DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 3326

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Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Cys to USBM & USGS

Routing Slip

To:	500	Date	4/26/54
To:	Gen Com	Date	12-10-54
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CONTROLLED DOCUMENT

File Copy
Surname
J. A.
Grimmel
Kiilsgaard
Hedges
Martin

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

MAR 1 1 1955

Mr. J. R. Davies
Post Office Box 203
Gooding, Idaho

Re: Docket No. DMEA-3326 (Lead-Zinc)
J. R. Davies & Son
Buttercup Mine
Camas County, Idaho

Dear Mr. Davies:

Your application for aid for an exploration project and other reports available to us in Washington concerning your application have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of lead-zinc mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

JWAlt/er 3/9/55

Copy to: Docket
Region I, NW Dist (2)
Admr. R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.
Base Metals

R.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 9, 1955

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-3326 (Lead-Zinc), J. R. Davies & Son, The Buttercup Mine, Camas County, Idaho

The cited application, dated April 4, 1954, was received by this office on April 27, 1954. It was forwarded by the Executive Officer of Region I, and it was stated that a field examination would be scheduled at the earliest practical date.

The property was visited on June 18, 1954, and we received the Field Team report on February 25, 1955.

The same property was examined in July 1951 by Elton A. Youngberg, geologist, Geological Survey, for a DMEA application (Docket No. DMA-1185X) submitted by Lester Brown and Phillip Morris, 830 Idaho Street, Gooding, Idaho. Mr. Youngberg recommended that the application be denied for lack of a feasible objective. The application was denied on September 14, 1951.

The Applicant proposed to drive a crosscut 500 feet to intersect the vein 177 feet below the 100 level adit and to drift 2,000 feet on the vein. The Applicant estimated that the cost of the proposed work would be $95,230.00.

Samples taken by the Field Team on the 100 level were not of ore grade, although they were taken across the vein in the most likely looking spots. The ore minerals observed in the drift were in narrow lenses parallel to the shear, about 2 or 3 inches wide and 3 to 4 feet long.

The Field Team states: "It appears earlier exploration from five levels has explored the ore shoots and it is concluded these ore shoots were either mined, pinched, or were too low grade to make the venture successful. Until a feasible target is found, Government participation in exploration is not warranted."

We concur with the recommendations of the Field Team and the Commidity members of the USBM and USGS that this application be denied.

W. R. Griswold

File Copy
Surname
J. Alt

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 9, 1955

Memorandum

To: The Administrator

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Subject: Denial of Application, Docket No. DMEA-3326 (Lead-Zinc), J. R. Davies & Son, The Buttercup Mine, Camas County, Idaho

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JWAlt/er
Copy to: Docket
Base Metals
Chron.

W. R. Griswold

W. R. Griswold

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
MAR 9 - 1955

March 9, 1955

Memorandum

To: W. R. Griswold
Chief, Base Metals Division, DMEA

From: J. H. Hedges, Bureau of Mines

Subject: DMEA-3326 (Lead-Zinc) J. R. Davies & Son, Buttercup Mine, Camas County, Idaho

I concur with the recommendation of the examiners and field team that the application be denied.

J. H. Hedges

J. H. Hedges

Copy to: O. M. Bishop, Room 3617
Division of Minerals
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
MAR 9 - 1955

March 9, 1955

Memorandum

To: W. R. Griswold
Chief, Base Metals Division, DMEA

From: J. H. Hedges, Bureau of Mines

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J. H. Hedges

J. H. Hedges

Copy to: O. M. Bishop, Room 3617
Division of Minerals
Files

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 8 - 1955

March 7, 1955

Re: DMEA-3326
J. R. Davies & Son
(Buttercup Mine)
Camas Co., Idaho
Lead-Zinc

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

The Field Team has recommended this application be denied.

A previous application on this property, DMA-1185X (L. Brown and Phillip Morris) was denied for lack of a feasible geologic objective.

Sampling by the Field Team on the 100 level indicated most of the mineralization is not of ore grade. The nature of the mineralization in small, narrow lenses does not justify the proposed exploration work. Although previous development on five levels is largely inaccessible, it is reasonable to conclude that the small lenses or shoots, which are characteristic of this deposit, probably pinched out within short distances of the development levels or were too low grade for economic exploitation.

Two field examination reports have recommended DMEA exploration assistance be denied. There is no favorable evidence which suggests a significant discovery will be made by DMEA exploration on the Buttercup mine.

I recommend the application be denied.

E. L. Newcomb
E. L. Newcomb

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT
Defense

MAR 8 1955

March 7, 1955

Re: DMEA-3386
J. R. Davies & Son
(Buttercup Mine)
Camas Co., Idaho
Lead-Zinc

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

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I recommend the application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-3/7/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
O. M. Bishop, 3617 Interior

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
FEB 21 1955

February 15, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3326 (lead-zinc)
J. R. Davies and Son
Buttercup Mine
Camas County, Idaho

Dear Mr. Selfridge:

Enclosed are four copies of an appraisal of the cited application by Howard B. Nickelson, geologist, U. S. Geological Survey.

The Field Team concurs in the recommendation that the application be denied as there is not a sufficient target for the exploration proposed.

By Field Team, Region I
Northwest District

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

John S. Vhay, Acting Member
U. S. Geological Survey

Enclosure
cc: USBM (2)
Nickelson

Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

Dmea

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

February 4, 1955

To: DMEA Field Team, Region I, Northwest District

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3326 (lead-zinc), application examination, Buttercup Mine, Camas County, Idaho, J. R. Davies and Son, P. O. Box 203, Gooding, Idaho

Summary

The property was visited on June 18, 1954, by the writer, accompanied by J. R. Davies, Jr. Three samples were cut on the 100 level, and a brunton and tape survey was run to locate the proposed adit site at Station 15, which is shown on the enclosed sketch.

The property was examined in July 1951 by Elton A. Youngberg, geologist, Geological Survey, for a DMEA application (Docket No. DMA-1185X) submitted by Lester Brown and Phillip Morris, 830 Idaho Street, Gooding, Idaho. Mr. Youngberg recommended that the application be denied for lack of a feasible objective.

Recommendation

The writer concurs with Mr. Youngberg and recommends that this new application also be denied for lack of a feasible objective.

Resume of Field Investigation

The property is located 1 mile west of Buttercup Mountain at one of the forks of Buttercup Creek, a tributary of Willow Creek, in Camas County, Idaho. The property can be reached by traveling north on the Willow Creek road to Buttercup Creek, then following up the creek to the mine; the total distance is about 12 miles. The upper 4 or 5 miles of this road require snow removal during the winter months. The mine is at an altitude of approximately 6,500 feet.

The patented claim and millsite, Nos. 770A and 770B, are owned by the applicant.

The vein occurs in a roof pendant of Paleozoic sediments as a shear in calcareous and argillaceous rocks. It averages about 2 to 3 feet wide and closely conforms to the dip and strike of the beds.

Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

The ore occurs as sphalerite and galena with some tetrahedrite. Samples taken as shown on the enclosed map were not of ore grade, although they were taken across the vein in the most likely-looking spots. The ore minerals observed in the drift were in narrow lenses, parallel to the shear, about 2 or 3 inches wide and 3 to 4 feet long. The outcrop of the vein can be traced from the 100 level portal, over the hill and 200 feet beyond the caved portal at Station 12.

The only accessible working is 180 feet of drift and crosscut on the 100 level. The vertical section enclosed with the application shows five levels having 1,080 feet of known drift, an inclined winze approximately 450 feet long, and other drifts and raises of unknown extent. This map shows a stope 70 feet long between the 100 level and the surface which averaged 30 inches wide. It is not known if this ore shoot or any other ore was mined from the lower levels. Shipping records from 1886 to 1893 are listed in the pamphlet accompanying the application and show 611.01 tons of high-grade material sold to Ketchum smelter.

An old set of rolls and remnants of a jig were observed on the millsite. The tailing pond covered a small area and showed the effects of erosion. It is not known if the shipments listed in the pamphlet were concentrates or crude ore. They could well have been concentrates because the rolls are not modern.

Approximately 10,000 tons of material are estimated to be in the dump at the portal of the 100 level. The applicant milled 200 tons of this material last summer, and the following assays were obtained from this operation.

Prod	Tons	Oz. Au	Oz. Ag	% Pb	% Cu	% Zn	% S
Heads	200	0.04	1.06	1.2	0.08	2.1	--
Tails	--	0.01	0.2	0.5	0.04	1.6	--
Lot 63	17.146	0.275	16.83	16.2	0.4	5.9	16.4
Lot 64	7.660	0.2725	20.35	16.38	0.79	6.7	19.4

The net value of Lot 63 was $40.10 per ton, and the net value of Lot 64 was $44.24 per ton. The applicant reported they broke even on the test and he believed they could make a small profit per ton by improving their grinding circuit and adding additional flotation cells to their mill. The head sample from this test was desired to base an estimate of what the over-all grade of the vein would be. It was estimated the vein 2 feet wide may average about 3 times the head sample or 0.12 ounce of gold, 4.8 ounces of silver, 0.32 percent copper, 3.6 percent lead, and 6.3 percent zinc.

The applicant proposes to drive a crosscut from Station 15 toward Station 12 (see attached map) which would require approximately 500 feet to intersect the vein 177 feet below the 100-level adit or near the 300 level as shown on the applicant's vertical section. The 2,000 feet of drifting applied for is longer than the known length of the outcrop.

