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

Defense Minerals Administration
RECEIVED
JAN 29 1954

January 28, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3197, Bellevue-Rochester tunnel, Schamner Mining Company, Clear Creek County, Colorado

I have reviewed the subject report and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the Field Team in denial of the application involved under the subject docket.

The report has been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

H. D. Keiser

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 29 1954

January 26, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3197, Bellevue-Rochester tunnel, Schamper Mining Company, Clear Creek County, Colorado

I have reviewed the subject report and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the Field Team in denial of the application involved under the subject docket.

The report has been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

Signed
H. D. Keiser

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: January 21, 1954

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Report of examination, Docket No. DMEA 3197 (Uranium), Shamner Mining Company, applicant, Idaho Springs, Colorado; Bellevue-Rochester tunnel, Sec. 26, T. 3 S., R. 74 W., Clear Creek County, Colorado

Data presented in the Field Team report on the property identified in the subject above indicates that only small quantities of uranium ore are likely to be discovered as a result of the proposed exploration of a small pitchblende vein sub-parallel to the main Bellevue vein. The application was, therefore, denied in Region IV. I concur with the denial.

Copies to: E. Wm. Ellis (2)

Arthur P. Butler, Jr.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 30 1953

224 New Customhouse
Denver 2, Colorado

December 17, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3197 (Uranium), Bellevue-Rochester tunnel, Schamner Mining Company, Clear Creek County, Colorado.

Enclosed are four copies of the report of examination on the subject property, a copy of the letter of denial to the applicant, and two copies of Form 3b.

W. H. King
W. H. King

E. N. Hardman
for A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-6-54
(date)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 30 1953

224 New Customhouse
Denver 2, Colorado

December 17, 1953.

Mr. R. J. Fooks
Schamner Mining Company
P. O. Box 577
Idaho Springs, Colorado

Re: Docket No. DMEA-3197

Dear Mr. Fooks:

Reference is made to your application for Government aid on the Bellevue-Rochester Tunnel.

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

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves of Uranium is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W H King
W. H. King
Field Team, Region IV

HMC:cwm
WMTraver
cc: Docket
Administrator, DMEA
CETowle
AHKoschmann (2)
Chron.

E N Koschmann
for A. H. Koschmann
Field Team, Region IV

Entered by
DMEA OPERATING COMMITTEE
1-6-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Bureau of Mines Registration
RECEIVED
DEC 30 1953

Mining Division
Region IV

December 17, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - Docket No. DMEA-3197 (Uranium), Schsmner Mining Company, Bellevue-Rochester tunnel, Clear Creek County, Colorado.

Enclosed are nine copies of the engineering report of examination on the subject property.

The applicant requested $27,700.00 to rehabilitate the tunnel and complete 600 feet of new work.

The engineer examiner believes the work is not justified and recommends that the application be denied.

We concur in this recommendation.

W H King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-6-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 8, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3197, Bellevue-Rochester tunnel (Uranium), Schanner Mining Company, Clear Creek County, Colorado

Enclosed are the original and ten copies of the "Summary, Conclusions, and Recommendations," by M. H. Salsbury and E. N. Hershman, and of Salsbury's engineering report on the subject docket.

Salsbury concludes that the applicants' proposal is the logical exploratory program and that diamond drilling as suggested by the Atomic Energy Commission would be unsatisfactory except for geologic information because of the small targets. The small lenses of pitchblende likely to be discovered, as indicated by comparable deposits elsewhere in the area, will probably not justify the expenditure required for the work and denial of the loan request for $27,700.00 is recommended.

I concur with the conclusions and recommendations.

The area of the mine where drifting, raising, and winning after sinking a cave were requested is entirely inaccessible.

The brochure furnished with your memorandum of October 14, 1953, instructing us to prepare a suitable report, is also enclosed.

W. M. Graves

W. M. Graves

enclosures

as 10
DMEA 3197
DMEA Chron.

WMG/pmc

Reviewed by
DMEA OPERATING COMMITTEE
1-6-54
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

December 11, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3197, Schemner Mining Company, Clear Creek County, Colorado

Attached are 11 copies of the geologic report by E. N. Hershman covering DMEA Docket 3197, Schemner Mining Company, Clear Creek County, Colorado.

The applicant proposes to explore for uranium ore by rehabilitating the Bellevue-Rochester tunnel and by 400 feet of drifting, 100 feet of raising, and 100 feet of sinking on the "Hot" vein, at an estimated cost of $27,700.00.

Mr. Hershman concludes that, although small bodies of pitchblende ore might be discovered by the proposed exploration, production of ore would not be significant. He therefore recommends that the loan be denied.

I concur in this recommendation.

The brochure is enclosed.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
1-6-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3197

Bellevue-Rochester Tunnel

Schemmer Mining Company

Clear Creek County, Colorado

Uranium

M. H. Salsbury, Mining Engineer
Bureau of Mines

E. N. Harshman, Geologist
Geological Survey

November 23, 1953

Reviewed by
DMEA CHARTING COMMITTEE
1-6-54
(date)

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMBER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By M. H. Salsbury
Mining Engineer
Bureau of Mines

E. H. Harshman
Geologist
Geological Survey

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAUMER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By H. K. Salsbury and E. N. Harshman

The Bellevue-Rochester tunnel in Clear Creek County, Colo., was examined on November 9, 1953, by a Defense Minerals Exploration Administration Region IV examining team to investigate the application of the Schaumer Mining Company, Box 577, Idaho Springs, Colo., for Government-assisted exploration under docket 3197. A loan of $87,700.00--Government participation 90 percent, or $84,930.00--was sought for uranium exploration in a proposed project calling for rehabilitation and 600 feet of new work in the Bellevue-Rochester tunnel.

The Bellevue-Rochester mine is in an area of pre-Cambrian schist, gneiss, and pegmatite in the west-central part of the Colorado Front Range Mineral Belt. Pyrite, galena, sphalerite, carbonates, and minor amounts of pitchblende occur along a number of steeply dipping northeasterly striking fissure veins.

The Hot vein, proposed for exploration by the applicants, is reported to consist of a 3- to 5-foot shear zone containing sooty pitchblende along fractures in the vein. The vein has been explored for 50 feet along its strike and is reported to be a weak, somewhat discontinuous structure. This work exposed a body of pitchblende ore 10 feet long, averaging 2.8 wide and containing 0.54 percent U_3O_8.

The important sections of the mine, including the workings on the Hot vein which it is proposed to explore by 600 feet of drifting, raising, and winning through the Bellevue-Rochester tunnel, are inaccessible.

Conclusions were, therefore, necessarily based on information in a Geological Survey publication, a report on the property by the Atomic Energy Commission, and geological knowledge obtained from exploration of similar veins elsewhere in the area.

The Atomic Energy Commission report, RMO-640, recommended exploration of the property, but, considered under the requirements of the Defense Minerals Exploration Administration, the project does not offer a reasonable possibility for a significant discovery of uranium ore. Denial of the application is recommended.

SCHAMBER MINING COMPANY

CLEAR CREEK COUNTY, COLORADO

DMEA DOCKET 3197

Geologic Report

By E. N. Hershman
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
1-6-54
(date)

DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
RECEIVED
DEC 30 1953

SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

INTRODUCTION

The Schamner Mining Company, P. O. Box 577, Idaho Springs, Colorado, has applied for Government assistance, DMEA Docket 3107, to explore for uranium ore in the Bellevue-Rochester mine. The property is located in sec. 26, T. 3 S., R. 74 W., about 7 miles west of Idaho Springs, Clear Creek County, Colorado. It is situated on the steep south slope of Clear Creek canyon and is readily accessible from U. S. Highway 6 and 40.

The applicant proposes to explore for uranium ore by rehabilitating the Bellevue-Rochester tunnel and by 400 feet of drifting, 100 feet of raising, and 100 feet of sinking on the "Hot" vein (figure 1). The estimated cost of the proposed work is $27,700.00.

The Bellevue-Rochester tunnel is caved at a point about 670 feet from the portal, and an examination of the "Hot" vein is impossible. This report is based on discussions with members of the U. S. Geological Survey working in the area, discussions with members of the U. S. Atomic Energy Commission, and on data in RMO-640, an AEC report prepared when the "Hot" vein was accessible.

