



## **CONTACT INFORMATION**

Mining Records Curator  
Arizona Geological Survey  
1520 West Adams St.  
Phoenix, AZ 85007  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

## **ACCESS STATEMENT**

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

## **CONSTRAINTS STATEMENT**

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

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

## **QUALITY STATEMENT**

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

01/14/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SIOUX SILVER LEAD MINE

ALTERNATE NAMES:

CENTIPEDE  
WHITE SPAR  
BSB MINING ORGANIZATION CLMS.

YAVAPAI COUNTY MILS NUMBER: 1135C

LOCATION: TOWNSHIP 13 N RANGE 2 W SECTION 32 QUARTER S2  
LATITUDE: N 34DEG 21MIN 05SEC LONGITUDE: W 113DEG 13MIN 28SEC  
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER  
GOLD  
COPPER  
ZINC  
LEAD

BIBLIOGRAPHY:

ADMMR SIOUX SILVER LEAD MINE FILE  
BLM AZ MINING CLAIMS FILES 76365 & 76366  
BLM AZ MNG CLAIMS LEAD FILE 34426

(Grace)

Sec'd 10-63

State of Texas

Sparkes and Bones

P. O. Box 346 P. O. Box 178

Prescott, Arizona Bisbee

12-9-40

✓ See MS-65 - Re Field Engineers Report - SIoux SILVER LEAD MINE,

See file - Sparkes

STATE OF TEXAS

request for law booklet

3-27-16

SIoux SILVER LEAD MINE

Ag, Pb, Au

Yavapai

13 - 4

T 13 N, R 2 W

Sioux Gold, Silver Lead Mng. Co., Box 346, Prescott '40

United States  
Department of  
Agriculture

Forest  
Service

Bradshaw  
Ranger District

2230 East Highway 69  
Prescott, AZ 86301

*Sioux Silver and Lead Mine file K*

Reply To: 2810

Date: November 30, 1995

Dear Concerned Citizen:

This letter is to announce the Forest Service preferred alternative for a proposed mineral exploration project. We are interested in your comments on this pre-decision; comments received during the next 30 days will be considered before a final decision is made. Your comments should deal with issues and concerns specifically relevant to the proposed exploration project.

The enclosed environmental assessment was prepared in response to a proposal by Milton Laughlin to drill a 60' deep exploratory hole to assess gold mineralization potential on his mining claims.

The project area is southwest of the community of Ponderosa Park, in the NW of section 32 and the SW of section 29, T13N, R2W. The project area is in chapparral, in moderately sloping topography at an elevation of 5600' to 5700'. Issues raised in the scoping process of the environmental assessment included potential sedimentation and erosion, potential degradation of ground water, impact to vegetation and to wildlife (especially sensitive species), maintenance of visual quality of the area and potential fire hazard and air pollution due to the proposed work.

My pre-decision is to allow the proposed drill hole with stipulations to the Operating Plan approval to mitigate effects to other resources, in particular effects tied to issues raised through the scoping process. This decision is consistent with the Forest Plan in that the proposed activity follows the Plan's direction to "administer the mineral rights and regulations to minimize surface disturbances while supporting sound energy and mineral exploration and development". It also supports the Plan's direction to require adequate reclamation bonding and to meet the requirements of 36 CFR 228. The mitigation measures described in Alternative C address the issues and concerns raised through both the internal and external scoping done for the drilling proposal. Two alternatives were considered in evaluating the proposal and reaching this pre-decision; a "no action" alternative was rejected because it did not follow direction provided in the Forest Plan, Forest Service regulations, or General Mining Laws; the Forest Service does not have the authority to deny a claimant the right to explore a valid claim or land with outstanding mineral rights.

Caring for the Land and Serving People

An alternative to approve the Operating Plan as submitted was rejected because it did not provide adequate resource protection. The chosen alternative allows the claimant his statutory rights while at the same time providing mitigation to address environmental concerns.

Comments on this pre-decision should be submitted to the District Ranger John Holt, Bradshaw Ranger District, 2230 E. Highway 69, Prescott, AZ. 86301. Any questions concerning this letter should be directed to Beverly Morgan at 520-445-7253.

Sincerely,



JOHN W. HOLT  
District Ranger

Enclosure

ENVIRONMENTAL ASSESSMENT

LAUGHLIN DRILLING PROJECT

USDA Forest Service  
Prescott National Forest  
Bradshaw Ranger District  
Prescott, Arizona

**PURPOSE AND NEED FOR ACTION**

On May 26, 1995, Milton Laughlin submitted a Plan of Operations to the Prescott National Forest, Bradshaw Ranger District, outlining a proposed mineral exploration project. The details of this proposal can be reviewed in the Operating Plan, Appendix A.

The project area is located approximately 5 miles south of Prescott, and immediately southwest of the residential community of Ponderosa Park. The legal description of the proposed operation is T13N, R2W, in the NW quarter of section 32 and the SW of section 29.

The proposal calls for the construction of one 20' by 20' drill pad, and drilling of one 60' deep exploratory drill hole. An estimated 475' of road construction will be necessary for access to the drilling site; this construction will involve minor earthwork (in an area of about 30' by 30') to level a portion of the route in, and clearing of chapparral along the length of the access road. Equipment to be used in this proposed operation includes the rotary drill rig, and a backhoe for road construction. The proposed duration of the operation is three days.

The project area is predominantly chaparral vegetation, though it is adjacent to Ponderosa Pine forest. Both the drill pad and access road segment would be constructed in chaparral.

Evaluation of this proposal follows the direction of United States mining laws (30 U.S.C. 21-54), which confer a statutory right to enter upon certain public lands, including National Forest System lands, to search for minerals. Denial of a claimant's right to operate and remove locatable minerals in a reasonable manner, from National Forest System lands that are open to mineral entry, is not within the decision making power of the United States Forest Service.

The Forest Service may, however, conduct an environmental analysis of proposed mining operations and define procedures and mitigations that will minimize adverse environmental impacts on the National Forest System surface resources (36 CFR 228). It is thus within the framework of the mining laws and Forest Service regulations that this Environmental Assessment is written. The deciding official responsible for approval of this Plan of Operations is the Bradshaw District Ranger. Alternatives considered in this project include, A) disapproval of the Plan of Operations, and denial of the operator's request to operate, B) approval of the Plan of Operations as submitted, C) approval of a modified Plan of Operations.

The EA itself is not a decision document; it is used to make an informed decision about the exploration activity in question. The decision on this proposal is stated in the accompanying Decision Notice.

Public scoping consisted of notifying the Arizona Game & Fish Department, Arizona Department of Environmental Quality, the Army Corps of Engineers and approximately 75 other individuals and groups. Local landowners in the project area were also notified.

Issues raised through the public scoping included maintaining water quality, especially in regards to the aquifers which provide water for the community of Ponderosa Park; minimizing soil erosion, and protecting trees and wildlife in the project area.

Internal scoping consisted of consultation with staff members in hydrology, minerals, cultural resources, and wildlife; issues raised through this scoping included potential impact to ground and surface water, preservation of timber and other vegetation, potential impact to sensitive wildlife species, sedimentation, preservation of cultural resources and visual effects of the proposed activity. Specialists involved in the review of the proposal evaluated the potential impact to specific resources along the proposed access road, at the drill pad site, and to the surrounding area.

#### ALTERNATIVES

During the environmental analysis phase the proposal was evaluated and a range of alternatives developed to address issues and concerns that were generated through scoping with interested facets of the public, other government agencies, and internally. The issues raised through both external and internal scoping were used to develop alternatives and mitigation measures. Three alternatives follow which describe the range of possible actions; these alternatives were evaluated for their ability to:

1. Provide for exploration and mining of locatable minerals, as outlined in the 1872 Mining Laws and subsequent amendments.
2. Comply with Forest Service Regulations and manual direction.
3. Comply with the Land and Resource Management Plan for the Prescott National Forest.
4. Provide for environmental protection.

#### Alternative A - No Action

This alternative would disapprove the Operating Plan and deny the right to conduct mineral exploration at the proposed project site. This alternative is not truly viable due to the claimant's statutory right to mine on a valid mining claim. Denial of the right to mine would violate mining laws, would be contrary to Forest Service regulations, and does not comply with the Land and Resource Management Plan direction for this area.

#### Alternative B - Approve the operation as proposed in the Operating Plan.

This alternative allows mining and mineral exploration according to the appropriate mining laws, but does not require compliance with the direction of the Land and Resource Management Plan. It also does not

require complete mitigation of all adverse effects of the mining operation or bonding in an amount necessary to cover reclamation costs.

Alternative C - Approve the operation with specific modifications and adequate reclamation bonding.

This alternative approves the operation as proposed in the Operating Plan, but with extensive modifications to mitigate the environmental effects of the operation. The Operating Plan would remain the same as that shown in Appendix A, with the modifications and reclamation bond shown in Appendix B.

This alternative allows mining operations according to the appropriate mining laws. The addition of specific mitigation measures and the reclamation bond requirement will ensure that this alternative fully complies with Forest Service mineral regulations, NEPA, and the direction in the Land and Resource Management Plan.

#### AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

The project area is in chapparral adjacent to a Ponderosa Pine forest. The drilling and road construction would be done on granitic bedrock with little soil cover, on mostly moderate slopes; elevation ranges from 5600' to 5700'.

Environmental effects and limitations relevant to the issue and to the decision are summarized as follows.

#### Water Quality and Erosion

The concern was raised, both internally and externally, that road and drill pad construction in the proposed operation would create excessive erosion. Implementation of Alternative A, no action, would result in no change to the environment. Alternative B, approval of the Operating Plan as submitted, would allow disturbed areas to remain bare for up to three months, maximizing any erosion and sedimentation created by the disturbances. This alternative also calls for the construction of two recirculation ponds next to the drill pad; the ponds would necessitate further bare ground, and potentially greater erosion and sedimentation.

Alternative C, approval of the Operating Plan with modifications, provides measures that minimize erosion and protect water quality. These measures include limiting the life of the operation to three days, immediate reclamation and seeding of disturbed areas, and the use of above ground water storage tanks instead of excavated ponds as holding tanks. With this alternative, the type of "mud" used in the drilling process must, according to conditions added to the Operating Plan approval, be one that is typically used in domestic water well drilling. A stipulation will also be added that after completion of the drilling, the drill hole will be secured with a neutral plug to preclude the possibility of any type of surface contamination entering the hole. A second issue raised was the need to insure that water quality control was administered

- ① Three days is not a reasonable length of time for the operation
- ② Immediate reclamation is no warranted
- ③ The above ground tanks is excessive.

and that any necessary permits be obtained. In this regard, both the Arizona Department of Environmental Quality and the U.S. Army Corps of Engineers were notified of the proposal.

### Wildlife

The proposed project raised the issue of the possible negative impact on Threatened, Endangered and Sensitive (TES) wildlife species. In response to this issue the TES Wildlife Species List for the Prescott National Forest was reviewed, and databases and species occurrence records were consulted for all habitat potential for TES species. The research indicated that there are no TES species nor their habitat in the project area.

Alternative A, denial of the proposal, would have no effect on TES species. Alternatives B and C would also have no effect on TES species, due to the fact that neither the species nor their habitats occur in the project area.

The concern was also raised that wildlife would be caught in the recirculation ponds proposed for water used in the drilling. Alternative A would have no effect; alternative B would involve the excavation of two recirculation tanks which may have had an effect on wildlife, depending on the design of the tanks. Alternative C calls for a condition to the Operating Plan specifying above ground, enclosed tanks, which wildlife would be unable to enter.

### Vegetation

The primary concern regarding vegetation in the project area was the removal of Ponderosa Pine and other trees. Alternative A would have no effect on vegetation. Alternatives B and C would involve the possible removal of some scrub oak trees in construction of the access road into the drill site. In the original proposal, the number of trees to be removed with road construction was not specified; the appended conditions to the Plan of Operations under alternative C specify that the operator must flag the access route in and obtain Forest Service approval of the route prior to the removal of vegetation; the approved route will be one that minimizes tree removal.

A second issue regarding vegetation was the effect of the proposed project on riparian areas. This issue was dismissed due to the fact that there is no riparian vegetation in the project area.

### Cultural Resources

A cultural resource survey was completed and no cultural resources were found in the project area.

