



CONTACT INFORMATION
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Arizona Geological Survey
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Tucson, Arizona 85701
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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Safford Branch, P. O. Box 151, Safford, Arizona 85546

March 28, 1983

Mr. Paul Handverger
13 Old Jerome Highway
Clarkdale, AZ 85324

Dear Paul:

Enclosed is a copy of an MSHA report regarding a federal inspection of operations at the Edith Shaft on February 1, 1983. No citations were issued.

Yours very truly,

A handwritten signature in cursive script that reads "S. C. Holmes".

S. C. Holmes
Vice President and General Manager
Small Mines and Mine Development

SCH:lw
Enclosure

cc: C.F. Arnold w/encl.

U. S. Department of Labor

Mine Safety and Health Administration
 2721 North Central Avenue, Room 900
 Phoenix, Arizona 85004



March 18, 1983

S. C. Holmes, Vice President
 Phelps Dodge Corporation
 P.O. Box 151
 Safford, Arizona 85346

Dear Mr. Holmes:

A Federal inspection of the Edith Shaft, I.D. No. 02-02066, Jerome, Yavapai County, Arizona, was conducted on February 1, 1983. The inspection was made pursuant to Public Law 91-173 (83 STAT. 742) as amended by Public Law 95-164 (91 STAT. 1290).

Actions taken as a result of this inspection were:

ORIGINAL ACTION THIS INSPECTION	TYPE AND NUMBER OF ACTIONS:					
	Issue	Terminate	Modify	Extend	Rep by Order	Vacate
Citations						
Orders						
ACTIONS ON PREVIOUS VIOLS.	0					
	Issue	Terminate	Modify	Extend	Rep by Order	Vacate
Citations						
Orders						

	INCIDENCE RATES			Time Period
	Fatal (Degree 1)	NFDL (Degrees 2-5)	NDL (Degree 6)	
This Operation	0	0	0	Jan - Sep 1982
Nat'l Mine Type	.09	6.10	4.19	Jan - Sep 1982

Sincerely,

Vernon R. Gomez
 Vernon R. Gomez
 Subdistrict Manager

MAR 23 1983

U. S. Department of Labor

Mine Safety and Health Administration
 2721 North Central Avenue, Room 900
 Phoenix, Arizona 85004



*CC to H. EDSELL
 S. SARIANO*

May 20, 1983

S. C. Holmes
 Vice President
 Phelps Dodge Corporation
 P. O. Box 151
 Safford, AZ 85346

Dear Mr. Holmes:

A Federal inspection of the Edith Shaft, I.D. No. 02-02066, Jerome, Yavapai County, Arizona, was conducted on April 21, 1983. The inspection was made pursuant to Public Law 91-173 (83 STAT. 742) as amended by Public Law 95-164 (91 STAT. 1290).

Actions taken as a result of this inspection were:

ORIGINAL ACTION THIS INSPECTION	TYPE AND NUMBER OF ACTIONS:					
	Issue	Terminate	Modify	Extend	Rep by Order	Vacate
Citations	0					
Orders						
ACTIONS ON PREVIOUS VIOLS.						
		Terminate	Modify	Extend	Rep by Order	Vacate
Citations	0					
Orders						

	INCIDENCE RATES			Time Period
	Fatal (Degree 1)	NFDL (Degrees 2-5)	NDL (Degree 6)	
	This Operation	0	0	0
Nat'l Mine Type	.09	5.93	4.11	Dec 1982

Industrial hygiene samples, collected during this inspection, require laboratory analysis. You will receive a supplement to this Inspection Report upon completion of the analysis.

Sincerely,

Vernon R. Gomez
 Vernon R. Gomez
 Subdistrict Manager

MAY 31 1983

UNITED STATES DEPARTMENT OF LABOR
MINE SAFETY AND HEALTH ADMINISTRATION
METAL AND NONMETAL MINE SAFETY AND HEALTH

Suite 900, 2721 North Central Avenue
Phoenix, Arizona 85004

Mine Name Edith Shaft Identification No. 02-02066

Company Name Phelps Dodge

SUPPLEMENT TO INSPECTION REPORT DATED April 21, 1983

Complete mine gases sample results and other pertinent data are included
in the attachment.