An examination of the surface and the accessible portion of the mine was made on November 9, 1953, in company with H. H. Salsbury of the U. S. Bureau of Mines and M. L. Sowell representing the applicant company.

It is concluded that although small bodies of pitchblende ore might be discovered by the proposed exploration, production of ore from the mine would not be significant. Denial of the requested loan is recommended.

reproduced in part as figure 1, the "Hot" vein is shown as a very weak somewhat discontinuous structure almost dying out in the east wall of the Bellevue-Rochester tunnel.

The conclusions of RMO-640 are as follows: "Pitchblende has been observed in the lower workings of the Bellevue-Rochester mine in several narrow and very limited exposures associated with pyrite, galena, and silver mineralization. Paragenitically pitchblende is closely related to the pyrite mineralization. No commercial ore shoots are indicated at this examination."

CONCLUSIONS AND RECOMMENDATIONS

From the available data on the occurrence of pitchblende in the Bellevue-Rochester mine, it is concluded that no significant deposits of pitchblende ore will be discovered by the proposed exploration on the "Hot" vein. The known ore shoot is of very limited lateral extent and is in a weak somewhat discontinuous vein. The occurrence is typical of the small erratic deposits of the Idaho Springs-Central City area which are interesting from the scientific viewpoint but individually have not proven significant as a source of fissionable material.

It is therefore recommended that the application for exploration assistance, DMEA Docket 3197, be denied.

REFERENCES

Baker, K. E.; Smith, L. E.; and Anderson, T. P. (1951): Examination of the Bellevue-Rochester mine, Clear Creek County, Colorado, U. S. Atomic Energy Commission RMP-640.

IMRA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMBER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau Of Mines

DRAA 3197

BELLEVUE-ROCHESTER TUNNEL
BOHEMIAN MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

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DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMMER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

ENGINEERING REPORT

By

M. M. Salsbury

INTRODUCTION

The Schammer Mining Company has applied for exploration assistance, DMEA 3197, to explore for uranium on a vein cut in the Bellevue-Rochester tunnel at an estimated cost of $27,700.00--Government participation 90 percent, or $24,930.00. The proposal calls for 400 feet of drifting, 100 feet of raising, and 100 feet of winning all on the same vein. An examination was made on November 9, 1953, by a Region IV Bureau of Mines and Geological Survey examining team. L. E. Smith, geologist, of the Atomic Energy Commission was consulted.

ACKNOWLEDGEMENTS

A conference was held with R. J. Fecks, Box 577, Idaho Springs, Colo., assistant treasurer for the applicants, and Merle L. Sowell, mine superintendent. Sowell accompanied the examining team on an inspection of the property.

Data on the general area was obtained from Geological Survey Professional Paper 94, by Edson S. Bastin and James M. Hill. A description of the Bellevue-Rochester mine is found on page 333 of that publication.

A report of an examination of the property, RMO-640, by K. E. Baker, L. E. Smith, and T. P. Anderson of the Atomic Energy Commission, made in October 1951 was referred to and L. E. Smith of the Commission's Denver field office was consulted.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property of the Schaumer Mining Company is located on the south side of the south fork of Clear Creek near the "Empire station" of the now-abandoned Colorado and Southern railroad.

It is 7 miles by surfaced highway U. S. 40 and a short connecting road from Idaho Springs, Colo., and 49 miles from Denver, Colo., the nearest major source of mining supplies.

The Bellevue-Rochester tunnel is just above the floor of the glaciated valley of Clear Creek at the base of a steep cliff which forms the valley wall at this point. There are other tunnels and a shaft higher on the mountain, which are not accessible by road at the present time.

The region, at an altitude of 8,000 to 9,000 feet, is one of cool summers and moderate winters. Average precipitation is low although there are occasionally severe storms of short duration both summer and winter. The tunnel portal is accessible at all times and operations can be carried on continuously without difficulty.

Transportation is by truck and bus lines traveling regular schedules west out of Denver over U. S. Highway 40.

Shipments from a Front Range uranium property, the Cherokee mine, near Fort Collins, Colo., first went to the Vitro Chemical Company, Salt Lake City, Utah, but later shipments were sent to the plant of the American

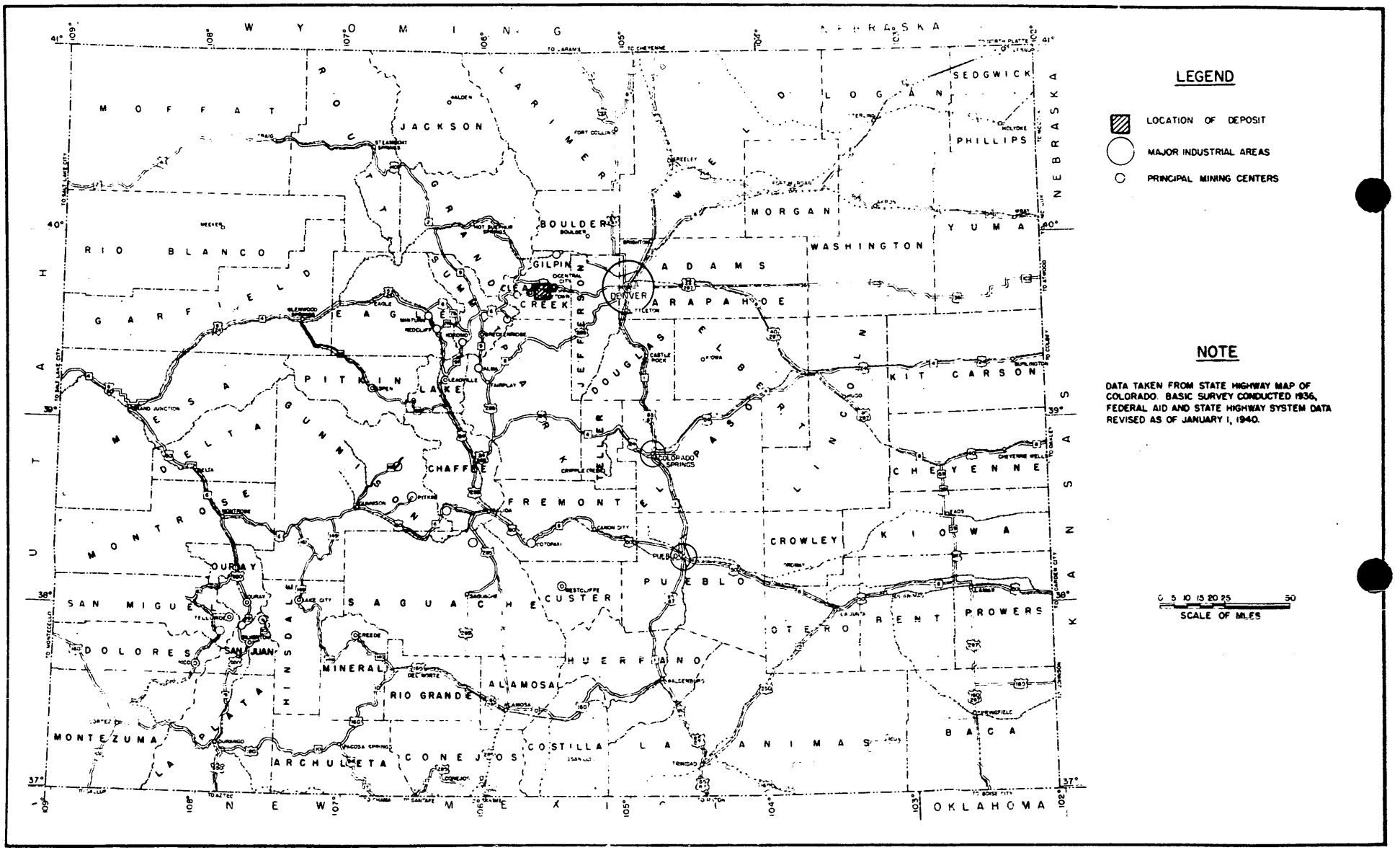

FIGURE 1. LOCATION MAP, BELLEVUE-ROCHESTER TUNNEL, SCHAMNER MINING COMPANY, CLEAR CREEK COUNTY, COLO. (DMEA 3137)

Smelting and Refining Company at Monticello, Utah. The freight from the railhead at Fort Collins to Monticello was paid by the Atomic Energy Commission, and the shipper received a hauling allowance of $0.06 per ton-mile for 25 miles from mine to railhead. It is expected that uranium shipments from the Idaho Springs area would be handled similarly. The distance from Clear Creek County mines to railheads at Golden, Colo., or Rollinsville, Colo., is 25 to 30 miles. Either of these points might be designated as the shipping point by the Atomic Energy Commission. The actual cost of hauling would be about double the $0.06 per ton-mile allowance.

