



## **CONTACT INFORMATION**

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PRINTED: 09/12/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: YARNELL

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 278

LOCATION: TOWNSHIP 10 N RANGE 5 W SECTION 14 QUARTER SW  
LATITUDE: N 34DEG 12MIN 22SEC LONGITUDE: W 112DEG 44MIN 52SEC  
TOPO MAP NAME: YARNELL - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

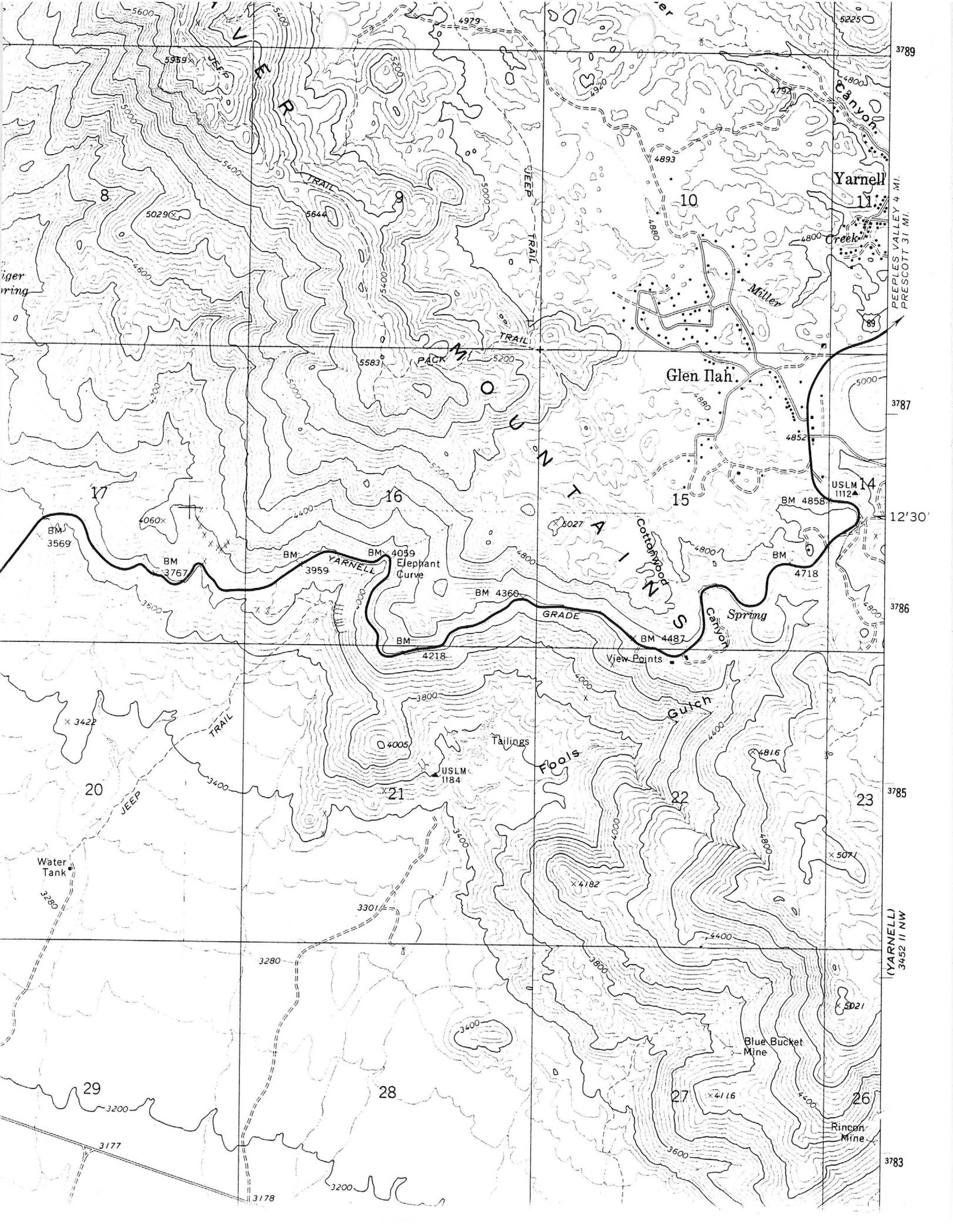
COMMODITY:

GOLD  
SILVER  
COPPER  
LEAD

BIBLIOGRAPHY:

USGS YARNELL QUAD  
ADMMR YARNELL MINE FILE  
METZGER, O.H. GOLD MINING AND MILLING IN THE  
WICKENBURG AREA USBM IC 6991 1938 P 34  
BLM AMC FILE 33458, CLAIMS EXTEND TO SEC. 23  
BLM DRAFT EIS YARNELL MINING PROJECT 6/1998  
ADMMR YARNELL MINE COLVO FILE  
AGS 1990 FALL FIELD TRIP GUIDE

SEE: UNCAT. MAPS ON DECK 3'x4' DRAWINGS - 2007-NTD



3789  
3787  
12'30"  
3786  
3785  
3783

PEEPLERS VALLEY 4 MI.  
PRESCOTT 3 MI.

(YARNELL)  
3452 II NW

Yarnell

Glen Dale

YARNELL MOUNTAINS

COTTONWOOD CANYON

Creek

Miller

PACK TRAIL

TRAIL

Glen Dale

Elephant Curve

Tailings

Gulch

Fools

Blue Bucket Mine

Rincon Mine

Water Tank

Spring

View Points

Cottonwood Canyon

GRADE

Spring

Water Tank

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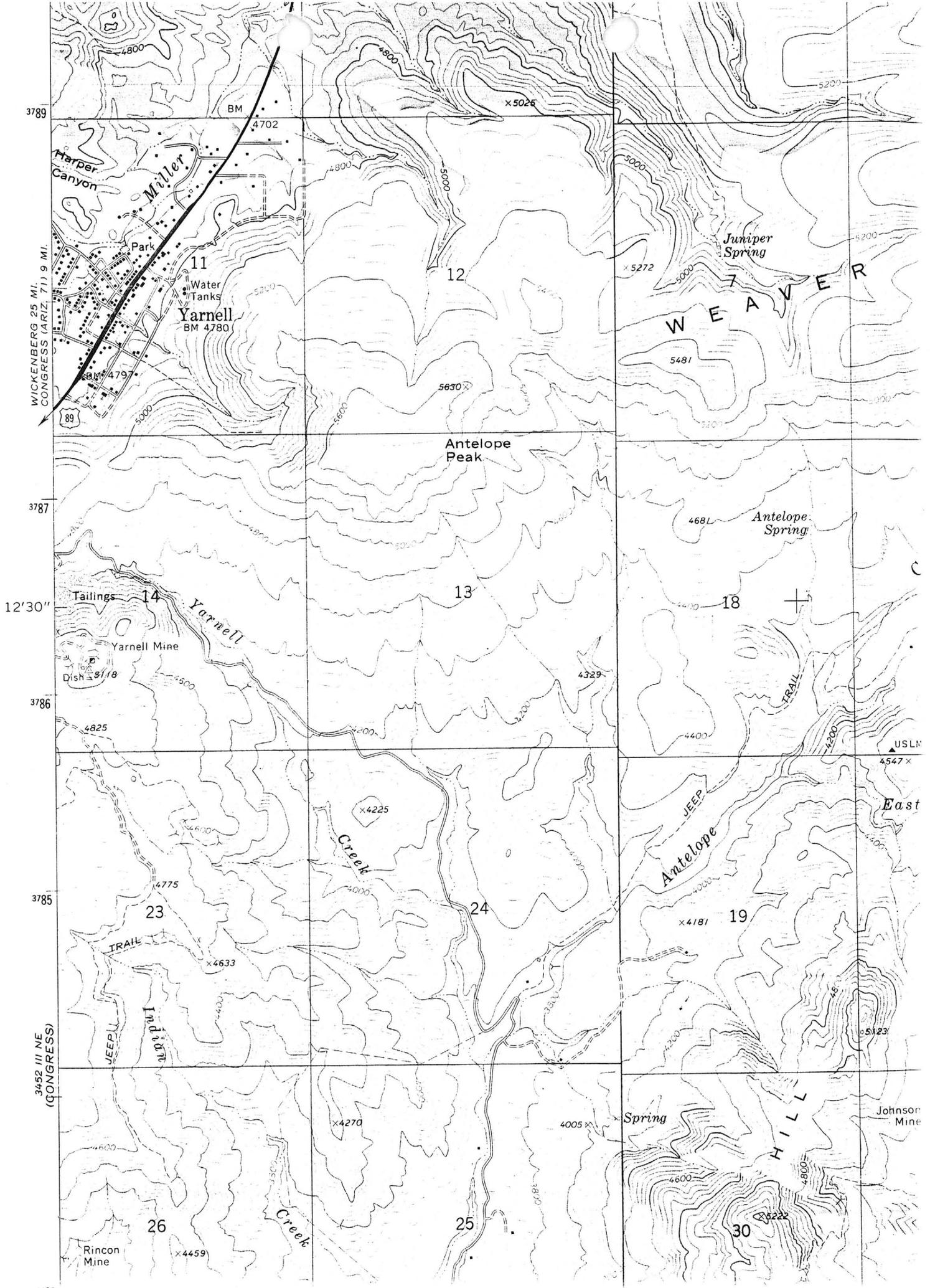
Spring

Water Tank

Spring

View Points

C



WICKENBERG 25 MI.  
CONGRESS (ARIZ. 71) 9 MI.

89

3789

3787

12'30"

3786

3785

3452 III NE  
(CONGRESS)

BM 4702

x5025

5200

Harper Canyon

Miller

11

Water Tanks

Yarnell

BM 4780

12

Juniper Spring

WEAVER

5481

5630

Antelope Peak

Antelope Spring

18

Tailings

14

Yarnell

Yarnell Mine

Dish

13

USLM

4547

East

Antelope

19

23

24

TRAIL

TRAIL

26

Rincon Mine

x4459

x4270

4005

Spring

HILL

Johnson Mine

30

x5222

Sec. 10

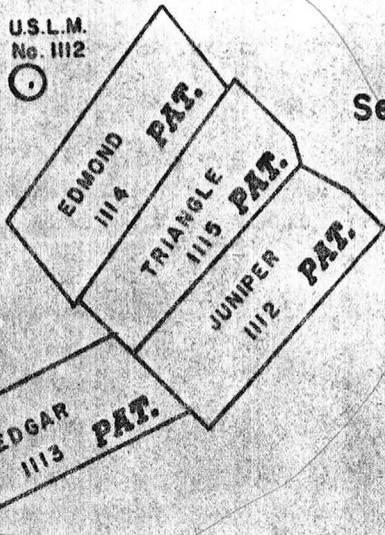
Sec. 11

YARPELL MINE  
TION RSW

Sec. 15

Sec. 14

U.S.L.M.  
No. 1112



EDGAR  
1113 PAT.

MOTHER

1201

PAT.

NSM - 1985

RIGHT VIEW  
4000 PAT.