Snowslides limit the portal site locations in the area which was the reason for selecting the proposed site at Station 15. Greater vertical depth below the outcrop could be obtained with the same amount of crosscutting by locating the portal site down the creek from the 100-level portal, but this location is in a snowslide area.

It appears earlier exploration from five levels has explored the ore shoots and it is concluded these ore shoots were either mined, pinched, or were too low grade to make the venture successful. Until a feasible target is found, Government participation in exploration is not warranted.

Enclosure

Distribution:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Nickelson

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

No. 157 Howard Street
Spokane 4, Washington

February 15, 1955

QBE
BCG

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-1326 (lead-zinc)
J. R. Davies and Son
Butterscup Mine
Camas County, Idaho

Dear Mr. Selfridge:

Enclosed are four copies of an appraisal of the cited application by Howard B. Nicholson, geologist, U. S. Geological Survey.

The Field Team concurs in the recommendation that the application be denied as there is not a sufficient target for the exploration proposed.

By Field Team, Region I
Northwest District

Wing G. Agnew, Acting Reg. Officer
U. S. Bureau of Mines

John S. Vhay, Acting Director
U. S. Geological Survey

Enclosure
cc: USBM (2)
Nicholson

Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

February 4, 1955

To: DMEA Field Team, Region I, Northwest District

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3326 (lead-zinc), application examination, Buttercup Mine, Camas County, Idaho, J. R. Davies and Son, P. O. Box 203, Gooding, Idaho

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Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

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Enclosure

Distribution:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Nickelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

December 22, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3326 (lead-zinc)
J. R. Davies & Son
Buttercup Mine
Camas County, Idaho

Dear Mr. Selfridge:

With reference to Mr. W. S. Martin's letter received here December 20, 1954, regarding the cited application, I wish to say that the applicant has submitted the information requested in my letter of September 16, 1954. In our monthly report for October, "Applications in Process", we remarked that the report was in preparation. We should have gone a step further, probably, and mentioned that we had received the information requested. We are sorry for this oversight.

A Field Team report is in preparation but final report writing has taken precedence over this application report because the property will be inaccessible until late spring. We will submit the report in sufficient time so that an evaluation can be made before work can be started in the spring.

Sincerely yours,

John S. Vhay

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)
Nickelson

XXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

December 22, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

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J. R. Davies & Son
Buttercup Mine
Camas County, Idaho

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John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)
Hiskelson

File Copy
Surname

J. W. Alt.
Griswold
Martin
Johnson
Mittendorf

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

DEC 13 1954

Mr. M. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3326 (Lead-Zinc)
J. R. Davies & Son
Buttercup Mine
Camas County, Idaho

Dear Mr. Weissenborn:

With reference to the cited application, we wish to recommend that you advise the Applicant that if he does not submit the information that you requested in your letter of September 16, 1954, within thirty days, his application will be considered as having been withdrawn.

If the Applicant then does not comply with your request, please notify us and we will forward him a notice of withdrawal.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (JHB)

APPROVED:
C. H. JOHNSON
Member, Bureau of Mines (JHB)

Thor H. Kiilsgaard
Member, Geological Survey (JHB)

JWAlt/er 12/8/54

Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

xxxxxxxxxxxxxxxxxx
No. 157 Howard Street
Spokane 4, Washington

September 16, 1954

Docket

Mr. J. R. Davies
P. O. Box 203
Gooding, Idaho

Re: Docket No. DMEA-3326 (lead-zinc)
J. R. Davies & Son
Buttercup Mine
Camas County, Idaho

Dear Mr. Davies:

In order to further process and evaluate your application for exploration at the Buttercup mine, several more things are required. First, it will be necessary to have the results of your recent mill test on the Buttercup dump. This information was requested during Mr. Nickelson's field examination in early June.

The grade of the crude ore from the dump is especially desired to establish the possible existence of lower grade ore in the vein. If you should have the crude ore grade from each day's milling during the test run, please submit this information. The grade of the tails would also be appreciated. Also submit an estimate of the tonnage milled from the dump. We have received the smelter settlement sheet which we assume was the amount recovered from the test run. If more was shipped, we would like to have the returns on it.

Also, we will need copies of the lease or easement on the claim adjoining the Buttercup claim in which the proposed adit site will be located. The owners of the adjoining claim will have to sign Owner's Consent to Lien form. Six copies of Form MF-203 are enclosed for this purpose. Please return all six to this office.

Your immediate attention to the points listed above will be appreciated.

Yours sincerely,

cc: DMEA (2)
USBM (2)
Nickelson

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

V

Betty

RECEIVED
AUG 10 8 25 AM '54
GENERAL SERVICES ADM.
PUBLIC BLDGS. SERVICE
BAD - COMMUNICATIONS

Docket

WA SP 150 I-GS-G

SPOKANE WASH 8-9-54 425P

MR. GEORGE C. SELFRIDGE,

CHAIRMAN OPERATING COMMITTEE, DMEA DEPARTMENT OF INTERIOR WA 25

REURTEL OF AUGUST 6, DMEA 3326, 3340, AND 3385 APPLICATIONS. GEOLOGIC APPRAISALS IN PREPARATION. MEN HANDLING THESE APPLICATIONS IN FIELD AT PRESENT.

JOHN S. VHAY ACTING MEMBER DMEA FIELD TEAM REGION 2.

6 3326 3340 3385

VA 425P

AUG 10 1954

File Copy

J W-Cell
Hansmann
Hedges
Newcomb
Selfridge
Rittenhouse

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG 6 1954

T E L E T Y P E

JWAlt/bjl, Rm. 4058, Ext. 3669

Base Metals, DMEA, Interior

[redacted]

14X4401(01) Revolving Fund, Defense Production Act, Interior (allocated Working Fund to the Office of the Secy.

Date:

To: A. W. Weissenborn, Executive Officer, DMEA Field Team, Region II, Spokane, Wash.

Please advise regarding status of applications DMEA-3326, J. P. Davies and Son; DMEA-3340, E. M. Sowers and Stanley G. Johnson; DMEA-3385 Elkhorn Consolidated, Inc.

George C. Selfridge

Chairman, Operating Committee (GCS)

(written 8/6/54)

Copy to: Docket (3)
Admr. R. File
Op. Committee
Base Metals (3)
Mr. Gildersleeve
Mr. Bishop
Chron.

R.G.S.

April 26, 1954

J. R. Davies & Son
P. O. Box 203
Gooding, Idaho

Subject: DMEA-3326
Re: Exploration Assistance
The Buttercup

Gentlemen:

The receipt of your application dated April 20, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3326 and referred to the Base Metals Division.

Kindly refer to DMEA-3326 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

April 26, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA - 3326 J. R. Davies & Son

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

April 21, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Dear Mr. Selfridge:

Enclosed are three copies of an application for a DMEA contract submitted by J. R. Davies & Son, a partnership. One copy of the application has been retained for the files of this office.

The Davies propose to explore the Buttercup mine, Camas County, Idaho, by driving 3,000 feet of drifts and crosscuts under the old mine workings. Their proposed work is not shown on their accompanying maps but they have informed us that they intend to portal a tunnel near the southwest boundary of the Buttercup claim near a point where the claim crosses a stream marked "Dry bed of Gulch," as shown on their claim plat. This tunnel would be extended in a northeast direction until the vein was intersected and then turned to drift on the vein to the east.

We cannot determine from the data on hand whether their proposed exploration project would be feasible. We shall, therefore, schedule a field examination at the earliest practicable date and shall forward our field report to you as soon as possible.

The applicant states that he would prefer a unit cost contract if his application is to be favorably considered.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
Acting Member
DMEA Field Team, Region II

Enclosure
cc: USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

April 21, 1954

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Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

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The Davies propose to explore the Buttercup mine, Camas County, Idaho, by driving 3,000 feet of drifts and crosscuts under the old mine workings. Their proposed work is not shown on their accompanying maps but they have informed us that they intend to portal a tunnel near the southwest boundary of the Buttercup claim near a point where the claim crosses a stream marked "Dry bed of Gulch," as shown on their claim plat. This tunnel would be extended in a northeast direction until the vein was intersected and then turned to drift on the vein to the east.

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The applicant states that he would prefer a unit cost contract if his application is to be favorably considered.

Sincerely yours,

Thor H. Kiilsgaard
Acting Member
DMEA Field Team, Region II

Enclosure
cc: USBM (2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
APR 20 1954
U. S. G. S.
SPOKANE, WASH.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3326
Metal or Mineral Lead-Zinc
Date Received
Estimated Cost $95,230
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

J. R. DAVIES & SON - A PARTNERSHIP
J. R. DAVIES J. R. DAVIES jr.
Post Office Box 203, Gooding, Idaho

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract LOTS Nos. 74A and 74B, respectively, patented on December 5, 1891, recorded in Book 2 of Patents, Page 674, on July 7, 1941 in the County of Camas, State of Idaho. (Metes & bounds description as recited in said Mining Deed) More fully described on attached sheet.

(*b*) State any mine name by which the property is known. THE BUTTERCUP

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise OWNER

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. No unpatented claims

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. Sheet attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. "

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. Description on attached sheet.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Answer on attached sheet.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Answer

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore .....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☒ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated ....., 195..

J R Lawrence & Son
(Applicant)

By J R Lawrence Sr

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

MF-103

APPLICATION FOR AID IN AN EXPLORATION PROJECT?
PURSUANT TO DMEA ORDER 1, UNDER DEFENSE PRODUCTION
ACT OF 1950, AS AMENDED.