Power is available on the property from a transformer station of the Public Service Company of Colorado.

There is an ample flow of water from the tunnel for mining requirements.

Timber and lumber are obtainable from local sources. The applicant probably has enough timber on hand to complete the proposed work.

There is a limited supply of mine labor available in the area. A crew of two or three experienced men could be obtained without difficulty. There are living facilities in nearby towns and no housing at the job site would be necessary.

HISTORY, PRODUCTION, AND OWNERSHIP

The history of the Bellevue-Rochester group dates from the location of the first claim in 1886, 27 years after the first gold discovery at Idaho Springs. The ore contains silver, lead, and zinc, as well as uranium, but was mined in the early days primarily for the high silver

content. The mine was idle from 1896 to 1937 but has been worked intermittently since that time. The most recent operation, an extension of the Bellevue-Rochester tunnel, which cut the vein it is now proposed to explore, was suspended in July 1950 after a disagreement among the stockholders. The total production of the property is not known but has probably been substantial. Most of it was mined in the first 500 feet from surface prior to 1896. A few small high-grade lots assaying as much as 1,892 ounces silver per ton with 44 percent lead were recorded. Shipments of 5 to 12 tons assayed as high as 60 ounces silver per ton and 37 percent lead. The zinc and uranium content of the early production was not recorded.

After 1937, production came from the lower levels where the silver content was from 12 to 54 ounces per ton with 4 to 31 percent lead and 3 to 14 percent zinc, according to Geological Survey Professional Paper 94. No uranium content was given, although pitchblende had been noted in the mines of Clear Creek County during this period and was mentioned in the Geological Survey publication.

The applicant, Schamner Mining Company, a Colorado corporation, lists 21 patented and 27 located lode claims in secs. 26 and 27, T. 3 S., R. 74 W., as constituting their holdings. They state that difficulties with minority stockholders, which forced suspension of operations in 1950, have been settled. No check of the ownership of the property was made by the examining team.

MINEABLE ORE RESERVES

There are no mineable ore reserves on the property.

Only 4 samples out of 17 taken by the Atomic Energy Commission showed appreciable uranium content, as follows:

Sample number	Description	Width	Content percent U_3O_8
F5430	Footwall Bellevue vein, 95 feet west of main tunnel stringer 7 feet long - 1 to 2 inches wide	1.5 inches	8.0
F5112	Hot vein, just west of main tunnel, at east end of stringer 10 feet long and 2.8 feet wide	60.0 inches	0.18
F5134	Same location as F5112, west end of stringer	8.0 inches	3.87
F5113	Stringer west wall main tunnel, 18 feet north of Hot vein	1.5 inches	1.53

Sample F5430 on the Bellevue vein was also analyzed for silver and lead and returned 9.10 ounces silver per ton and 6.83 percent lead.

None of the sample locations were accessible to the examining team.

PRESENT STATUS

Exploration and Development

The property is developed by about 4,700 feet of lateral workings, including the Bellevue-Rochester tunnel, 1,700 feet in length, the Upper Bellevue tunnel, the Annamosa tunnel, and the Bellevue shaft. The Annamosa tunnel workings, high on the mountain, are reported to be partly accessible but were not examined. The first 670 feet of the Bellevue-Rochester tunnel, to the point where it is blocked by a cave-in at the Invincible drift, was

open. The remainder of the workings are inaccessible. The tunnel distances given in the physical description contained in the application are in error.

The obstruction in the Bellevue-Rochester tunnel does not appear to be serious. The caved muck has run into the level from a cave, or stope, on the vein directly over the crosscut, and the tunnel could be opened by mucking out the cave and placing timber for overhead protection above the level. The back of the cave, or stope, about 40 feet above the level, can be seen from the top of the muckpile and appears to be stable. There is a possibility of other caves further along the tunnel but none are known.

Mining and Milling Equipment and Other Facilities

The property is fully equipped with surface buildings, an ore bin, transformer substation, electrically driven compressor of 500-cubic-feet-per-minute capacity, Eimco 12-B loader, small battery locomotive, and 12 mine cars running on 18-inch gauge track. Also available are 2 serviceable drifting drills, 3 stopers, and a mounted sinking drill and auxiliary equipment for 2 drilling outfits. All of these items are located at the portal of the Bellevue-Rochester tunnel which is equipped with 12-pound rail and 4-inch or 2-inch air line in the tunnel crosscut. No other equipment would be needed for the proposed exploration except possibly a storage battery for the locomotive which has not been used or serviced since 1950. The worth of the old battery is questionable.

PROJECT PROPOSALS, WITH COSTS

The applicants propose the following exploration, all on the Hot vein:

200 feet of drifting southwest of the present southwest face - Estimated cost at $30.00 per foot	$ 6,000.00
200 feet of drifting northwest of the crosscut - Estimated cost at $30.00 per foot	6,000.00
100 feet of raising at the most favorable spot - Estimated cost at $40.00 per foot	4,000.00
100 feet of winzing at the most favorable spot - Estimated cost at $80.00 per foot	8,000.00
Tunnel rehabilitation, cleaning up the cave-in - Estimated cost	2,000.00
Repairs to equipment	300.00
Depreciation allowance on applicant's equipment	1,400.00
Total Estimated Cost	$27,700.00

The applicants' cost estimate was not itemized, but the unit costs appear to be in line with accepted costs for similar work. The depreciation allowance for the estimated $14,000.00 in equipment on hand is lower than the allowance would be under the Defense Minerals Exploration Administration formula. The ore bin included in the list of equipment furnished would not be allowable as an exploration item.

The estimated time for completion is 1 year.

No access roads, additional equipment, power, or water facilities would be required. Labor and supervision have been provided for.

PROPOSED FINANCING

The applicants state that they are able to provide their share of the estimated cost of $2,770.00.

CONCLUSION

The proposed work would be the best method of exploring the Hot vein. The results to be expected from diamond drilling such an area of probable, small, erratic deposits, as has been suggested, would hardly be conclusive. Drilling might have some value in delineating structure but this is already fairly well determined.

While exploration of the property, as recommended in the report made for the Atomic Energy Commission, may be in line with certain objectives, it cannot be justified under criteria of the Defense Minerals Exploration Administration. A reasonable possibility of finding a significant deposit of uranium is not indicated. The two small pockets of pitchblende located so far are not of commercial size, and there is no evidence to indicate that better ore can be found by further exploration. This conclusion is borne out by the known ore occurrences and the disappointing results of exploration elsewhere in Clear Creek and Gilpin Counties on similar veins.

RECOMMENDATIONS

Denial of the application for exploration assistance is recommended.

CC

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 30 1953

224 New Customhouse
Denver 2, Colorado

December 17, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3197 (Uranium), Bellevue-Rochester tunnel, Schamner Mining Company, Clear Creek County, Colorado.

Enclosed are four copies of the report of examination on the subject property, a copy of the letter of denial to the applicant, and two copies of Form 3b.

W H King
W. H. King

E. N. Hardman
for A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

December 17, 1953

Mr. R. J. Fooks
Schamner Mining Company
P. O. Box 577
Idaho Springs, Colorado

Dear Mr. Fooks:

Re: Docket No. DMEA-3197

Refernece is made to your application for Government aid on Bellevue-Rochester Tunnel.

