A-974 Area of influence 768,000 ft.^{2} 10 ft.^{3} = 1 ton

Footage	Interval	Tonnage and Grade
374.0 - 511.0	137.0	10,521,600 tons of 1.012 % Cu
374.0 - 401.0	27.0	2,073,600 tons of 1.070 % Cu
450.0 - 459.0	9.0	0,691,200 tons of 3.370 % Cu
465.0 - 511.0	46.0	3,532,000 tons of 1.398 % Cu

Hole A-978 Area of influence 637,600 ft.^{2} 10 ft.^{3} = 1 ton

Footage	Interval	Tonnage and Grade
1078.0 - 1143.0	65.0	4,144,400 tons of 1.862 % Cu
1306.0 - 1313.0	7.0	0,446,320 tons of 0.780 % Cu
1078.0 - 1313.0	235.0	14,983,600 tons of 0.636 % Cu

Hole A-979 Area of influence 840,000 ft.^{2} 10 ft.^{3}= 1 ton

Footage	Interval	Tonnage and Grade
708.0 - 718.5	10.5	0,882,000 tons of 3.018 % Cu
763.5 - 823.0	59.5	4,998,000 tons of 0.948 % Cu
834.0 - 870.0	36.0	3,024,000 tons of 1.180 % Cu
1399.0 - 1450.0	51.0	4,284,000 tons of 0.695 % Cu
1465.0 - 1497.5	32.5	2,730,000 tons of 1.049 % Cu

Hole A-979 (continued)

Footage	Interval	Tonnage and Grade
696.0 - 718.5	22.5	1,890,000 tons of 1.64 % Cu
763.5 - 870.0	106.5	8,946,000 tons of 0.937 % Cu
1130.0 - 1136.5	6.5	0,546,000 tons of 2.424 % Cu
696.0 - 1136.5	440.5	37,002,000 tons of 0.404 % Cu
1399.0 - 1497.5	98.5	8,274,000 tons of 0.799 % Cu
1315.0 - 1497.5	182.5	15,330,000 tons of 0.568 % Cu

Tonnage And Grade For Intervals of 1 % Or More

Hole A-979

Footage	Interval	Tonnage and Grade
696.0 - 718.5	22.5	1,890,000 tons of 1.640 % Cu
763.5 - 823.0	59.5	4,998,000 tons of 0.985 % Cu
834.0 - 870.0	36.0	3,024,000 tons of 1.180 % Cu
1465.0 - 1497.5	32.5	2,730,000 tons of 1.049 % Cu
1130.0 - 1136.5	6.5	0,546,000 tons of 2.424 % Cu
subtotal		13,188,000 tons of 1.182 % Cu

Hole A-974

374.0 - 511.0	137.0	10,521,600 tons of 1.012 % Cu

Hole A-973

925.0 - 968.0	43.0	1,969,400 tons of 1.230 % Cu

Hole A-969

1289.0 - 1295.5	6.5	312,780 tons of 1.453 % Cu

Hole A-978

1078.0 - 1143.0	65.0	4,144,400 tons of 1.862 % Cu
Total		30,136,180 tons of 1.225 % Cu

Total Tonnage And Grade Average

Hole A-979

Footage	Interval	Tonnage and Grade
696.0 - 1136.5	440.5	37,002,000 tons of 0.404 % Cu
1315.0 - 1497.5	182.5	15,330,000 tons of 0.568 % Cu