JUN 18 1983

Miscellaneous Contaminants
Sampling Results

U. S. Department of Labor
Mine Safety and Health Administration

Mine ID Number: 02-02066 Date of Sample(s): 4/21/83 Contaminant: Gas Vapor Mist Other (specify)

Mine Name: Edith Shaft Company Name: Phelps Dodge Address: P. O. Box 151
Safford, AZ 85546

Name and Social Security Number	Occupation and Location	Sample Number	Sampling Time (min)	Contaminant Name Mine gases	Contaminant Concentration ()**	SWA or TWA* ()**	TLV ()**	Comments
	1104 Diamond Drill Sta	53996	9:45	Oxygen	0	20.80	19.5%	
	1104 Diamond Drill Sta	53996	9:45	Carbon Dioxide	CO ₂	.15	500 PPM	
	1104 Diamond Drill Sta	53996	9:45	Carbon Dioxide <i>MON</i>	CO	00.00	50 PPM	
	1104 Diamond Drill Sta	53996	9:45	Carbon Dioxide	Chy	0.00	-----	



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

HEALTH AND SAFETY INSPECTION REPORT

COMPANY NAME: PHELPS DODGE CORPORATION
MINE/PLANT NAME: Safford Project-Edith Shaft
MAILING ADDRESS: Box 157
Safford, AZ 85546
MINE/PLANT LOCATION:

PHONE NUMBER:

IDENTIFICATION NUMBER:

This report is based on an inspection made pursuant to Arizona Revised Statutes Section 27-124 and Section 27-128.

DATE OF INSPECTION: 1/3/83
TYPE OF OPERATION: Underground
PRINCIPAL PRODUCT: Gold
COUNTY: Yavapai
INSPECTION PARTY:
NUMBER OF EMPLOYEES:
Harry Edsall, Superintendent
David Hamm, Deputy Mine Inspector

NOTE: No violations observed on this date.

cc: Phelps Dodge Corporation

JAN 18 1983



January 27, 1983

S. C. Holmes, Vice President
 Phelps Dodge Corporation
 P.O. Box 151
 Safford, AZ 85346

Dear Mr. Holmes:

A Federal inspection of the Edith Shaft, I.D. No. 02-02066, Jerome, Yavapai County, Arizona, was conducted on November 17, 1982. The inspection was made pursuant to Public Law 91-173 (83 STAT. 742) as amended by Public Law 95-164 (91 STAT. 1290).

Actions taken as a result of this inspection were:

ORIGINAL ACTION THIS INSPECTION	TYPE AND NUMBER OF ACTIONS:					
	Issue	Terminate	Modify	Extend	Rep by Order	Vacate
Citations	0					
Orders	0					
ACTIONS ON PREVIOUS VIOLS.	0					
	Issue	Terminate	Modify	Extend	Rep by Order	Vacate
Citations						
Orders						

	INCIDENCE RATES			Time Period
	Fatal (Degree 1)	NFDL (Degrees 2-5)	NDL (Degree 6)	
This Operation	0	0	0	Jan thru
Nat'l Mine Type	.12	5.98	4.55	June 1982

Sincerely,

Vernon R. Gomez
 Vernon R. Gomez
 Subdistrict Manager

JAN 31 1983

Miscellaneous Contaminants
Sampling Results

U. S. Department of Labor
Mine Safety and Health Administration



Mine ID Number: 02-02066 Date of Sample(s): November 17, 1982 Contaminant: Gas Vapor Mist Other (specify)

Mine Name: Edith Shaft Company Name: Phelps Dodge Corp. Address: P.O. Box 151
Safford, AZ 85546