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

A careful study of your property and data available to this Agency, reveals that the probability of disclosing mineable reserves of Uranium is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very Trust yours,

(SIGNED) S. H. King
W. H. King
Field Team, Region IV

(SIGNED) A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Bureau of Mines
RECEIVED
DEC 30 1953

Mining Division
Region IV

December 17, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - Docket No. DMEA-3197 (Uranium), Schamner Mining Company, Bellevue-Rochester tunnel, Clear Creek County, Colorado.

Enclosed are nine copies of the engineering report of examination on the subject property.

The applicant requested $27,700.00 to rehabilitate the tunnel and complete 600 feet of new work.

The engineer examiner believes the work is not justified and recommends that the application be denied.

We concur in this recommendation.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 8, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3197, Bellevue-Rochester tunnel (Uranium), Schaumer Mining Company, Clear Creek County, Colorado

Enclosed are the original and ten copies of the "Summary, Conclusions, and Recommendations," by M. M. Salsbury and E. W. Harshman, and of Salsbury's engineering report on the subject docket.

Salsbury concludes that the applicants' proposal is the logical exploratory program and that diamond drilling as suggested by the Atomic Energy Commission would be unsatisfactory except for geologic information because of the small targets. The small lenses of pitchblende likely to be discovered, as indicated by comparable deposits elsewhere in the area, will probably not justify the expenditure required for the work and denial of the loan request for $27,700.00 is recommended.

I concur with the conclusions and recommendations.

The area of the mine where drifting, raising, and winzing after clearing a cave were requested is entirely inaccessible.

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W. M. Traver

W. M. Traver

enclosures

cc XO
DMEA 3197
DMEA Chron.

WMT/pam

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

December 11, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3197, Schamner Mining Company, Clear Creek County, Colorado

Attached are 11 copies of the geologic report by E. N. Harshman covering DMEA Docket 3197, Schamner Mining Company, Clear Creek County, Colorado.

The applicant proposes to explore for uranium ore by rehabilitating the Bellevue-Rochester tunnel and by 400 feet of drifting, 100 feet of raising, and 100 feet of sinking on the "Hot" vein, at an estimated cost of $27,700.00.

Mr. Harshman concludes that, although small bodies of pitchblende ore might be discovered by the proposed exploration, production of ore would not be significant. He therefore recommends that the loan be denied.

I concur in this recommendation.

The brochure is enclosed.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3197

Bellevue-Rochester Tunnel

Schamner Mining Company

Clear Creek County, Colorado

Uranium

M. H. Salsbury, Mining Engineer
Bureau of Mines

E. N. Harshman, Geologist
Geological Survey

November 23, 1953

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By M. H. Salsbury
Mining Engineer
Bureau of Mines

E. N. Harshman
Geologist
Geological Survey

DMEA 3197

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 30 1953

BELLEVUE-ROCHESTER TUNNEL
SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By M. H. Salsbury and E. N. Harshman

The Bellevue-Rochester tunnel in Clear Creek County, Colo., was examined on November 9, 1953, by a Defense Minerals Exploration Administration Region IV examining team to investigate the application of the Schamner Mining Company, Box 577, Idaho Springs, Colo., for Government-assisted exploration under docket 3197. A loan of $27,700.00--Government particpation 90 percent, or $24,930.00--was sought for uranium exploration in a proposed project calling for rehabilitation and 600 feet of new work in the Bellevue-Rochester tunnel.

The Bellevue-Rochester mine is in an area of pre-Cambrian schist, gneiss, and pegmatite in the west-central part of the Colorado Front Range Mineral Belt. Pyrite, galena, sphalerite, carbonates, and minor amounts of pitchblende occur along a number of steeply dipping northeasterly striking fissure veins.

The Hot vein, proposed for exploration by the applicants, is reported to consist of a 3- to 5-foot shear zone containing sooty pitchblende along fractures in the vein. The vein has been explored for 50 feet along its strike and is reported to be a weak, somewhat discontinuous structure. This work exposed a body of pitchblende ore 10 feet long, averaging 2.8 wide and containing 0.54 percent U_3O_8.

The important sections of the mine, including the workings on the Hot vein which it is proposed to explore by 600 feet of drifting, raising, and winzing through the Bellevue-Rochester tunnel, are inaccessible.

Conclusions were, therefore, necessarily based on information in a Geological Survey publication, a report on the property by the Atomic Energy Commission, and geological knowledge obtained from exploration of similar veins elsewhere in the area.

The Atomic Energy Commission report, RMO-640, recommended exploration of the property, but, considered under the requirements of the Defense Minerals Exploration Administration, the project does not offer a reasonable possibility for a significant discovery of uranium ore. Denial of the application is recommended.

SCHAMNER MINING COMPANY

CLEAR CREEK COUNTY, COLORADO

DMEA DOCKET 3197

Geologic Report

By E. N. Harshman
U. S. Geological Survey

SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

INTRODUCTION

The Schamner Mining Company, P. O. Box 577, Idaho Springs, Colorado, has applied for Government assistance, DMEA Docket 3197, to explore for uranium ore in the Bellevue-Rochester mine. The property is located in sec. 26, T. 3 S., R. 74 W., about 7 miles west of Idaho Springs, Clear Creek County, Colorado. It is situated on the steep south slope of Clear Creek canyon and is readily accessible from U. S. Highway 6 and 40.

The applicant proposes to explore for uranium ore by rehabilitating the Bellevue-Rochester tunnel and by 400 feet of drifting, 100 feet of raising, and 100 feet of sinking on the "Hot" vein (figure 1). The estimated cost of the proposed work is $27,700.00.

The Bellevue-Rochester tunnel is caved at a point about 670 feet from the portal, and an examination of the "Hot" vein is impossible. This report is based on discussions with members of the U. S. Geological Survey working in the area, discussions with members of the U. S. Atomic Energy Commission, and on data in RMO-640, an AEC report prepared when the "Hot" vein was accessible.

An examination of the surface and the accessible portion of the mine was made on November 9, 1953, in company with M. H. Salsbury of the U. S. Bureau of Mines and M. L. Sowell representing the applicant company.

It is concluded that although small bodies of pitchblende ore might be discovered by the proposed exploration, production of ore from the mine would not be significant. Denial of the requested loan is recommended.

GEOLOGY

The Bellevue-Rochester property is located in a area of pre-Cambrian schist, gneiss, pegmatite, and aplite in the west central part of the Colorado Front Range Mineral Belt. The Bellevue vein, the principal vein in the mine, has been exposed by 3 adits over a vertical distance of about 1,000 feet. It strikes N. 55° E., dips 80° N., and consists of several inches to 4 feet of sheared brecciated wall rock with a small amount of vein-filling material. Vein minerals are pyrite, galena, sphalerite, quartz, carbonate minerals, and very minor amounts of pitchblende.

A number of minor veins parallel the Bellevue vein. They range in width from a few inches to several feet. Their mineralogy is similar to that of the Bellevue vein. One of these parallel veins, the "Hot" vein, is proposed for exploration.

The "Hot" vein is located near the south end of the Bellevue-Rochester tunnel (figure 1). It is reported to consist of 3 to 5 feet of sheared and altered biotite gneiss containing pyrite, galena, sphalerite, pitchblende, quartz, dolomite, calcite, siderite, and barite. Pitchblende occurs as a sooty coating and as an earthy deposit along fractures in the vein. The vein strikes N. 40° E., dips 80° S., and has been explored for about 50 feet southwest from the Bellevue-Rochester tunnel. A small parallel vein, containing some pitchblende, is exposed in the walls of the Bellevue-Rochester tunnel about 15 feet northwest of the "Hot" vein.

The pitchblende occurrence in the "Hot" vein is reported in RMO-640 to have a length of about 10 feet, an average width of 2.8 feet, and an average assay of 0.54% U_3O_8. On Plate 2 accompanying RMO-640

reproduced in part as figure 1, the "Hot" vein is shown as a very weak somewhat discontinuous structure almost dying out in the east wall of the Bellevue-Rochester tunnel.