\* GENERAL REFERENCES

- REFERENCE 1 F1 < USBM I.C. 6991, 6992 - 39
- REFERENCE 2 F2 < USBM- ABG MT FILE DATA
- REFERENCE 3 F3 < ABG MT CLIPPINGS FILES
- REFERENCE 4 F4 < AZ DEPT MIN. RESOURCES FILES.

Mila # 278

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < \_\_\_\_\_ > RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < \_\_\_\_\_ >  
 REPORT DATE G1 < 8, 1, 11 > INFORMATION SOURCE B30 < 1, 2 > FILE LINK IDENT. B50 < USBM 004 025 1623 >  
YR. MO.  
 REPORTER(SUPERVISOR) G2 < DEWITT, ED H > (last, first, middle initial) (last, first, middle initial)  
 REPORTER AFFILIATION G5 < ABG MT > SITE NAME A10 < YARNELL MINE >  
 SYNONYMS A11 < \_\_\_\_\_ >

LOCATION

MINING DISTRICT/AREA A30 < RICH HILL DISTRICT >  
 COUNTY A60 < YAVAPAI > STATE A50 < A.Z. > COUNTRY A40 < U.S. >  
 PHYSIOGRAPHIC PROV A63 < 1, 2, B, >  
 DRAINAGE AREA A62 < 1, 5, D, 7, 0, 1, 0, 3, B, > LAND STATUS A64 < \_\_\_\_\_ >  
 QUADRANGLE NAME A90 < YARNELL (1, 9, 6, 9, ) > QUADRANGLE SCALE A100 < \_\_\_\_\_ >  
 SECOND QUAD NAME A92 < \_\_\_\_\_ > SECOND QUAD SCALE A91 < \_\_\_\_\_ >  
 ELEVATION A107 < 5, 1, 1, 0, B, FT. >

UTM  
 NORTHING A120 < 3, 7, 8, 6, 1, 7, 0 >  
 EASTING A130 < 3, 3, 8, 9, 7, 0 >  
 ZONE NUMBER A110 < 1, 2 >

\*ACCURACY  
 ACCURACY ACC (circle)  
 ESTIMATED EST < \_\_\_\_\_ >

GEODETIC  
 LATITUDE A70 < \_\_\_\_\_ N >  
 LONGITUDE A80 < \_\_\_\_\_ W >

CADASTRAL  
 TOWNSHIP(S) A77 < 0, 1, 0, N, B, > RANGE(S) A78 < 0, 0, 5, W, B, >  
 SECTION(S) A79 < 14 >  
 SECTION FRACTION(S) A76 < C OF SW >  
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1.1 MILES SOUTH OF YARNELL, ARIZONA >  
 LOCATION COMMENTS A83 < UTM COORDINATES TO ONE SHAFT SURROUNDED BY NUMEROUS ADITS. MAIN WORKINGS ON JUNIPER CLAIM >

\* ESSENTIAL INFORMATION  
 + ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED



wt 142  
G-7 MM K144  
HX7X5.5 cu ft

MM K145  
wt 113  
HX7X7

MINERAL SPECIMEN FOR DEPARTMENT OF MINES AND ARCHIVES

(Do not write in this space)

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

Ore \_\_\_\_\_  
Cabinet \_\_\_\_\_  
No. \_\_\_\_\_

Specimen No. 8, collected by Carl G. Barth, Jr.  
Field Engineer

Name of ore Gold Ore

Operator Winslow Gold Mining Co.

Minerals contained Limonite, Gold

Mine active or inactive Active

Gangue Quartz, Granite

If inactive, when operated \_\_\_\_\_

Depth at which taken 150 feet

Specimen presented by \_\_\_\_\_

Approximate mineral content (in terms of average per ton) \_\_\_\_\_

Date March 15, 1940

\$ 6.00

Notes (Any general information regarding the history of the property.) \_\_\_\_\_

Name of mine or claim Yarnell Mine

Operated early days 1935 Yarnell Mining

Group \_\_\_\_\_

Company.

District Weaver

Location (distance and direction by highway from what town) At Yarnell

Owner of property Security Trust Co.

If more space is desired for notes, use other side.

This specimen is now in the ADMR Museum (see K number).

12-15-2010 NJN

### **Yarnell mine, Yavapai County Update**

Information provided by Steve Radvak

Bema was acquired by Kinross in 2007. who sold to a private company 1/2 owned by Peter Holmes in Tucson. (520) 733-9770 and the estate of his partner (who died last year.)

They want to stay private but does not currently have enough funding to go into production.

The metallurgy has been redone. He is planning to crush, gravity and float for gold and silver, instead of cyanide heap leach. This should be easier to permit. No sulphides present (at least very little.)

Estimated \$10 million capital cost for 7 years of production at 30,000 ounces per year. 300,000 contained ounces.

There is no drilling below 300 feet so expansion of reserves is possible.



A-240-1

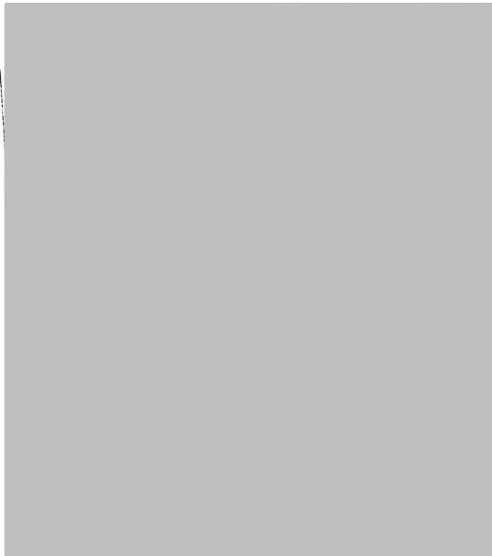
C-1950

MEMO:

YARNELL MINE

WEAVER MINING DISTRICT

YAVAPAI COUNTY



MIN. JOUR. 6/15/70

IS DESCRIBED IN BUREAU OF MINES

I. C. 6991 - FEBRUARY, 1938

p. 9, 34-39

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See: (1) MAP in BROWN MAP CABINET, Sect. 5,  
top of brown cabinet, MINE OWNERS files.

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

Yavapai Co.  
Weaver Dist.

Yarnell Mine

MM-K144 Gold Ore  
K145 Gold Ore  
K461 Beryl

MILS # 278  
O-AKA'c  
Yarnell (file)

# THE ARIZONA REPUBLIC

YARNELL (A) YAVAPAI Co.

## Yarnell couple lobby against gold-mine plan

By Jerry Kammer  
Republic Washington Bureau  
May 10, 2001

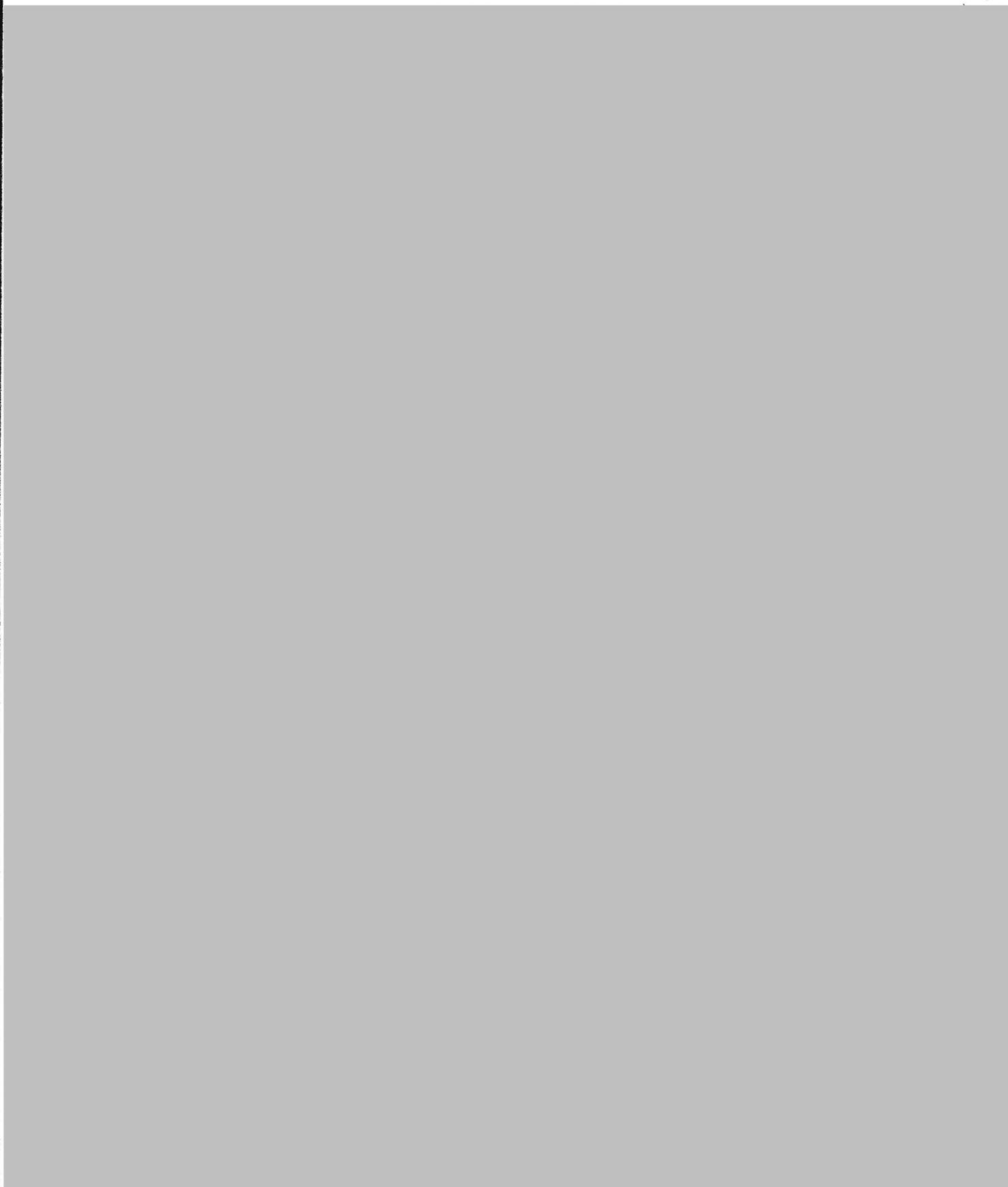
[REDACTED]

Reach the reporter at [jerry.kammer@arizonarepublic.com](mailto:jerry.kammer@arizonarepublic.com) or 703-292-7661.

*Yarnell Mine file*

# Geology and geochemistry of the Yarnell gold deposit

Tench C. Page, Mark A. Miller, Peter C. Gibson and James D. Sell



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# **PROPOSED YARNELL GOLD MINE ENVIRONMENTAL IMPACT STATEMENT AND MINING PLAN OF OPERATION**

## **INFORMATION UPDATE**

**Phoenix Field Office, Bureau of Land Management**

**November 1997 – No. 3**

### **Project to date**

The BLM's Phoenix Field Office is nearing completion of the draft environmental impact statement (EIS) for the proposed Yarnell Mining Project. The Yarnell Mining Company (YMC), a subsidiary of Bema Gold (U.S.) Incorporated, proposes to locate an open-pit, cyanide heap-leaching operation to mine gold near the town of Yarnell in Yavapai County, Arizona, approximately 70 miles northwest of Phoenix. The draft EIS will analyze and disclose the environmental and socioeconomic impacts that would be associated with the mine. The draft EIS will analyze project alternatives and describe or propose mitigation measures to reduce negative impacts.