### Visual Resources

The issue of maintaining visual quality in the project area was tied primarily to vegetation loss with access road construction. Alternative A would not create any changes to the visual quality of the area. Alternative B called for vegetation removal with road and drill pad construction, and did not specify any limits in terms of the amount or type of vegetation to be removed. Alternative C allows only a specified amount and type of vegetation removal, to

be addressed in the appended conditions to the Operating Plan approval, and insured through Forest Service inspection of the proposed access road route.

#### CONSULTATION WITH OTHERS

In addition to the scoping described in the first section of this document, there has also been a great deal of contact with residents of Ponderosa Park, near the project area. Because of the concerns of Ponderosa Park residents, and their objections to the proposed project, a public meeting was held to address issues and answer questions residents had concerning the proposal. This meeting was held on August 16, 1995 at the Fire Station near Ponderosa Park. Issues raised by park residents were used in the Environmental Assessment and in developing alternatives to the original proposal.

APPENDIX A

OPERATING PLAN  
for the  
Laughlin Drilling Project

**PLAN OF OPERATIONS  
FOR MINING ACTIVITIES  
ON NATIONAL FOREST LANDS**

Submitted by Milton Laughlin Operator 5/26/95  
Signature Title Date

Plan Received by \_\_\_\_\_  
Signature Title Date

**I. GENERAL INFORMATION**

- A. Name of Mine/Project Speculation #1 and #2
- B. Type of Operation Core Drilling Exploration  
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (new continuing) operation? (CIRCLE ONE)  
If continuing a previous operation, this plan (replaces/modifies) a previous plan of operation. (CIRCLE ONE)
- D. Proposed start-up date of operation At time of approval
- E. Proposed duration of operations Three Months
- F. Proposed seasonal reclamation close-out Three Months
- G. Expected date for completion of all reclamation Three Months

**II. PRINCIPALS**

A. Name, address and phone number of operator Milton Laughlin P. O. Box 2602  
Prescott, Az. 86302  
Message -- 445-4495

B. Name, address, and phone number of authorized field representative (if other than the operator). Attach authorization to act on behalf of operator.  
\_\_\_\_\_  
\_\_\_\_\_

C. List the owners of the claims (if other than the operator)  
\_\_\_\_\_  
\_\_\_\_\_

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

C. List name and address of any other lessees, assigns, agents, etc. who are connected with the operation, if applicable:

III. PROPERTY OR AREA

Name of claim, if applicable, and the legal land description where the operation will be conducted.

County MC #	Name	Section	Township	Range
9520I76	Speculation #1	32-	T13N -	R2W
	Speculation #2	29 -	T13N -	R2W

IV. DESCRIPTION OF THE OPERATION

A. Access. Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and sizes of vehicles and equipment that will use the access routes.

Existing road south of Indian creek camp ground 7/10 of a mile.

Extend road 475 ft. to drilling site, 10 ft. wide. 50 ft. circle

at drill site. Two small recycle ponds, same ponds used for

settling, 10ft. circles 3 ft. deep. Use backhoe for road,

rotar rig for drilling. Drill pad for drill rig 19 x 20.

B. Map, Sketch or Drawing. Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

Maps and sketches showing location and layout of operation

included with this plan of operation. Top of hill no creeks,

nothing to be disturbed except small amount of oak brush.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

C. **Project Description.** Describe all aspects of the operation: how cleaning will be accomplished, topsoil stockpiled, waste rock, cement, tailings disposal, etc. Calculate production rates and total volumes of waste rock and ore. Include justification and calculations for settling pond capacities and, the size of runoff diversion channels.

1. For first <sup>3</sup>12 months:

Drill one six inch hole 60 ft. deep. Take core samples.

If samples are good will continue exploration, if not will discontinue operations. Will use two small ponds for

recycling and settling. Ponds will hold about 250 gal. each.

Level off area at drill site for drill pad about 10 x 20.

2. For total life of project:

Will depend on the core samples.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)

- D. **Equipment and Vehicle** - Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). **Include:** sizes, capacity, frequency of use, etc.

Backhoe tractor to upgrade existing road, brush and extend road. Clear area for drilling and dig recycle ponds.

Rotary drilling rig to hole for core samples.

- E. **Structures.** Include information about fixed or portable structures or facilities planned for the operation. Show their locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipe lines, water diversions, trailer, sanitation facilities including sewage disposal, etc. Include justification and calculations for sizing of tanks, pipelines and water diversions.

#### V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

- A. **Air Quality.** Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

Propose to dig hole for oak brush and cover up.

No burning.

*(If more space is needed to fill out a block of information, use additional sheets and attach to form.)*

B. **Water Quality.** State how applicable state and federal water quality standards will be met. Describe what measures or management practices will be used to minimize water quality impacts and meet applicable standards.

1. State whether water is to be used in the operation, and if so, how. If water is used in the operation (processing ore, washing ore, solution make-up, etc.) state how the water will be stored, treated and disposed of. If ponds of any type are proposed, such as for storage or settling, state how they will be designed and built. Provide storage capacities. State how ponds will be maintained on an annual basis.
2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.
3. Describe proposed surface water and ground water quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.
4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.
5. If land application is proposed for waste water disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.

About 500 gal. of water will be used to drill 60 ft. hole.  
For Recycling and settling, that's all, any settlings  
will be in ponds.

C. **Solid Wastes.** State whether the proposed operations will produce tailings, dumpage, or other waste, and if so, what types of waste and their estimated quantities. State how tailings, dumpage, or other waste produced by operations will be disposed of or treated so as to minimize adverse impacts upon the environment and forest surface resources.

There will be no waste.

D. **Scenic Values.** State how scenic values will be protected (such as screening, slash disposal, timely reclamation, etc.).

Soon as ponds are no longer needed, will cover up.

E. Fish and Wildlife. Describe practicable measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.

---

---

---

---

---

---

F. Cultural Resources. Describe measures for protecting known historic and archeological values.

---

---

---

---

---

---

G. Hazardous Substances.

1. List all substances including cyanide by name and quantity, which you intend to use or generate during the proposed operation.

---

---

---

---

---

---

2. Describe generation, handling, storage, disposal, security (fencing), identification (signing/labeling), or other special operations requirements for substances necessary to conduct the proposed operation.

---

---

---

---

---

---

---

---

---

---

*(If more space is needed to fill out a block of information, use additional sheets and attach to form.)*



B Bond - As a further guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations, the operator delivers herewith and agrees to maintain at least one of the following forms of financial guarantee:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or

2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond in the sum of \_\_\_\_\_ (\$ \_\_\_\_\_).

The bond amount may be adjusted during the term of this approved plan of operations in response to changes in the operation. The bond calculation worksheet is attached.

#### TERMS AND CONDITIONS

- ✓ A. It is understood that this plan of operations has been approved for a period of 3 MONTHS or until \_\_\_\_\_ . A new or revised plan must be submitted in accordance with 36 CFR Part 228, Subpart A if operations are to be continued.
- ✓ B. It is understood that approval of this plan of operations does not constitute: (1) certification of ownership to any person named herein; and (2) recognition of the validity of any mining claim named herein.
- ✓ C. It is understood that approval of this plan of operations does not constitute: (1) certification of ownership to any person named herein; and (2) recognition of the validity of any mining claim named herein.
- ✓ D. It is understood that a bond equivalent to the actual cost of performing the agreed upon mitigation and reclamation measures may be required before this plan can be approved.
- ✓ E. It is understood that approval of this plan does not relieve me of my responsibility to comply with any other applicable state or federal laws, rules or regulations.
- ✓ F. It is understood that information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules and regulations.
- ✓ G. It is understood that if previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- ✓ We have reviewed and agree to comply with all conditions in this plan of operations, including the recommended changes and reclamation requirements. We understand that the bond will not be released until the Authorized Officer in charge gives written approval of the reclamation work.

Milton Lushkin  
Operator (or Authorized Representative) (Date)

May 26, 1995

**OPERATING PLAN:**

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Authorized Officer)

\_\_\_\_\_  
(Date)

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0596-0022), Washington, D.C. 20503.

When recorded, mail to:

Name: Milton Laughlin  
Address: P. O. Box 2602  
Prescott, Az.  
City/State/Zip Code: 86302

**INDEXED &  
MICROFILMED**

RECORDED YAVAPAI COUNTY ARIZONA

INSTRUMENT # 9515388  
OFFICIAL RECORDS OF  
YAVAPAI COUNTY  
MARGO W. CARSON  
REQUEST OF:  
MILTON LAUGHLIN  
DATE: 03/28/95 TIME: 11:45  
FEE: 5.00 SC: 4.00 PT: 1.00  
BOOK 2991 PAGE 129 PAGES: 002

BK	FEE
	2
MAP	\$1
PCL	\$5
	\$10

Space above this line for Recorder's use

### NOTICE OF MINING CLAIM

1. TYPE OF NOTICE:  Location  Amendment  Relocation
2. TYPE OF CLAIM:  Placer  Lode  Millsite  Tunnelsite
3. The name and address of the Locator is  
Name: Milton Laughlin Or Wilma Baker  
Address: P. O. Box 2602  
City/State/Zip Code: Prescott, Az. 86302
4. The name of the claim is Speculation #I
5. The date of the location is March 28th 1995
6. The claim is 1500 feet long and 500 feet wide. The distance from the location monument to each end of the claim is 150 feet in a Northerly direction and 1350 feet in a Southerly direction.
7. The general course of the claim is from the North to the South
8. The location of the claim is in Section 32, Township T 13 N., Range R 2 W, Gila and Salt River Base and Meridian, Hassayampa Mining District, Yavapai County, State of Arizona.
9. If amending or relocating, the previous claim name was Speculation #I recorded in Docket(Book) 2949 page(s) 019 002, Mining District, Yavapai County, State of Arizona.
10. The location of the claim with reference to a natural object or permanent monument is The N. W. Corner is at A survey Monument S. W. Corner of Ponderosa Park