Hole A-974

374.0 - 511.0	137.0	10,521,600 tons of 1.012 % Cu

Hole A-973

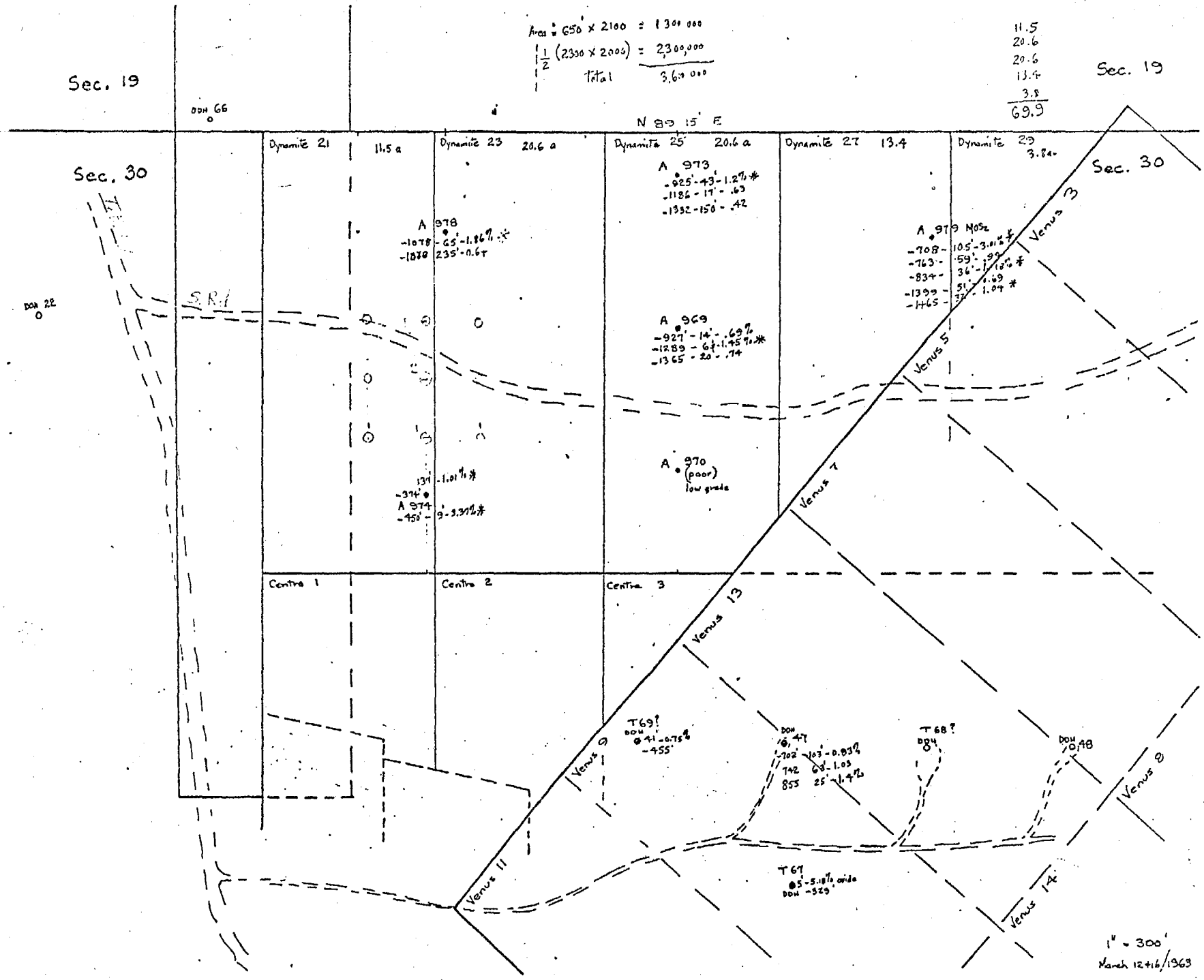
Footage	Interval	Tonnage and Grade
925.0 - 1216.0	291.0	13,327,800 tons of 0.411 % Cu
1332.0 - 1483.0	150.5	6,892,900 tons of 0.424 % Cu

Hole A-969

931.0 - 941.0	10.0	0,481,200 tons of 0.060 % Cu
1365.0 - 1385.0	20.0	0,962,400 tons of 0.740 % Cu
1289.0 - 1295.5	6.5	0,312,780 tons of 1.453 % Cu

Hole A-978

1078.0 - 1313.0	235.0	14,983,600 tons of 0.636 % Cu
	Total	99,814,280 tons of 0.539 % Cu



Attach Warren Report

LOGS, EDWARDS CLAIMS
Summarized from Anaconda detailed logs

T 17S, R 12 E

Hole No.

D106 1331' Banner hole NW/NW 17 No log
281-283.5 0.51 % Cu fng(?)

D273 1192' on map, log 757.5' All fng, SW/SW16 1961
Ann Sullinger #31 claim

421 925' NE/NW 28
0-681 all
-808 ls, some qts, slt, sandy slt
-833 EOH 1/11/65 Broken zone in qts
-925 lt gry qts, feldspathic (hole re-entered)

424 750' 1/23/65 all fng SE/NE 20

442 479' 3/11/65 SE/SE 20
-470 fng
-474 ?
-479 gar seds .02% Cu (visible $CuFeS_2$)

443 1500' 3/3/65 SW/NE 20
-245 all
-1500 EOH 4/16/65 fng

444 1526' EOH 4/20/65 all fng ~~(not on map)~~

446 331' EOH 5/5/65 all fng SW/SE 13

450 817' EOH 7/22/65 all fng SE/SE 13

467 695' SE/NW 21
-340 br fng(?)
-695 EOH 6/27/66 drk & lgt gry ls, lgt yel brn ls, silty ss, sandy ls to limy ss, buf gry ls, slt, etc.
(no mention of skarn)