The proposed operation would include mining, processing and ancillary facilities on 119 acres of BLM-administered land and 68 acres of private, YMC-owned land. The mine would operate for six years, with an additional two years for closure and reclamation.

A formal scoping period began on September 21, 1995 with publication of a *Federal Register* notice of intent to prepare an EIS. Public scoping meetings held in three communities during October 1995 were attended by nearly 400 people. Major public concerns include impacts to the quality and quantity of surface water and groundwater; impacts to air quality and public safety; effects of blasting vibrations, noise and highway closures on the local community; visual impacts; effects on wildlife and vegetation; and effects on the local economy and quality of life in Yarnell. These public concerns, expressed at the scoping meetings and in follow-up letters, have helped delineate the issues that will be addressed in the draft EIS.

In early 1996, YMC determined that its initially proposed water sources were insufficient to meet the demands of the proposed mining operation. This resulted in delays in completing the draft EIS. During 1996, YMC conducted hydrogeologic field studies to identify potential water sources and to provide information for analyses of potential impacts to surface water, groundwater and local wells. This information was

essential to proceed with the preparation of the draft EIS. In November 1996, YMC identified its proposed water supply system and the BLM resumed preparing the draft EIS.

In early 1997, the Environmental Protection Agency, Region IX, became a cooperating agency on the Yarnell EIS in conjunction with its review of YMC's application for a National Pollutant Discharge Elimination System (NPDES) permit. The NPDES permitting process addresses issues relating to water quality.

It is anticipated that the draft EIS will be published and available for public review by the end of 1997. There will be a 60-day public comment period including formal public hearings. The hearings likely will be conducted in January 1997 and will enable citizens to express their comments by making public statements that will be recorded for consideration in preparing the final EIS. The hearing schedule has not been set and will be announced.

To facilitate in distribution of the draft EIS, the public is requested to complete and return the form included with this update to indicate interest in receiving a complete copy of the draft EIS. The document will be approximately 350 pages. Copies of the draft EIS will be available for review at the Yarnell and Wickenburg public libraries and at the BLM's Phoenix Field Office. To receive a copy of the draft EIS, you must return the form or notify the BLM by mail or telephone by December 1, 1997. Individuals on the Yarnell EIS mailing list will receive a copy of the Executive Summary, a 15- to 20-page document summarizing the major issues, alternatives and conclusions in the draft EIS.

### **For further information**

Contact project manager Connie Stone at the Phoenix Field Office, BLM, 2015 West Deer Valley Road, Phoenix, Arizona 85027 or call (602) 580-5500. (NOTE: The former name of the office [Phoenix District Office] and organization unit [Phoenix Resource Area] were changed to the Phoenix Field Office during reorganization and boundary changes in 1997.)

Some  
Yarnell Mine file

# **PROPOSED YARNELL GOLD MINE ENVIRONMENTAL IMPACT STATEMENT AND MINING PLAN OF OPERATION**

## **INFORMATION UPDATE**

*Phoenix District Office, Bureau of Land Management*

*July 1996 -- No. 2*

### **Background**

The Phoenix Resource Area of the Bureau of Land Management (BLM) Phoenix District is reviewing a mining plan of operations (MPO) submitted by Yarnell Mining Company (YMC), a wholly-owned subsidiary of Bema Gold (U.S.), Incorporated. The plan proposes to develop an open pit and heap leach mining operation under surface management regulations 43 Code of Federal Regulations (CFR) 3809.

The MPO, a dynamic document, will undergo further refinements. The current version requires more information regarding water sources that would supply the proposed operation. Revisions will be made as information becomes available. The proposed mine design and operating procedures will be fully described in the draft environmental impact statement (EIS).

### **MPO refined**

YMC has submitted a refined version of its MPO for the proposed mine. This version contains no major changes in the basic types and locations of the proposed facilities, including the open pit, waste rock dumps, leach pad and ponds. The plan contains more detailed information on the proposed design and procedures. This additional information was provided in response to the BLM's comments on the first draft and questions raised by the public. Additional information also was incorporated in conjunction with aquifer protection and air quality permit applications submitted to the Arizona Department of Environmental Quality.

The refined version of the MPO contains more detailed information regarding blasting procedures, dust suppression measures, the shipping, handling and storage of cyanide and other chemicals, measures to protect birds and other wildlife and procedures to ensure emergency access in case of road closures associated with blasting.

Notable changes include the use of generators to produce electrical power on site -- rather than the use of high-voltage transmission lines as originally proposed -- and additional information on leak detection, including a design for a more effective system under the leach pad.

### **Exploration drilling**

YMC conducted an exploration drilling program for several weeks during March and April 1996 to examine mineralization in the proposed pit area. All of the drill holes except one were on private land owned by YMC.

The BLM had no jurisdiction over the drilling conducted on private land and notified the mining company of complaints regarding drilling conducted early Easter Sunday.

### **Water supply**

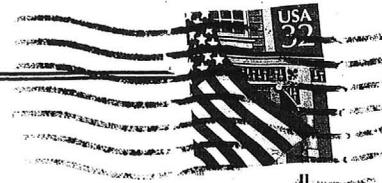
In its MPO, YMC proposes to obtain water from a well on its private land and from one or more wells in the Yarnell Creek watershed east of the proposed mining operation. In late 1995, the BLM granted temporary authorization for drilling exploratory wells on public lands at up to four locations for the sole purpose of locating water to determine if there is a sufficient quantity to meet the needs of the mining operation.

In December 1995, YMC drilled three wells, two of which were unproductive. Later, pump tests were conducted to determine the yields of two wells, one on YMC private property near Glen Ilah and one east of that property on public lands. The tests included monitoring several local wells, springs and streams to determine the impacts of pumping on water quantity and to collect information useful for mapping area groundwater systems. Impacts on the quality and quantity of groundwater and surface water will be one of the major issues analyzed in the EIS. The pump tests indicated that the two wells would not provide the entire 100 gallons per minute required for the proposed mining operation. YMC is considering additional potential water sources. The BLM has not granted any additional authorizations for drilling wells on public lands. Water supply Information will be distributed as it becomes available.

### **Point of clarification**

An article in the *Prescott Daily Courier* (May 27, 1996) contains an inaccurate statement regarding the purpose of the Yarnell EIS. Describing the concerns of local residents, the

U.S. Department of the Interior  
Bureau of Land Management  
Phoenix District Office  
2015 West Deer Valley Road  
Phoenix, AZ 85027



Phillips Ken A  
Chief Engineer  
Arizona Dept. Mines & Minerals Resources  
1502 W Washington  
Phoenix, AZ 85007-3210

article states: "Mine owners say those fears are unfounded and are in the process of proving that with an environmental impact statement." The BLM, not the mining company, is responsible for preparing the EIS. The mining company's role in the EIS is limited to providing technical information regarding the design, operating procedures and duration of the proposed operation. The purpose of an EIS is to analyze the environmental and social impacts of a proposed project, not to prove a particular viewpoint regarding those impacts.

An EIS presents a full and honest disclosure of environmental impacts based on objective, scientific analyses. It also addresses mitigation measures developed to reduce adverse impacts. EIS preparation requires public participation in identifying the issues to be analyzed through the scoping process, and the public is involved in reviewing and commenting on the published draft and final versions of the EIS. The final version contains all written comments received on the draft EIS, along with the BLM's responses to those comments and descriptions of any changes made in response to comments.

An EIS is not a decision document, although it provides information used by decision makers in evaluating a proposed project. The decision document, prepared after the EIS is completed, is known as the record of decision.

## Mining plan review

The BLM has received many questions about the process of reviewing mining plans. In responding to mining proposals, the BLM is required to carry out the provisions of the General Mining Law of 1872, as amended, and the Federal Land Policy and Management Act (FLPMA) of 1976. Procedures for doing so are contained in the regulations at 43 CFR 3809.

The BLM does not have the discretionary power to reject a mining proposal solely on the basis of local opposition, proximity to a community or the use of cyanide heap leaching

technology. Under the General Mining Law, YMC has a statutory right, subject to the regulations, to conduct exploration and mining activities on federal lands. According to the regulations, this right to mine entails "... the responsibility to assure that operations include adequate and responsible measures to prevent unnecessary or undue degradation of the federal lands and to provide for reasonable reclamation."

The BLM considers detailed information in making these evaluations and coordinates with other government agencies to confirm that the proposed operation would comply with permit requirements. EIS preparation involves analyses useful in evaluating impacts, alternatives, mitigation measures and reclamation procedures. Environmental analyses must be completed before a mining proposal decision is made.

Absent a finding of unnecessary or undue degradation, the BLM must approve a plan of operations.

The proposed operation would include about 119 acres of BLM-administered lands and 68 acres of private land owned by YMC in the Weaver Mountains of Yavapai County south of Yarnell. The scope of the EIS includes all areas that could be affected by the project, regardless of landownership. However, the BLM has the authority to regulate activities or impose mitigation measures only on federally administered lands.

The BLM has received letters requesting that it work toward changing the laws it administers. Although BLM employees can act as private citizens in expressing their opinions to members of Congress, they ordinarily are not allowed to lobby for or against laws or bills in the course of carrying out their federal job responsibilities.

## For further information

Contact project manager Connie Stone at the Phoenix District Office, BLM, 2015 West Deer Valley Road, Phoenix, Arizona 85027 or call (602) 780-8090.

Yarnell Mine file

# PROPOSED YARNELL GOLD MINE ENVIRONMENTAL IMPACT STATEMENT AND MINING PLAN OF OPERATION

## INFORMATION UPDATE

Phoenix District Office, Bureau of Land Management

March 1996 -- No. 1

### Background

The Phoenix Resource Area of the Bureau of Land Management (BLM) Phoenix District is responding to a preliminary mining plan of operations (MPO) submitted by the Yarnell Mining Company, a wholly-owned subsidiary of Bema Gold (U.S.), Incorporated. The plan proposes to develop an open pit, heap leach mining operation under surface management regulations 43 CFR (Code of Federal Regulations) 3809.

The proposed operation includes about 92 acres of public lands and 68 acres of private land in the Weaver Mountains of Yavapai County south of Yarnell.

The BLM will prepare an environmental impact statement (EIS) in conjunction with the MPO. An EIS accurately analyzes potential impacts to the environment of a particular course of action and its reasonable alternatives.

In preparing the EIS, the BLM is mandated to follow the guidelines set forth by the Federal Land Policy and Management Act (FLPMA) of 1976, the National Environmental Policy Act (NEPA) of 1969 and the Mining Law of 1872.

### Scoping meetings

Public participation plays a vital and continuing role in the development of an EIS. The process began with scoping and will make available additional opportunities for public involvement.