The conclusions of RMO-640 are as follows: "Pitchblende has been observed in the lower workings of the Bellevue-Rochester mine in several narrow and very limited exposures associated with pyrite, galena, and silver mineralization. Paragenitically pitchblende is closely related to the pyrite mineralization. No commercial ore shoots are indicated at this examination."

CONCLUSIONS AND RECOMMENDATIONS

From the available data on the occurrence of pitchblende in the Bellevue-Rochester mine, it is concluded that no significant deposits of pitchblende ore will be discovered by the proposed exploration on the "Hot" vein. The known ore shoot is of very limited lateral extent and is in a weak somewhat discontinuous vein. The occurrence is typical of the small erratic deposits of the Idaho Springs-Central City area which are interesting from the scientific viewpoint but individually have not proven significant as a source of fissionable material.

It is therefore recommended that the application for exploration assistance, DMEA Docket 3197, be denied.

REFERENCES

Baker, K. E.; Smith, L. E.; and Anderson, T. P. (1951): Examination of the Bellevue-Rochester mine, Clear Creek,County, Colorado, U. S. Atomic Energy Commission RMP-640.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: OCT 28 1953

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Application DMEA Docket 3197 (Uranium), Schamner Mining Company, Idaho Springs, Colorado, applicant; Belebue-Rochester Mine, Sec. 26, T. 3 S., R. 74 W., Clear Creek County, Colorado

Region IV

Comment

The applicant, Schamner Mining Company, proposed 600 feet of underground exploration at an estimated cost of $27,700 to explore pitchblade-bearing veins exposed in the Bellevue-Rochester Tunnel. Some silver-lead ore has been produced from the applicant's property according to data available in files of the Geological Survey.

The Geological Survey is currently preparing an areal geologic map in the vicinity of the Bellevue-Rochester Tunnel and is examining nereby properties. The results of this work should be considered in fully evaluating the merits of the application.

In addition, the property was examined by personnel of the U. S. Atomic Energy Commission and the results reported in RMO-640, "Examination of the Bellevue-Rochester Mine, Clear Creek County, Colorado" by K. E. Baker, L. E. Smith, and T. P. Anderson. They report that small amounts of pitchblade occur in vein mineral composed, in part, of pyrite, quartz, carbonates, galena, and sphalerite. Although no commercial ore shoots were indicated by their work, a diamond drilling program was recommended to explore essentially the same gound in the Bellevue-Rochester Tunnel as proposed in the application.

Recommendations

1. I recommend that the application be forwarded to the Field Team for review and evaluation especially with respect to the general scope of the exploration and to the merits of diamond drilling in contrast to underground exploration.

2. I suggest that the field team consult with Paul K. Sims, U. S. Geological Survey, Charles Towle, U. S. Atomic Energy Commission, and with members of their staffs who have first-hand knowledge of the Bellevue-Rochester Tunnel.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)
1 cy. directly to Region IV

Mr. Ellis:

DMEA-3197

This became detached from Mr. Butler's memo of October 28, 1953 some place along the line and returned to our office. For your files.

Mrs. Graham, TEPCO, Denver

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV - 9 1953

11/5/53

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 9 1953

224 New Customhouse
Denver 2, Colorado

October 14, 1953

NOTED
OCT 19 1953
TEPCO
Butler

Mr. Arthur P. Butler, Jr.
U. S. Geological Survey
Denver Federal Center
Building 21 - Room 2
Denver, Colorado

Dear Mr. Butler:

In accordance with a letter dated October 6, 1953 from the Operating Committee, DMEA, we are enclosing a copy of the application of the Schamner Mining Company, Clear Creek County, Colorado.

Very truly yours,

John F. Shaw

John F. Shaw, for
W. H. King
Executive Officer, DMEA
Field Team, Region IV

Enclosure

GEOLOGICAL SURVEY
TEPCO
RECEIVED
OCT 19 1953
Denver

MF-102
(Revised April 1952)

Brother

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. DMEA-3197
Metal or Mineral
Date Received
Estimated Cost
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: Schamner Mining Company
Box 577
Idaho Springs
Colorado

R.G. Tate, Pres. Sec'y Treasurer and Accountant
M.T. Dowell

(*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. a Colorado Corporation

(*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. ~~see attached list~~
Answered with County Claim Maps, by Percy P. Barbour, County Surveyor and attached list.
Claims marked in "red" are property of this company

(*b*) State any mine name by which the property is known. Bellevue Rochester Tunnel

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
see answer in #3 attached

(*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 other than Taxes

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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.

(*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. See attached A. E. C. Survey maps and reports BMO 6 & 10

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Easily accessible, good roads, 7 miles west of Idaho Springs, Colo.

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

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which [illegible] wish to explore Pitchblende and other radio- active ores.

(*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. See attached

(*c*) The work will start within 30 days or less and be completed within 12 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. ~~[illegible]~~ See attached

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: attached

(*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.). ~~See attached~~ NONE

(*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. See attached

(*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. See attached

(*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. See attached

(*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. None

(*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)? Yes

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

[X] Money [X] 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 August 17th, 1953

Schamner Mining Company
(Applicant)

By [signature]
Mine Superintendent

[signature]
Asst. Treas & Accountant

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

Box 577 Idaho Springs Colo
R. J. Lotto

Supplement to
Form M. F. - 103 Application for Aid

1 (c) Pres. W. J. Schwieterman, Syracuse, Kansas
V. Pres. Anthony Stammen, 1203 First St, Dodge City, Kansas
Secy-Treas . F. M. Schwieterman, 909 So 12th St, Canon City, Colo.

3 - The following properties are held under Purchase Contract: Property consists of the following Lode Mining Claims: Bellevue #6456, Hudson #6903, Crown Point #7346, Crown Prince #6902, Homestake #7346, Annamosa #1674, Congress #145, Invincible #7122, Etna #899, Lost Treasure Extension #1682, Kohinoor #1241, 2/3 interest in the Emmett #2, Survey #6997, 1/3 interest in the Prince Albert #844, and the following unpatented Lode Mining Claims:
Scranton, Dewey, Albion, Hudson No. 1, Hudson No. 2, Hudson No. 3, Hudson No. 4, Crown Prince No. 1, Free Coinage, Rena, Lost Treasure, White Rose, Granite, Lady, Highland Chief, American Dollar Mint, Mammoth, Colorado, Colorado Central, Castle Rock, American Lady, Silver Star, Golden Gate, The Winning Hand, The Winning Hand No. 2, together with the Bellevue Rochester Tunnel Site, dump ground and mill site.
The following properties known as the Millington Group were purchased for cash:
Mattie B. #9050, Octave #13226, 2/3 Bengal #13225, 2/3 Calcutta #1242, 2/3 Great Mogul #1243, 2/3 Madras #1256, Silver Treasure #1240, and an unpatented claim of about 2½ acres and the Myrtle M. unpatented claim of about 3 acres, plus 2/3 interest in the Prince Albert #844.

4 - Under the management of Bellevue Mines, Inc. the old Bellevue Rochester Tunnel measuring 780 feet was driven another 870 feet, now measures 1650 feet from entrance to breast. About 40 feet from the breast we encountered a kidney of Pitchblende of about 100 pounds.
One sample assayed over 27½% ~~xxx~~ and another assayed over 28½% of U_3O_8.

4.B. incomplete records small production

4 (c) Your Field Office at Denver Federal Center have made maps and assays and have inspected the above operations frequently.
We were blocked from carrying on after July 15, 1950 by the minority interests in the Bellevue Mines, Inc., who had not invested $1.00 in the operation, while the Bellevue management had spent over $63,000.00, less approximately $23,000.00 for equipment, properties etc., or a net of $40,000.00 in their mining operations.
When the Pitchblende discovery was made the minority interests brought every conceivable legal action in an effort to get the property back.
This has all been cleared up now and the old Bellevue Mines has been liquidated and all equity in property, equipment, etc. has been transferred to the Schamber Mining Company.
The latter company needs Government assistance to carry forward the necessary exploratory work on this property.
Property produces lead-zinc, but not in commercial quantities, as yet.