Name and Social Security Number	Occupation and Location	Sample Number	Sampling Time (min)	Contaminant Name	Contaminant Concentration ()**	SWA or TWA* ()**	TLV ()**	Comments
----	1101 Drift	47695	10:45	Complete Mine Gases	CO	2 ppm	50 ppm	
----	1101 Drift	47695	10:45	" "	CO ₂	1800 ppm	5000 ppm	
----	1101 Drift	47695	10:45	Oxygen		20.71%	19.5%	



Safford Branch, P. O. Box 151, Safford, Arizona 85546

October 22, 1981

Mr. Paul Handverger
13 Old Jerome Highway
Clarksdale, Arizona 85324

Dear Paul:

Since we expect to begin work at the Edith Shaft within the next week or two, I thought this would be an appropriate time to let you know how we stand on various facets of the Jerome project.

1. Bids have been received from contractors for filling and leveling the site, and for dismantling the existing timber headframe. The sheave wheels will be removed and stored. A formal contract is being drawn up and should be signed next week.
2. A separate contract has been awarded for fencing the work area.
3. A used 112-HP single-drum hoist has been acquired, overhauled, and reroped in our Bisbee shops.
4. A 42-ft. steel headframe complete with ore bin and cages has been purchased from a mine south of Tucson. Its dismantling will start today.
5. Drawings for adapting the existing hoist foundations for use with the new hoist have been completed and are being checked.
6. Bids have been obtained for renting or leasing various sizes of office-change room trailers.
7. The Arizona State Mine Inspector's office and the District Office of the Mine Safety and Health Administration have been informed of our planned activities at Jerome, and we have applied for the required MSHA identification number.

8. Arizona Public Service has been informed of our initial power requirements, and they believe that sufficient power is available from the 12,000-volt line which crosses the property.

If you have any questions, please give me a call.

Yours very truly,



S. C. Holmes
Vice President & General Manager
Small Mines and Mine Development

SCH:gmt

cc: R. T. Moolick



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303* we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME _____

CHIEF OFFICER _____

COMPANY ADDRESS _____

COMPANY TELEPHONE NUMBER _____

MINE OR PLANT NAME _____

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

TYPE OF OPERATION _____ PRINCIPAL PRODUCT _____

STARTING DATE _____ CLOSING DATE _____

DURATION OF OPERATION _____

PERSON SENDING THIS NOTICE _____

TITLE OF PERSON SENDING THIS NOTICE _____

DATE NOTICE SENT TO STATE MINE INSPECTOR _____

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.