I

J.R.Davies & Son
P.O.Box 203, Gooding, Idaho

Instruction:

3. (a) THE BUTTERCUP LODE mining claim No. 74A contains twenty acres (20 A.) and 49/100 acres, in Section Seven, Township Two North, Range Sixteen E.B.M. Camas County, Idaho.

The MILLSITE LOT - 74B, adjacent to Lode Claim 74A contains five acres, the two aggregating twenty five acres & forty-nine hundredths of an acre of land all in Section Seven, Township Two North, Range Sixteen E.B.M., Camas County, Idaho.

(b) THE BUTTERCUP.

(c) OWNER.

(d) None

(e) None

(f) None

4. (a) It has been many years since any mining or exploration work has been done on the property. According to certain historical data submitted herewith, mining operation was carried on for about six years via. an inclined shaft sunk on the out-crop of the vein at the apex of the hill. These ancient workings are now totally inexcessible.

The object of the proposed exploration is to locate a body of ore at depth by means of a tunnell somewhere beneath the old workings which are plotted on the accompaning maps.

(b) Accompaning this application is pamphlet compiled by The CAMAS COUNTY PRESS giving a fine general description of the mining district wherein this mine is located. On page 9 is a map drawn to scale by the Idaho Bureau of Mines and Geology and on page 8 is shown the production record of the BUTTERCUP MINE, for each of six years of its operation.

(c) The geological features and structures are graphically shown on page nine of the the pamphlet referred to above. All of the ore taken from the old workings was shipped, consequently it was hand picked and the lower grade ore was piled out on the dump and severe oxidization has has taken place. Examination of this dump material revealed good values in lead, zinc and silver. As stated above, the object of this proposed exploration is to determine, if possible, if there is sufficient values and quantities of ore to justify a mining and milling operation.

INFORMATION FOR AID IN AN INVESTIGATION OF THE TITLE
PROPERTY IN THE CASE OF T. ETTER, LESSEE, VS.
ROY W. LEGG, ET AL, DEFENDANTS.

J.M.Davies & Son
P.O.Box 806, Boise, Idaho

Instructions:

5. (a) THE SUPERIOR MONT mining claim No. 764 covering twenty acres (20.0) and 40/100 acres, in Section Seven, Township Two North, Range Eleven E.B.M. Owyhee County, Idaho.

The BULLDIGGER - 764, adjacent to Mon. Claim 764 containing fifty acres, the two aggregating twenty-five acres (forty-acre) patented of an acre of land all in Section Seven, Township Two North, Range Eleven E.B.M., Owyhee County, Idaho.

(b) THE INVESTOR.

(c) OWNER.

(d) None

(e) None

(f) None

4. (a) It has been many years since any mining or exploration work has been done on the property. According to certain historical data published herewith, mining operation was carried on for about [illegible] years via an inclined shaft sunk on the outcrop of the vein at the open of the hill. These ancient workings are now totally inaccessible.

The object of the proposed exploration is to locate a body of ore at depth, by means of a tunnel reconnoitre beneath the old workings which are plotted on the accompanying maps.

(b) Accompanying this application is pamphlet compiled by Mr. [illegible] [illegible] giving a line general description of the mining district wherein this mine is located. On page 2 is a map drawn to scale showing [illegible] between the Mines and Geology and on page 3 is shown the production record of the BUTTERCUP MINE, for each of six years of its operation.

(c) The geological features and structure are graphically shown on map mine of the pamphlet referred to above. All of the ore taken from the old workings was shipped, consequently it was hand picked and the lower grade ore was piled out on the dump and covers considerable [illegible] has been taken place. Examination of this dump material revealed good values in lead, zinc and silver. As stated above, the object of the proposed exploration is to determine, if possible, if there is sufficient values and quantities of ore to justify a mining and milling operation.

MF-103

APPLICATION FOR AID IN AN EXPLORATION PROJECT
PURSUANT TO DMEA ORDER 1, UNDER DEFENSE PRODUCTION
ACT OF 1950, AS AMENDED.

(Attached sheet 2

J. R. Davies & Son
P.O.Box 203, Gooding, Idaho

Instructions:

4. 4(d) From the East - West highway from Fairfield to Hailey, Idaho is a good road maintained up Willow Creek about seven miles to the junction of Buttercup Creek, by Camas County then there is a truck road from there up Buttercup Creek to the Buttercup millsite which must be maintained by us. If a mining operation is found feasable we expect to construct a mill. If this comes to pass the concentrates or highgrade ore will be trucked to the rail head a distance of about 15 miles. The nearest and best residence and supply point is Gooding, Idaho which is about 50 miles distance, most of which is traversed by a splendid oiled highway.

(e) Plenty of help is available. Local mine timber is available near the mine. Water is plentiful for all domestic and milling operations in Carbonet Creek which flows through the Millsite claim. Deisel and gasoline propelled equipment will be installed for the proposed exploratory work.

5. (a) From the production report as shown at page 8 of the inclosed pamphlet, and analysis of the material on the old dump there is indication of good values in lead and zinc in this mine and these are the metals for which we wish to explore.

(b) It is estimated that a crosscut tunnell would intersect the main lode at about 1000 feet and a drift tunnell to extend 1000 feet to the right and 1000 feet to the left.

(c) Work will begin as soon as funds are available from the Government and it is expected that the work could be completed and ready for full operation and production within 24 months from the beginning.

(d) J. R. Davies sr. has spent about 25 or 30 years at contract underground work in driving tunnels and sinking shafts and operating leases; this has been his lifetime career. J. R. Davies jr. who is 33 yrs. of age has been associated with and worked continuously with this father since his graduation from college. He is an all around expert mechanic and administrative operational head.

6. (a) - None

(b) Labor:

2 Carpenters at standard wages for construction of bunk house, shop cook & mess house, storage bins,etc.	(estimate of 60 days)	$ 2,000

Building materials:
Cement, lumber,hardware, etc
(including necessary milled lumber for mine timbering) 5,000

(Cont')

[illegible]

[illegible]
[illegible] 20 [illegible] (Phase 4, [illegible] Production
Age of [illegible], [illegible]).

4. [illegible] Major & Son
[illegible], [illegible], [illegible], India.

Instructions:

4. (a) From the East - West highway from [illegible] to [illegible], it is a good road maintained by Miller Timber Company, this is the [illegible] Instructions, by these County that there is a road [illegible] by Forestry Dept. to the Indian [illegible] which [illegible] by us. If a mining operation is [illegible] to [illegible] [illegible]. If this claim is made to pass [illegible] [illegible] to [illegible] the trail from a distance of [illegible] [illegible] and bad weather and [illegible] [illegible] is [illegible] 50 miles distance, most of which is [illegible] [illegible] [illegible].

(c) Labour of [illegible] is available. [illegible] [illegible] [illegible] [illegible]. Water is provided for the [illegible] [illegible] in Dunsmuir Creek which flows through the [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] work.

5. (a) From the production reports as shown at point 4 [illegible] [illegible] and analysis of the material on the site they have [illegible] good values in lead and zinc in this [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

M-F-103

APPLICATION FOR AID IN AN EXPLORATION PROJECT
PURSUANT TO DMEA ORDER 1, UNDER DEFENSE PRODUCTION
ACT OF CONGRESS - 1950 AS AMENDED.

(Att. sheet) 3

J. R. DAVIES & SON:
P. O. BOX 203
Gooding, Idaho.

Instructions:

6. (b) cont!	Amount forward for buildings			$ 7,000
3	Men - Truckers, mechanics, helpers (200 days)		$ 5,000	
10	Miners		48,000	
(c)	Powder, fuse & caps	$ 500		
	Gasoline, Deisel & Oils	1000	1,500	
(d)	210 cu. ft. compressor	5000		
	Drifter, steel & bits	700		
	Jackhammer, & steel	350		
	Mucking machine	4000		
	2 mine cars	300		
	5 tons 16 lb. rails @	500		
	2000 ft. 2" black pipe	780		
	Fan & flexide pipe for air ventilation	600		
	Necessary tools for shop	500		
	New 1½ to 2 ton truck	3500		
	New pick-up ½ ton	1500		
			17,730	72,230
				~~84,230~~
	Total			~~$81,230~~
				$79,230
(e)	None			
(f)	Answered under 6 (b)			
(g)	MISCELLANEOUS:			
	Repairs & maintenance of opp. equip-	2000		
	Workman's compensation	1600		
	Employer's liability ins.	1000		
	OAB - SS	1200		
	Analytical and accounting work	10000		
	Payroll Excise taxes (8 or more)	200		16,000
	Total			$95,230

7. (a) Yes.

(b) By reclaiming the metals from the dump of the original workings and if any deficiency from this source develops this will be paid by J. R. Davies & Son & associates.

The

Little Smoky

and

Willow Creek

Mining Districts

of

Camas County, Idaho

THIS PAMPHLET PRINTED AND PUBLISHED BY THE CAMAS PRESS, COMMERCIAL PRINTING DIVISION OF THE CAMAS COUNTY COURIER, IN THE INTEREST OF INFORMING THE NATION'S MINING INTERESTS OF CAMAS COUNTY'S MINERAL WEALTH.

FAIRFIELD, IDAHO, 1948

Price, $1.00 Per Copy

Excerpt From Pamphlet #33--Geology and Ore Deposits of the Seafoam, Alder Creek, Little Smoky, and Willow Creek Mining Districts, in Custer and Camas Counties, Idaho. By Clyde P. Ross, U. S. Geological Survey.