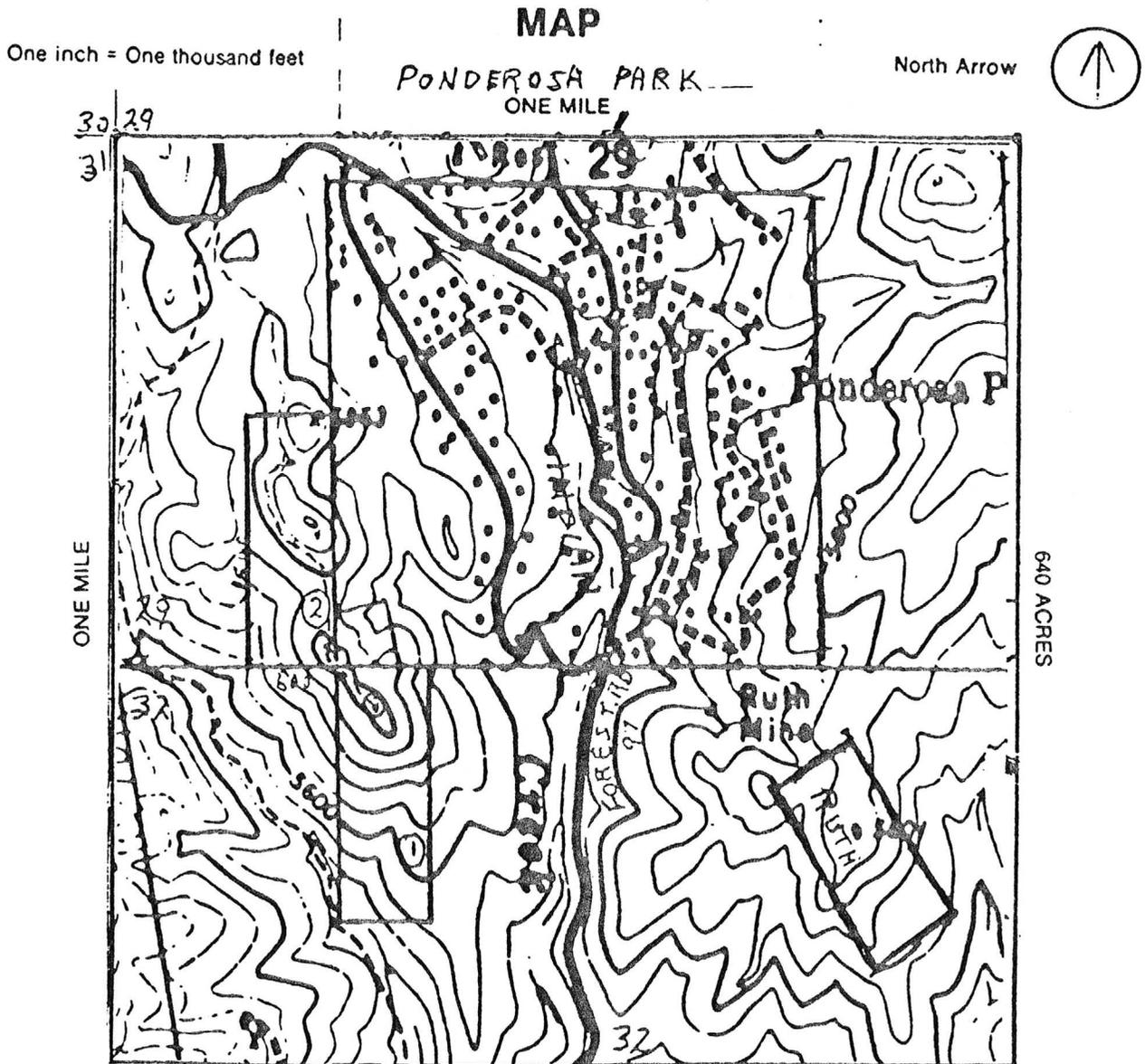
Dated: March 28th 1995

Milton Laughlin Wilma Baker  
Signature

P. O. Box 2602  
Address  
Prescott, Az. 86302  
City/State/Zip

BOOK 2991 PAGE 129

- The name of the claim is Regulation #1;
- The N. W. corner of the claim is 1320 feet in a Westerly direction to a survey monument or permanent natural object described as Sec. 29-30-31-32.  
The N. W. Corner of claim is also a survey monument
- The type of location monument is 3 in. plastic pipe 4ft. long.  
The type of corner end monuments are Same
- The bearing and distance between the corners of the claim are beginning at the N. W. corner of the claim, 1500 feet in a Southerly direction to the S. W. corner, then 600 feet in a Easterly direction to the S. E. corner, then 1500 feet in a Northerly direction to the N. E. corner, then 600 feet in a Westerly direction to the point of beginning.



Section 32 Range R 2 W Township T 13 N.  
Hassayampa Mining Dist. Yavapa County Gila & Salt River Base and Meridian.  
 Dated: March 28th. 1995 *William D. ...*  
Signature

INDEXED &  
MICROFILMED

When recorded, mail to:

Name: Milton Laughlin  
Address: P.O. Box 2602  
Prescott, Az.  
City/State/Zip Code: 86302

RECORDED YAVAPAI COUNTY ARIZONA

INSTRUMENT # 9520176  
OFFICIAL RECORDS OF  
YAVAPAI COUNTY  
MARGO W. CARSON  
REQUEST OF:  
MILTON LAUGHLIN  
DATE: 04/21/95 TIME: 14:30  
FEE: 5.00 SD: 4.00 PT: 1.00  
BOOK 3003 PAGE 792 PAGES: 002

BK	FE
MAP	SS
PCL	SS
SI	
10	

Space above this line for Recorder's use

### NOTICE OF MINING CLAIM

- TYPE OF NOTICE:  Location  Amendment  Relocation
- TYPE OF CLAIM:  Placer  Lode  Millsite  Tunnelsite
- The name and address of the Locator is  
Name: Milton Laughlin Or Wilma Baker  
Address: P.O. Box 2602  
City/State/Zip Code: Prescott, Az. 86302
- The name of the claim is Speculation #2
- The date of the location is 4/21/95
- The claim is 1500 feet long and 600 feet wide. The distance from the location monument to each end of the claim is 800 feet in a Northerly direction and 700 feet in a Southerly direction.
- The general course of the claim is from the North to the South
- The location of the claim is in Section 29, Township T \* 13 - N, Range R - 2 W, Gila and Salt River Base and Meridian, Hassayampa Mining District, Yavapai County, State of Arizona.
- If amending or relocating, the previous claim name was Speculation #2 recorded in Docket(Book) 2960 page(s) 272, Hassayampa Mining District, Yavapai County, State of Arizona.
- The location of the claim with reference to a natural object or permanent monument is The South East corner is at a survey Monument south west corner of Ponderosa Park

Dated: 4/21/95

Milton Laughlin  
Wilma Baker

Signature

P. O. Box 2602

Address

Prescott, Az. 86302

City/State/Zip

1. The name of the claim is Speculation #2
2. The Southeast corner of the claim is 1320 feet in a Westerly direction to a survey monument or permanent natural object described as Sec. 29-30-31-32  
The S. E. corner of claim is also a survey Monument
3. The type of location monument is 3 in" plastic pipe 4 ft. long  
The type of corner end monuments are Same
4. The bearing and distance between the corners of the claim are beginning at the South East corner of the claim, 1500 feet in a Northerly direction to the North East corner, then 600 feet in a Westerly direction to the North West corner, then 1500 feet in a Southerly direction to the South West corner, then 600 feet in a Easterly direction to the point of beginning.

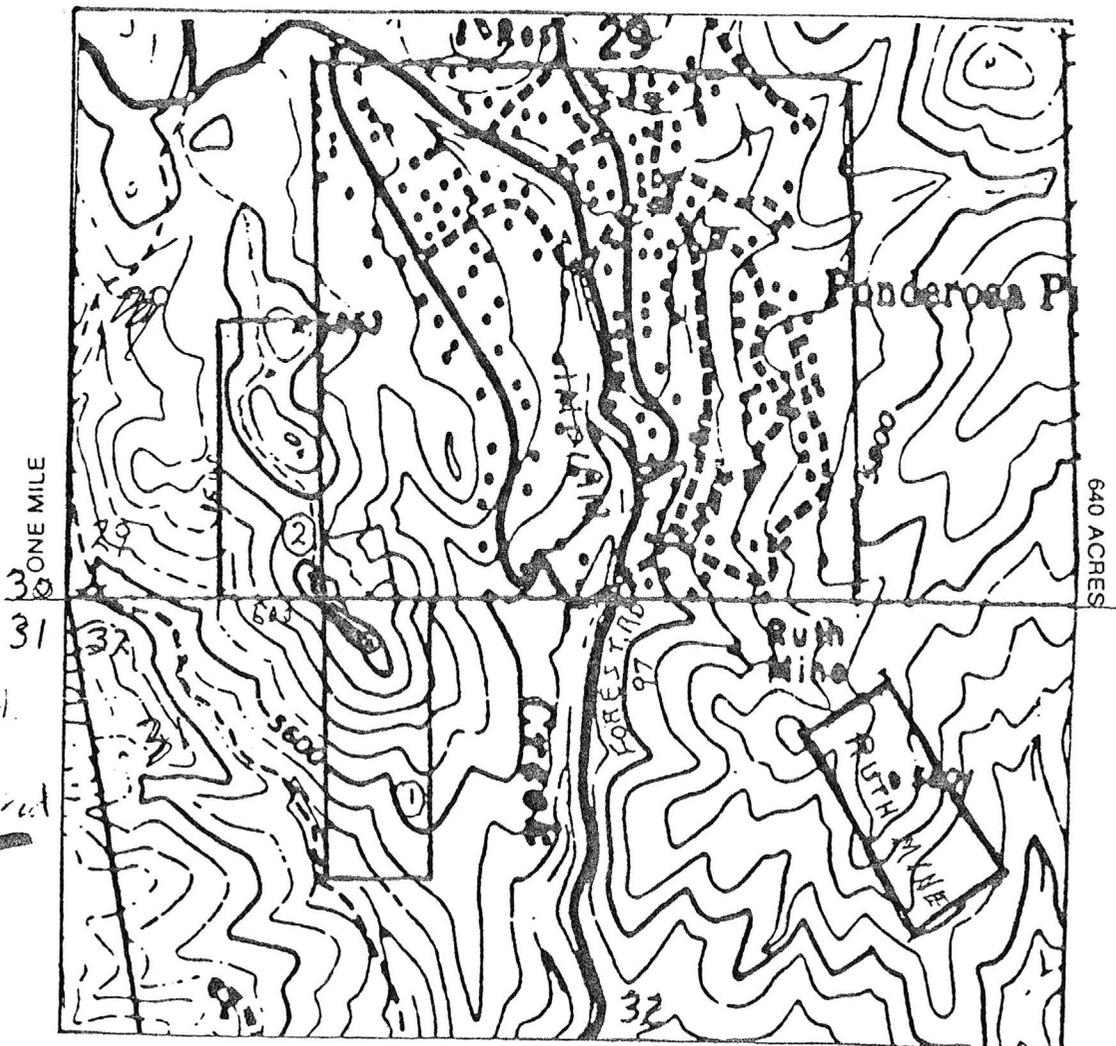
### MAP

One inch = One thousand feet

North Arrow



ONE MILE



Section 29 Range R2w Township T 13 N  
Hassayampa Mining Dist. Yavapai County and Salt River Base and Meridian.

Dated: 4/21/95

*Wilma Baker Smith*  
 Signature



INDIAN CR.

CAMP G

10/29/29

METAL  
GATE  
NEW  
FEEDER

WIRE  
GATE

INDIAN  
CREEK

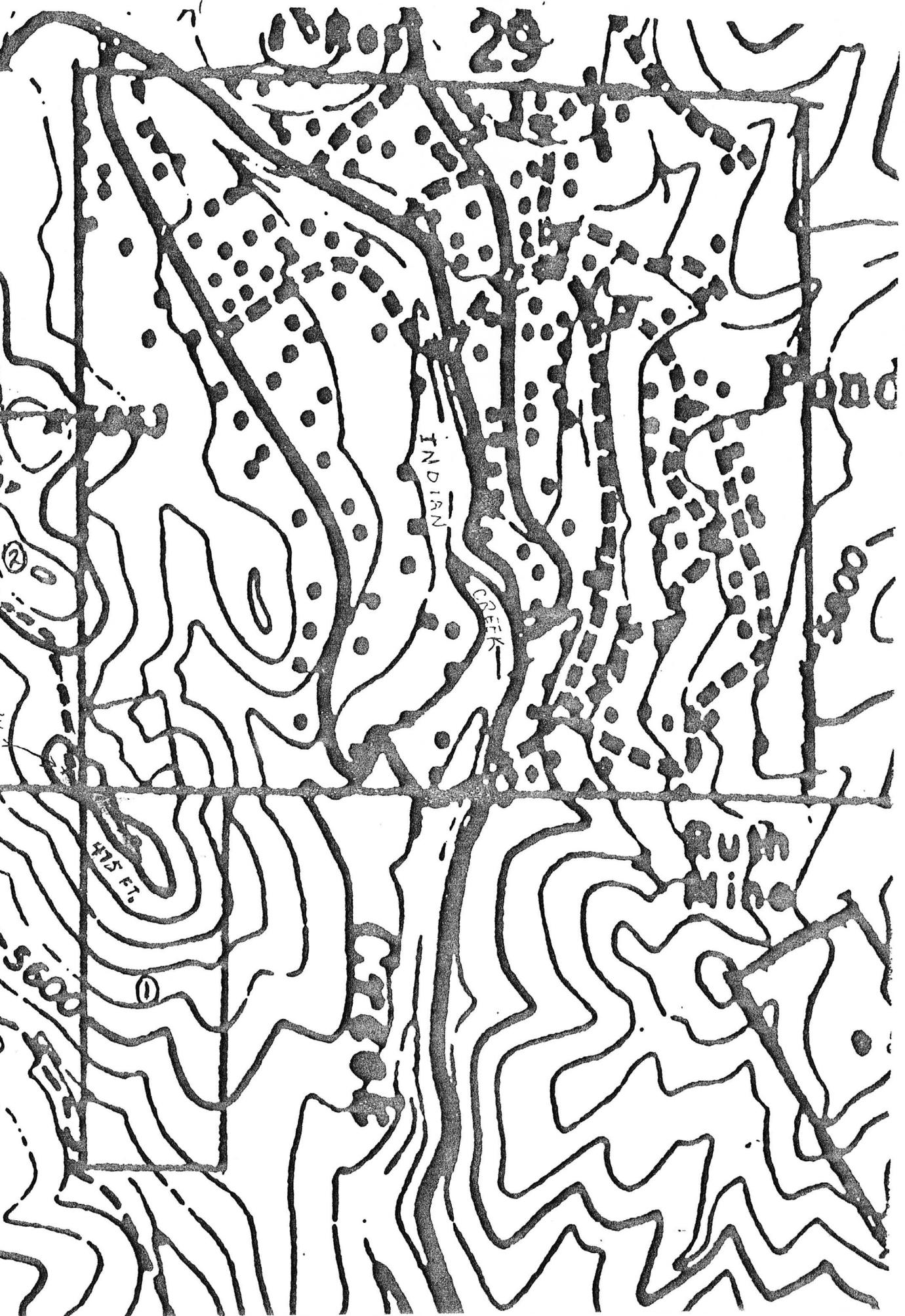
ROAD

100'