29

Electrical

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26

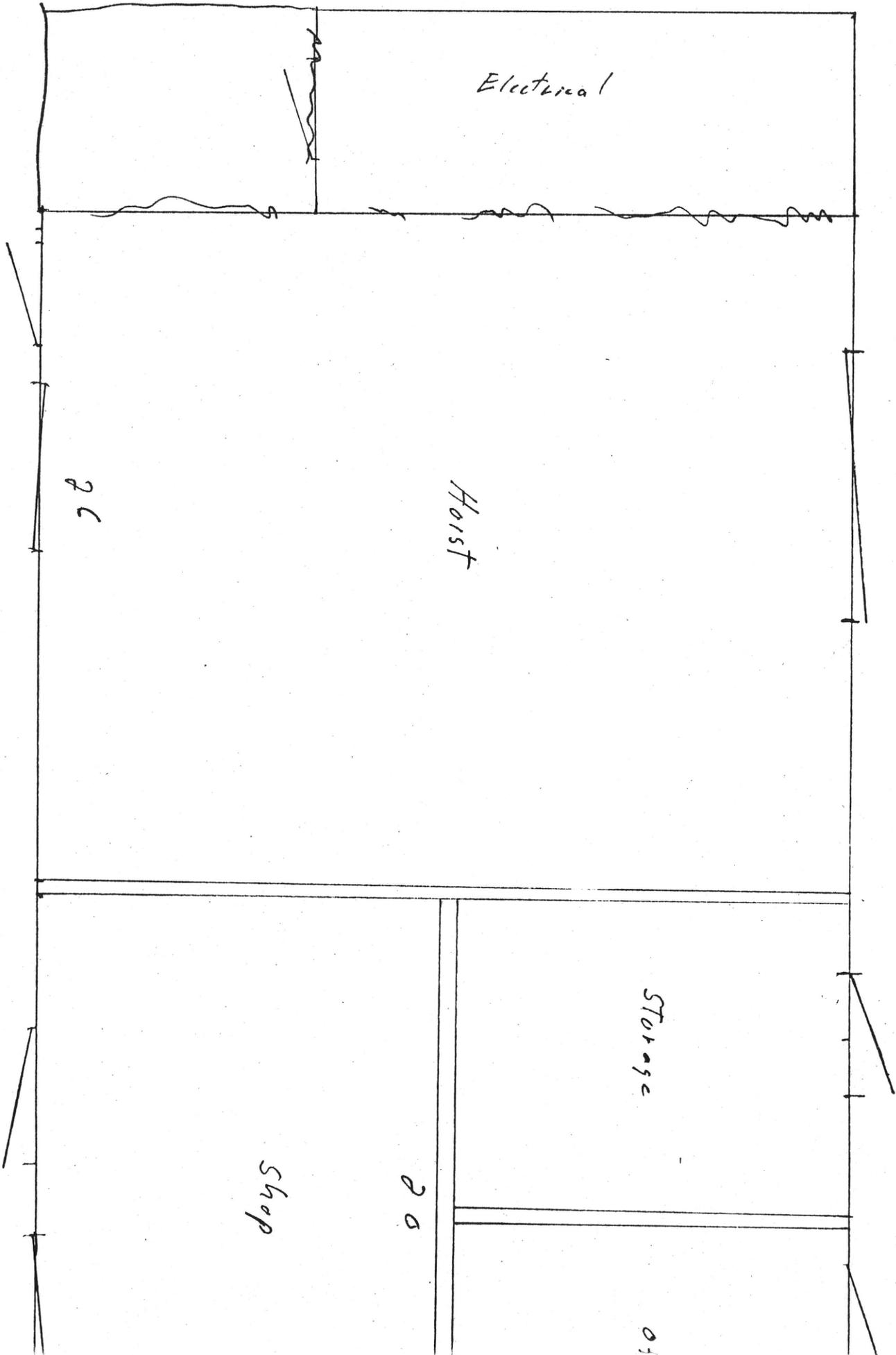
45

Storage

Shop

20

01



Legal Identity Report

U.S. Department of Labor
Mine Safety and Health Administration



This report is required by law (30 C.F.R. 41). Failure to report can result in assessment of a civil penalty. Knowingly making a false statement can result in criminal prosecution under § 110 of the Federal Mine Safety and Health Act of 1977.

Form Approved. OMB No. 44-R1677 Expires Sep 1983

- Initial Notice
- Change Notice

Note: If more space is required in any section below please use a separate sheet.

Date **10/22/81**

Federal Mine Identification Number **02-02066** Mine Name **EDITH SHAFT**

Mine Address **JEROME** City **YAVAPAI** County **AZ.** State **86331** Zip Code

Commodity _____ Name of Operator **PHELPS DODGE CORPORATION** Signature of Person Completing Form _____

Person at Mine in Charge of Health and Safety

Name and Title **F. R. Vierthaler** Address **Phelps Dodge Corporation**
General Mine Foreman **Safford Branch**
P. O. Box 151, Safford, Az. 85546

Person with Overall Responsibility for a Health and Safety Program at All of the Operator's Mines, if the Operator is Not Directly Involved in the Daily Operation of the Mine

Name and Title _____ Address _____

Federal Mine Identification Numbers of All Other Mines in which the Sole Proprietor, Partnership, Corporation, or Other Organization Has a 20% or Greater Ownership Interest

ID Numbers
SEE ATTACHMENT NO. 1

Federal Mine Identification Numbers of All Other Mines in which Any Partner, Corporate Officer, or Other Organization Official Or Member Has a 20% or Greater Ownership Interest [not applicable to sole proprietorship]

ID Numbers

Address of Record and Telephone Number [service of documents upon the operator will be completed by mailing the documents to this address]

Name **S. C. Holmes** Title **Vice President & Gen. Manager** Telephone Number **602-428-6900**
Small Mines & Mine Develop.