~~5 (b) Your Field Office at Denver Federal Center has all necessary information asked for here.~~

R. J. Fooks 577 Idaho Spgs Colo

Supplement to
Form M. F. 103 Application for Aid

5 (b) Exploration Work to be done at Station 14 + 58 from portal of tunnel:

200 ft. of drifting on vein S.W. from tunnel	@30.00ft	$6000.00
200 ft. of drifting on vein N.E. from tunnel	@30.00ft	6000.00
100 ft. of raise Station 14 + 58, best spot	@40.00 ft	4000.00
100 ft. of winze Station 14 + 58, best spot	@80.00 ft	8000.00
		$ 24000.00

5 (d) Rupert J. Fooks of Idaho Springs, a mine accountant, has been and is still active in mining operations in the County for the past 17 years, will check on the work done under this Contract, counter-sign checks and keep the books and records of the Schamner Mining Company.
Merle L. Sowell of Idaho Springs, with a background of 18 years experience in mining and construction work. Recently Superintendent of Denver Water Board project, working under Mr. D. D. Gross, Chief Engineer.
Mr. Sowell is well qualified to direct the mining operations, as proposed in this Application.

6 (Estimate of Costs:
6 (b) below
6 (d) Operating Equipment owned by the Company:

1 - Ingersoll-Rand Imperial Type 10 Compressor, with motors, switches, etc. complete	$3750.00	
2 - Air Receivers	137.50	
1 - Stoper	250.00	
1 - Greensburg Pony Type storage battery Locomotive, complete, including, 1 - Mucking Machine and 12 roller bearing mine cars, for	4000.00	
1 - Welding Outfit	145.28	
2 - Gardner-Denver Stopers	565.00	
1 - Drifter	433.50	
Pipe, Rail, Hose, etc.	4218.72	
1 - Ore Bin	500.00	
Total:	$ 14000.00	
Use-allowance @ 10%, equals $1400.00 yearly		1400.00

6 (b) Prevailing wages in this area to be paid all workmen.

Superintendent, epr month	$ 450.00
Skilled labor, maximum of daily wage per day	14.00
Helpers, etc. minimum of daily wage per day	12.00

Adherence to wage and hour laws, Social Security, and State Compensation Insurance laws.
Estimated Crew per shift: 1 Machine man (driller) 1 Mucking Machine man, 1 Motorman, 1 Compressor man, 1 Helper.

6 (c) Powder, Fuse and Caps, small tools, Public Service Electric power for Compressoe and Locomotive, Machine repairs, timber supplies for timbering thru cave-ins and used in running raise and ~~drift~~ winze.

6 (e) Rehabilitation and Repairs:

Tunnel Rehabilitation - clean up 2 cave-ins	2000.00
Repairs to present Equipment	300.00
Total:	$ 27700.00

Supplement to
Form M. F. 103 - Application for Aid

6 (f) New Buildings, Improvements, etc. NONE

6 (g) Miscellaneous:
Accounting, workmen's compensation and employers liability insurance and payroll taxes are covered in cost price per foot of development work.

6 (h) Contingencies: NONE

7 (b) We are financially able and have the necessary equipment to start work at once. Will furnish proof of financial condition, if needed.

Signed: Schamner Mining Company

By Mark L. Sewell Mine Supt.

By R. J. Cox Asst. Treas. and Accountant

Box 577
Idaho Springs Colo

FILE COPY
SURNAME:

200

Adams
Selfridge
Johnson

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

OCT 22 1953

Mr. W. H. King
Executive Officer
Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3197 (Uranium)
Schamner Mining Company
Clear Creek County, Colorado

Dear Mr. King:

This will acknowledge receipt of a memorandum dated October 16, 1953, from Mr. John F. Shaw, transmitting an application for exploration assistance for uranium from the Schamner Mining Company.

This office received only one copy of the above application, and it is noted that a copy was sent to Mr. Arthur P. Butler, Jr., USGS Member of the Uranium Commodity Committee now stationed at the Federal Center near Denver. The procedure calls for submission of two copies of an application to this office, when such application is within the delegation of authority of Region IV. Upon receipt of two copies of an application for uranium, within the delegation of authority of Region IV, one copy is returned to you identifying the assigned docket number. In this instance, Docket No. DMEA-3197 has been assigned to the application of the Schamner Mining Company.

In a memorandum dated October 8, 1953, from the Operating Committee, you were informed of a change in procedure on the submission of applications for uranium to this office, in that Mr. Butler was to receive a copy of the application for review, as he did while in Washington, and return it to the Washington office with his usual memorandum. This procedure applies only to those uranium applications

received by you not within the delegation of authority of Region IV. There is no change in the procedure for handling applications for uranium within the delegation of authority of Region IV.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

MBL 10-22-53

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

REAdams/meb
10-21-53
cc to: Adm.Reading File
Mails & Files Br.
Oper.Comm.File

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

224 New Customhouse
Denver 2, Colorado

October 16, 1953.

10mfm 3197

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith is DMA Form 3a and MF-103 and supporting data pertaining to the following application for Government assistance in exploration work:

Schamner Mining Company (Uranium)
Box 577
Idaho Springs, Colorado

John F. Shaw
John F. Shaw
For W. H. King

Enclosures

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

October 19, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number DMEA-3197

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

DMEA-Schamner Mining Company

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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

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. DMEA-3197
Metal or Mineral
Date Received 10-19-53
Estimated Cost
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: Schamner Mining Company
Box 577
Idaho Springs
Colorado

R. J. Grobs, attorney-in-fact
and accountant
W. L. Sewell

(*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. a Colorado Corporation

(*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. ~~see attached list~~ Answered with County Claim Maps, by Percy P. Barbour, County Surveyor and attached list.
Claims marked in "red" are property of this company

(*b*) State any mine name by which the property is known. Bellevue Rochester Tunnel

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
see answer in #3 attached

(*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 other than Taxes

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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.

(*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. See attached A. E. C. Survey maps and reports, R/02-640

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Easily accessible, good roads, 7 miles west of Idaho Springs, Colo.

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

All available

16—66551-1

5. *The exploration project.*—State the mineral or minerals for which you wish to explore Pitchblende and other radio- active ores.

(*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. See attached

(*c*) The work will start within 30 days or less and be completed within 12 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. ~~See~~ See attached

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: attached

(*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.). ~~See attached~~ NONE

(*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. See attached

(*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. See attached

(*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. See attached

(*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. None

(*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)? Yes

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

[X] Money [X] 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 August 17th, 1953

Schamner Mining Company
(Applicant)

By

Mine Superintendent

Asst. Treas. & Accountant

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

R.O. Foote
Idaho Spgs Colo.

Supplement to
Form M. F. - 103 Application for Aid

1 (a) Pres. W. J. Schwieterman, Syracuse, Kansas
V. Pres. Anthony Stammen, 1203 First St, Dodge City, Kansas
Secy-Treas . F. M. Schwieterman, 909 So 12th St, Canon City, Colo.

3 - The following properties are held under Purchase Contract:
Property consists of the following Lode Mining Claims:
Bellevue #6456, Hudson #6903, Crown Point #7346, Crown Prince #6902, Homestake #7346, Annamosa #1674, Congress #145, Invincible #7122, Etna #899, Lost Treasure Extension #1682, Kohinoor #1241, 2/3 interest in the Emmett #2, Survey #6997, 1/3 interest in the Prince Albert #844, and the following unpatented Lode Mining Claims:
Scranton, Dewey, Albion, Hudson No. 1, Hudson No. 2, Hudson No. 3, Hudson No. 4, Crown Prince No. 1, Free Coinage, Rena, Lost Treasure, White Rose, Granite, Lady, Highland Chief, American Dollar Mint, Mammoth, Colorado, Colorado Central, Castle Rock, American Lady, Silver Star, Golden Gate, The Winning Hand, The Winning Hand No. 2, together with the Bellevue Rochester Tunnel Site, dump ground and mill site.
The following properties known as the Millington Group were purchased for cash:
Mattie B. #9050, Octave #13226, 2/3 Bengal #13225, 2/3 Calcutta #1242, 2/3 Great Mogul #1243, 2/3 Madras #1256, Silver Treasure #1240, and an unpatented claim of about 2½ acres and the Myrtle M. unpatented claim of about 3 acres, plus 2/3 interest in the Prince Albert #844.