The Little Smoky and Willow Creek Mining Districts, Camas County, Idaho

The Little Smoky mining district, which includes what is sometimes referred to as the Rosetta District, is an area of about 150 square miles lying mainly in the drainage basin of Little Smoky Creek in the southern part of the Sawtooth quadrangle, Camas County, Idaho. A few of the deposits are in Blaine County a short distance northeast of the crest of the Smoky Mountains, which here forms the divide between the two counties. The Willow Creek mining district, which includes the deposits in the drainage basin of Willow Creek, adjoins the Little Smoky district on the southeast and is also in Camas County on the border of Blaine County.

Both districts were discovered during the boom in lode mining in the early eighties and flourished for a time but have been almost abandoned since about 1900. Most of the production ceased prior to 1890. In recent years interest in several of the properties has been renewed and some development work done, but no shipments, except a few sample lots, have yet been made. The lead and zinc ore characteristic of both districts can be more easily handled under present conditions than it could in the early days. The relative accessibility of both districts encourages the hope that development on some of the properties may prove profitable. Nearly all the properties can now be reached or closely approached by automobile over roads which are in part in poor shape but are without excessive grades. Carrietown, the former metropolis of the Little Smoky district, is 26 miles from the Hill City branch of the Oregon Short Line at Fairfield, and the mines of the Willow Creek district are about the same distance away. A somewhat shorter road formerly connected Carrietown with the railroad at Ketchum but is now in disrepair.

The first two tables below show the shipments to the Ketchum smelter from a number of mines identified as being in the Little Smoky district in 1884, 1885, and 1886, and from the Silver Star in 1887, 1888, and 1889, and also give data on shipments which passed through the hands of E. Daft, of Hailey, in 1882 to 1906. It is probable that additions could be made to both tables if all shipments could be identified. Some of those listed in Mr. Daft's records, or those of the Ketchum smelter, only under the names of individuals or of mines whose locations are now unknown, may have come from this district. Approximate calculation shows that the gross value of the shipments listed is about $1,200,000, which agrees well with Umpleby's estimate of a total production of $1,000,000, half of which came from the Carrie Leonard.

The only production known from the Willow Creek district is that recorded as from the Gertie Riddle by the Ketchum smelter in 1886 and from the Buttercup by E. Daft in 1888 to 1893.

Apparently these two names refer to the same mine or to closely adjoining mines. The data re shown in the third table below. Small lots have been shipped at various times from other properties in the district, but data on these shipments are lacking.

General Geology

The two districts lie on the southestern border of the Idaho batholith and are largely underlain by the granitic rock of this mass, ranging in composition from granite to quartz diorite. Most of the ore deposits are in the impure quartzite and limestone of Paleosoic age which are intruded by the batholith. Because of their lithologic character and relation to rocks of known age in the adjoining Hailey quadrangle, these strata are regarded as belonging to the Wood River formation, of Pennsylvanian age. No fossils have been found in them, and the stratigraphy has not been studied in detail, so that it is possible that pre-Pennsylvanian beds are included in the Paleozoic rocks mapped on Figure 1. Both the granitic and the sedimentary rocks are cut by dikes of granophyre and kindred porphyries, so small that they were not mapped. Some of these dikes cut the lodes. From studies elsewhere it is believed that these dikes are of Miocene or possibly later age. Extensive remnants of the Challis volcanics (Miocene?), which formerly covered the area, still remain. In the southern part of the area the Mount Bennett rhyolite has been distinguished from the rest of the volcanic rocks by Piper. This distinction has not been carried north of the area mapped by him and is not shown on Figure 1. This mapping has been used, with revision, in preparing the southern part of Plate 1. In the southeast corner of the area mapped there are masses of the Snake River basalt. The Tertiary strata are probably much later than the ore deposition in this area. Near the head of Sheep Creek there is a small, partly caved tunnel in tuff, perhaps driven in search of lignite, as a little woody matter is present in the tuff. The tributaries of Little Smoky Creek contain considerable recent alluvium, some of which has been worked for its content of Placer gold.

Ore Deposits

The ore deposits of the Little Smoky and Willow Creek districts belong to the most common type of deposit in south-central Idaho. They have been formed along shear zones, largely by replacement, and are genetically related to the Idaho batholith. Most of them are in sedimentary rock close to the granitic contact, but two of those visited are in the granitic rock. The characteristic ore minerals are galena, sphalerite, pyrite, and tetrahedrite in a gangue of quartz, siderite, and altered country rock. Little can be added to the descriptions of Umpleby except for a few deposits on which development work has been done since his visit. The reader is referred to his report for data on the Carrie Leonard, Dollarhide, Isabella, Margaret, Silver Crown, King of the West, Sunday, Stormy Galore, Tyrannus, and Hidden Treasure, most of which were caved when the district was visited in 1929. In some of the above-mentioned mines tunnels at a distance from the old stopes are still open, and several of these were entered, but few pertinent data were obtained. Little

development, other than annual assessment work, has been attempted at most of them since 1900.

Although most of the Carrie Leonard Mine, formerly the most productive in either district, is now largely inaccessible and is therefore not described in the present paper, a map of the workings adapted from one kindly furnished by Mr. Stewart Campbell, State Mine Inspector, is reproduced as Figure 2 for the convenience of anyone interested in the future development of this or neighboring properties.

Little Smoky District

Silver Star Mine

The Silver Star mine is about 3,300 feet in an are line southwest of Carrietown, which in the boom days was the principal settlement of the district. The distance by the winding road is nearly two miles. This mine was one of the smaller producers in the early days but at present has a larger amount of underground workings accessible than any of the other old mines. This fact, coupled with data furnished by Mr. Stewart Campbell, State Mine Inspector, who kindly accompanied the writer to this and many of the other mines, makes it possible to give more information regarding this than any of the other properties. The Characteristics of the Silver Star deposit are probably typical of the other deposits in sedimentary rocks in the two districts. The historical data summarized below are taken mainly from an unpublished report made by Mr. Campbell for the Idaho Lead Company, December 1, 1926. The geologic data consist mainly of observations by the writer on the surface and in #3 tunnel, the only safe accessible part of the workings.

The Silver Star vein was discovered in the summer of 1881, and a little high grade ore was shipped at that time. It was sold in 1883 to the Philadelphia Mining & Smelting Co., of Ketchum, for $50,000 in cash. This company drove the greater part of the more than 6,200 feet of underground workings shown in Figure 3 and erected a 20-stamp mill, which was put into operation November 15, 1887, and closed permanently December 20, 1887. The total expenditure by this company, including the purchase price, is reported to have been over $500,000. The table above records treatment of 523 tons of Silver Star ore and concentrates in 1885 to 1889. Campbell's report states that 1,350 tons of ore were treated in the mill. After 258 tons of high grade material were picked out by hand the ore milled averaged 3 per cent of lead and 13.5 ounces of silver to the ton. The concentrates averaged 14.58 per cent lead and 36.82 ounces of silver and 0.216 ounces of gold to the ton, and the tailings contained 6.1 ounces of silver to the ton, a loss of over 45%. Concentration was in the ratio of 5.075 tons of feed to one ton of concentrates. Although nearly all the lead was recovered in the concentrate, the high silver loss made the operation of the mill under the conditions then existing unprofitable. No record appears to have been made of the zinc content of the ore milled. Much of the ore now exposed contains about as much sphalerite as galena. The only production since the mill shut down consisted of the small lots shipped by leasees recorded in the table above. Most or all of this was ob-

tained by sorting material on the dump. Recently parts of the old workings have been reopened, but there has been no production.

The lode has an average strike of about N. 65' E. and dips 40'-45' S. in the upper workings, steepening to about 80' on the lowest level. This coincides approximately with that attitude of the sedimentary rocks in this vicinity, but on the third level, at least, the shearings dips somewhat more steeply than the bedding, There is local variation in both. Interruptions in the continuity of the lode, indicated by the sharp bends in the drifts in Figure 1, have been locally interpreted as the result of postmineral faulting. There has probably been renewal of movement at different times, but most of this has been approximately parallel to the original shearing. Little evidence of lateral displacement exists in the parts of the workings studied. Here, as in many other deposits in the region, the apparent displacement results from arrangement of the original shearing in echelon rather than from postmineral faulting.

The lode matter consists of galena and sphalerite, with locally considerable pyrite and small amounts of tetrahedrite in a gangue of quartz and siderite in crushed and altered quartzite. Parallel banding is common, resulting from penetration along numerous planes of weakness in a zone of shearing. Vein quartz is more abundant than in many lodes of this type in the region, and some of it contains angular inclusions of quartzite suggestion that there was considerable filling of pre-existing openings. Here as elsewhere, however, much of the mineralization resulted from replacement of the country rock. In places the ore zones are as much as 14 feet wide, and on the third level the combined length of the several zones is reported to be over 300 feet. Very little stoping has been done. Sampling recorded in Campbell's report indicates that the ore contains from 1 to nearly 4 per cent of lead, about as much zinc, over 2 ounces of silver to 1 per cent of lead, and small amounts of gold.

Taft and Red Star Prospects

The Taft prospect is one of several properties near the head of Little Smoky Creek on which some development work has been done in recent years. There are several cuts and short tunnels in light-colored quartzite with an average strike of N. 70' E. and dip of 40' S. Granite crops out a short distance downstream and also on the slope above the workings. In one of the tunnels a quartz vein containing some galena is exposed. It trends N. 75' E. and dips 45' S., cuting nearly flat quartzite.