Street Address **P. O. Box 151** City **Safford,** State **Az.** Zip Code **85546**

Please Check the Appropriate Box and Complete the Applicable Section

- I. Sole Proprietorship
- II. Partnership
- III. Corporation
- IV. Other

I. Sole Proprietorship

Trade Name _____ Proprietor _____

Proprietor's Address (street) _____ City _____ Zip Code _____



December 4, 1981

Mr. Paul Handverger
13 Old Jerome Highway
Clarkdale, Arizona 85324

Dear Paul:

Here is an update on our work at the Edith Shaft in Jerome:

1. The work site has been filled, leveled, and fenced.
2. The old timber headframe has been removed.
3. A septic tank and leach field have been installed.
4. As of December 2, the new headframe was in place. About a day's work remains to complete some minor modifications and the headframe will be ready for service.
5. The hoist foundations have been completed, and the hoist is in place. Grouting the base plate and completing the electrical wiring will be deferred until the hoist house has been erected.
6. The contract for the hoist house was awarded on December 2, and work will start on December 7. Installation of footings and floors, and erection of the building should require no more than two weeks.
7. A 10'x32' leased changeroom trailer will be delivered to the site next week.
8. A crew consisting of a foreman and three shaft miners will begin work in the manway on December 14.

9. Arizona Public Service is moving slowly to provide the requested electrical power service. Our Douglas Purchasing Department is working on this problem.

If you have any questions, please give me a call.

Yours very truly,



S. C. Holmes
Vice President & General Manager
Small Mines & Mine Development

SCH:lw

cc: R. T. Moolick



Safford Branch, P. O. Box 151, Safford, Arizona 85546

January 18, 1982

Mr. Paul Handverger
13 Old Jerome Highway
Clarkdale, AZ 85324

Dear Paul:

Herewith an update on progress at the Edith Shaft as of January 15, 1982:

1. Arizona Public Service finally provided electrical power at the site early in January.
2. Erection of the hoist building was completed on January 4.
3. A leased 490 CFM electrically-powered air compressor was received and is in service.
4. Final electrical connections and mechanical adjustments on the hoist will be finished on January 19, and a hoist engineer, assigned from the Safford Branch, will begin work on January 20.
5. A cage will be installed in the middle compartment of the shaft on January 20, followed by installation of guides in the headframe. (It appears that at least some of the existing guides in the shaft may be serviceable.)
6. Shaft miners, working with air tuggers mounted at the shaft collar, have replaced manway timber to a depth of 525 feet. Except for a few cleats, all of the manway timber has had to be replaced; many of the landings and ladders were missing entirely. The first shaft station, located 330 feet below the surface, was in good condition.

Mr. Paul Handverger,

-2-

January 18, 1982

Depending upon conditions encountered deeper in the shaft, we hope to complete the shaft repair work before the end of February.

If you have any questions, please give me a call.

Yours very truly,



S. C. Holmes
Vice President & General Manager
Small Mines & Mine Development

SCH:lw

cc: R. T. Moolick



Safford Branch, P. O. Box 151, Safford, Arizona 85546

February 23, 1982

Mr. Paul Handverger
13 Old Jerome Highway
Clarkdale, Arizona 85324

Dear Mr. Handverger:

Our crew at Jerome reached the 1100 Level of the Edith Shaft on February 21. The station is in good shape, although a raise from below comes out right in the middle of the station floor. A preliminary inspection of the level showed conditions as indicated on the attached sketch.

The crew is now replacing guides in the middle compartment of the shaft. When this work is completed, they will:

1. Extend air and water lines down the shaft to the 1100 Level.
2. Install turnsheets and rail at the shaft collar and on the 1100 Station.
3. Install bearing timber and floor over the raise under the 1100 Station.
4. Install track back to the area marked "partially caved" on the 1100 Level, and begin opening the drift.