The three public scoping meetings held in October 1995 in Wickenburg, Yarnell and Prescott were attended by more than 400 participants. Interdisciplinary team members and representatives of the Yarnell Mining Company met with the public to describe the mining proposal, answer questions, list concerns and open the lines of communications.

### Public meetings

Future meetings to give the public opportunity to provide input into the EIS process will be scheduled and

announced through local media, information updates like this, the mailing list and personal correspondence.

### Interdisciplinary Team

The consulting firm of P.M. De Dycker and Associates, Inc., (PDA) of Lakewood, Colorado is assisting the BLM in preparing the EIS. The EIS will be prepared by an interdisciplinary team of technical specialists led by Connie Stone, BLM project manager.

The BLM/PDA interdisciplinary team includes mining engineers, geologists, hydrologists, wildlife biologists, a botanist, a soil scientist, an economist, a noise analyst, a blasting specialist, a water rights specialist, air quality specialists, archaeologists, writer-editors, visual impact specialists, a range conservationist and a realty specialist.

The team was selected to cover the range of issues identified during the scoping process. Some team members, e.g., the blasting specialist, were added in response to public comment.

In addition to conducting the analyses and writing the document, team members participate in public meetings or media interviews when and if a particular issue calls for technical explanation. The team also participates in preparing responses to public comments on the draft EIS.

### Issue identification

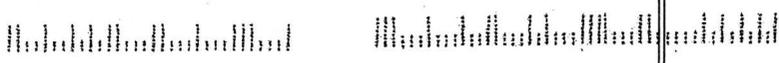
The EIS scoping period ended on November 21, 1995. Through public meetings and the comments received during the scoping period, issues were identified for consideration in completing the EIS. Many of these issues will receive objective, detailed analyses (e.g., impacts on groundwater quality) while other issues will be considered but not analyzed in detail due to reasons that will be explained in the EIS (e.g., impacts on global warming).

About 200 letters or written comments were received from individuals, organizations and government agencies, and additional comments were recorded on flip charts from those who attended the scoping meetings in Wickenburg, Yarnell and Prescott.



U.S. Department of the Interior  
 Bureau of Land Management  
 Phoenix District Office  
 2015 West Deer Valley Road  
 Phoenix, AZ 85027

Phillips Ken A  
 Chief Engineer  
 Arizona Dept. Mines & Minerals Resources  
 1502 W Washington  
 Phoenix, AZ 85007-3210



The most frequently expressed concerns focused on impacts to air and water quality, water quantity, wildlife and vegetation, impacts of blasting and noise, economic and social effects on local communities and reclamation procedures. Visual impacts, cultural resources and effects on highway use were also identified as concerns.

The interdisciplinary team is determining specific issues to receive detailed analysis and wishes to express appreciation for the time and effort devoted by the public and agencies in identifying their concerns.

## Comment results

Management officials, the interdisciplinary team and the project manager have carefully studied all of the public comments from the October 1995 scoping meetings and correspondence received by the BLM. A total of 1,366 people opposed to the mining operation signed petitions to that effect. Of that number, about 10 percent (132) of the signatures included incomplete/illegible names/addresses. The majority -- about 18 percent (244) of the complete, legible signatures -- listed addresses in Yarnell; 11 percent (156), the Prescott area; 11 percent (145), Wickenburg; 10 percent (132), Phoenix.

## Environmental studies

The interdisciplinary team has determined the need for additional field studies to gather information needed to address the issues identified by the public. To address visual impacts, key locations in Glen Ilah and Yarnell will be identified to produce photographs of existing

views and simulated photographs of how those views would appear during the proposed mining operation and after reclamation.

The team will also conduct studies to better map and characterize surface water and groundwater conditions. The mining company proposes to obtain its water from a well on its private property and from one or more wells in the Yarnell Creek watershed to the east.

One objective of the interdisciplinary team is to determine how the mine's use of the water would affect local wells. Pumping tests will determine if existing wells would yield sufficient water for the proposed mine and to evaluate the impacts on private wells. The interdisciplinary team is contacting owners of wells identified from public records as having the potential to provide useful information for assessing impacts. Monitoring will take 20 to 25 days, during which time the owners will not be able to use the wells. The study will be conducted by a professional hydrologist overseen by the BLM. Anyone interested in participating may contact the Phoenix District BLM at the address/telephone number below.

After touring the proposed mine area in December 1995, the interdisciplinary team is compiling environmental baseline data to support the EIS impact analyses, a time-consuming but important part of the EIS preparation.

## For further information

Contact project manager Connie Stone at the Phoenix District Office, BLM, 2015 West Deer Valley Road, Phoenix, Arizona 85027 or call (602) 780-8090.

APRIL 24, 1991

YARNELL (F) YAVAPAI

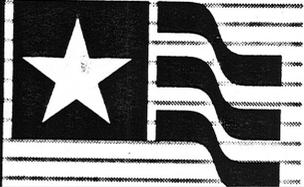


**Bema Gold Corporation:**



**The Northern Miner**

**U.S. REPORT**

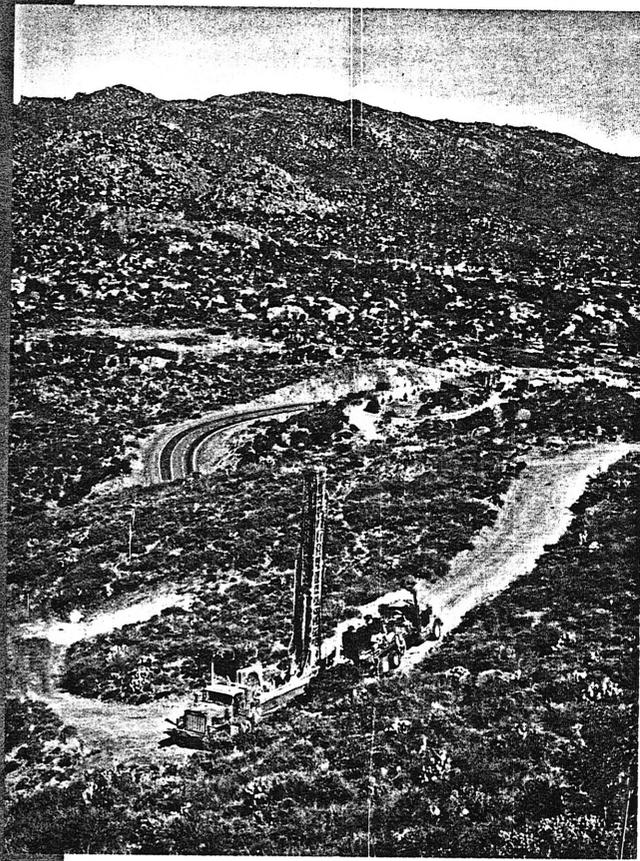


Yarnell Property, Arizona



ARIZONA

EXPLORATION  
DRILLING TO DATE  
ON THE YARNELL  
PROPERTY HAS  
OUTLINED AN  
OXIDE DEPOSIT  
CONTAINING  
273,600 OUNCES  
OF GOLD RESERVES



Bema's primary target in the successful takeover of Norgold Resources was the Yarnell Property, located in western Yavapai County, Arizona, 65 miles northwest of Phoenix. Exploration drilling to date has outlined an oxide deposit 1,800 feet in length, 500 feet in width with an average thickness of 140 feet, containing 273,600 ounces of gold reserves, with the deposit remaining open. The acquisition of this property at a cash equivalent cost of approximately U.S. \$16 per ounce of gold supports Bema's philosophy of increasing its reserves and production through the acquisition of properties with minimal acquisition costs, low debt and the potential for rapid development to full scale production.

An independent geological reserve of 7.6 million tons grading 0.036 ounces per ton gold containing 273,600 ounces of gold has been calculated at a 0.01 ounce per ton gold cut-off grade. Further drilling is planned to test the potential for additional reserves to the southwest and northeast of the deposit. Independent analysis of diamond drilling versus reverse circulation drilling results concludes that the reverse circulation drilling programmes may have significantly understated the grade of the deposit. Metallurgical testwork has demonstrated that the Yarnell ore is amenable to heap leaching with gold recoveries of approximately 71% at a crush size of - 2 inches. Cyanide and lime consumptions are moderate and agglomeration is not required at this crush size.

Bema Gold's operations team has carried out an initial review of the project that suggests the Yarnell Property could be put into production as a low cost, heap leach gold mine at a production rate of approximately 33,000 to 40,000 ounces of gold per year. Bema has initiated permitting and a feasibility study on the property, with production scheduled to commence in 1992. Life of Mine operating costs are estimated at approximately U.S. \$ 200 per ounce.

COMPLETE AND MAIL TO  
STATE MINE INSPECTOR  
1616 WEST ADAMS, SUITE 411  
PHOENIX, ARIZONA 85007-2627

YARNELL (F)

AUG 08 1989

OR OFFICE USE ONLY  
START-UP NUMBER 94345/89  
STATE NUMBER 141168  
DEPUTY NUMBER Hamm  
NEW \_\_\_\_\_ MOVE \_\_\_\_\_

### NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start , stop \_\_\_\_\_, move \_\_\_\_\_ an operation.

Please check the appropriate boxes: Contractor , Owner , Operator , Open Pit Mine ,  
Underground Mine , Mill , Quarry , Aggregate Plant , Hot Plant , Batch Plant ,  
Smelter , Leach Plant .

If this is a move, please show last location: \_\_\_\_\_  
If you have not operated a previously in Arizona, please check here: \_\_\_\_\_ If you want the  
Education and Training Division to assist with your mine safety training, please check here:   
If this operation will use Cyanide for leaching, please check here:

COMPANY NAME: ASARCO Inc

DIVISION: EXPLORATION

MINE OR PLANT NAME: YARNELL MINE TELEPHONE: 427-3556  
J. D. SELL - MANAGER

CHIEF OFFICER: MARK MILLER - PROJECT GEOLOGIST

COMPANY ADDRESS: PO BOX 921 YARNELL (TUCSON) (PO BOX 5747)

CITY: YARNELL (TUCSON) STATE: AZ ZIP CODE: 85362 (8570)

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions for locating property by vehicle: 5 MILES S. of YARNELL ON Hwy 89)

TYPE OF OPERATION: EXPLORATION PRINCIPAL PRODUCT: GOLD

STARTING DATE: MARCH 1989 CLOSING DATE: —

PERSON COMPLETING NOTICE: MARK MILLER TITLE: PROJECT GEOLOGIST

COMPLETE AND MAIL TO

STATE MINE INSPECTOR  
1616 WEST ADAMS, SUITE 411  
PHOENIX, ARIZONA 85007-2627

AUG 08 1989

YARNELL (F)

FOR OFFICE USE ONLY

START-UP NUMBER 94345189  
STATE NUMBER 141168  
DEPUTY NUMBER Hamm  
NEW \_\_\_\_\_ MOVE \_\_\_\_\_

### NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start X, stop \_\_\_\_\_, move \_\_\_\_\_ an operation.

Please check the appropriate boxes: Contractor , Owner , Operator , Open Pit Mine ,  
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Smelter , Leach Plant .