RUM  
MINE

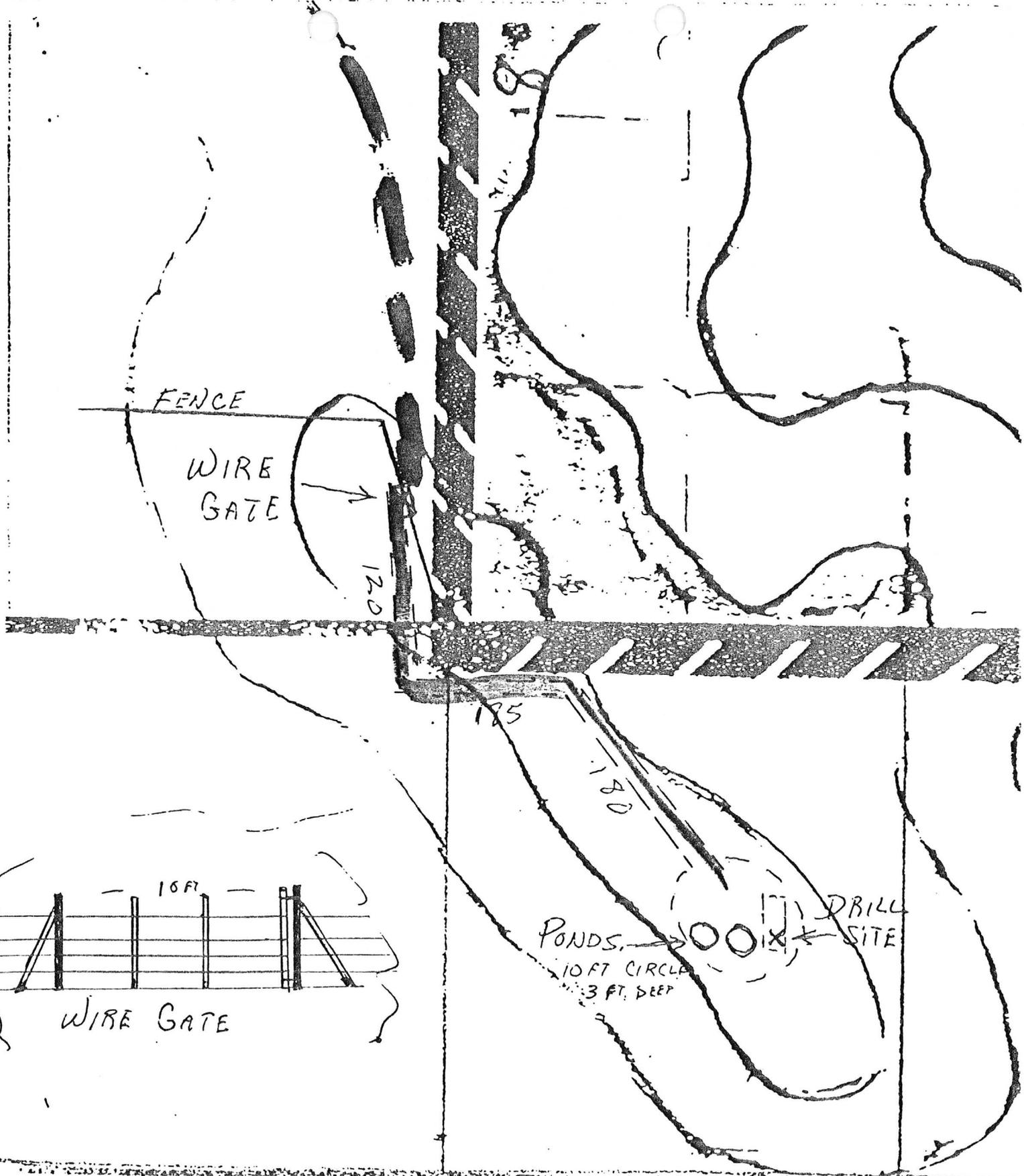
475 FT.

550'



②

①



FENCE

WIRE GATE

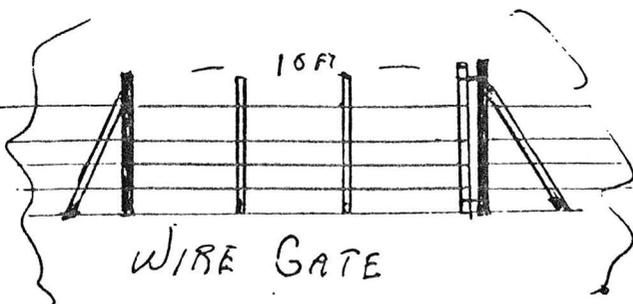
12.0

1.35

1.80

PONDS  
10 FT CIRCLE  
3 FT DEEP

DRILL SITE



WIRE GATE

APPENDIX B

Modifications to the Operating Plan,  
and  
Reclamation Bond Amount  
To be attached to and made a part of the  
OPERATING PLAN  
for the  
Laughlin Drilling Project

LAUGHLIN DRILLING PROJECT

APPENDED CONDITIONS

1. Any activity beyond that described herein will require an amendment to this plan, or a new operating plan.

2. Fuels and lubricants will not be disposed of within the National Forest. No pollutants will be discharged into Arrastra Creek or other drainages within the area.

3. All combustible engine equipment will be equipped with Forest Service approved spark arrestors.

4. Vehicle access into the project area will be restricted to the existing roads and through the 475' of new access road into the drill pad site. Ingress and egress on National Forest System roads will be controlled to reduce surface damage when soil conditions are too wet. Operations will cease when the Forest Officer in charge determines that roads are being damaged. Damage to roads caused by the operator, other than ordinary wear and tear, will be repaired by the operator.

5. Road construction and construction of the drill pad will be limited to those necessary to complete the project objectives. This activity will be consistent with the best management practice for prevention of erosion.

6. The access road into the drill pad will be outsloped with drainage structures where necessary.

7. Above ground storage tanks will be utilized for the recirculation of water used with the drilling. No holding ponds will be excavated.

8. Well drilling will be done by a state licensed and approved water well drilling company using only bentonite clay and drilling mud specific to water well drilling technique, and EPA approved for water well drilling.

9. When drilling is completed, the drill hole will be closed and protected from any potential surface contaminants by a neutral hole plug.

10. Removal of existing vegetation will be only that necessary to provide limited access to the drill pad site.

11. The duration of the operation will not exceed one week. *Too short.*

12. Reclamation will begin immediately after the drilling is completed. It will include removal of all equipment used in the operation, any debris and trash at the project site, contouring of the access road and drill pad to reproduce the natural topography, and seeding with the following prescription:

Weeping Lovegrass 2#/acre

Orchardgrass 3#/acre

*outside  
the jurisdiction  
of the  
AWR-*

Blue gramma 2#/acre

Western Wheatgrass 3#/acre

Mountain Mahogany 1#/acre

Stansbury Cliffrose 1#/acre

*unrealistic*

*expression*

13. The approval of this operation expires on December 31, 1995.

Seeded areas will be mulched, and seed certification provided to the Forest Service. Brush removed during the operation will be lopped and scattered on seeded areas along with the mulch. Seeding will be continued until vegetation is established and approved by the Forest Officer in charge.

The operator will work with the Forest Service to control livestock damage to revegetated areas. Grazing may be deferred to allow seedling establishment. However, if this is not possible, the operator will construct temporary fencing where necessary, to exclude livestock from reclaimed areas. Fencing will be removed upon successful establishment of vegetation.

*What has this got to do with the operator*

Reclamation will include complete closure of all previously closed access road segments into the project area. The beginning of the access roads will be closed in a manner that allows access on foot for hikers needing to use the closed road as a trail.

ACCEPTANCE OF APPENDED CONDITIONS

The stipulations and/or modifications listed above have been reviewed and will be incorporated into and become a part of this Operating Plan.

\_\_\_\_\_  
Signature of Operator

\_\_\_\_\_  
Date

BOND CALCULATION

Laughlin Drilling Company

EARTHWORK

8 HOURS BACKHOE WORK, WITH OPERATOR @ \$90.00/HR.	\$720.00
SEEDING AND MULCHING OF ALL DISTURBANCES @ \$300.00 PER ACRE, ONE ACRE	\$300.00
ADMINISTRATION: 1 DAY @ \$160.00/DAY	\$160.00
TOTAL:	<u>\$1180.00</u>

APPENDIX C

HYDROLOGY REPORT  
for the  
Laughlin Drilling Project

Project: Laughlin Drilling

Date: September 16, 1995

Author: Karen Hawley, Hydrologist

#### PROPOSAL

The Laughlin drilling project is proposed in T.13 N., R. 2 W., Section 32. The proposal is to extend the road to the drilling site by 475 feet and to rotary drill one six-inch hole 60 feet deep. Two 250-gallons recycling ponds will be used in the drilling process for the storage of the water.

#### HYDROLOGY OF THE AREA

This proposed drilling project is located south of Ponderosa Park on a ridge at approximately 5800 feet in elevation. The hydrology of the area consists of secondary porosity in the bedrock aquifer. There is also a small localized aquifer consisting of subsurface flow along Indian Creek. There are several wells in the area that have been drilled by the Ponderosa Park Water Company and supply the homeowners of Ponderosa Park through a transmission line. See the attached pages from the Arizona Department of Water Resources. Several of these wells were dry when they were drilled or the well was not completed as shown on these pages. This information was used to plot the attached groundwater map of the area.

The wells of Ponderosa Park Water Company appear to be located either along Indian Creek or along a small tributary to Indian Creek. The groundwater elevation of these wells are 5440 to 5688 feet. The proposed drill hole will be completed to the elevation of 5740 feet. The base of the ridge that the drill hole is proposed on is at the 5600 foot elevation. There is no surface exposure of groundwater or springs located on this ridge. The difference in elevation between the bottom of the drill hole and the water elevations of the wells is a minimum of 52 feet to a maximum of 300 feet. This difference is such that the bottom of the drill hole is 52 to 300 feet higher than the water level in the Ponderosa Park Water Company wells. There is expected to be no groundwater in the drill hole and this drill hole should have no impact on the wells in the area due to this difference in elevation.

During the drilling of the drill hole, drilling lubricant will be used. There can be a small amount of percolation of this lubricant into the bedrock. There is not expected to be any groundwater encountered during this drilling so there should be no contamination of groundwater from the use of this product.

#### RECYCLING OF THE WATER

The proposal is to use two 250-gallon ponds for recycling the water needed in the drilling of this project. The area needed for this is approximately 6 feet by 6 feet by 1 foot deep for each 250-gallon pond. This is a small area and due to the bedrock in the area, it should only percolate into the ground a small amount. There is not expected to be any groundwater encountered here so there should be no contamination of groundwater for the use of these ponds.

A tank could also be used. This would prevent any exposure of the water to the bedrock.