The Red Star prospect adjoins the Taft on the east. It is developed by several cuts and tunnels, one of which is 50 feet long. The country rock is quartzite, with granitic rock close at hand. A little galena ore in a quartz vein has been found.

Production of the Little Smoky District
(From the Records of E. Daft—Hailey, Idaho)

Year	Mine	Ore (Dry Tons)	Gold (Ounces)	Silver (Ounces)	Lead (Pounds)	Zinc (Pounds)
1882	Bunker Hill	4.25		327.4	5,613	
	Isabella	.58		181.9	485	
	King of the West	6.64		820.4	2,880	
1884	Stormy Galore	9.87		4,181.6	3,355	
	King of the West	5.41		1,379.6	2,272	
	Wm. McCarter	13.26		1,794.1	12,511	
1885	King of the West	33.88		3,458.2	9,326	
	Stormy Galore	52.90	5.90	10,886.0	7,177	
	Tyrannus	12.72		1,083.9	14,808	
1886	Carrie Leonard	461.83		67,581.1	255,053	
	Fourth of July	6.80		2,257.6	4,583	
	Dollarhide	5.44		397.4	2,436	
	King of the West	250.32		23,627.8	98,019	
	Tyrannus	90.56		6,182.1	95,167	
1887	Carrie Leonard	620.00		713,771.7	420,315	
	King of the West	24.01		1,501.7	8,384	
	Stormy Galore	81.59		12,185.1	12,736	
	Tyrannus	140.37		9,963.0	155,864	
1888	Carrie Leonard	131.67		12,382.4	74,266	49,835
	Isabella	18.68		3,722.7	3,952	
	King of the West	256.80	24.80	19,573.6	101,494	5,977
	Tyrannus	21.89		1,451.3	23,859	3,937
1889	Carrie Leonard	22.24		2,201.8	11,141	
	King of the West	52.28	2.29	7,817.0	15,540	
	Stormy Galore	11.85		1,837.1	1,185	
	Tyrannus	24.65		2,193.3	27,421	
1890	Carrie Leonard	80.23		7,971.5	32,081	31,714
	Grapis	2.52		138.2	2,622	
	King of the West	153.63	5.84	17,307.7	59,047	48,358
	Silver Crown	2.71		284.6	3,636	
	Silver Star	1.81	.09	429.3	134	
	Stormy Galore	2.62		366.7	340	
	Tyrannus	7.45		425.5	7,707	
1891	Carrie Leonard	134.01	3.84	15,768.3	52,626	49,472
	Dixie	1.60	.42	3.7		
	Silver Star	20.96	.13	3,066.1	6,219	
	Stormy Galore	4.24	.33	1,510.8	2,239	727
	Tyrannus	3.23		212.5	3,419	
1892	Carrie Leonard	21.05		2,436.3	15,992	6,451
	Isabella	4.42		522.7	1,157	
	Texas Star	1.75	1.53	49.5	1,651	
	Turner	1.57		178.0	595	441
	Tyrannus	14.01		1,046.8	18,191	
	Stormy Galore	10.22	.77	4,495.6	5,005	1,124

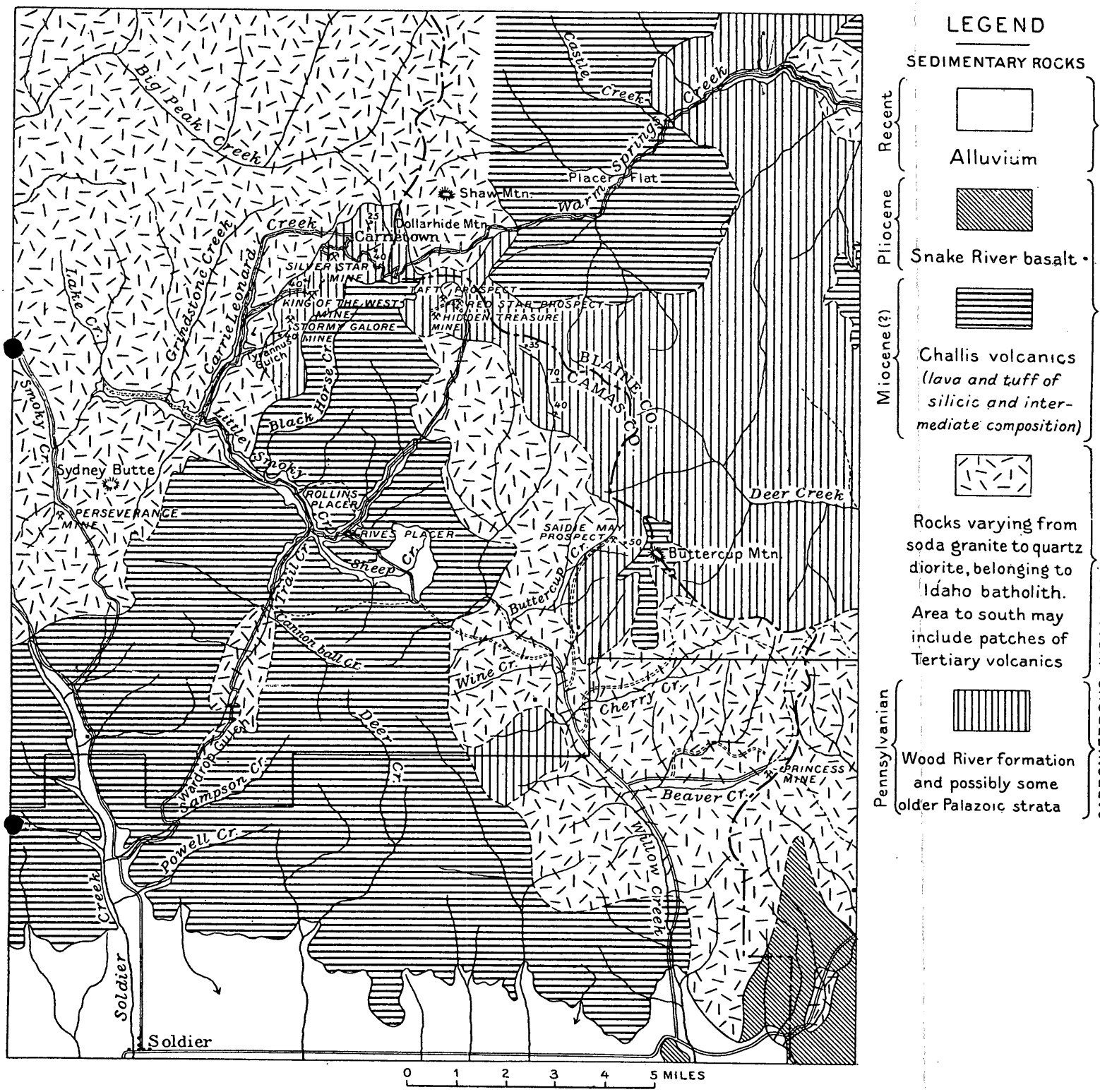
Year	Mine	Ore (Dry Tons)	Gold (Ounces)	Silver (Ounces)	Lead (Pounds)	Zinc (Pounds)
1893	Carrie Leonard	4.07		548.6	1,710	1,385
	Isabella	1.00	Tr.	176.4	263	219
	Stormy Galore	4.61		1,945.0	3,824	
	Texas Star	17.19	75.20	132.3	6,039	
1894	Carrie Leonard	1.02	.08	111.9	614	
	Silver Star	9.02	.75	676.0	9,658	
	Tyrannus	4.15	.35	1,361.6	2,075	
1895	Carrie Leonard	1.94	.14	590.1	6,298	
	Isabella	10.65	.56	2,013.7	3,958	3,672
	Silver Star	2.63	.15	220.6	2,285	
	Texas Star	.82	1.09	3.16	62	
	Tyrannus	3.90		602.06	3,438	1,052
1896	Carrie Leonard	12.90		1,916.6	4,005	3,382
	Isabella	68.94	5.87	12,378.7	32,449	22,626
	Silver Star	41.13	2.38	2,157.1	28,315	6,187
	Stormy Galore	2.45		1,008.2	800	
	Tyrannus	15.52	.81	1,476.6	14,808	1,051
1898	Tyrannus	4.67	.19	271.6	5,330	
1899	Silver Crown	1.04	.04	17.4		
	Star of Smoky	2.04		46.3	165	
1900	Carrie Leonard	1.32	.26	136.7	461	
	Silver Crown	.93	.28	59.8	230	
1901	Carrie Leonard	10.35	.90	1,172.1	5,629	3,515
	Fourth of July	7.79	.31	396.1	8,006	
1903	Silver Crown	.28	.08	92.7	68	
	Tyrannus	100.25	.61	6,216.1	100,369	1,880
1905	Dollarhide	5.34	.28	389.5	3,562	
	Silver Crown	1.61	.08	35.5	387	
1906	Dollarhide	49.46		2,633.6	12,930	
	Fourth of July	2.61	.52	56.2	2,155	
	Silver Crown	5.04	.14	277.3	4,109	
		3,233.21	137.01	1,008,114.2	1,827,377	345,313

Shipments from Little Smoky District to Philadelphia Mining and Smelting Co. Smelter at Ketchum, Idaho--1884-1889