If this is a move, please show last location: \_\_\_\_\_

If you have not operated a previously in Arizona, please check here: \_\_\_\_\_ If you want the  
Education and Training Division to assist with your mine safety training, please check here:

If this operation will use Cyanide for leaching, please check here:

COMPANY NAME: ASARCO Inc

DIVISION: EXPLORATION

MINE OR PLANT NAME: YARNELL MINE TELEPHONE: 427-3556  
J. D. SELL - MANAGER

CHIEF OFFICER: MARK MILLER - PROJECT GEOLOGIST

COMPANY ADDRESS: PO Box 921 YARNELL (TUCSON) (PO Box 5747)

CITY: YARNELL (Tucson) STATE: AZ ZIP CODE: 85362 (85703)

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions  
for locating property by vehicle: 5 MILES S. of YARNELL ON  
 Hwy 89

TYPE OF OPERATION: EXPLORATION PRINCIPAL PRODUCT: GOLD

STARTING DATE: MARCH 1989 CLOSING DATE: —

PERSON COMPLETING NOTICE: MARK MILLER TITLE: PROJECT GEOLOGIST

COMPLETE AND MAIL

YARNEU (A)

MBK on

STATE MINE INSPECTOR  
1616 WEST ADAMS, SUITE 411  
PHOENIX, ARIZONA 85007-2627

FOR OFFICE USE ONLY	
START-UP NUMBER	94422160
STATE NUMBER	141151
DEPUTY NUMBER	Angel
NEW	<input checked="" type="checkbox"/>
MOVE	<input type="checkbox"/>

JUN 02 1989

### NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start X, stop \_\_\_\_\_, move \_\_\_\_\_ an operation.

Please check the appropriate boxes: Contractor , Owner , Operator , Open Pit Mine , Underground Mine , Mill , Quarry , Aggregate Plant , Hot Plant , Batch Plant , Smelter , Leach Plant .

If this is a move, please show last location: \_\_\_\_\_

If you have not operated a previously in Arizona, please check here: \_\_\_\_\_ If you want the Education and Training Division to assist with your mine safety training, please check here: \_\_\_\_\_

If this operation will use Cyanide for leaching, please check here: \_\_\_\_\_

COMPANY NAME: LAYNE-WESTERN COMPANY, INC.

DIVISION: DRILLING SERVICES COMPANY

MINE OR PLANT NAME: YARNELL MINE - INACTIVE TELEPHONE: 602-895-9336

CHIEF OFFICER: JAMES L. WITT - DISTRICT MANAGER

COMPANY ADDRESS: 12030 E. RIGGS RD.

CITY: CHANDLER, STATE: AZ ZIP CODE: 85249

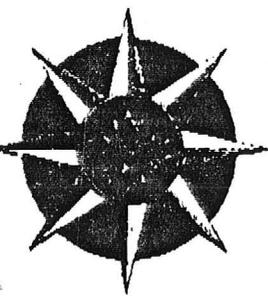
MINE OR PLANT LOCATION: ( Include county and nearest town, as well as directions for locating property by vehicle: YAVAPAI, YARNELL - APPROXIMATELY

1 1/2 MILES SOUTHWEST OF YARNELL

TYPE OF OPERATION: DRILLING PRINCIPAL PRODUCT: GOLD

STARTING DATE: 6-3-89 CLOSING DATE: 7-15-89

PERSON COMPLETING NOTICE: MARK J. MADISON TITLE: SALES ENGINEER

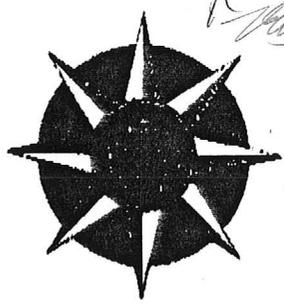


# NORGOLD RESOURCES INC.

# NEWS RELEASE

SYMBOL: NGR

EXCHANGE: V.S.E.



September 11, 1990

**FOR IMMEDIATE RELEASE**

YARNELL GOLD PROJECT, ARIZONA

YARNELL MINE (F) YAVAPAI

**NORGOLD ESTABLISHES 100% CONTROL OF YARNELL**

**RESERVE ESTIMATE BEING COMPLETED**

Norgold is pleased to announce that the company has gained a 100 percent operating interest in the Yarnell Gold Project, located 72 miles northwest of Phoenix, Arizona. Joint venture partner ASARCO has elected to discontinue its option to earn a 51% interest in the project.

As required by Norgold's joint venture agreement, ASARCO has provided Norgold with an extensive data base resulting from more than US \$1.0 million in work completed on the project during 1989 and 1990. Management is evaluating this information and formulating plans for the development of the Yarnell deposit. A total of 96 reverse-circulation drill holes, and 4 diamond drill holes have been completed which define an important near-surface gold deposit with substantial exploration potential. Metallurgical tests indicate that standard heap leach techniques utilizing a 1.5 inch crust will result in a 70 to 75 percent gold recovery. Other technical and capital and operating cost data have also been received and should accelerate development of the deposit.

Norgold has contracted James Askew Associates of Denver, Colorado to provide an independent ore reserve calculation and anticipates receiving preliminary geologic and mineable reserve estimates within about one month. Project engineering and permit scoping studies are also being initiated. Based on a preliminary evaluation of the drilling and trenching accomplished to date, several excellent, undrilled exploration targets have been identified and will be drilled as soon as appropriate logistics can be arranged.

.../2

The Vancouver Stock Exchange has neither approved nor disapproved the contents of this release.

**FOR MORE INFORMATION CONTACT CORPORATE RELATIONS**

Head Office: 210 - 475 Howe Street, Vancouver, British Columbia V6C 2B3  
Telephone: (604) 681-5566 Fax: (604) 687-9700



NORGOLD RESOURCES INC.

# NEWS RELEASE

SYMBOL: NGR

EXCHANGE: V.S.E.



September 11, 1990

**FOR IMMEDIATE RELEASE**

Norgold's management is exceedingly optimistic about the development of the Yarnell deposit. All information available suggests the presence of an economically viable, open-pit mineable resource with good expansion potential. Norgold's mining team has extensive experience in mineral exploration and mine development and is capable of "fast-tracking" the Yarnell Gold Project to production. Further information will be available upon completion of the management review in progress.

On behalf of the Board of Directors,

Steven C. Potter  
President and CEO

The Vancouver Stock Exchange has neither approved nor disapproved the contents of this release.

**FOR MORE INFORMATION CONTACT CORPORATE RELATIONS**

Head Office: 210 - 475 Howe Street, Vancouver, British Columbia V6C 2B3

Telephone: (604) 681-5566

Fax: (604) 687-8789

October 19, 1948

Mr. Ed Locklear  
Bank of Arizona Building  
Prescott, Arizona

Dear Ed:

On further thought about the Yarnell Mine, if we had some exact information about underground values and conditions we would like to study it over and possibly might work something out.

What we would need would be a set of maps showing the areas stoped and the values that have been taken out and that remain.

If you can get us such information we would be glad to look into it.

Yours sincerely,

Chas. H. Dunning  
Director

CHD:mh

YALPHEU MINE TION RSW 302 141 SW 24

4 PAT. CLAIMS

WEAVER DIST. SUB. DIST. MARSHALL

Winslow Gold Mng. Co

9-20-41

Mitchell, Roy 522 W. Aspinwall St.  
P. O. Box 187  
Winslow, Arizona

See M File  
Re - letter of recommendation on M. Gemmill



Mining Journal 7/15/42  
Aspinwall Mine



YARNELL MILL, YARNELL, ARIZONA

21941

DEPARTMENT OF MINERAL RESOURCES

News Items

Date

6/21

Mine

YARNELL

Location

YAVAPAI COUNTY.

Owner

WINSLOW GOLD MINING CO.

Address

YARNELL - ARIZ.

H.A. FUNK - TREAS.

Operating Co.

ROY MITCHELL - SEC. & TREAS.

Address

CURRY - VICE PRES.

NELSON - DIRECTOR.

Pres.

ALL OF WINSLOW.

Genl. Mgr.

MARK GEMMILL MGR. DIRECTOR

Mine Supt.

YARNELL - ARIZ.

Mill Supt.

HUGH HUBBARD - MINE SUPT.

Principal Metals

(Gold) JAMES CHAMPIA - MILL SUPT.

Men Employed

28

Production Rate

115 TONS A DAY

Mill, Type & Capacity

CYANIDE - 115 TONS

- ELECT. POWER -

Power, Amt. & Type

(OVER)

Signed

J.F.K.

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date

Dec. 26, 1929

Mine

Yarnell

Location

at Yarnell

Owner

Address

Operating Co.

Winslow G.M. Co.

Address

Pres.

Genl. Mgr.

Mark Gemmill

Mine Supt.

Mill Supt.

Principal Metals

Gold

Men Employed

30 15

Production Rate

Mill, Type & Capacity

Power, Amt. & Type

Signed

Barth

(Over)

ESTIMATE OF RESERVE 2 YEARS

MINERAL RESOURCES

Date Aug. 15, 1939

Yarnell Mine

Location Yarnell

Owner \_\_\_\_\_

Address \_\_\_\_\_

Operating Co. Holbrook G.M. Co Inc

Address Yarnell

Pres. Mrs dwelling 7

Genl. Mgr. Assay office

Mine Supt. completed

Mill Supt. Cyanide tank fdrns.

Principal Metals nearing completion

Men Employed \_\_\_\_\_

Production Rate \_\_\_\_\_

Mill, Type & Capacity \_\_\_\_\_

Power, Amt. & Type \_\_\_\_\_

Signed Bark  
(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date July 21, 39

Mine Yarnell

Location Yarnell Hill

Owner Norris' Estate

Address G. W. E. Patterson  
Prescott, Ariz

Operating Co. Winslow G. Mining Co.

Address Prescott  
Yarnell

Pres.

Genl. Mgr. Edison Thacker

Mine Supt. Mark Gemmill

Mill Supt.

Principal Metals

Men Employed 12

Production Rate

Mill, Type & Capacity

Power, Amt. & Type Purchased  
Electric

Signed

Barth

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/20/34

Mine Yarnell

Location Yarnell

Owner

Address

Operating Co. Winslow G. M. Co.

Address Winslow  
Yarnell

Pres.

Genl. Mgr. Mark Gemmill

Mine Supt.

Mill Supt.

Principal Metals Gold

Men Employed 15

Production Rate Resumed

Mill, Type & Capacity Mill  
Constructing

Power, Amt. & Type Several Tanks  
now in place

Signed

Barth

(Over)

Sept. 1, 1945

Hotel Harrington,  
Washington, D.C.

Mr. Mark Gemmill,  
Crown King, Arizona.

Dear Mark,

I have your letter of the 29th with enclosure, which came to hand today.

It is certainly unfortunate that the passage of S-544 has been so much delayed with adjournments, recesses, etc. The opposition of the Departments has also had some bearing on the subject.

I am afraid that the bill will be wrecked in some respects when the Committee on Mining rewrites it, as I feel sure that Jessie Jones' recommendations for making it less liberal will influence some of the Committee members.