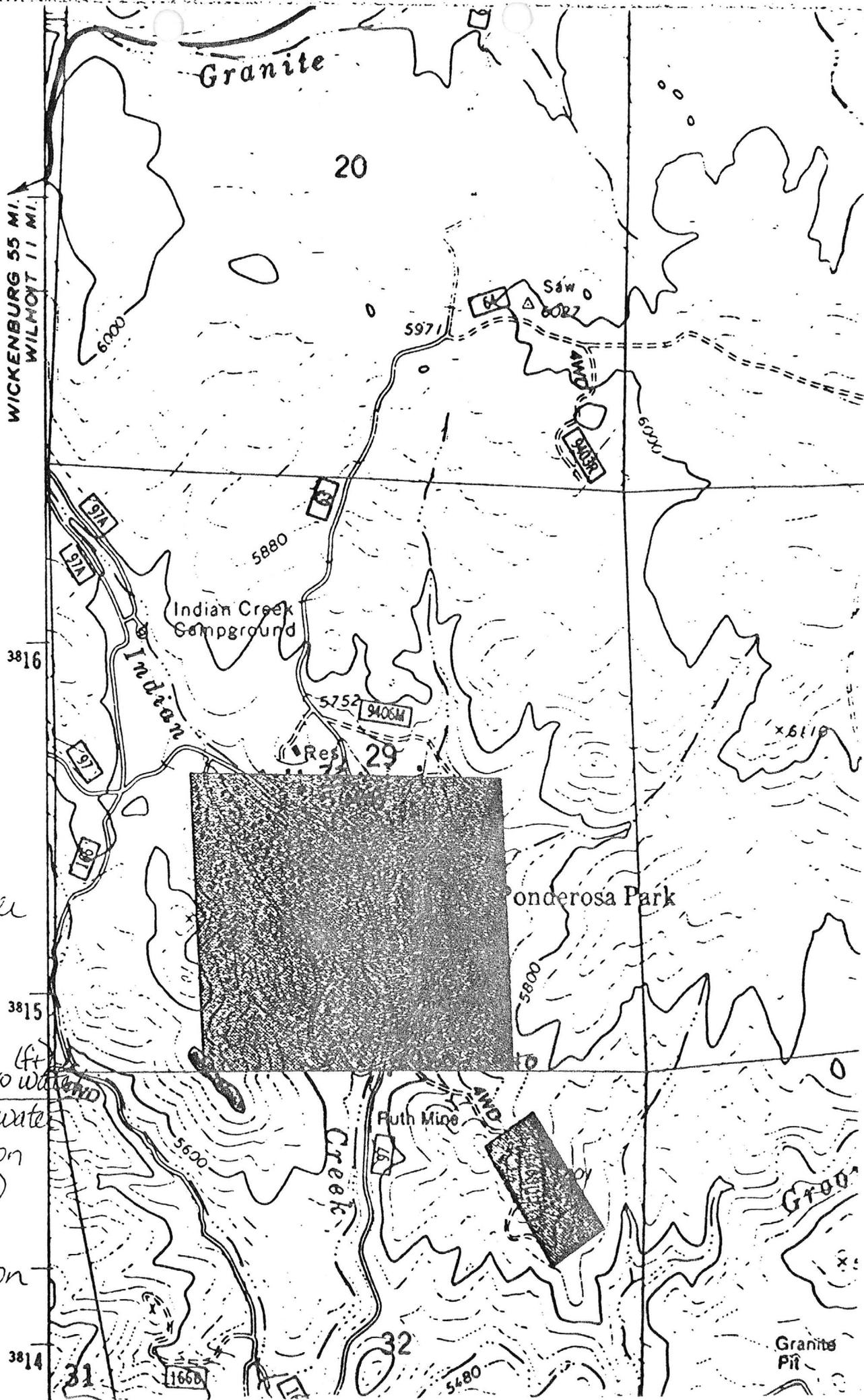
Laughlin project

T. 13 N.  
R. 2 W.

Groundwater elevation map

$\frac{z}{88} = \frac{\text{depth to water (ft)}}{\text{groundwater elevation (ft)}}$   
project location

Hawley  
1/11/95



WICKENBURG 55 MI.  
WILMORE 11 MI.

Granite

20

Saw 0  
6082

5971

5880

Indian Creek  
Campground

3816

5752

9406M

Res 29

x6110

onderosa Park

3815

Futh Mine

5600

Creek

6000

3814

31

1660

32

5480

Granite  
Pit

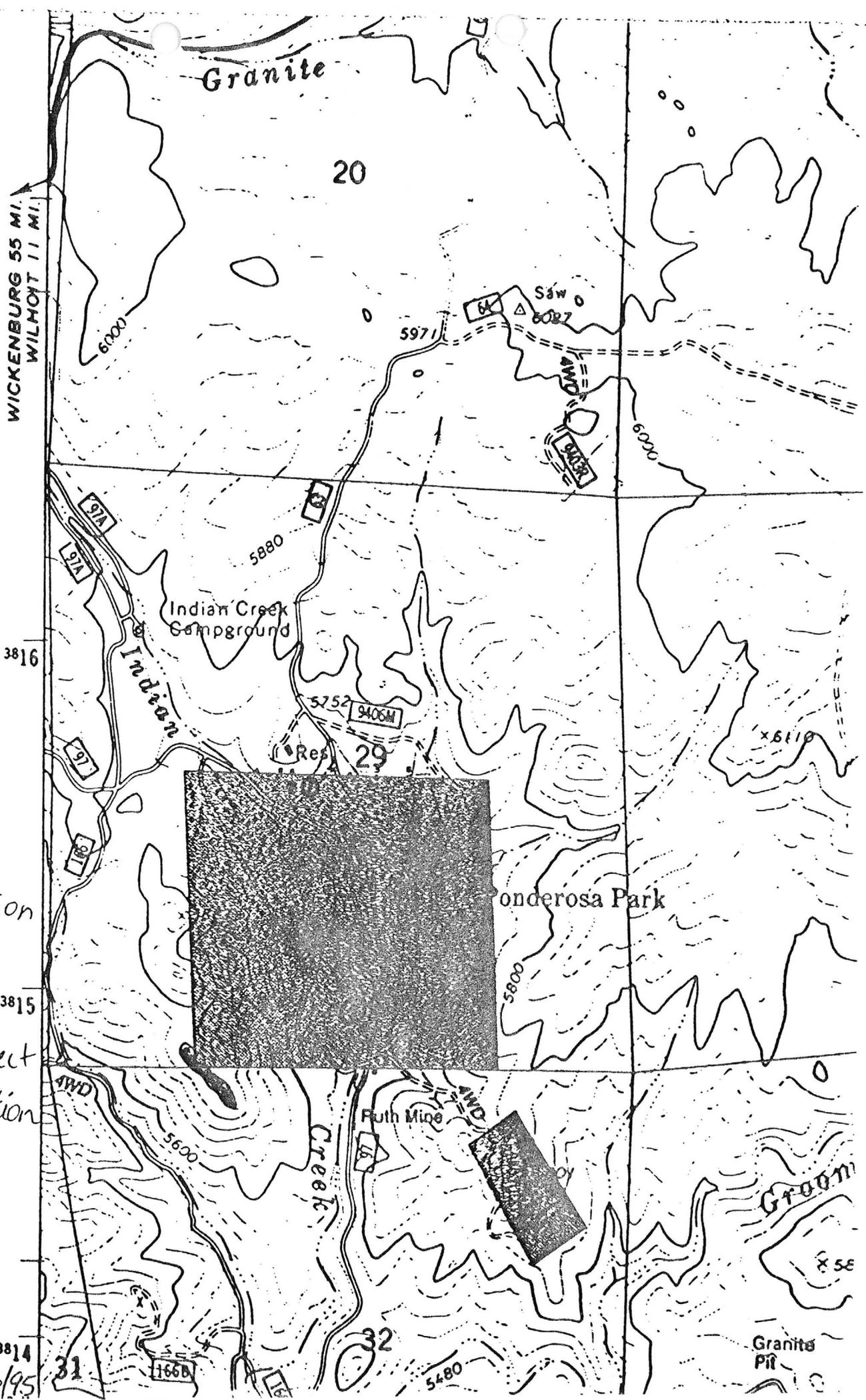
Laughlin project

T. 13 N.  
R. 2 W.

Well location map

project location

L. Hawley 9/16/95





NAME	Q	T	R	S	Q	T	REG NO	WELL DEPTH	DEPTH CASED	CD AI SA EM	WATER LEVEL	YIELD (GPM)	WELL DRILL DATE	DRL LIC NO.	WTR USE	O W N	WS AH TE RD	L C O R G T
	U A D	O W N	N G E	E C T	1	2												
DE JOSEPH, ALFRED 1710 W PINE CONE WAY PRESCOTT AZ 86303	B	13.0	2.0	29	C	A C	55-526378	0240	0240	07	0100	00005	11/21/1989	091	D		L8	X X
✓ PONDEROSA PARK WTR 1678 N PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	C	A C	55-526834	0424	0424	04	-	00000	1/03/1990	006	D		L8	X C
RODENKIRK, RICHARD 9821 N 16TH ST PHOENIX AZ 85020	B	13.0	2.0	29	C	A D	55-540010	0165	0165	07	0035	00000	9/28/1993	091	D		L8	X C
GLOSHEN 4406 N 47TH AVE PHOENIX AZ 85031	B	13.0	2.0	29	C	C	55-840280	0032	0028	09	0018	00000			A		05	N N
✓ PONDEROSA PARK WTR 1678 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	<del>C</del>	<del>A</del>	55-829794	0140	0015	08	0085	00020	0/00/1972		D	X	L8	N N
					<i>incorrect</i>													
✓ PONDEROSA PARK WTR 1678 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	<del>C</del>	<del>A</del>	55-829795	0140	0015	08	0085	00020	0/00/1972		D	X	L8	N N
					<i>incorrect</i>													
DONAHUE RT 8 PONDEROSA PARK PRESCOTT AZ 86301	B	13.0	2.0	29	C	D A	55-836627	0245		06	0010	00000			D		05	N N
✓ PONDEROSA PARK DWID PO BOX 11256 PRESCOTT AZ 86304	B	13.0	2.0	29	C	D D	55-545085					00000	<i>not completed</i>	006	E		L8	I I
BENJAMIN, KATHRYN 38 DEER TRL RT 2 PRESCOTT AZ 86301	B	13.0	2.0	29	C	D D	55-500777	0200	0200	07	0080	00002	0/00/1981	093	D	X	L8	X X
HOFF, JULIAN 4835 INDIAN RD PRESCOTT AZ 86303	B	13.0	2.0	29	D	B C	55-526221	0128	0128	07	0090	00004	10/23/1989	091	D		L8	X X
HOPF 3 INDIAN RD PRESCOTT AZ 86301	B	13.0	2.0	29	D	C B	55-845350	0022		70	0010	00003	6/00/1985		D		L8	N N

NAME	Q U A D	T O W N	R N G E	S E C T	Q T R 1 2 3	REG NO	WELL DEPTH	DEPTH CASED	CD AI SA EM	WATER LEVEL	YIELD (GPM)	WELL DRILL DATE	DRL LIC NO.	WTR USE	O W N ER	WS AH TE RD	L C O R R E C T	
SPARKS, ALVIN 1727 W MULBERRY PHOENIX AZ 85015	B	13.0	2.0	29	D C B	55-517983	0224	0224	05	0035	00005	6/11/1987	006	D		L8	X X	
✓ PONDEROSA PARK WTR 1878 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	D C C	55-829798	0140	0010	06	0030	00025	0/00/1975		D	X	L8	N N	
✓ PONDEROSA PARK WTR 1878 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	D C C	55-829797	0160	0010	06	0020	00020	0/00/1978		D	X	L8	N N	
✓ PONDEROSA PARK WTR 1878 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	D C C	55-829798	0240	0020	08	0035	00025	0/00/1970		D	X	L8	N N	
✓ PONDEROSA PARK DWID PO BOX 11258 PRESCOTT AZ 86304	B	13.0	2.0	29	D C C	55-545063					00000			E		L8	I I	
																		<i>not completed</i>
✓ PONDEROSA PARK WTR 1878 W PINE CONE WAY PRESCOTT AZ 86301	B	13.0	2.0	29	D C C	55-528790	0350	0350	04	0130	00030	12/23/1989	006	E		L8	X X	
✓ PONDEROSA PARK WATER 4804 S DEER TRAIL PRESCOTT AZ 86303	B	13.0	2.0	29	D C C	55-529876	0598	0598	05	0110	00030	11/03/1990	006	B		L8	X X	
✓ PONDEROSA PARK WATER 4804 S DEER TRAIN PRESCOTT AZ 86303	B	13.0	2.0	29	D C C	55-529859					00000			B		L8	I I	
																		<i>1994 cancelled no comp. report</i>
WACKER, MICHAEL PO BOX 2630 PRESCOTT AZ 86302	B	13.0	2.0	29	D C D	55-533811	0215	0215	07	0080	00012	11/08/1991	331	D		05	X X	
✓ PONDEROSA PARK DWID PO BOX 11258 PRESCOTT AZ 86304	B	13.0	2.0	29	D D C	55-545064					00000			E		L8	I I	
																		<i>1994 not completed</i>
PRESCOTT NATL FOREST 344 S CORTEZ ST PRESCOTT AZ 86301	B	13.0	2.0	30	A A A	55-831972					00000			J		L8	N N	