483 869' Fan group NE/SW 19
-215 fng
-329 ls bx
-378 gar & alt ls, calc sil argl, Cu Ox, Cu_2S, bx
-484 ls fng, minor to mod CuOx, some Cu_2S (?)
-869 Gar seds, mns
776-780 dike, prob QMP w/aph grdns
-946 EOH fng
Max: 325-378 av .8-1.0% Cu
481-515 " " "
569-603 " .75
661-681 " .5
841-869 " .5

491 727' SE/NW 21
-435 sand & gravel silty sandy lms slt, etc. (no mention of skarn)
-727 EOH 4/6/67 silty sandy ls slt, etc. (no mention of skarn)
silty sand ls slt etc. (no mention of skarn)

RECEIVED
FEB 13 1976
GEOLOGICAL DEPT.

From V.E. Keal

①

Logs, Edwards Claims (cont'd)

Jim
This is the best I could find

534 957' all fng 12/19/64 SE/NE 17

535 1010' CDH 8/24/64 NW/NW 18
-485 fng (?)
-1010 EOH, cong (fng ?) 12/14/64

582 755' all fng 3/31/66 NE/SE 18

971 1504' all fng NW/SE 19

975 1246' just N of Dynamite SW/SE ~~(or SE/SE)~~ 19
-309 fng
-688 gar & sil ls & slt, loc qtz & chdny stringers, Cu_2S & $CuFeS_2$
-812 QMP shattered & alt FeS_2 grt than $CuFeS_2$ & MoS_2
-1246 EOH fng

Mms: (av approx)	309-378	.8%Cu	
	378-344	.18	
	444-485	.75	(485-581 poor core recov)
	548-560	.35	
	568-574	.75	
	574-614	.18	
	643-695	.7	

976 1300' SE/SE 19
-138 sil
-492.5 frag bm cng of sil gar ls, some CuOx cement, some chdny & qtz massas & seams
-1300 fng

977 723.5' SW/SE 19
-230 sil & fng
-322 ls cng
-387 ls bx to cng
-696 qtz gar ls, limy slt, slt
-709 QM (?) mod to stg alt, weak $CuFeS_2$, trace MoS_2
-710 (?) fng feldspathic qtz, trace $CuFeS_2$
-723.5 fng

mms: (approx av)	395-405	.25% Cu
	567-642	.5
	713-723.5	.25

980 1434' Fan Group all fng occ 6" of .5 - .6% Cu NW/SE 19

981 2111' 700' SE of 980 SE/SE 19
-2050 fng
-2053 broken QMP, weak $CuFeS_2$
-2073 gar seds
-2111 QM loc porph, trace FeS_2 & $CuFeS_2$ on stringers
mms: 2053-2055 8.5% Cu gar, near mass $CuFeS_2$
2055-2061 .5

984 860' SW/SE 19
-181 sil & fng pyroclastics, sil & alt ls, some CuOx
-255 ls cng, some gar
-508 gar sil ls, sil limy slt. qtz. alt slt

-702 QM part porph, strongly alt, broken, loc chl
-860 Zng

Mns: 255-311 .3% Cu 356-453 .6% Cu 508-702 QM less than .2% Cu.

MnZ:

p.(2)

Logs, Edwards Claims cont'd)

997 1365' near Twin Buttes Rd., just NW of SW cor Dynamite
-313 fng
-1242 meta alt sedm
-1265 QMP strong K spar flooding, lack of S except 1244-1247
-1363 EOH QM looks more like "granodiorite" bio in descrete blks, not strongly alt
mns: approx av 386-390 2.13% Cu
400-420 .5
499-520 .4
530-540 .5

1030 547' just SE of SW cor Dynamite
-119 caliche cng
-199 QM P(?) str alt
-205 alt, serp
-396 QM P(?) str alt, broken
-444 alt slt & ls
-485 QM P(?) alt
-547 sedm, some serp, many slips (EOH)
mns: 199-205 .35% Cu
407-416 .8

1032 1275' W of W side Dynamite
-779 cng & fng
-802 alt ls
-822.5 alt QMP (?)
-1247 ls & dol, some argl, all alt
-1258 QM P(?)
-1260 argl
-1275 EOH QM P(?) looks like Cooper's granodiorite
mns: 822.5-868 av approx 1% Cu

1039 752' 200' E of 1030, 300' N of SW cor Dynamite
-125 QM P(?) str alt (-120 fng)
-142 silty ls, str alt
-373 QM P(?) str alt
-390 gar silty ls
-395 QMP str alt
-399 gar silty ls
-405 QMP str alt
-448 silty ls
-484 fault zone
-618 serp ls
-737 QMP str alt, bx
-752 EOH serp ls 9/9/66
mns: approx av 118-142 .6% Cu
373-399 .5
419-448 .4