There is no course that you can take excepting that which I suggested to you about a year ago.... that is to have your attorneys set up a defense under the Second War Powers act and thus delay forfeiture until the bill may be passed. This is the same advice which I have had to give all in similar circumstances.

I am sorry not to be more constructive. I hope you are doing OK with the Dundee.

Yours sincerely,

W. C. Broadgate  
Asst. Director

Crown King, Ariz.  
Aug. 29, 1943.

Mr. W. C. Broadgate,  
Hotel Harrington,  
Washington, D. C.

Dear Bill;

I attended the Small Mine Operators meeting held in Prescott yesterday afternoon at which Senator McFarland was present and so had an opportunity to talk to him for a few minutes concerning our difficulties at Yarnell. He said that he thought that there was little likelihood of any legislation being enacted in time to afford us relief, but suggested that I write to you and give you the status of the situation as it now is.

Enclosed is a copy of a letter to the WFB, written last fall. On this same date I also wrote almost an identical letter addressed to Mr. Willis for transmission to Senator Murray. You may have seen this letter. The enclosed copy will give you the history of our operations at Yarnell and I will now bring the matter up to date.

We have lost the Pike property (water supply) due to our inability to make the payments. On the Yarnell Mine property, there was a payment due in January of this year which is in default. Due to having paid about 75% of the purchase price we have had a period of grace of about nine months. The dead line is an early day in October next, about 30 days away. During all of the first half of this year we had depended quite heavily on the chance that legislation would be enacted which would grant a moratoria in cases such as ours. (Bill S.2909) When congress adjourned with out final action on this bill, we immediately started to try to raise the money to pay off the indebtedness. It seemed at first that we would be able to do this. There are two men in our company who between them could have provided the money. However they are both rather old men and one of them has been very sick for the past two months and is now not expected to live long. The other one cant handle it alone. I am not able to do much in a financial way. The situation looks rather hopeless, as I dont know of anything that we can do.

It is with the thought that there still might be some way out, that you could suggest something, that I am giving you the present facts concerning the matter. The loss of the Yarnell property would be hard to take. If you can suggest anything it will be appreciated very much. I want to take this opportunity to thank you for your past efforts in the interests of mining in general and in helping in my particualr problems. As a result of the additional premium granted the Dundee property, I am operating there again and think I can make it this time.

With very best regards

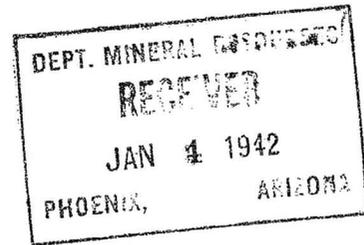
Sincerely Yours

address Crown King, Ariz.

Mark Jewell

Prescott, Ariz.  
Jan. 2, 1943.

Mr. J. S. Coupal, Director  
Department of Mineral Resources,  
Phoenix, Ariz.



Dear Sam;

Thank you for your letter of the 30th. ult. In that I had a very similar letter from Mr. Willis, I am enclosing copies of my letter and enclosure to him. This covers the matters mentioned in your letter.

Recently I gave you as reference to people connected with the Gray Eagle Copper Co., of Roxton, Texas. It may be that they will write to you concerning me, and I will appreciate any favorable comment you can properly make, as it would probably help me in completeing a proposed deal I have up with them.

In connection with the Winslow Gold Mining Co. matter you will understand that the next payment on the mining property proper, falls due Jan. 18, 1943.

The other property mentioned as the Pike property, is an adjoining property which was purchased for the available water. While this does not contain mineral, the water supply which it affords is very essential and necessary for the operation of the mine.

A payment on the Pike property fell due about four months ago. Under provisions of the Trust Deed agreement, Pike was able to take possession on Dec. 23rd. last. He now proposes to sue us for two quarterly payments together with interest, casts etc. We feel that his attitude is entirely unfair, but he may be able to make us pay these back payments and lose the property as well.

I wish to thank you for your efforts in helping us with our troubles. With best wishes for you in the coming Year,

Sincerely yours

*W. G. Gummel*

Prescott, Ariz.  
Jan. 2, 1943.

Mr. Charles F. Willis, Consultant,  
Metals Reserve Company,  
Phoenix, Ariz.

re. Winslow Gold Mining Co.

Dear Mr. Willis;

Replying to your letter of the 30th. ult. I enclose copy of a letter which I received from the War Production Board which was response to the application for relief which I made to the ~~the~~ Board, on November 12th. This application contained the same information that was given you in my letter to you of the same date.

I have heard nothing further from the WPB since. Our attorney does not know how effective a defense can be made with the provision quoted in the WPB letter but expects to full use of it in case the threatened suit is filed. We rather expect it to be filed very soon.

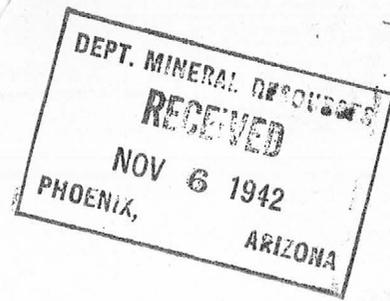
In the meantime it may be that legislation will be enacted which will clarify the entire situation. At the same time we are making every effort to arrange for money so that we can meet the payment due on the main mining property which falls due on the 18th. of this month. We may not be able to do this so sincerely hope that some sort of relief will be available before that date.

Thanking you for your interest and efforts in our behalf,

Yours very truly

Mark Gemmill

Prescott, Ariz.  
Nov. 4, 1942.



Mr. Sam Coupal, Director  
Bureau of Mineral Research,  
Phoenix, Ariz.

Dear Sam;;

Re. the closing down of the Gold Mines. None of us affected object to such action if it seems to be necessary for the war effort. We do feel however that there should be some relief in cases where the closing down will cause operators to lose their properties.

In the case of the Yarnell Mine, although we have paid off the major part of the purchase price of the properties and could easily pay the balance as it would come due if we were operating, the closing down cuts off our income entirely. And we have no way of meeting these payments. The purchase contracts provide that if we default in the payments the properties go back together with all improvements.

On the mine property we still owe about \$15000.00 on the original price of \$50000.00. The next due payment is in Jan. 1943. We have talked to the owners and they have stalled on any definite answer. We feel that they would be very glad to get the property back with its \$100000.00 improvements which we have placed on it.

The other property which we contracted to buy more recently was secured for its water supply. We have paid \$6000.00 of the \$15000.00 purchase price. A payment is now due and although we have tried to get some concessions from the owner so that we could hold the property, he has just notified us that unless payment is made he will exercise his right to repossess the property.

There must be many operators of gold properties who find themselves in more or less the same condition as we are. Do you know if any legislation is contemplated or in the making to cover such situations. If not what steps can we take to obtain some relief in the matter.

With best regards,

Sincerely yours

*Mark Gammell*

*132 So Pleasant  
Prescott, Ariz.*

December 30, 1942

Mr. Mark Gemmill  
132 South Pleasant  
Prescott, Arizona

Dear Mark:

On November 11 I wrote to you suggesting that you take immediate action on filing a claim with the War Production Board for the Yarnell Mine (Winslow Gold Mining Company) for losses sustained by the gold closing order.

I have a copy of your letter of November 12 to Mr. Charles F. Willis which states many of the facts. I would like to confirm whether or not you did file some claim with the War Production Board, and if it has not been done, it should be done immediately.

Your letter of November 12 was addressed to Mr. Willis as Consultant of the Metals Reserve Company and I know it received his attention, but we would like to know if you have had any further correspondence from Washington regarding your situation.

Did you write a similar letter to the War Production Board filing a claim for action? If you did, please give us the date and also a copy of the letter you wrote and you might send a letter supplementing that statement and bringing it up to date and calling particular attention to the present crisis. With this material on hand we will immediately contact Bill Broadgate in Washington and have him go at it.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP



Nov. 12, 1942.

War Production Board,  
Washington, D. C.



Gentlemen;

In compliance with "Gold Mining Limitation order L-208" we have completely closed down our property at Yarnell. Article "J" of this order provides for appeal for relief in certain cases. As we find ourselves in immediate difficulties we are making such an appeal. I will detail briefly our history so you may understand our present situation.

I took over the property in 1938 on a development program. After about two years of hard work and the expenditure of some \$15 000 I had developed sufficient tonnage of low grade ore to warrant the installation of a mill. A group came in with me to help finance this undertaking and the Winslow Gold Mining Co. was organized. None of us are men of much means and the company was never very well financed, but we did manage the purchase and installation of a first class Cyanide plant of approx. 125 tons daily capacity. Milling operations started in 1940 and continued without interruption until the recent shut-down.

It paid in a small way right from the start. We found however that our water supply was not sufficient for full capacity of the plant so we had to start immediately to secure an additional water supply. We drilled a number of wells without result, and finally purchased an adjoining piece of property which had several good sites for storage dams. We built two dams and as a result secured sufficient water to operate to capacity.

At the time we started the mill our investment amounted to \$86 000 none of which was stage money. Since then out of earnings, we have put into water supply, additional improvements and equipment, approx. \$40,000. Our total improvements therefore now amount to some \$136,000.

The purchase price of the Yarnell Mine property was \$50,000, of which \$35,000 has been paid. The balance, \$15,000 comes due, \$5,000 in Jan. 1943, with like payments due July 1943 and Jan. 1944.

The price of the Pike property (purchased for water supply) was \$15,000 of which \$6,000 has been paid. Payments on this contract being made \$500. with accrued interest, quarterly. One of these payments is now due.

All of the above property payments have been made out of earnings but we have never been able to pay back to ourselves any of our investment in the way of dividends.

Several months back we foresaw the likelihood of a shut-down due to the war effort. And we tried to get our affairs in the best possible shape for such an eventuality. We were concerned about what would happen to the mine during an extended shut-down. We re-timbered portions of it, did some drainage work and believe it in such shape that it will stay open with a small amount of maintenance for a considerable period. We also tried to improve our financial condition, but due to added expense in the mine we were unable to do more than take care of current expense and payments. So when we closed down we had very little money on hand.

We had thought that in view of the shut-down by government order, the owners of the two properties we are purchasing would be willing to extend or waive payments, pending being able to renew operation of the mine. However this does not seem to be the case. The contract on the Yarnell Mine property provides that in case of default all improvements must remain on the property. We have gotten nowhere in our efforts to get an extension of payments on this property. It seems to us now that the owners would be very glad of a default so that they could take the property back with all of its improvements.

In the case of the Pike property (water supply) the owner has refused to make any concession and has notified us that he will sue on noncompliance of contract if the payment now due is not made within thirty days.

It has been shown clearly that if the property could have continued operating it could have paid off all remaining payments, as we have always met all of our payments on or before the date due. We would then have had the property clear and could have expected to get our investment back and some profit in the years to come. None of us are very well fixed financially and I don't see how we can meet these payments, together with the cost of maintaining the property, taxes etc. To refinance under existing conditions, if we were able to do it at all, would be at a tremendous sacrifice of our interest.