## CODE DEFINITIONS

QUAD: B = TOWNSHIP IS NORTH AND RANGE IS WEST A = TOWNSHIP IS NORTH AND RANGE IS EAST  
 C = TOWNSHIP IS SOUTH AND RANGE IS WEST D = TOWNSHIP IS SOUTH AND RANGE IS EAST

QTR 1 IS A QUARTER SECTION (160 ACRES)  
 QTR 2 IS A QUARTER OF A QUARTER SECTION (40 ACRES)  
 QTR 3 IS A QUARTER OF A QUARTER/QUARTER SECTION (10 ACRES)

QTR CODES: A = NE B = NW C = SW D = SE

REG NO = WELL REGISTRATION NUMBER  
 WELL DEPTH = THE DEPTH OF THE WELL IN FEET  
 DEPTH CASED = THE DEPTH OF THE WELL CASING IN FEET  
 CASE DIAM = THE DIAMETER OF THE CASING IN INCHES  
 WATER LEVEL = DISTANCE IN FEET FROM THE SURFACE TO WATER  
 YIELD = WATER OUTPUT IN GALLONS PER MINUTE  
 DATE DRILLED = DATE WELL WAS DRILLED O/00/1000 = NO DATE  
 DRL LIC NO. = THE DRILLERS DWR LICENSE NUMBER

WATER USE CODES:  
 A=IRRIG B=UTILITY C=VACANT D=DOMESTIC E=MUNIC F=INDUSTR G=RECREAT H=SUBDIVIS  
 I=MINE J=STOCK K=EXPLORATION L=DRAINAGE M=MONITOR N=TEST O= OTHERS(NON-PRODUCTION)

LAND OWNER: C = COUNTY F = FEDERAL M = CITY N = CORP P = PRIVATE S = STATE W = WATER DIST

WATERSHED CODES:  
 01 = VIRGIN 02 = COLORADO 03 = LITTLE COLORADO 04 = BILL WILLIAMS 05 = VERDE RIVER  
 06 = AGUA FRIA 07 = SALT RIVER 08 = LOWER GILA 09 = UPPER GILA 10 = SANTA CRUZ  
 10 = SAN SIMON 11 = SAN PEDRO 12 = WILLCOX PLAYA 13 = WHITE WATER DRAW 14 = RIO YAQUI

LOG = LOG OF WELL CRT = COMPLETION REPORT (PUMP, ETC.)

LOG AND CRT CODES:  
 R = WELL REGISTRATION (NO LOG OR COMPLETION REPORT IN FILE)  
 X = LOG OR CRT IS IN FILE  
 I = LOG OR CRT NOT IN FILE YET  
 N = LOG OR CRT NOT REQUIRED

15 South 15th Avenue  
Phoenix, Arizona 85007

### WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

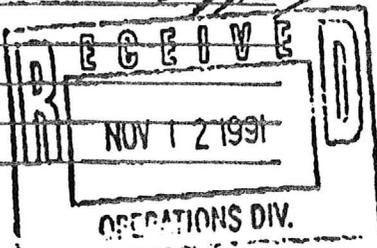
- Owner Name: Michael Wacker  
Address: P.O. Box 2630 Prescott Az 86302  
Street City State Zip
- Driller Name: G.E.T. INC.  
Address: 2830 Beck Dr.  
Street Chino Valley, AZ 86323 State Zip
- Location: 13 N 2 W 29 SE 1/4 SW 1/4 SE 1/4  
Township Range Section 10-acre 40-acre 160-acre
- Well Registration No. 55- 533611 (Required)
- Permit No. \_\_\_\_\_ (If issued)

### DESCRIPTION OF WELL

- Total depth of hole 215 ft.
- Type of casing Steel-Pvc
- Diameter and length of casing 7 in. from 11 to 19, 5 in from 15 to 215
- Method of sealing at reduction points \_\_\_\_\_
- Perforated from 135 to 215, from \_\_\_\_\_ to \_\_\_\_\_, from \_\_\_\_\_ to \_\_\_\_\_
- Size of cuts 4" x 4" Number of cuts per foot 4-6
- If screen was installed: Length \_\_\_\_\_ ft. Diam \_\_\_\_\_ in. Type \_\_\_\_\_
- Method of construction Drilled  
(drilled, dug, driven, bored, jetted, etc)
- Date started 11-4-91
- Date completed 11-6-91  
Month Day Year
- Depth to water 80' approx ft. (If flowing well, so state)
- Describe point from which depth measurements were made, and give sea-level elevation if available

18. If flowing well, state method of flow regulation: \_\_\_\_\_

19. Remarks: 50' + OPM approx



DO NOT WRITE IN THIS SPACE

55-533611  
B(13-2)29DCD  
ENTERED NOV 13 1991

Reg  
File  
Rec  
Ent

Z DEPT OF WATER RES  
DEPARTMENT OF WATER RESOURCES  
15 South 15th Avenue  
Phoenix, Arizona 85007

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Ponderosa Park Water Company  
Name  
1678 West Pine Cone Way Prescott, Arizona 86301  
Mailing Address

2. Driller Jim Williams Well Drilling License A-04 068888 DWR#6  
Name  
414 North Arizona Street Prescott, Arizona 86301  
Mailing Address

3. Location of well: T-13N R-2W S-29 SW 1/4 NE 1/4 SW 1/4

4. Permit No. 55-526834  
(If issued)

5. Total depth of hole 424 ft.

6. Type of casing steel surface 6 5/8 X .156 inch 20 feet PVC top to bottom.

7. Diameter and length of casing 4 1/2 in. from 4 to 424, --- in from --- to ---

8. Method of sealing at reduction points none

9. Perforated from 204 to 424, from --- to ---, from --- to ---.

10. Size of cuts 1/8 X 4 inches Number of cuts per foot 6

11. If screen was installed: Length --- ft. Diam --- in. Type -----

12. Method of construction drilled  
drilled, dug, driven, bored, jetted, etc

13. Date started December 28 1989  
Month Day Year

14. Date completed January 3 1990  
Month Day Year

15. Depth to water \_\_\_\_\_ ft. (If flowing well, so state)

16. Describe point from which depth measurements were made, and give sea-level elevation if available ground level

17. If flowing well, state method of flow regulation: no

18. Remarks: estimated production by  
air jetting 12 to 15 GPM

55-526834  
B(13-2)29 cac  
ENTERED JAN 1 1990

OPERATIONS DIV.  
JAN 1 1990

B 13Q 020 29 DCC WR 529659 FILE TYPE: APPLICATION WELL TYPE: EXEMPT  
DATE ISSUED: 09 28 990 PLANNED PUMP CAP: 25 GPM  
NAME: PONDEROSA PARK WATER IN CARE OF: CO  
4804 S DEER TRAIN  
PRESCOTT AZ 86303  
ACCURACY: NOT VERIFIED WATER USES: UTILITY COMPANY  
AREA: OUTSIDE  
SUB-BASIN:  
WATERSHED: 08 WELL USES: WATER PRODUCTION  
COUNTY: YAVAPAI  
OWNER: PRIVATE DRILLER: 006

WELL DPTH: CASE DIAM: CASE DPTH: METH DET:  
PUMP CAP: FINISH: ACRES IRR: YIELD:  
DRAW DOWN: WATER LVL: LIFT: POWER:  
DATE COMPLETED:  
POU #1: SW SW SE 29 130 N 020 W POU #2:  
STATUS: DATA OWN LOG I CRT I PQ NBR: IPQ STATUS: CANCELLED

ENTER - READ NEXT RECORD CLEAR TO RETURN TO SELECTION CRITERIA

*well CANCELLED*



STATE OF ARIZONA  
DEPARTMENT OF WATER RESOURCES  
15 South 15th Avenue  
Phoenix, Arizona 85007

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Ponderosa Park Water Company  
Name  
4804 South Deer Trail Prescott, Arizona 86303  
Mailing Address
2. Driller Jim Williams Well Drilling License A-04 068888-000 DWR#6  
Name  
414 North Arizona Street Prescott, Arizona 86301  
Mailing Address
3. Location of well: T-13N R-2W S-29 SW SW SE
4. Permit No. 55-529876  
(If issued)

DESCRIPTION OF WELL

5. Total depth of hole 598 ft.
6. Type of casing Steel surface 7 X 1.88 inch 20 feet, PVC top to bottom
7. Diameter and length of casing 4 1/2" <sup>214</sup> from 3 to 598, ---- in from ---- to ----.
8. Method of sealing at reduction points none
9. Perforated from 128 to 598, from ---- to ----, from ---- to ----.
10. Size of cuts 1/8 X 4 inches Number of cuts per foot 6
11. If screen was installed: Length ---- ft. Diam ---- in. Type -----
12. Method of construction drilled  
drilled, dug, driven, bored, jetted, etc
13. Date started October 24 1990  
Month Day Year
14. Date completed November 3 1990  
Month Day Year
15. Depth to water 110 ft. (If flowing well, so state)
16. Describe point from which depth measurements were made, and give sea-level elevation if available ground level
17. If flowing well, state method of flow regulation: no
18. Remarks: estimated production by air jetting 30 gpm

DO NOT WRITE IN THESE SPACES	
REG. No.	55-529876
File No.	B(13-2)29 DCC
Entered	By <b>ENTERED DEC 20 1990</b>

United States  
Department of  
Agriculture

Forest  
Service

Bradshaw  
Ranger District

2230 East Highway 69  
Prescott, AZ 86301  
(520) 445-7253

*Sioux Silver Lead Mine (HMC)  
Yavapai County Arizona*

Reply To: 2810

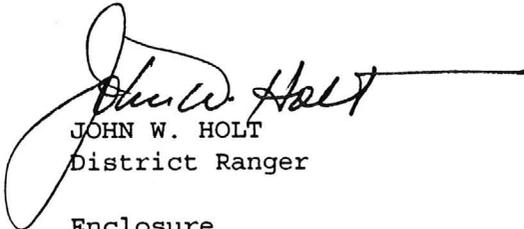
Date: August 23, 1995

Dear Interested Party:

This is to advise you of a correction to a previous notification concerning the Laughlin Drilling Proposal southwest of the residential community of Ponderosa Park. The previous letter stated that the proposed project area is in the NW quarter of section 29, T13N, R2W. The correct location for the proposed drill hole is in the SW quarter of section 29 and the NW quarter of section 32, T13N, R2W. A map showing the location of the proposed project area is enclosed.

Please address any questions you have concerning this matter to Beverly Morgan at 520-445-7253.

Sincerely,

  
JOHN W. HOLT  
District Ranger

Enclosure

Caring for the Land and Serving People

WICKENBURG 55 MI.  
WILHOIT 11 MI.

Granite

20

Saw

6027

5971

AWD  
AWD

6000

5880

Indian Creek  
Campground

3816

Indian

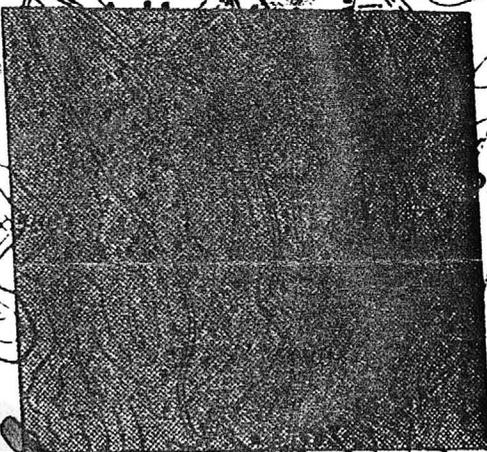
5752

9406M

Res

29

x 6410



Ponderosa Park

3815

5800

AWD

Ruth Mine

AWD

5600

Creek

AWD

Groom

3814

31

166B

32

5480

Granite  
Pit

x 58

REPORTS:

SIOUX GOLD SILVER LEAD MINING COMPANY  
HASSAYAMPA MINING DISTRICT, YAVAPAI COUNTY,  
OWNERS: SPARKES AND BONES  
P. O. BOX 346,  
PRESCOTT, ARIZONA.

1. STATEMENT OF SPARKES AND BONES
2. REPORT BY T. J. SPARKES
3. REPORT BY HOMER R. WOOD

PRESCOTT, ARIZONA, OCTOBER 28, 1940.

TO THE  
ARIZONA MINERAL RESOURCE BOARD,  
ATTENTION: MESSRS. HOLT AND COUPAL,  
PHOENIX, ARIZONA.