Year	Mine	Ore (Dry Tons)	Gold (ounces)	Silver (ounces)	Lead (Pounds)
1884	Isabella	2.43		306.67	300
	King of the West	5.21		1,310.85	2,023
	McCarter	2.52		248.42	2,590
	Stormy Galore	9.19		3,897.73	3,124
1885	Carrie Leonard	179.77		29,890.51	120,292
	"	1.01		52.98	1,304
	King of the West	44.32		4,306.19	11,727
	Silver Star	A) 15.34		776.07	13,145
	"	B) 1.52		75.02	1,840
	Stormy Galore	151.03	4.840	10,526.54	8,906
1886	Carrie Leonard	140.48		15,519.28	66,722
	Dorgan	76.54		1,487.50	16,640
	King of the West	15.47		1,683.23	5,492
	Silver Star	194.81		13,254.11	40,162
	Wild West	1.05		34.33	619
1887	Silver Star	43.48		2,396.17	8,067
1888	Silver Star	B) 265.72	57.415	9,784.07	77,475
	"	A) 5.03		743.08	1,118
1889	Silver Star	2.17		322.32	1,118
(A)--Crude Ore (B)--Concentrates			62.255	110,115.07	382,664

Early Production of the Buttercup Mine, Willow Creek District, and the Ketchum Smelter (from records of E. Daft, Hailey, Idaho)

Year	Ore (Dry Tons)	Gold (ounces)	Silver (ounces)	Lead (Pounds)	Zinc (Pounds)
1886	2.07		131.1	2,726	
1888	14.09		1,275.1	15,442	
1889	74.04		5,241.5	73,210	
1891	123.90	7.11	5,535.6	113,888	19,913
1892	361.38		23,254.6	489,358	
1893	85.53		5,001.2	110,240	
	611.01	7.11	42,439.1	803,874	19,913



GEOLOGIC SKETCH MAP OF THE LITTLE SMOKY AND WILLOW CREEK MINING DISTRICT, CAMAS COUNTY, IDAHO

BY CLYDE P. ROSS ASSISTED BY V. E. SCHIED.

JUNE, 1929

Base adapted from U.S.G.S map of Sawtooth quadrangle and Forest Service map of Sawtooth National Forest, with revision as to roads.

FIGURE 1

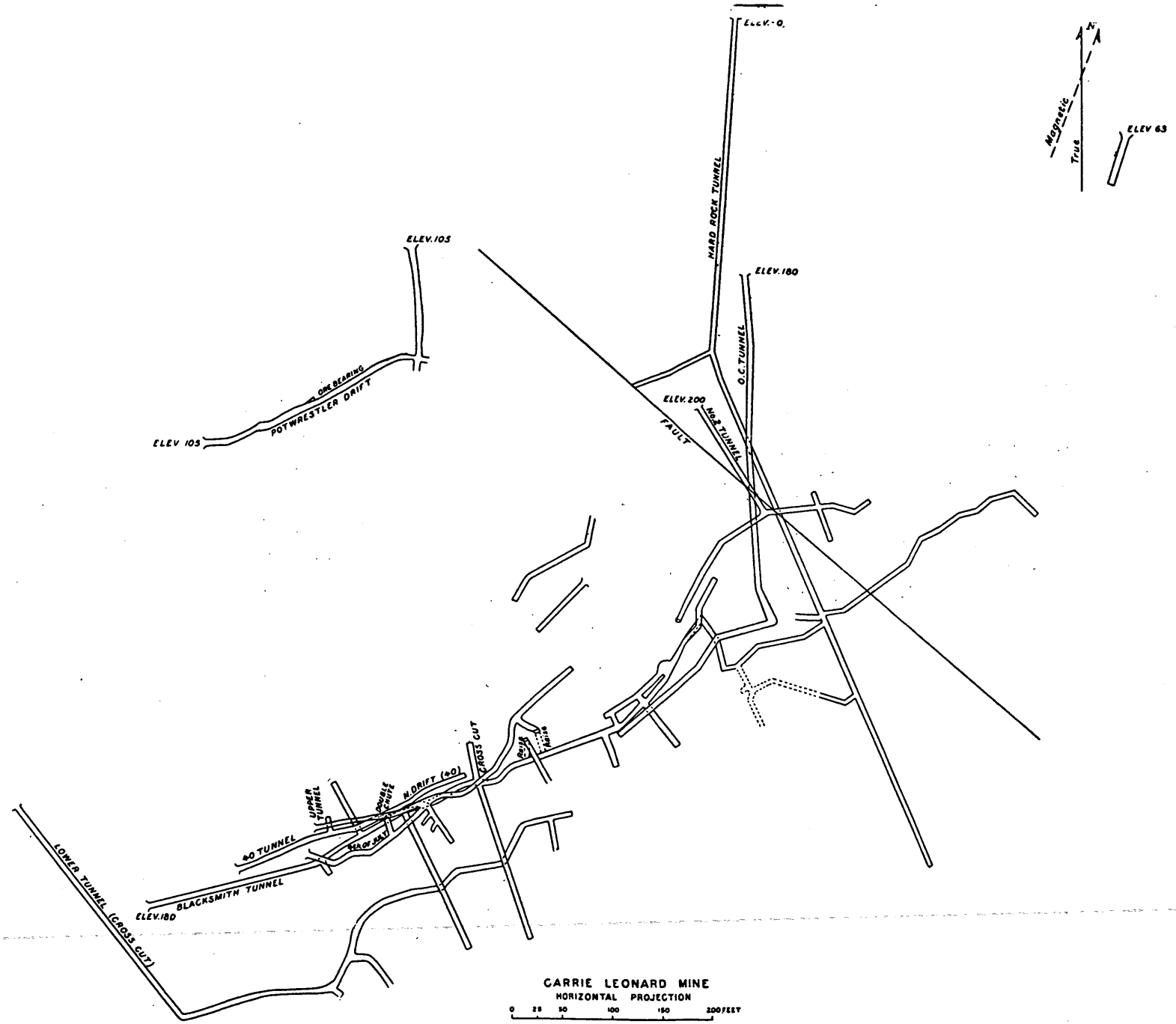
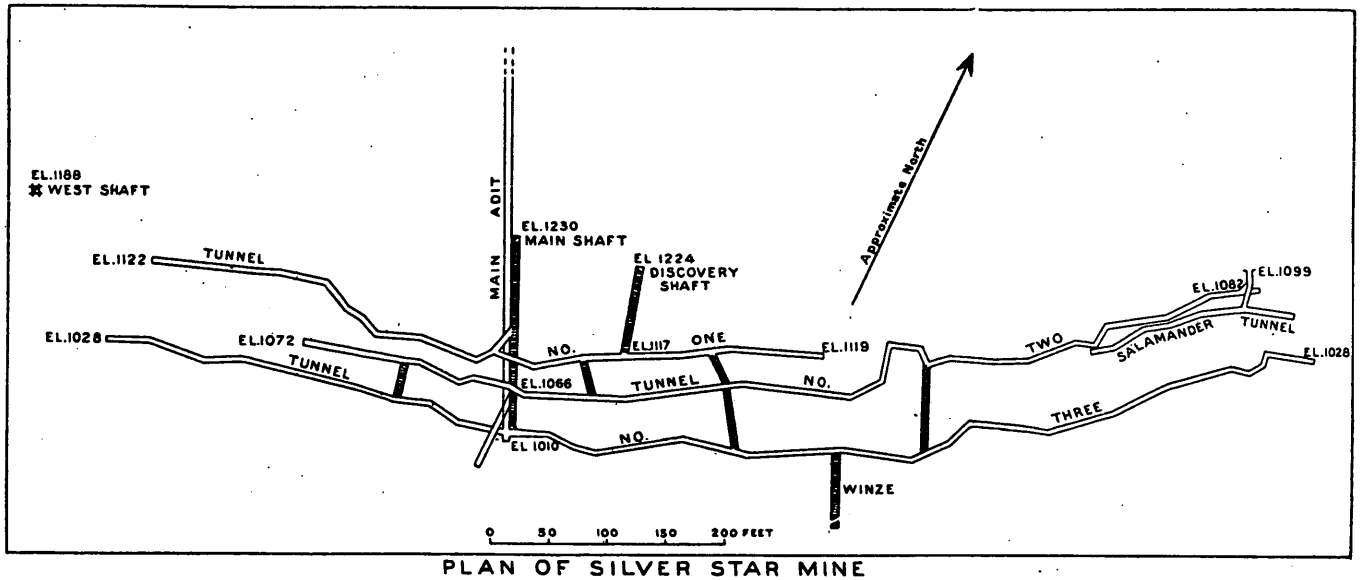
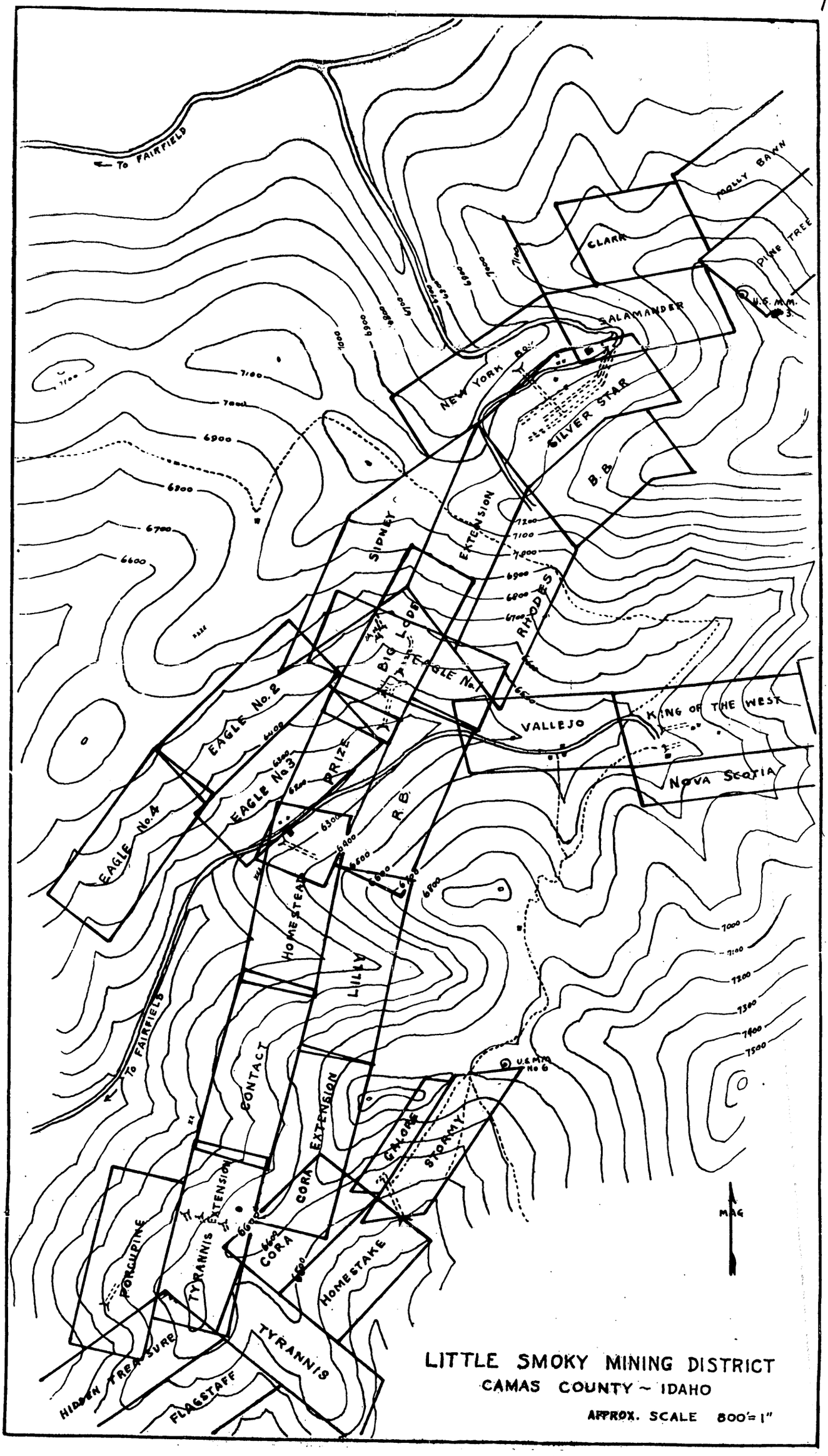