4 - Under the management of Bellevue Mines, Inc. the old Bellevue Rochester Tunnel measuring 780 feet was driven another 870 feet, now measures 1650 feet from entrance to breast. About 40 feet from the breast we encountered a kidney of Pitchblende of about 100 pounds.
One sample assayed over 27½% and another assayed over 28½% of U_3O_8.

4-B incomplete records small production

4 (c) Your Field Office at Denver Federal Center have made maps and assays and have inspected the above operations frequently.
We were blocked from carrying on after July 15, 1950 by the minority interests in the Bellevue Mines, Inc., who had not invested $1.00 in the operation, while the Bellevue management had spent over $63,000.00, less approximately $23,000.00 for equipment, properties etc., or a net of $40,000.00 in their mining operations.
When the Pitchblende discovery was made the minority interests brought every conceivable legal action in an effort to get the property back.
This has all been cleared up now and the old Bellevue Mines has been liquidated and all equity in property, equipment, etc. has been transferred to the Schamber Mining Company.
The latter company needs Government assistance to carry forward the necessary exploratory work on this property.
Property produces lead-zinc, but not in commercial quantities, as yet.

~~5 (b) Your Field Office at Denver Federal Center has all necessary information asked for here.~~

... Supplement to
Form M. F. 103 Application for Aid

R.J. Fooks
Box 272
Idaho Springs, Colo

5 (b) Exploration Work to be done at Station 14 + 58 from portal of tunnel:

200 ft. of drifting on vein S.W. from tunnel	@30.00ft	$6000.00
200 ft. of drifting on vein N.E. from tunnel	@30.00ft	6000.00
100 ft. of raise Station 14 + 58, best spot	@40.00 ft	4000.00
100 ft. of winze Station 14 + 58, best spot	@80.00 ft	8000.00
		$ 24000.00

5 (d) Rupert J. Fooks of Idaho Springs, a mine accountant, has been and is still active in mining operations in the County for the past 17 years, will check on the work done under this Contract, counter-sign checks and keep the books and records of the Schamner Mining Company.
Merle L. Sowell of Idaho Springs, with a background of 18 years experience in mining and construction work. Recently Superintendent of Denver Water Board project, working under Mr. D. D. Gross, Chief Engineer.
Mr. Sowell is well qualified to direct the mining operations, as proposed in this Application.

6 (Estimate of Costs:
6 (b) below -
6 (d) Operating Equipment owned by the Company:

1 - Ingersoll-Rand Imperial Type 10 Compressor, with motors, switches, etc. complete	$3750.00	
2 - Air Receivers	137.50	
1 - Stoper	250.00	
1 - Greensburg Pony Type storage battery Locomotive, complete, including, 1 - Mucking Machine and 12 roller bearing mine cars, for	4000.00	
1 - Welding Outfit	145.28	
2 - Gardner-Denver Stopers	555.00	
1 - Drifter	433.50	
Pipe, Rail, Hose, etc.	4218.72	
1 - Ore Bin	500.00	
Total:	$ 14000.00	
Use-allowance @ 10%, equals $1400.00 yearly		1400.00

6 (b) Prevailing wages in this area to be paid all workmen.
Superintendent, epr month $ 450.00
Skilled labor, maximum of daily wage per day 14.00
Helpers, etc. minimum of daily wage per day 12.00
Adherence to wage and hour laws, Social Security, and State Compensation Insurance laws.
Estimated Crew per shift: 1 Machine man (driller) 1 Mucking Machine man, 1 Motorman, 1 Compressor man, 1 Helper.

6 (c) Powder, Fuse and Caps, small tools, Public Service Electric power for Compressoe and Locomotive, Machine repairs, timber supplies for timbering thru cave-ins and used in running raise and ~~drift~~ winze.

6 (e) Rehabilitation and Repairs:

Tunnel Rehabilitation - clean up 2 cave-ins	2000.00
Repairs to present Equipment	300.00
Total:	$ 27700.00

Supplement to
Form M. F. 103 - Application for Aid

6 (f) New Buildings, Improvements, etc. NONE

6 (g) Miscellaneous:
Accounting, workmen's compensation and employers liability insurance and payroll taxes are covered in cost price per foot of development work.

6 (h) Contingencies: NONE

7 (b) We are financially able and have the necessary equipment to start work at once. Will furnish proof of financial condition, if needed.

Signed: Schamner Mining Company

By [illegible] Mine Supt.

By [illegible] Asst. Treas. ~~and Accountant~~

Box 577
Idaho Springs Colo.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1953

224 New Customhouse
Denver 2, Colorado

October 16, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith is DMA Form 3a and NF-103 and supporting data pertaining to the following application for Government assistance in exploration work:

Schaumer Mining Company (Uranium)
Box 577
Idaho Springs, Colorado

John F. Shaw
John F. Shaw
For W. H. King

Enclosures

3197

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

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

Mr. George C. Selfridge, Chairman

Operating Committee

Defense Minerals Exploration Administration

Department of the Interior

Washington 25, D. C.

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau of Mines

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

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ILLUSTRATIONS

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1.	Location map, Bellevue-Rochester tunnel, Schamner Mining Company, Clear Creek County, Colo.	2

DMEA 3197

BELLEVUE-ROCHESTER TUNNEL
SCHAMNER MINING COMPANY
CLEAR CREEK COUNTY, COLORADO

ENGINEERING REPORT

By

M. H. Salsbury

INTRODUCTION

The Schamner Mining Company has applied for exploration assistance, DMEA 3197, to explore for uranium on a vein cut in the Bellevue-Rochester tunnel at an estimated cost of $27,700.00--Government participation 90 percent, or $24,930.00. The proposal calls for 400 feet of drifting, 100 feet of raising, and 100 feet of winzing all on the same vein. An examination was made on November 9, 1953, by a Region IV Bureau of Mines and Geological Survey examining team. L. E. Smith, geologist, of the Atomic Energy Commission was consulted.

ACKNOWLEDGEMENTS

A conference was held with R. J. Fooks, Box 577, Idaho Springs, Colo., assistant treasurer for the applicants, and Merle L. Sowell, mine superintendent. Sowell accompanied the examining team on an inspection of the property.

Data on the general area was obtained from Geological Survey Professional Paper 94, by Edson S. Bastin and James M. Hill. A description of the Bellevue-Rochester mine is found on page 333 of that publication.

A report of an examination of the property, RMO-640, by K. E. Baker, L. E. Smith, and T. P. Anderson of the Atomic Energy Commission, made in October 1951 was referred to and L. E. Smith of the Commission's Denver field office was consulted.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property of the Schamner Mining Company is located on the south side of the south fork of Clear Creek near the "Empire station" of the now-abandoned Colorado and Southern railroad.

It is 7 miles by surfaced highway U. S. 40 and a short connecting road from Idaho Springs, Colo., and 49 miles from Denver, Colo., the nearest major source of mining supplies.

The Bellevue-Rochester tunnel is just above the floor of the glaciated valley of Clear Creek at the base of a steep cliff which forms the valley wall at this point. There are other tunnels and a shaft higher on the mountain, which are not accessible by road at the present time.

The region, at an altitude of 8,000 to 9,000 feet, is one of cool summers and moderate winters. Average precipitation is low although there are occasionally severe storms of short duration both summer and winter. The tunnel portal is accessible at all times and operations can be carried on continuously without difficulty.

Transportation is by truck and bus lines traveling regular schedules west out of Denver over U. S. Highway 40.