GENTLEMEN:

SUPPLEMENTING THE REPORTS WHICH ARE ATTACHED HERETO BY MR. T. J. SPARKES,  
NOW DECEASED, AND MR. HOMER R. WOOD, WE WISH TO STATE:

CONSIDERABLE WORK HAS BEEN DONE SINCE THE WRITING OF THESE REPORTS.  
DURING THE WINTER OF 1939 WE CUT SUFFICIENT TIMBER ON THE GROUND, PERMITTED  
THE SAME TO SEASON, TO RETIMBER THE COLLAR OF THE SHAFT AND DOWN TO THE 55'  
WHERE WE PICKED UP THE OLD WORKINGS, TIMBERING FOUND IN GOOD SHAPE.

OUR HOIST IS INSTALLED AND WE ARE STARTING TO UNDERWATER THIS WEEK.

WHERE MENTION IS MADE OF THE PROPERTY BEING INCORPORATED, WE HAD PROCEEDED  
WITH PLANS FOR INCORPORATION AND THEN CHANGED OUR MINDS. HOWEVER, SINCE THAT  
TIME WE HAVE INCORPORATED UNDER THE LAWS OF DELAWARE AND THE PROPERTY IS KNOWN  
AS THE SIOUX GOLD SILVER LEAD MINING COMPANY.

THERE ARE NO DEBTS AGAINST THE PROPERTY.

CLAIMS ARE ALL OF RECORD IN THE OFFICE OF THE YAVAPAI COUNTY RECORDER,  
COURTHOUSE, PRESCOTT, ARIZONA.

WHILE CLAIMS HAVE NOT BEEN PATENTED, THERE IS MORE THAN SUFFICIENT WORK  
AND SHOWING DONE, TO WARRANT PATENTING WHEN DESIRED.

IF THERE IS ANY FURTHER OR MORE SPECIFIC INFORMATION THAT WE CAN GIVE YOU  
DO NOT HESITATE TO COMMAND US.

WE FEEL OF COURSE YOU HAVE CONSIDERABLE INFORMATION ON THE PROPERTY, INASMUCH  
AS YOU BOTH WERE ABLE TO SEE THE SAME FIRST HAND.

SINCERELY,

SPARKES AND BONES

By

  
Grace M. Sparkes

P. S. RE: INCORPORATION WE CHANGED OUR MINDS BECAUSE WE WISHED TO USE THE  
MONEY REQUIRED THEREFOR FOR FURTHER DEVELOPMENT WORK.

GMS

## REPORT

of the

### SI O U X     S I L V E R     L E A D     M I N E

situated in the Hassayampa Mining District, Yavapai County, State of Arizona by T. J. Sparkes, of Prescott, Arizona.

--0--

The group of lode claims owned by the Sioux Silver Lead Company consists of seven full claims, making a total of 140 acres and giving an aggregate length along the lode of 3600 feet.

#### LOCATION AND ACCESSIBILITY:

The property is situated in the Hassayampa Mining District, Yavapai County, State of Arizona. The nearest railroad station is  $8\frac{1}{2}$  miles from which the property is reached by a good auto and truck road. The nearest town is Prescott, Arizona,  $8\frac{1}{2}$  miles distant; the nearest smelter is Humboldt, 28 miles.

#### TITLE AND PRESENT OWNERSHIP:

Title to the property is in the name of the Sioux Silver Lead Company, which is incorporated for 1,000,000 shares, par value \$1.00 per share, one-half of the capital stock is in the treasury of the company. There are no debts of any kind against the property and the title is clear in every respect.

#### HISTORY OF DISTRICT:

The district was discovered in the early 'SEVENTIES, at which time and for a period of several years following, a large tonnage of ore was mined and shipped; of late, there has been no mining, other than "coyotting" by leasers.

During its early period, it was impossible to mine low grade ores at a profit, with methods then in use.

#### TOPOGRAPHY AND GEOLOGY:

The district is situated in the northeast part of what is known as the BRADSHAW Range of Mountains, the same being a rugged, mountainous country, well

timbered and watered, averaging approximately 6,000' altitude. The main country rock is granite, cut by intrusive dikes of porphyry, diorite, diabase and belts of schist.

The main lode on the Sioux property is a "fissure vein," having a trend of east and west, and dips to the south at 80 deg. The width varies from 6' to 10'; the outcrop is oxidized and the vein down to the present lowest workings, (110') shows intensive leaching of minerals. Both hanging and foot walls are regular and well defined.

At a point 15' from where the vein was reached in the new tunnel (110') a strong blind dioritic porphyry dike was cut through, which will undoubtedly prove to be the foot wall of the vein at greater depth.

The matrix of filling of the fissure is quartz. Through the tremendous pressure at the time of the intrusion, the quartz was crushed and heavy gangue with talc was formed along the walls and throughout the vein. The rock contains lime, iron pyrites, manganese, calcite and feldspar - the values are mainly in silver with lead and gold.

The ore occurs in shoots; the two shoots now partially developed show from 150' to 200' in length; surface out-crops along the vein indicate other possible ore bodies.

Workings at the present depth show positive evidence of the leached condition of the rock, and that a re-deposition of minerals has occurred cannot be questioned.

It is very possible that 75' to 100' further depth would reach well into the sulphide zone.

#### DEVELOPMENT:

Old workings consisting of a cross cut, drifts and shaft were, with the exception of the shaft, all performed in the oxide zone, at shallow depth, evidently in search of rich ores.

The shaft was sunk 150' (so informed); the old dump shows evidence of about that depth, and from the character and value of the dump rock, they were evidently entering the sulphide zone.

New work consists of a cross-cut tunnel 125' to the vein and a drift of 55' east along the vein. This level is 110' from vein apex and face of drift is 70' west from the old shaft.

The new cross cut disclosed a new ore body, with an average width of 6' between walls, showing intense leaching, small quantities of sulphides along the floor and a little water. (see sketch map)

The change from the back to the floor of the drift is strongly marked, showing every evidence in the nearing of the sulphides.

				<u>ASSAYS</u>			
				<u>Gold</u>	<u>Silver</u>	<u>Lead</u>	<u>Total P.T.</u>
Shoot No. 1	-	Face of drift	110' level	\$1.65	\$1.38	T	\$3.86
"	"	"	- 75 T Dump from old shaft	2.06	2.34	5.7	14.66
"	"	"	- Sulphide ore	8.26	10.14	6.39	25.69
"	"	"	- Sulphide ore	4.54	9.72	7.20	21.46
Shoot No. 2	-	S. No. 1,	40' drift floor	3.30	1.72	T	5.02
"	"	"	" " 2 " " "	1.85	2.07	T	3.92
"	"	"	" " 3 " " "	1.86	1.38	T	3.24
"	"	"	" " 4 " " "	1.65	1.78	T	3.43
"	"	"	" " 5 " " "	2.06	1.72	T	3.78
TALC				2.89	4.60	1 1/2	9.30

CONCLUSION:

The property is one of good merit, having the right features for the making of a mine. These characteristics are namely: character of ore, size of two partially proven ore bodies, which give promise of good tonnage, even distribution of mineral values; vein at the dip of the lode, with such firm walls can be mined at good advantages at low cost, and a high extraction of minerals made by the modern methods now in practical use, no experimenting; other out-crops along the

vein with possibilities.

In the parlance of "the old timer miner" the lode in question is right end down, and these are the ones that eventually prove to be the lasting and profitable mines.

A new shaft should be sunk to the 200' level, at a point to cut the face of the 125' cross cut, this would enter about the center of Shoot No. 2; drifts should be extended both ways at the 200' level to determine the extent of the ore bodies.

The cost of the development should not, equipment included, exceed \$20,000.

The estate of the Company has great value other than its mineral possibilities, and will in the near future enhance to greater value. Situated in rugged mountains, well timbered and watered, close proximity to the State Highway, within easy reach of all Northern scenic points, and an all-year round climate are assets which cannot be under-estimated.

(signed) T. J. Sparkes

Prescott, Arizona

Dated: February 10, 1926.

COPY

PRESCOTT, ARIZONA, JULY 30, 1926

MISS GRACE M. SPARKES

PRESCOTT, ARIZONA.

DEAR MISS SPARKES:

REFERRING TO OUR CONVERSATION RELATIVE TO THE CLAIMS HELD BY YOU IN THE HASSAYAMPA DISTRICT, COMMONLY KNOWN AS THE "JASPER PHILLIPS" CLAIMS, I WISH TO ADVISE THAT IN THE WINTER OF 1906 AND THE SPRING OF 1907 I WAS IN CHARGE OF WORK AT THIS PROPERTY FOR GEORGE U. YOUNG.

THE SHAFT WAS SUNK 165' AND A TUNNEL DRIVEN FROM THE SHAFT AT FORTY FEET. ALSO DRIFTING DONE AT 150 FEET. THE VEIN AVERAGES ABOUT SIX FOOT OF LOW GRADE ORE. WE STRUCK TWO RICH LITTLE POCKETS, RUNNING ABOUT 800 OUNCES IN SILVER AND 50% LEAD, AT EIGHT AND 120 FEET. AT THE TUNNEL AT THE FORTY FOOT SHAFT, WE ENCOUNTERED RICH POCKETS ALSO.

THE SHAFT WAS TIMBERED ALL THE WAY DOWN WITH HEWED TIMBERS ON THE GROUND, AND THE DRIFTS WERE ALSO TIMBERED. THE DRIFTS WERE IN ABOUT 100 FEET AND THE LEDGE STILL CONTINUED, AND ALSO IN THE BOTTOM OF THE SHAFT THE LEDGE CONTINUED, WITH TWO GOOD WALLS, EVERY ONCE IN A WHILE WE ENCOUNTERED RICH BURROWS OF ORE, VERY RICH IN SILVER AND LEAD.

WITH PROPER DEPTH, I BELIEVE AFTER THIRTY YEARS OF MINING EXPERIENCE IN YAVAPAI COUNTY, THERE IS EVERY INDICATION IN MY OPINION TO MAKE A GOOD MINE.

YOURS TRULY

(SIGNED) MATTHEW HALL  
(MATT HALL)

###

SIOUX GOLD SILVER LEAD MINING COMPANY

--0--

PROPERTY: The property consists of eight (8) full lode mining claims, aggregating 160 acres of mineral ground, owned by the Sioux Gold Silver Lead Mining Company, postoffice, Prescott, Arizona.

These claims White Spar No. 1, White Spar No. 2, White Spar No. 3, White Spar No. 4, White Spar No. 5, White Spar No. 6, White Spar Spar No. 7, and White Spar No. 8 are of record in the office of the Yavapai County Recorder, Prescott, Arizona.

LOCATION AND ACCESSIBILITY: The property is located eight (8) miles south of Prescott, the county seat of Yavapai county, Arizona, in the Hassayampa Mining district, at an altitude of 5,600 feet. The area is rugged and timbered and while in a National Forest timber for mining purposes may be cut and used. It is reached over the excellent U. S. Highway No. 89 for a distance of five miles from Prescott and thence three and one half miles on the Groom Creek Forestry cut-off highway, with easy grades all the distance, over which all necessary transportation may be cheaply and quickly handled.

Ample water is found on the property, the Hassayampa River running through Claims Nos. 1, 3, and 4.

A shallow well upon the property provides most desirable and palatable water needed for development and domestic purposes; and water from this well, the River and that developed from the mine may be pumped to any portion of the property as required.

Lumber and mine timbers, together with all necessary mining accessories are available at prices comparing favorably with those current at any of the active properties in Yavapai county.

HISTORY: Raymond, in 1871, stated that the district was first visited and organized by prospectors in the Spring of 1864, originally to work the placers

only, but subsequently a large number of quartz veins were discovered and located. During the early days, these veins were important producers of gold and silver from the rich, though shallow, oxidized zones. Since 1895, the sulphide zones have yielded considerable gold, silver, copper, lead and zinc.

During the early period of the Hassayampa district, it was impossible to mine low grade ores at a profit, with methods then in use.

During the past few years, several of the old mines with gold-bearing shoots have been re-opened and are now working due to improvements in metallurgy.

According to the University of Arizona, Bureau of Mines Report, these deposits occur mainly in a belt of schist that extends northeastward between the granite areas of Granite Creek and Mount Union, although some are in the granite. The schist has been intruded by diorite, and the granite and schist by dikes of rhyolite-porphry. According to Lindgren's classification some of the veins are believed to be of pre-Cambrian age, while others are associated with rhyolite-porphry dikes and appear to be of Mesozoic or Tertiary age.