Yours very truly,

S. C. Holmes
Vice President & General Manager
Small Mines and Mine Development

SCH:gmt
Attach.

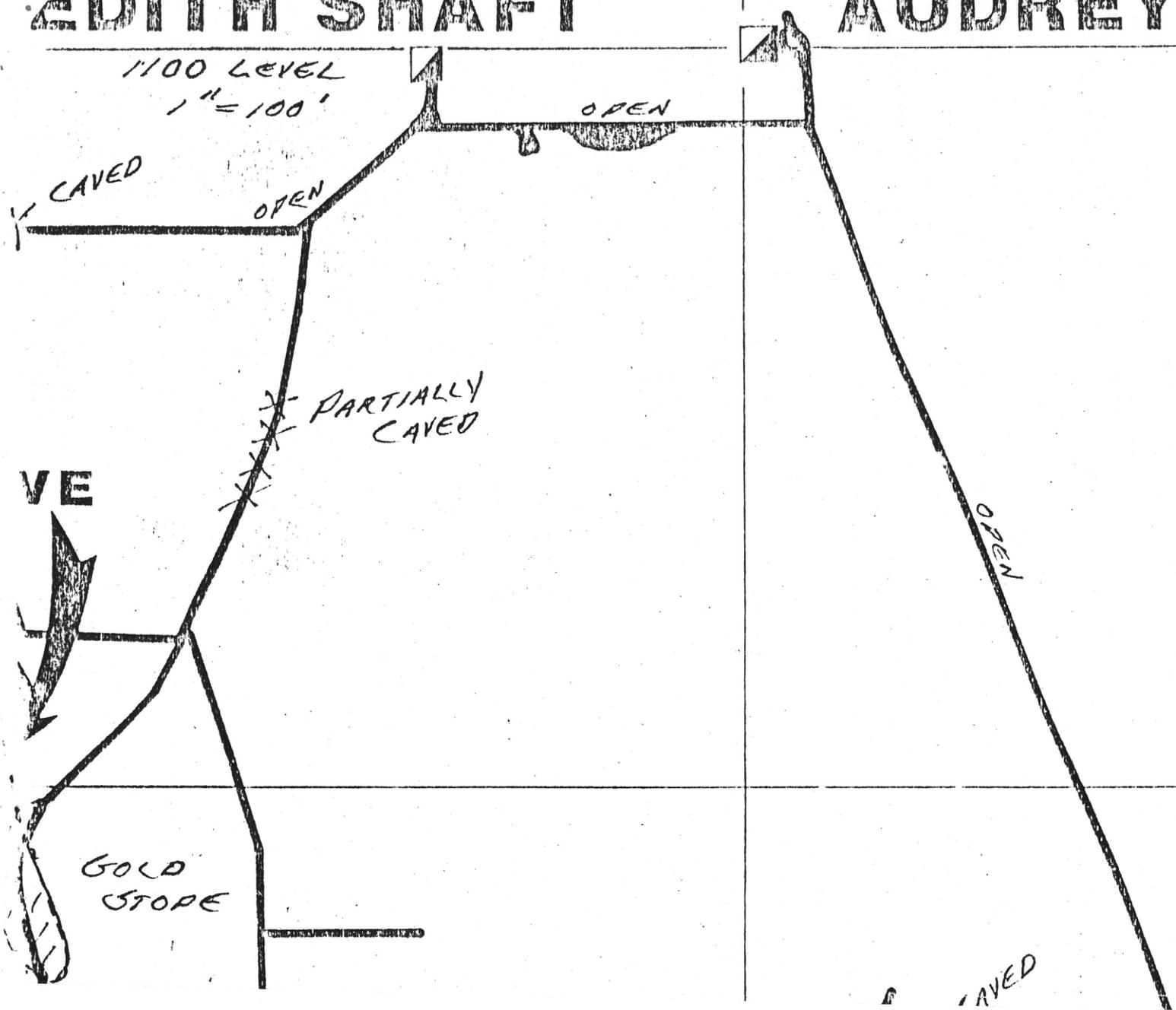