1091 800' Fan #5 SE/SW 19
-522 cng &fng
-722 alt blue gry ls w/some qtz
-800 EOH fng
mns: 525-572 .15% Gu 640-703 2.10% Gu
572-602 .26 (602-703 1.49)
602-640 .48 703-722 0.10

Logs, Edwards Claims (cont'd)

1107 760' all frg Helmet Peak NE-NW 18

1107 760' [illegible]

1136 402' all frg? EDH Helmet Peak-Mendez #4 10/26/68 NW/NW 18

1174 1064' Helmet Pk. Ann Sullinger #15 SW/NW 18
-372 cuttings "washed"
340-372 arkose (br at 340)
-717 EOH frg
-891 and porph, Turkey Track
-917 frg
-1064 EOH 1/12/74 gr & shc mafic. Notes: Mafic intruded by lt col equi grn granite, gen chl & kaol, some close to QM less alt

1183 2514' Tuss #6 N of Edwards NE/NE 18
-79 all(?)
-215 Turkey Track and
~~-1499 frg~~
-1706 EOH frg
-1839 frg
2514 EOH bio rhy tuff

1200 513' NE/NW 21
-386 frg
-461 ls & mixed ls-qte bx
-513 EOH 4/28/68 gr, somewhat alt milky felds & pink K spar w/patchy and/or flakes chl & bio, some FeOx & Fe_3O_4 some bx & rehealing

1202 1594' Elizabeth mine SE/NW 24
-1227 frg
-1266 frags ls, qte, gar ark qte in silty sandy matrix
-1442 mixed ark qte, slt
1415-1424 qtzose limey stringers to near massive FeS_2 w/scat PbS & ZnS mixed w/ FeOx
-1451 clastic tuff frags, reworked
-1502 frg(?) qte bx
-1548 frg, mixture ls & qte bx
-1594 EOH 7/25/68 frg (1502 EOH 6/24/68)
mm: 1230-1239 .14- .36% Cu
1365- 1366.5 .25% Cu .68% Zn .31% Pb
1415-1424 little Cu .21% Zn .21% Pb

1204 915' SW/SW 19
-691 frg
-843 ls
sharp contact
-915 frg EOH 8/14/68
mm: 251- 261 .20% Cu 721-829 .13% Cu 829-843 1.13% Cu

1235 975' All frg 4/1/70 NE/NE 30 near sec cor (out of numerical order)
950-975 some ls frags show gar & FeOx

1207 1299' all frg 9/9/68 SW/SW 19 1060-1065 .37% Cu

Logs, Edwards Claims (cont'd)

1208 1572' GWT group Midland #6 SE/SE 24
-1262 fng
-1331 serp alt ls
-1512 crs xl pinkish ls
-1572 EOH 10/11/68 strg alt grd, somewhat bx & rehealed, bio to chl, abundant pink K spar, trace S

1209 1363' GWT group Midland #6 SE/SE 24
-936 fng
-1190 pinkish crs xl ls
-1296 serp alt silty ls
-1363 EOH 11/6/68 alt grd , trace Fe_3O_4, trace to nil S

1210 1760' GWT group Midland #26 NE/SE 24
-805 fng
-848 bio porph pyritic and
-1617 fng
-1696 ark & ark qts
-1708 fault zone
-1760 EOH 12/20/68 strg alt gr or grd, bx destroyed text

1218 1015' Emmons #17 NW/NW 21
-831 fng
-858 blu gry ls
-952 slt, 952 strg bx crushing
-985 qts
-1015 ls

1219 915' Fan #3 SW/SW 19
-523 fng
-708 blu gry ls, bx to frgmtl bx (?), fng(?)
-816 EOH 3/11/72 gar & minor calc sil argl; loc mod to strg $CuFeS_2$, FeS_2, setrd ZnS, PbS, MoS_2
-915 EOH 3/5/72 as above
mns: 708-713 5.36% Cu 713-862 .16% Cu
724-734 .4 862-915 .97
774-779 .73 also other spots mns

1235 (see page 4)

1242 1125' Venus #5 NE/NE 30
-889 fng
-1064 ls fng, increase ls skarn w/depth, some qts & clastics
979-994 skarn frgs Cu_2S, Cu_2O, Cu
-1125 EOH 2/21/72 rad gng
mns: 981-1004 .69% Cu

1299 650' all fng 358-650 wk to loc fair CuOx E side sec 20 near ¼ cor

1308 631' SE/SW 21
4-197 gry ls, some change
-500 md to dk gry fossil ls, lower 116' charty
-594 dk to lt gry fossil ls , some sandy
-631 EOH as to qts