ELEV.-0.
HARD ROCK TUNNEL
ELEV.180
O.C. TUNNEL
ELEV.200
No.2 TUNNEL
FAULT
ELEV.105
ORE BEARING
POTWRESTLER DRIFT
ELEV 105
N
Magnetic
True
ELEV 63
CROSS CUT
N. DRIFT (40)
DOUBLE CHUTE
UPPER TUNNEL
40 TUNNEL
BLACKSMITH TUNNEL
ELEV.180
LOWER TUNNEL (CROSS CUT)
CARRIE LEONARD MINE
HORIZONTAL PROJECTION
0 25 50 100 150 200 FEET

FIGURE 2



PLAN OF SILVER STAR MINE
SURVEYED BY JOHN B HASTINGS 1884-87
Elevations are from arbitrary datum, not sea level

FIGURE 3


To FAIRFIELD
MOLLY BAWN
CLARK
PINE TREE
U.F.M.M. No 3
SALAMANDER
NEW YORK
SILVER STAR
B.B.
SIDNEY
EXTENSION
RHODES
BIG LODE
EAGLE No. 1
EAGLE No. 2
EAGLE No. 3
EAGLE No. 4
PRIZE
VALLEJO
KING OF THE WEST
Nova Scotia
R.B.
HOMESTEAD
LILLY
CONTACT
EXTENSION
U.S.M.M. No 6
GALORE
STORMY
CORA
TYRANNIS EXTENSION
PORCUPINE
HOMESTAKE
TYRANNIS
HIDDEN TREASURE
FLAGSTAFF
To FAIRFIELD
MAG
LITTLE SMOKY MINING DISTRICT
CAMAS COUNTY ~ IDAHO
APPROX. SCALE 800'=1"

The

Little Smoky

and

Willow Creek

Mining Districts

of

Camas County, Idaho

THIS PAMPHLET PRINTED AND PUBLISHED BY THE CAMAS PRESS, COMMERCIAL PRINTING DIVISION OF THE CAMAS COUNTY COURIER, IN THE INTEREST OF INFORMING THE NATION'S MINING INTERESTS OF CAMAS COUNTY'S MINERAL WEALTH.