cc: C. F. Arnold
F. J. Menzer

EDITH SHAFT

AUDREY

1100 LEVEL

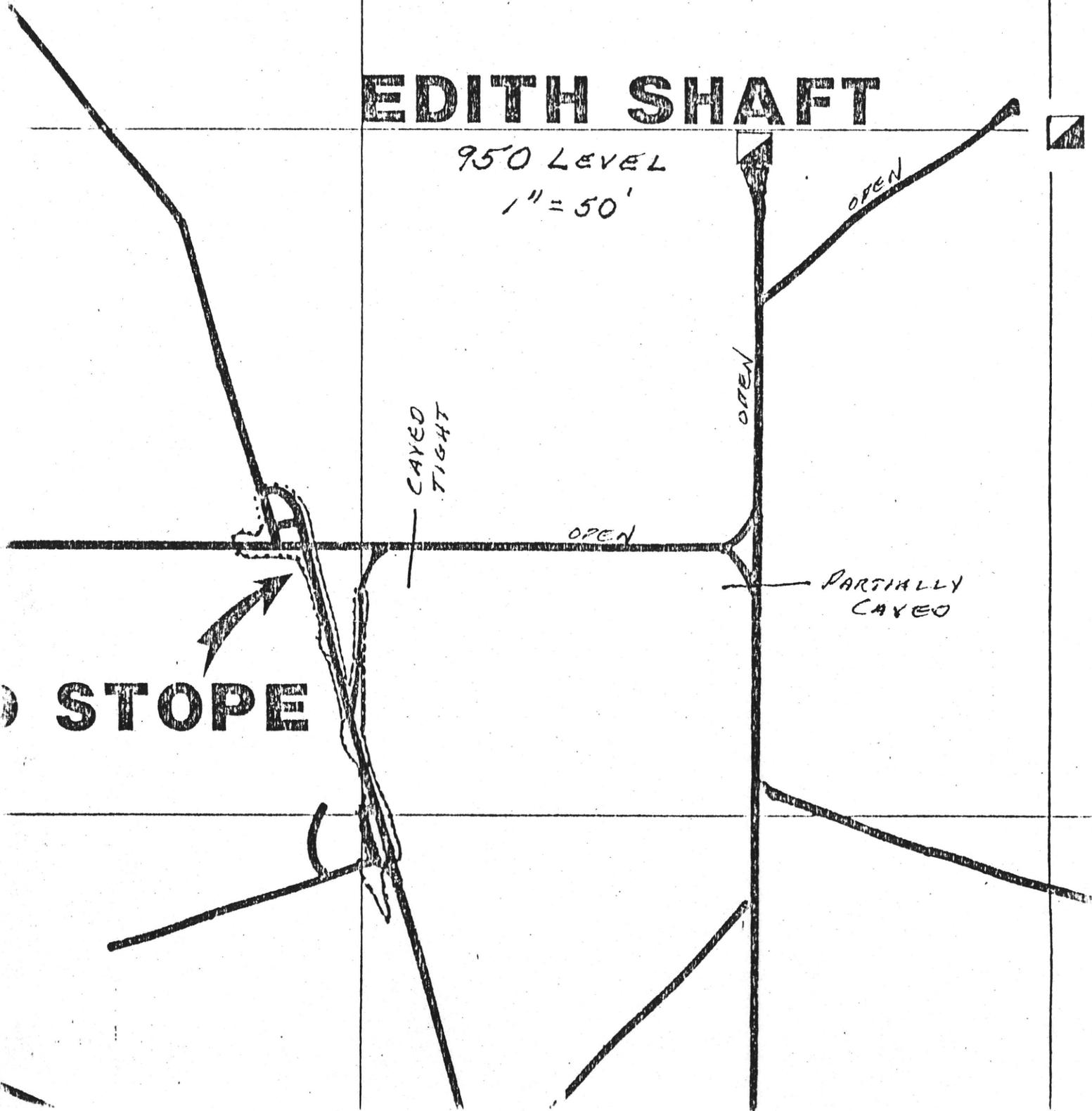
1" = 100'