GEOLOGY: The formation of the Sioux group is similar to that of the famous Congress, Tom Reed, Gold Road and United Eastern famous gold mines and gneiss of ore deposits similar, also the famous Hillside mine, starting as a true fissure in a typical mica schist is now wholly in granite on the 7th level, with a much wider ore body and of similar ton values. From erosions adjacent to the Hassayampa River there have been recovered as placers gold from the Hassayampa as per records compiled in the University of Arizona Bulletin Vol. VII No. 2, \$250,000 while Vol. V No. 6 states from 1904 to 1931 inclusive, the U. S. Mineral Resources records a total production of \$1,104,491 of which \$469,940 was in gold from the Hassayampa district.

VEIN AND VEIN STRUCTURES: The veins of the Sioux group are fault fissures of great extent longitudinally and of undoubtedly great depth. The vein fil-

ling consists of crushed and brecciated wall rocks connected with quartz with which are associated calcite and the oxides of iron and manganese.

Gold occurs in both quartz and the oxides of iron and manganese and at lower depth in the sulphides.

This condition is that common to all productive veins thus far found in the district, and its occurrence in any vein undergoing development in this locality is strongly in its favor. So far as this evidence goes the veins of the Sioux group are well supplied.

The ground stands well and only light timbering necessary.

At a point fifteen (15') feet from where the vein was reached in the new tunnel (110') a strong blind dioritic porphyry dike was cut through, which will undoubtedly prove to be the foot wall of the vein at greater depth.

The matrix of filling of the fissure is quartz. Through the tremendous pressure at the time of the intrusion, the quartz was crushed and heavy gangue with talc was formed along the walls and throughout the vein. The rock contains lime, iron pyrites, manganese, calcite and feldspar, the values are mainly gold and silver with possibilities for lead.

PRESENT WORKINGS AND VALUES: The development at this time consists of the following work on Claim No. 2, and all work is shown clearly on the accompanying map and assay plan:

A cross cut was driven 125 feet and a 160 foot drift run on the vein. The old shaft was tapped on the 88' level at 245' and drifting was continued 40' where every indication points to higher values being obtained with possible shipping ore, the drift gaining depth under the hill, and thus reaching lower points in the sulphide zone. The old shaft, now open from the top to the 88' will require timbering 50 feet from the collar; the 38' down to the 88' is in excellent condition. The balance from the 88' to the bottom of the old shaft is under water. This was sunk, according to old reports by George U. Young, former territorial secretary of Arizona, in 1906-1907, to a depth of 150 feet. The

shaft can easily be re-timbered and opened to the depth obtained by the early mining operations and sunk the additional 150 feet which should then be well into the sulphide zones.

Caved conditions shown on the map at the 44' level were cleared to obtain air circulation.

Result of driving the tunnel 40' to the south of the shaft, is an estimated 200 tons of \$10 mill ore on the dumps.

On the 70' - 75' and 80' in the drift, underhand stoping to a depth of 10' resulted in shipping to the Prescott Ore Market, October 24, 1936, 7,940 lbs of ore, arsenic tetrahedrite, running 0.20 ozs in gold and 42.20 ozs in silver. This work was done by hand and owners could not continue to handle surface water. When discontinued \$9 rock was in the bottom.

The property is equipped with a small hoisting plant ready for installation.

PLAN OF DEVELOPMENT: The management has a six by eight foot working incline shaft, which it is wanting to sink as far as warranted, by indications disclosed, with levels at each 100 feet.

CONCLUSION: After reading the foregoing one cannot but realize that the Sioux Gold Silver Lead Mining Company, held as a partnership by Sparkes and Bones, has an excellent property, free from debt and with no stock issued, which has all the earmarks of developing into one of the dividend payers of the Hassayampa Mining District.

(signed)

\_\_\_\_\_  
Homer R. Wood  
Registered Professional Engineer

Dated at Prescott, Arizona

October 21, 1937.

####

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

*Not enough  
data*

Mine Sioux Silver Lead Mine

Date December 9, 1940.

District Hassayampa, Yavapai County.

Engineer Elgin B. Holt.

Subject:

BRIEF STATEMENT

OWNER: Sioux Gold Silver Lead Mining Co., owned and controlled by Sparkes and Bones, P. O. Box 546, Prescott, Arizona.

NOTES: On October 24, 1940, in company with J. S. Cougal and P. L. Bones, I made a rather hurried inspection of this property. I took no samples for assay; hence my investigations, herein outlined, concern mainly a physical description of the mine, etc.

All assays quoted in this statement were furnished me by owners. Therefore, while I cannot vouch for the accuracy of these assays, I believe the same to be correct and reasonable in every way.

Attached hereto is a report concerning property, furnished me by owners, consisting of: 1. Statement of Sparkes and Bones; 2. Report by T. J. Sparkes; 3. Report by Hauer R. Wood, registered professional engineer.

I have gone over these reports carefully, and I am confident the statements therein are accurate.

GEOLOGY: The country rock is granite, intruded by igneous dikes and ore-bearing veins of importance carrying gold, silver and lead in commercial quantities.

MAIN VEIN: The main vein on the Sioux property is a fissure vein, striking East and West and dipping to the South at an angle of 30 degrees from the horizontal. This vein, which is from 6 to 10 feet wide, is traceable for a long distance and has every appearance of being deep-seated.

The vein filling is quartz. Due to tremendous shearing action, the quartz was crushed and mixed with country rock forming brecciated material carrying lime, iron oxides and pyrites, manganese, calcite and feldspar; metal values being gold, silver and lead. Tale salvage matter is found along the walls of the vein.

DEVELOPMENT WORK consists of the following: An inclined shaft on vein to a depth of 165 feet. At 125 foot depth in shaft, a drift was run in a westerly direction on vein for 100 feet; and at the same level another drift was run on vein easterly for 100 feet. These drifts were under water at the time of my visit; but owners are now taking steps to unwater the mine to the bottom of the shaft.

During the last several years, P. L. Bones has completed a tunnel 365 feet in length and which cuts the shaft at 83 feet depth. The first part of this tunnel is a cross-cut to vein and the second part consists of a drift on vein in ore.

**ASSAYED - GORE SAMPLES:** For Mr. Bence, from 15 samples taken from the drift just mentioned, across an average vein width of 47.8 inches and for 75 feet along vein, an average result of \$6.87 in gold and silver was obtained.

Also it will be noted from the report of Homer H. Wood, in the drift mentioned, "underhand stoping to a depth of 10 feet resulted in shipping to the Prescott Ore Market, October 24, 1936, 7,849 pounds of ore, arsenic tetrahedrite, running 0.80 ounces gold and 48.8 ounces in silver."

All work so far carried out on the vein mentioned, show it to be oxidized and partly robbed of values by leaching. Hence, it is believed that deeper work in this property will result in the uncovering of important enriched sulphide ore shoots, from which considerable money should be made.

**ROAD CONDITIONS:** Property is reached over U. S. Highway 89 for a distance of five miles from Prescott; thence three and one half miles on the Green Creek Forestry Cut-off Highway to the mine, over easy grades.

**WATER:** Ample water for milling and camp use can be secured from the Haseyogayn River, running through claims Nos. 1, 3 and 4.

**CONCLUSION:** From facts herein set forth, I am of the firm opinion that this property warrants a careful investigation by anyone willing to spend some money to be used in sinking the shaft to deeper levels in search of important sulphide ore shoots above mentioned. Money should also be provided with which to block out any ore bodies that may be discovered, as well as with which to install at property a milling plant of proper design.

It is believed if all this can be done, a profitable operation should result.

cc - Charles H. Spaulding

Wigin B. Holt,  
Field Engineer.

November 13, 1940

P. O. Box 288,  
Kingman, Ariz.

Grace M. Sparks, Secretary,  
Yavapai County Council, ASMOA,  
Prescott, Arizona.

Dear Miss Sparks:

Attention is called to your letter of Nov. 1st, in which you enclosed reports on the Sioux Gold, Silver, Lead Mining Company property.

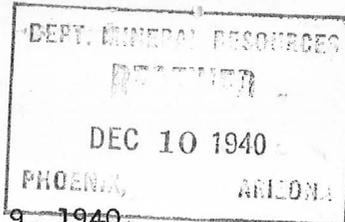
I am now in Salome; but expect to reach Prescott about next Monday, at which time I will be glad to go over these reports with you with a view to trying to find a way to help you finance your properties, or property.

Anyhow, I will keep these reports in my active files and, should I run into anyone looking for such a property, I will be glad to assist in every way possible.

Very sincerely yours,

Elgin B. Holt,  
Field Engineer.

48-65 ✓  
DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT



Mine Sioux Silver Lead Mine

Date December 9, 1940.

District Hassayampa, Yavapai County.

Engineer Elgin B. Holt.

Subject:

B R I E F   S T A T E M E N T

OWNER: Sioux Gold Silver Lead Mining Co., owned and controlled by Sparkes and Bones, P. O. Box 346, Prescott, Arizona.

NOTE: On October 24, 1940, in company with J. S. Coupal and P. L. Bones, I made a rather hurried inspection of this property. I took no samples for assay; hence my investigations, herein outlined, concern mainly a physical description of the mine, etc.

All assays quoted in this statement were furnished me by owners. Therefore, while I cannot vouch for the accuracy of these assays, I believe the same to be correct and reasonable in every way.

Attached hereto is a report concerning property, furnished me by owners, consisting of: 1. Statement of Sparkes and Bones; 2. Report by T. J. Sparkes; 3. Report by Homer R. Wood, registered professional engineer.

I have gone over these reports carefully, and I am confident the statements therein are accurate.

GEOLOGY: The country rock is granite, intruded by igneous dikes and ore-bearing veins of importance carrying gold, silver and lead in commercial quantities.

MAIN VEIN: The main vein on the Sioux property is a fissure vein, striking East and West and dipping to the South at an angle of 80 degrees from the horizontal. This vein, which is from 6 to 10 feet wide, is traceable for a long distance and has every appearance of being deep-seated.

The vein filling is quartz. Due to tremendous shearing action, the quartz was crushed and mixed with country rock forming brecciated material carrying lime, iron oxides and pyrites, manganese, calcite and feldspar; metal values being gold, silver and lead. Talc selvage matter is found along the walls of the vein.

DEVELOPMENT WORK consists of the following: An inclined shaft on vein to a depth of 165 feet. At 125 feet depth in shaft, a drift was run in a westerly direction on vein for 100 feet; and at the same level another drift was run on vein easterly for 100 feet. These drifts were under water at the time of my visit; but owners are now taking steps to unwater the mine to the bottom of the shaft.

During the last several years, P. L. Bones has completed a tunnel 265 feet in length and which cuts the shaft at 88 feet depth. The first part of this tunnel is a cross-cut to vein and the second part consists of a drift on vein in ore.

ASSAYS - ORE SHIPMENT: Per Mr. Bones, from 15 samples taken from the drift just mentioned, across an average vein width of 47.8 inches and for 75 feet along vein, an average result of \$6.27 in gold and silver was obtained.

Also it will be noted from the report of Homer R. Wood, in the drift mentioned, "underhand stoping to a depth of 10 feet resulted in shipping to the Prescott Ore Market, October 24, 1936, 7,940 pounds of ore, arsenic tetrahedrite, running 0.20 ounces gold and 42.2 ounces in silver."

All work so far carried out on the vein mentioned, show it to be oxidized and partly robbed of values by leaching. Hence, it is believed that deeper work in this property will result in the uncovering of important enriched sulphide ore shoots, from which considerable money should be made.

ROAD CONDITIONS: Property is reached over U. S. Highway 89 for a distance of five miles from Prescott; thence three and one half miles on the Groom Creek Forestry Cut-off Highway to the mine, over easy grades.

WATER: Ample water for milling and camp use can be secured from the Hassayampa River, running through claims Nos. 1, 3 and 4.

CONCLUSION: From facts herein set forth, I am of the firm opinion that this property warrants a careful investigation by anyone willing to spend some money to be used in sinking the shaft to deeper levels in search of important sulphide ore shoots above mentioned. Money should also be provided with which to block out any ore bodies that may be discovered, as well as with which to install at property a milling plant of proper design.

It is believed if all this can be done, a profitable operation should result.



Elgin B. Holt,  
Field Engineer.

cc - Grace M. Sparkes