FAIRFIELD, IDAHO, 1948

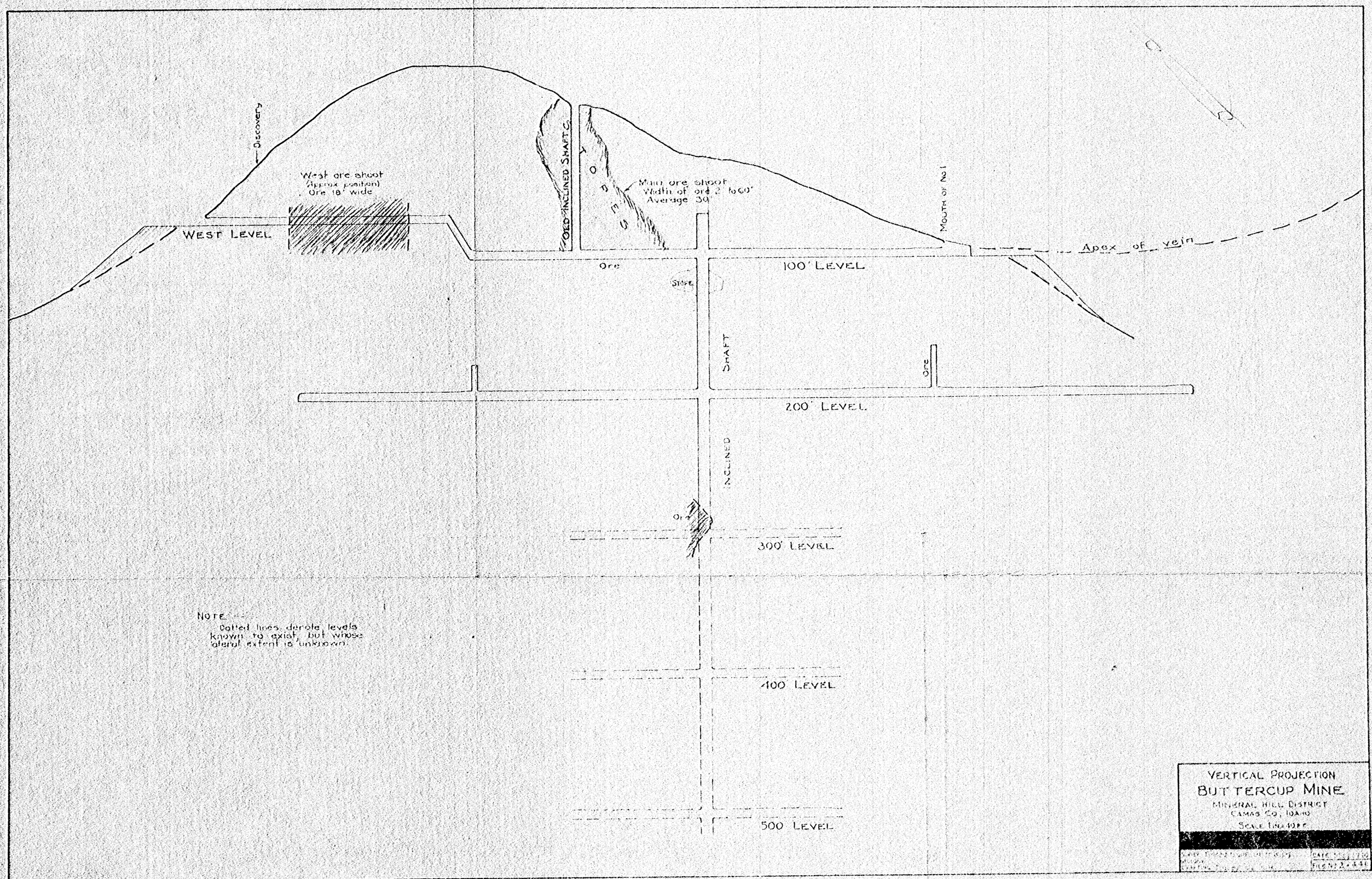
Price, $1.00 Per Copy

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

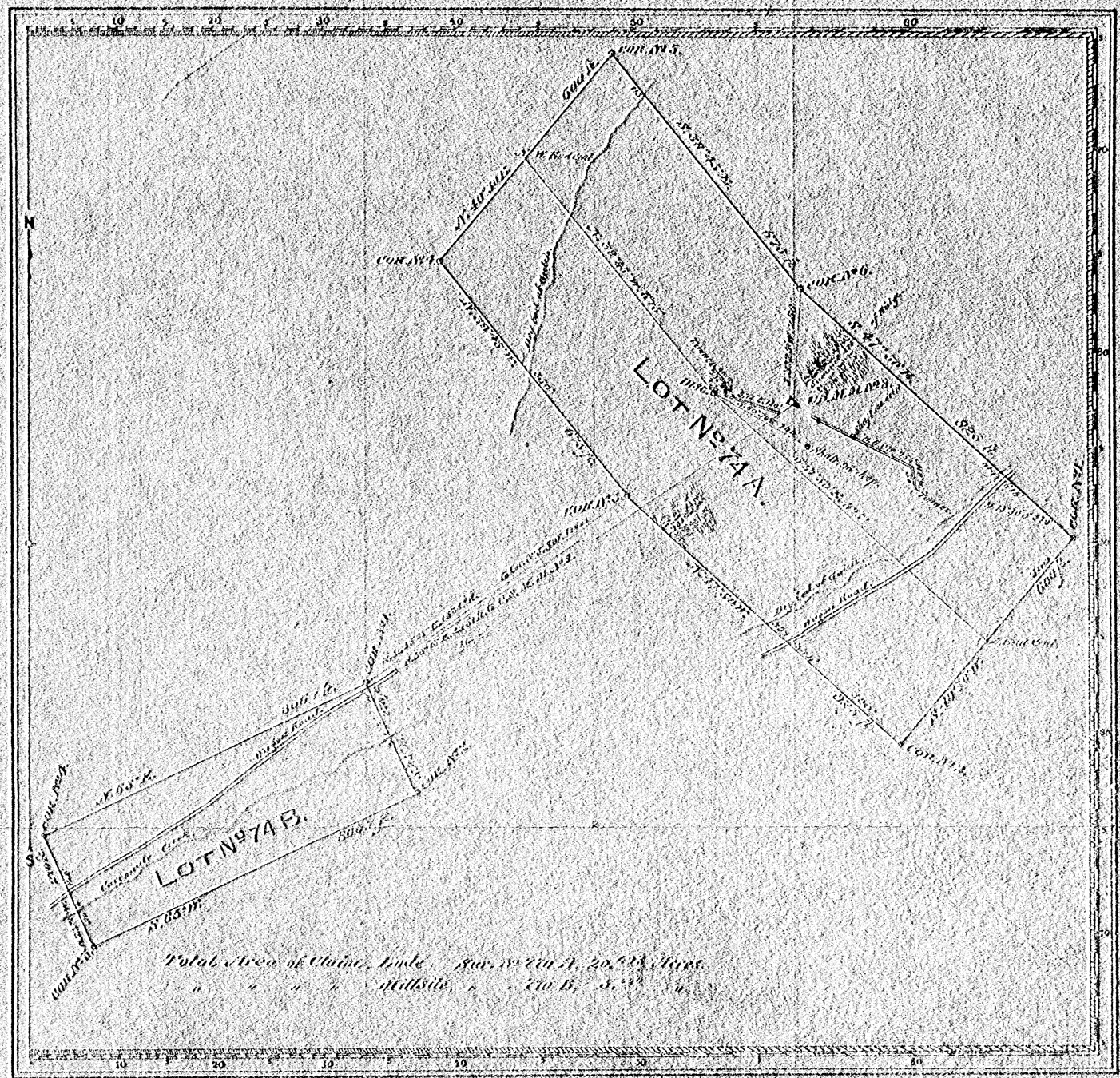
OFFICIAL BUSINESS
U. S. GEOLOGICAL SURVEY
SOUTH 157 HOWARD ST.
SPOKANE 4, WASHINGTON

SPOKANE
APR 22
7 PM
1954
WASH.

Mr. George C. Selfridge, Chairman
Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.


Discovery
West ore shoot
(approx position)
Ore 18' wide
WEST LEVEL
OLD INCLINED SHAFT
Main ore shoot
Width of ore 2' to 60'
Average 30'
MOUTH OF No 1
Apex of vein
Ore
STOPE
100' LEVEL
SHAFT
Ore
200' LEVEL
INCLINED
Ore
300' LEVEL
400' LEVEL
500' LEVEL
NOTE --
Dotted lines denote levels known to exist, but whose lateral extent is unknown.
VERTICAL PROJECTION
BUTTERCUP MINE
MINERAL HILL DISTRICT
CAMAS CO., IDAHO
SCALE 1 IN. = 40 FT.

(4-675)



Claim located Lode and Millsite, May 24, 1889.

Mineral Survey No. 770 A & B.

Lot No. 74 A & B.

Hailey Land District.

PLAT

OF THE CLAIM OF

T. H. Newberry and R. T. Gibbons.

KNOWN AS THE

BUTTERCUP LODE AND MILL-SITE.

IN MINERAL HILL MINING DISTRICT,

ALTURAS COUNTY, IDAHO.

Containing an Area of { Lode 20.661 / Mill-site 5.000 } Acres.

Scale of 200 Feet to the inch.

Variation 19.70° East.

SURVEYED June 18-19, 1889, BY

Frank C. Mondell,

U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of T. H. Newberry and R. T. Gibbons, known as the "BUTTERCUP" LODE and MILL-SITE, from which this plat has been made under my direction, have been examined and approved, and are on file in this Office; and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

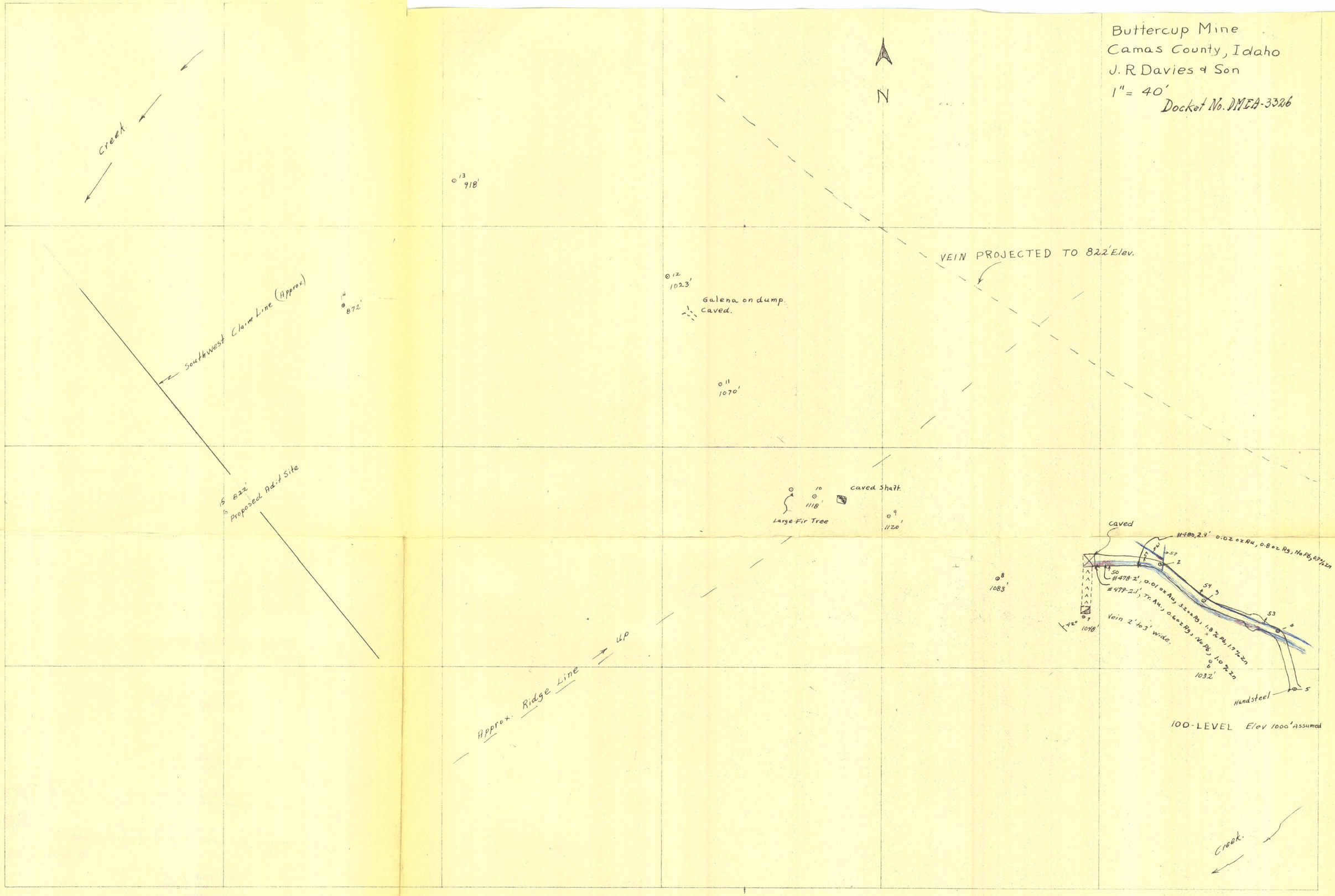
I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by the claimants or their grantors, and that said improvements consist of two tunnels aggregating [illegible] feet, a shaft two feet deep and a shaft [illegible] feet deep as appears by the report of the deputy surveyor and the affidavit of two disinterested witnesses; that the location of said improvements is correctly shown on this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office, Boise City, Idaho, September 14, 1889.

Joseph B. Strauchan

U.S. Surveyor General for Idaho.

PATENT O

Buttercup Mine
Camas County, Idaho
J. R Davies & Son
1" = 40'
Docket No. DMEA-3326