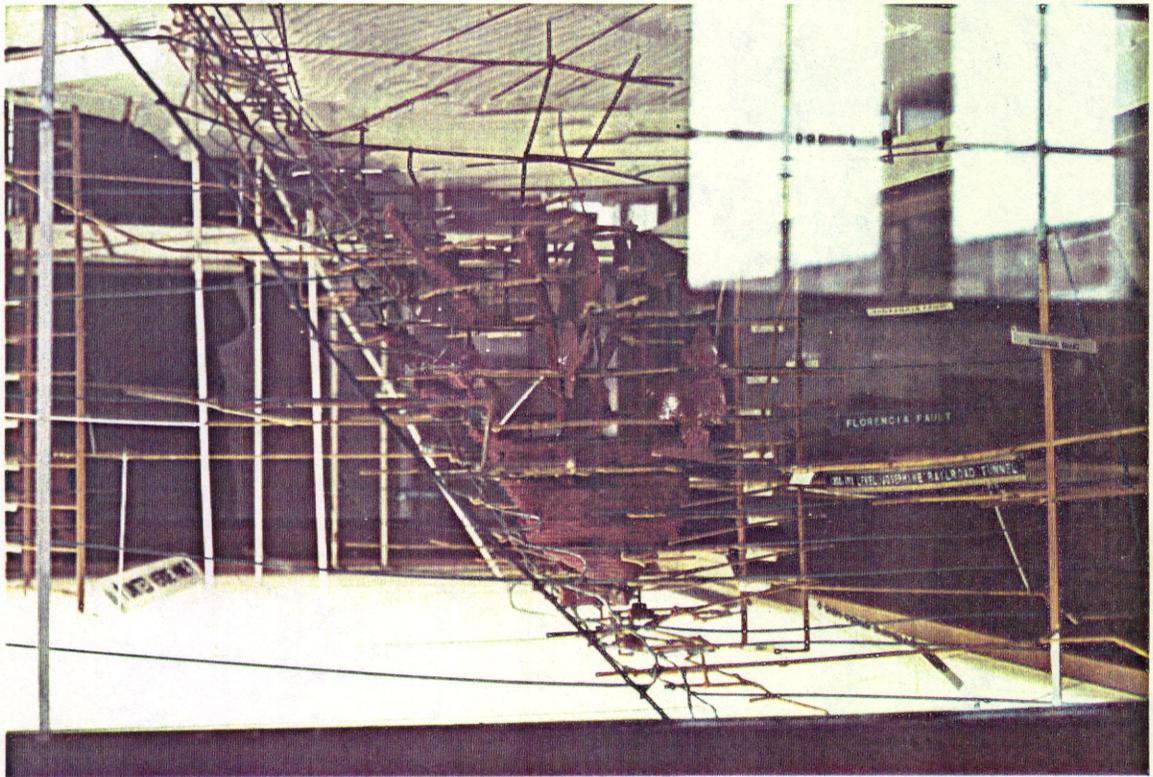
2/11/82

EDITH SHAFT

950 LEVEL
1" = 50'



STOPE



Same mine model, looking north-northwest in the plane of the Verde fault (blue). UVX stopes are red. The main orebody is lower center. Thinner, lobate orebodies are arrayed over the main orebody, behind and north of it, and as fault drag toward the upper left.

PLAN SHOWING UVX MINE DEVELOPMENT IN THE FOOTWALL OF THE VERDE FAULT, VERDE DISTRICT, ARIZONA

ADAPTED FROM UVX MINE PLANS SHOWS LOCATION OF SET OF FOUR CROSS SECTIONS (AT 1/2"=200')

UVX GRID



EXPLANATION

- DIORITE
- CLEOPATRA QUARTZ PORPHYRY
- DECEPTION RHYOLITE

ALTERED: BASED ON THIN SECTION STUDY BY P.A.H. ON RANSOME SPECIMENS