We do not object to having to close down the mine if made necessary by the war effort. Under these conditions we do not believe the owners are being fair in enforcing fulfilment of contract, although they are probably within their legal rights. So if their apparent intentions are carried out, the effect of the closing down in our case will probably mean the loss of our equities together with investments in improvements, unless relief is provided. We therefore earnestly urge that you take some action that will make it possible for us to retain our holdings and at some future date continue operations.

Yours very truly

Mark Gemmill Vice Pres. & Genl. Mgr.  
Winslow Gold Mining Co.  
132 So. Pleasant St., Prescott, Arizona.

C  
O  
P  
Y

*for your files*

WINSLOW GOLD MINING COMPANY  
PHONE LONG DISTANCE YARNELL  
YARNELL, ARIZONA

Nov 12, 1942.

Mr. Charles F. Willis, Consultant,  
Metals Reserve Company,  
Phoenix, Ariz.

Dear Mr. Willis:

In accordance with suggestions made in your letter of the 9th I will detail briefly the history of our operation of the Yarnell Mine and tell you the difficulties in which we now find ourselves as a result of having a close down.

I took over the property in 1938 on a development program. After about two years of hard work and the expenditure of some \$15,000 I had developed a sufficient tonnage of low grad ore to warrant the installation of a mill. A group came in with me to help finance this undertaking and the Winslow Gold Mining Co. was organized. None of us are men of much means and the company was never very well financed, but we did manage the purchase and installation of a first class Cyanide plant for approx. 125 tons daily capacity. Milling operations started in 1940 and continued without interruption until the recent shut-down.

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We don't feel that the owners are right in enforcing fulfillment of the contract under existing conditions. However under the law, no doubt they can do so. The effect of the closing down order in our case will probably mean the loss of our equities and investment in improvements unless relief is provided. There must be many other operators who find themselves in circumstances similar to ours.

We know that you are making every effort to effect some form of relief either by legislation or otherwise, for conditions such as ours and in closing I will add that we don't object at all to having to close if it is for the best interests of the country in the war effort. But we don't like the idea of having our equities and investments literally taken away from us and given to some one else.

Thanking you for your interest in our troubles,

Yours very truly,

(Signed) MARK GEMMILL

MARK GEMMILL Vice-Pres. & Genl. Mgr.  
Winslow Gold Mining Co.

November 11, 1942

H

Mr. Mark Gemmill  
132 South Pleasant  
Prescott, Arizona

Dear Mark:

Your letter of November 4 was attended to by Mr. Willis during my absence.

I hope you will take immediate action on filing a claim with the War Production Board on the Yarnell Mine as effected by the closing order.

Very truly yours,

J. S. Coupal  
Director

JSC:kk

*Law*  
\_\_\_\_\_

November 9, 1942

Mr. Mark Gemmill  
132 So. Pleasant  
Prescott, Arizona

Dear Mr. Gemmill:

I saw Mr. Simis this morning and he said you were going to send us your complete story regarding the Yarnell mine, purchase price, payments made, improvements made, etc., so that we can transmit it to Washington as an injustice caused by the gold limitation order and as a guide to the necessary legislation to protect those who were harmed by it.

We will be very glad to get that information just as soon as possible. Bill Broadgate has been instrumental in getting legislation started through Senator Murray of Montana to cover just such cases as yours and we want to see to it that he has the information regarding specific properties that would be taken care of under such legislation.

We also are advised that this gold limitation order may be reconsidered inasmuch as it has not resulted in getting employes for the copper mines. There may be conditions under which they can be restored to operation.

You will note in the box on page 1 of the October Pay Dirt a little story marked "Gold Miners Attention" and I am sending you a copy of the gold limitation order itself. You will note under "j" on page 2 that any person affected by this order who considers that compliance therewith would work an exceptional and unreasonable hardship on him may appeal to the W.P.B. You very definitely have a case for appeal and it would be very wise for you to make such an appeal immediately in order that your case may be before that board.

It is entirely possible that the relief will come through the W.P.B. on such cases as are appealed to them. Therefore, you are protecting yourself by making an appeal which is merely telling your story. If you do make such

TO: Mr. G. W. ...  
FROM: Mr. C. F. Willis  
SUBJECT: ...

Mr. Marie Gemmill

- 2 -

November 9, 1942

...  
an appeal please be sure that we get a copy of it so  
we can follow it up and help you to get action in Washington.

...  
With kindest personal regards, I am

Yours very truly,

CHARLES F. WILLIS, Consultant  
Metals Reserve Company

CFW:MH

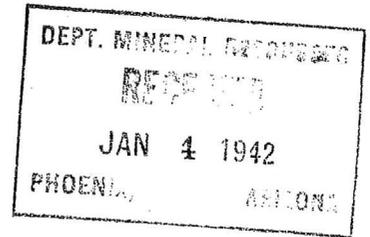
...  
I am

...

...

...

Washington, D.C.  
~~XXXX~~ Jan. 2, 1942



SUBJECT: Gold Mine Closing Order, L-208  
Winslow Gold Mines,

I have had this up with the WPB and am having them write Gemmill a letter indicating a possible course of action in filing a defense of his suit. At least it may delay the fatal day until we can get legislative action, although no one yet knows how the courts will rule.

For your general information, and to inform Gemmill before the WPB letter arrives, L-208 is a dependency on the Priority Regulation #1, which has in it a clause relating to the Second War Powers Act, Public 507, 77th Congress.

PP7 reads as follows: "Notwithstanding the following provision, no person shall be held liable for damages or penalties for any default on any contract or order which shall result directly or indirectly from compliance with this subsection (a) or any rule or regulation or order issued thereunder ~~notwithstanding~~ notwithstanding that any rule, regulation or order shall thereafter be declared by judicial or other competent authority to be invalid."

Certainly this will do to base a defense on and his attorney would do well to write his answer around it.

You can also call the possibilities to the attention of others whose appeals to the L-208 order were not favorably acted upon.

Bill Broadgate

MEMO:

YARNELL MINE

WEAVER MINING DISTRICT

YAVAPAI COUNTY

IS DESCRIBED IN BUREAU OF MINES

I. C. 6991 - FEBRUARY, 1938

p. 9, 34-39

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See: (1) MAP in BROWN MAP CABINET, Sect. 5,  
top of brown cabinet. ~~MINE OWNERS~~ MINE OWNERS files.

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Above  
Yarnell Mine file R

**PROPOSED YARNELL GOLD MINE  
ENVIRONMENTAL IMPACT STATEMENT  
AND MINING PLAN OF OPERATION**

**INFORMATION UPDATE**

Phoenix District Office, Bureau of Land Management

July 1996 -- No. 2

## Background

The Phoenix Resource Area of the Bureau of Land Management (BLM) Phoenix District is reviewing a mining plan of operations (MPO) submitted by Yarnell Mining Company (YMC), a wholly-owned subsidiary of Bema Gold (U.S.), Incorporated. The plan proposes to develop an open pit and heap leach mining operation under surface management regulations 43 Code of Federal Regulations (CFR) 3809.

The MPO, a dynamic document, will undergo further refinements. The current version requires more information regarding water sources that would supply the proposed operation. Revisions will be made as information becomes available. The proposed mine design and operating procedures will be fully described in the draft environmental impact statement (EIS).

## MPO refined

YMC has submitted a refined version of its MPO for the proposed mine. This version contains no major changes in the basic types and locations of the proposed facilities, including the open pit, waste rock dumps, leach pad and ponds. The plan contains more detailed information on the proposed design and procedures. This additional information was provided in response to the BLM's comments on the first draft and questions raised by the public. Additional information also was incorporated in conjunction with aquifer protection and air quality permit applications submitted to the Arizona Department of Environmental Quality.

The refined version of the MPO contains more detailed information regarding blasting procedures, dust suppression measures, the shipping, handling and storage of cyanide and other chemicals, measures to protect birds and other wildlife and procedures to ensure emergency access in case of road closures associated with blasting.

Notable changes include the use of generators to produce electrical power on site -- rather than the use of high-voltage transmission lines as originally proposed -- and additional information on leak detection, including a design for a more effective system under the leach pad.

## Exploration drilling

YMC conducted an exploration drilling program for several weeks during March and April 1996 to examine mineralization in the proposed pit area. All of the drill holes except one were on private land owned by YMC.

The BLM had no jurisdiction over the drilling conducted on private land and notified the mining company of complaints regarding drilling conducted early Easter Sunday.

## Water supply

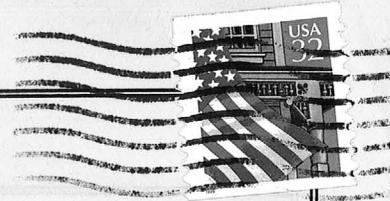
In its MPO, YMC proposes to obtain water from a well on its private land and from one or more wells in the Yarnell Creek watershed east of the proposed mining operation. In late 1995, the BLM granted temporary authorization for drilling exploratory wells on public lands at up to four locations for the sole purpose of locating water to determine if there is a sufficient quantity to meet the needs of the mining operation.

In December 1995, YMC drilled three wells, two of which were unproductive. Later, pump tests were conducted to determine the yields of two wells, one on YMC private property near Glen Ilah and one east of that property on public lands. The tests included monitoring several local wells, springs and streams to determine the impacts of pumping on water quantity and to collect information useful for mapping area groundwater systems. Impacts on the quality and quantity of groundwater and surface water will be one of the major issues analyzed in the EIS. The pump tests indicated that the two wells would not provide the entire 100 gallons per minute required for the proposed mining operation. YMC is considering additional potential water sources. The BLM has not granted any additional authorizations for drilling wells on public lands. Water supply Information will be distributed as it becomes available.

## Point of clarification

An article in the *Prescott Daily Courier* (May 27, 1996) contains an inaccurate statement regarding the purpose of the Yarnell EIS. Describing the concerns of local residents, the

U.S. Department of the Interior  
Bureau of Land Management  
Phoenix District Office  
2015 West Deer Valley Road  
Phoenix, AZ 85027



Phillips Ken A  
Chief Engineer  
Arizona Dept. Mines & Minerals Resources  
1502 W Washington  
Phoenix, AZ 85007-3210

article states: "Mine owners say those fears are unfounded and are in the process of proving that with an environmental impact statement." The BLM, not the mining company, is responsible for preparing the EIS. The mining company's role in the EIS is limited to providing technical information regarding the design, operating procedures and duration of the proposed operation. The purpose of an EIS is to analyze the environmental and social impacts of a proposed project, not to prove a particular viewpoint regarding those impacts.

An EIS presents a full and honest disclosure of environmental impacts based on objective, scientific analyses. It also addresses mitigation measures developed to reduce adverse impacts. EIS preparation requires public participation in identifying the issues to be analyzed through the scoping process, and the public is involved in reviewing and commenting on the published draft and final versions of the EIS. The final version contains all written comments received on the draft EIS, along with the BLM's responses to those comments and descriptions of any changes made in response to comments.

An EIS is not a decision document, although it provides information used by decision makers in evaluating a proposed project. The decision document, prepared after the EIS is completed, is known as the record of decision.

## Mining plan review

The BLM has received many questions about the process of reviewing mining plans. In responding to mining proposals, the BLM is required to carry out the provisions of the General Mining Law of 1872, as amended, and the Federal Land Policy and Management Act (FLPMA) of 1976. Procedures for doing so are contained in the regulations at 43 CFR 3809.

The BLM does not have the discretionary power to reject a mining proposal solely on the basis of local opposition, proximity to a community or the use of cyanide heap leaching

technology. Under the General Mining Law, YMC has a statutory right, subject to the regulations, to conduct exploration and mining activities on federal lands. According to the regulations, this right to mine entails "... the responsibility to assure that operations include adequate and responsible measures to prevent unnecessary or undue degradation of the federal lands and to provide for reasonable reclamation."

The BLM considers detailed information in making these evaluations and coordinates with other government agencies to confirm that the proposed operation would comply with permit requirements. EIS preparation involves analyses useful in evaluating impacts, alternatives, mitigation measures and reclamation procedures. Environmental analyses must be completed before a mining proposal decision is made.

Absent a finding of unnecessary or undue degradation, the BLM must approve a plan of operations.

The proposed operation would include about 119 acres of BLM-administered lands and 68 acres of private land owned by YMC in the Weaver Mountains of Yavapai County south of Yarnell. The scope of the EIS includes all areas that could be affected by the project, regardless of landownership. However, the BLM has the authority to regulate activities or impose mitigation measures only on federally administered lands.

The BLM has received letters requesting that it work toward changing the laws it administers. Although BLM employees can act as private citizens in expressing their opinions to members of Congress, they ordinarily are not allowed to lobby for or against laws or bills in the course of carrying out their federal job responsibilities.

## For further information

Contact project manager Connie Stone at the Phoenix District Office, BLM, 2015 West Deer Valley Road, Phoenix, Arizona 85027 or call (602) 780-8090.

Yarnell Mine file

# PROPOSED YARNELL GOLD MINE ENVIRONMENTAL IMPACT STATEMENT AND MINING PLAN OF OPERATION

## INFORMATION UPDATE

Phoenix District Office, Bureau of Land Management

March 1996 -- No. 1

### Background

The Phoenix Resource Area of the Bureau of Land Management (BLM) Phoenix District is responding to a preliminary mining plan of operations (MPO) submitted by the Yarnell Mining Company, a wholly-owned subsidiary of Bema Gold (U.S.), Incorporated. The plan proposes to develop an open pit, heap leach mining operation under surface management regulations 43 CFR (Code of Federal Regulations) 3809.

The proposed operation includes about 92 acres of public lands and 68 acres of private land in the Weaver Mountains of Yavapai County south of Yarnell.

The BLM will prepare an environmental impact statement (EIS) in conjunction with the MPO. An EIS accurately analyzes potential impacts to the environment of a particular course of action and its reasonable alternatives.

In preparing the EIS, the BLM is mandated to follow the guidelines set forth by the Federal Land Policy and Management Act (FLPMA) of 1976, the National Environmental Policy Act (NEPA) of 1969 and the Mining Law of 1872.

### Scoping meetings

Public participation plays a vital and continuing role in the development of an EIS. The process began with scoping and will make available additional opportunities for public involvement.

The three public scoping meetings held in October 1995 in Wickenburg, Yarnell and Prescott were attended by more than 400 participants. Interdisciplinary team members and representatives of the Yarnell Mining Company met with the public to describe the mining proposal, answer questions, list concerns and open the lines of communications.

### Public meetings

Future meetings to give the public opportunity to provide input into the EIS process will be scheduled and

announced through local media, information updates like this, the mailing list and personal correspondence.

### Interdisciplinary Team

The consulting firm of P.M. De Dycker and Associates, Inc., (PDA) of Lakewood, Colorado is assisting the BLM in preparing the EIS. The EIS will be prepared by an interdisciplinary team of technical specialists led by Connie Stone, BLM project manager.

The BLM/PDA interdisciplinary team includes mining engineers, geologists, hydrologists, wildlife biologists, a botanist, a soil scientist, an economist, a noise analyst, a blasting specialist, a water rights specialist, air quality specialists, archaeologists, writer-editors, visual impact specialists, a range conservationist and a realty specialist.

The team was selected to cover the range of issues identified during the scoping process. Some team members, e.g., the blasting specialist, were added in response to public comment.

In addition to conducting the analyses and writing the document, team members participate in public meetings or media interviews when and if a particular issue calls for technical explanation. The team also participates in preparing responses to public comments on the draft EIS.

### Issue identification

The EIS scoping period ended on November 21, 1995. Through public meetings and the comments received during the scoping period, issues were identified for consideration in completing the EIS. Many of these issues will receive objective, detailed analyses (e.g., impacts on groundwater quality) while other issues will be considered but not analyzed in detail due to reasons that will be explained in the EIS (e.g., impacts on global warming).

About 200 letters or written comments were received from individuals, organizations and government agencies, and additional comments were recorded on flip charts from those who attended the scoping meetings in Wickenburg, Yarnell and Prescott.

U.S. Department of the Interior  
Bureau of Land Management  
Phoenix District Office  
2015 West Deer Valley Road  
Phoenix, AZ 85027



Phillips Ken A  
Chief Engineer  
Arizona Dept. Mines & Minerals Resources  
1502 W Washington  
Phoenix, AZ 85007-3210

The most frequently expressed concerns focused on impacts to air and water quality, water quantity, wildlife and vegetation, impacts of blasting and noise, economic and social effects on local communities and reclamation procedures. Visual impacts, cultural resources and effects on highway use were also identified as concerns.

The interdisciplinary team is determining specific issues to receive detailed analysis and wishes to express appreciation for the time and effort devoted by the public and agencies in identifying their concerns.

## Comment results

Management officials, the interdisciplinary team and the project manager have carefully studied all of the public comments from the October 1995 scoping meetings and correspondence received by the BLM. A total of 1,366 people opposed to the mining operation signed petitions to that effect. Of that number, about 10 percent (132) of the signatures included incomplete/illegible names/addresses. The majority -- about 18 percent (244) of the complete, legible signatures -- listed addresses in Yarnell; 11 percent (156), the Prescott area; 11 percent (145), Wickenburg; 10 percent (132), Phoenix.

## Environmental studies

The interdisciplinary team has determined the need for additional field studies to gather information needed to address the issues identified by the public. To address visual impacts, key locations in Glen Ilah and Yarnell will be identified to produce photographs of existing

views and simulated photographs of how those views would appear during the proposed mining operation and after reclamation.

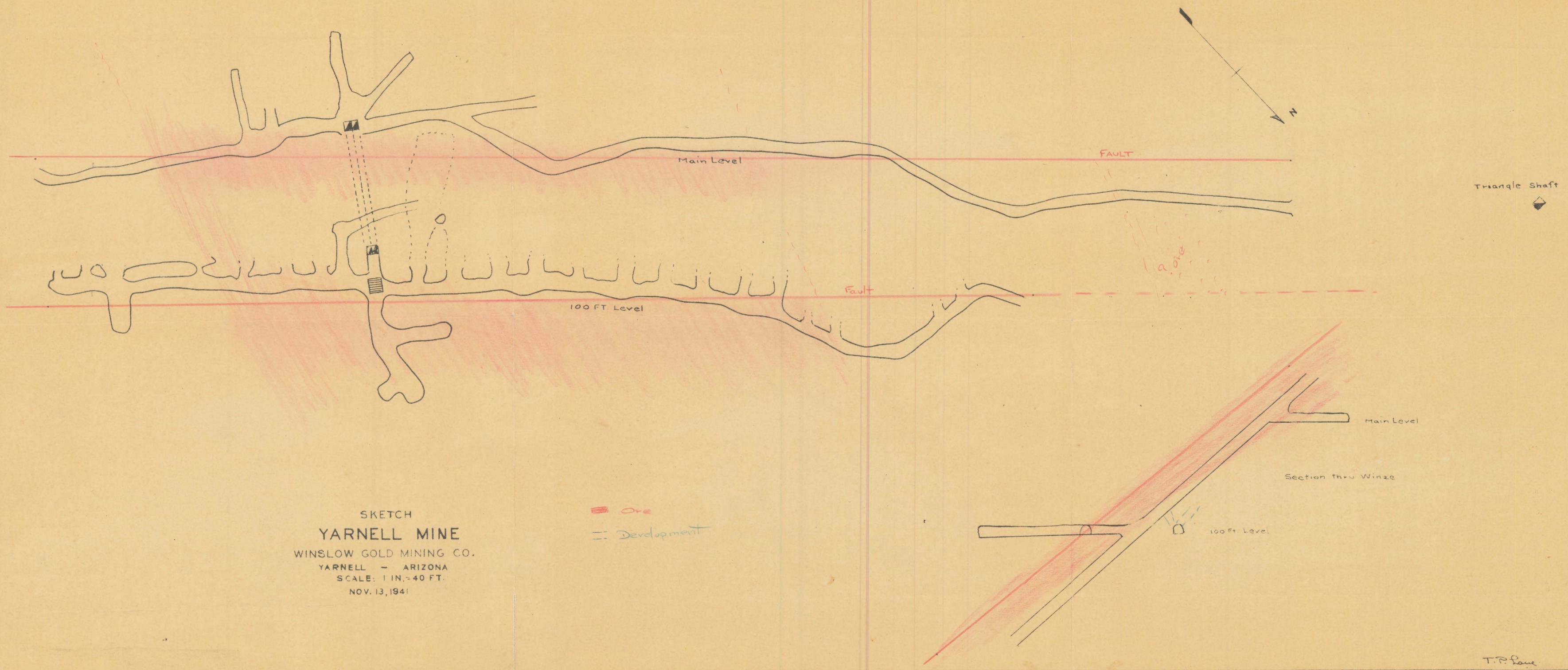
The team will also conduct studies to better map and characterize surface water and groundwater conditions. The mining company proposes to obtain its water from a well on its private property and from one or more wells in the Yarnell Creek watershed to the east.

One objective of the interdisciplinary team is to determine how the mine's use of the water would affect local wells. Pumping tests will determine if existing wells would yield sufficient water for the proposed mine and to evaluate the impacts on private wells. The interdisciplinary team is contacting owners of wells identified from public records as having the potential to provide useful information for assessing impacts. Monitoring will take 20 to 25 days, during which time the owners will not be able to use the wells. The study will be conducted by a professional hydrologist overseen by the BLM. Anyone interested in participating may contact the Phoenix District BLM at the address/telephone number below.

After touring the proposed mine area in December 1995, the interdisciplinary team is compiling environmental baseline data to support the EIS impact analyses, a time-consuming but important part of the EIS preparation.

## For further information

Contact project manager Connie Stone at the Phoenix District Office, BLM, 2015 West Deer Valley Road, Phoenix, Arizona 85027 or call (602) 780-8090.



SKETCH  
**YARNELL MINE**  
 WINSLOW GOLD MINING CO.  
 YARNELL - ARIZONA  
 SCALE: 1 IN. = 40 FT.  
 NOV. 13, 1941

■ Ore  
 == Development

T.P. Lane