Shipments from a Front Range uranium property, the Cherokee mine, near Fort Collins, Colo., first went to the Vitro Chemical Company, Salt Lake City, Utah, but later shipments were sent to the plant of the American

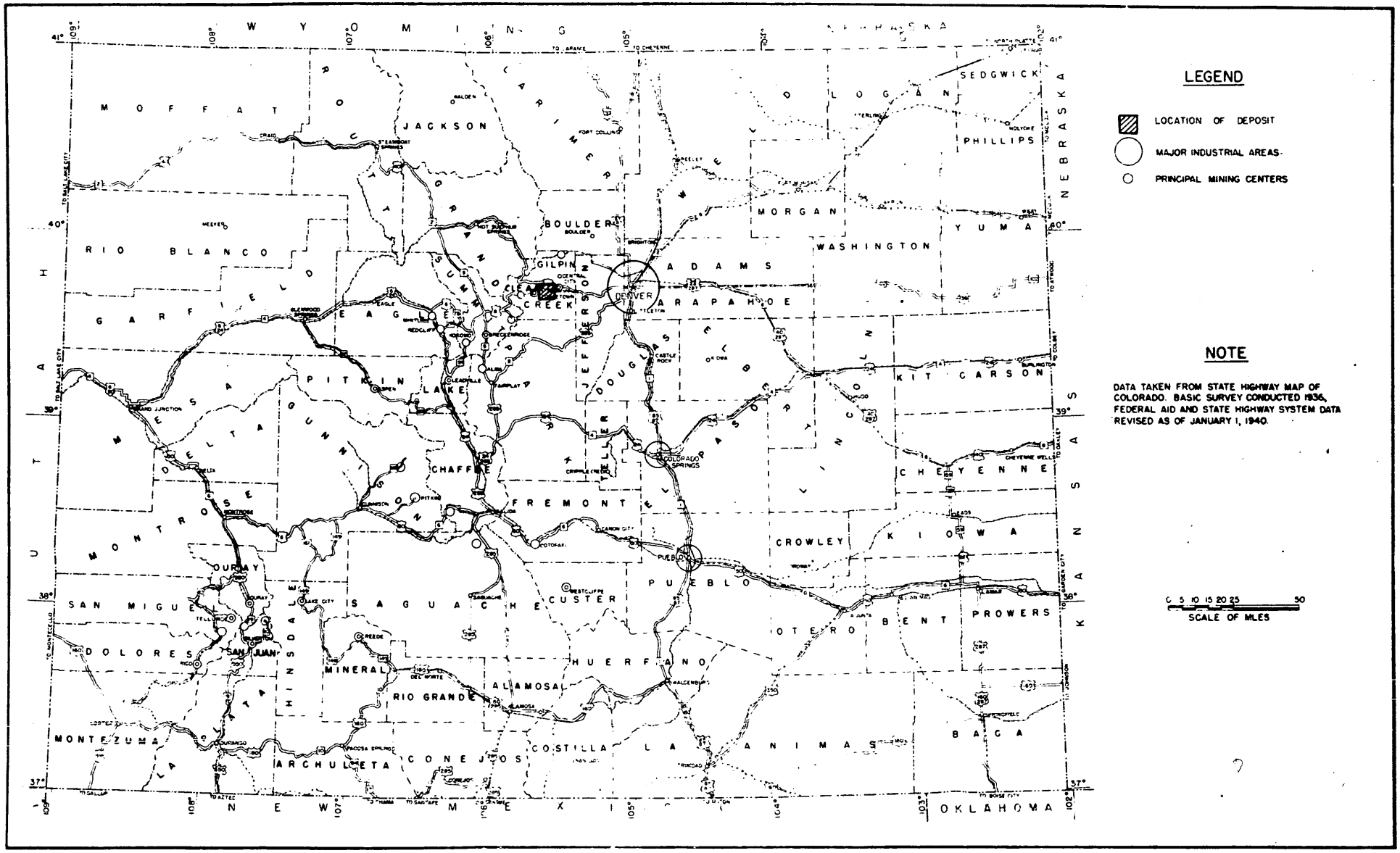


FIGURE 1. LOCATION MAP, BELLEVUE-ROCHESTER TUNNEL, SCHAMNER MINING COMPANY, CLEAR CREEK COUNTY, COLO. (DMEA 3197)

Smelting and Refining Company at Monticello, Utah, The freight from the railhead at Fort Collins to Monticello was paid by the Atomic Energy Commission, and the shipper received a hauling allowance of $0.06 per ton-mile for 25 miles from mine to railhead. It is expected that uranium shipments from the Idaho Springs area would be handled similarly. The distance from Clear Creek County mines to railheads at Golden, Colo., or Rollinsville, Colo., is 25 to 30 miles. Either of these points might be designated as the shipping point by the Atomic Energy Commission. The actual cost of hauling would be about double the $0.06 per ton-mile allowance.

Power is available on the property from a transformer station of the Public Service Company of Colorado.

There is an ample flow of water from the tunnel for mining requirements.

Timber and lumber are obtainable from local sources. The applicant probably has enough timber on hand to complete the proposed work.

There is a limited supply of mine labor available in the area. A crew of two or three experienced men could be obtained without difficulty. There are living facilities in nearby towns and no housing at the job site would be necessary.

HISTORY, PRODUCTION, AND OWNERSHIP

The history of the Bellevue-Rochester group dates from the location of the first claim in 1886, 27 years after the first gold discovery at Idaho Springs. The ore contains silver, lead, and zinc, as well as uranium, but was mined in the early days primarily for the high silver

content. The mine was idle from 1896 to 1907 but has been worked intermittently since that time. The most recent operation, an extension of the Bellevue-Rochester tunnel, which cut the vein it is now proposed to explore, was suspended in July 1950 after a disagreement among the stockholders. The total production of the property is not known but has probably been substantial. Most of it was mined in the first 500 feet from surface prior to 1896. A few small high-grade lots assaying as much as 1,892 ounces silver per ton with 44 percent lead were recorded. Shipments of 5 to 12 tons assayed as high as 60 ounces silver per ton and 37 percent lead. The zinc and uranium content of the early production was not recorded.

After 1907, production came from the lower levels where the silver content was from 12 to 54 ounces per ton with 4 to 31 percent lead and 3 to 14 percent zinc, according to Geological Survey Professional Paper 94. No uranium content was given, although pitchblende had been noted in the mines of Clear Creek County during this period and was mentioned in the Geological Survey publication.

The applicant, Schamner Mining Company, a Colorado corporation, lists 21 patented and 27 located lode claims in secs. 26 and 27, T. 3 S., R. 74 W., as constituting their holdings. They state that difficulties with minority stockholders, which forced suspension of operations in 1950, have been settled. No check of the ownership of the property was made by the examining team.

DESCRIPTION OF THE DEPOSITS

The deposits of the Bellevue-Rochester mine are typical fissure veins in the shear zones which occupy faults in the pre-Cambrian complex of schists, gneisses, pegmatites, and granites. The Bellevue vein is 970 feet from the portal of the Bellevue-Rochester tunnel. It is from a few inches to over 3 feet wide and is one of several parallel streaks making up a vein system. The chief vein minerals are pyrite, quartz, galena, sphalerite, and a minor amount of pitchblende, in a gangue made up of altered and crushed wall rock. Geological Survey Professional Paper 94 states that there were apparently at least two stages of mineralization with pitchblende having been deposited in the first stage.

The "Hot vein," the site of the proposed exploration project, was cut 1,465 feet from the portal of the Bellevue-Rochester tunnel or 240 feet from the present breast. It is similar to the Bellevue vein. Another stringer crosses the tunnel 18 feet north of the Hot vein. It contains a half-inch seam of pitchblende. The pitchblende in several veins is reported as occurring as a sooty coating, or an earthy deposit, along fractures. None of these exposures were accessible to the examining team. All of them are described on pages 6 and 7 of RMO-640, the report by the Atomic Energy Commission mentioned in the Acknowledgement section.

The tunnel is blocked at a point where a side drift, which Fooks calls the Invincible drift, intersects it. In the short accessible portion of a vein at this point and in several stringers cut between the cave and the portal no pitchblende could be identified by the examining team. Measurements made with a Geiger counter indicated radioactivity slightly in excess of the normal background count.

MINEABLE ORE RESERVES

There are no mineable ore reserves on the property.

Only 4 samples out of 17 taken by the Atomic Energy Commission showed appreciable uranium content, as follows:

Sample number	Description	Width	Content percent U_3O_8
F5430	Footwall Bellevue vein, 95 feet west of main tunnel stringer 7 feet long - 1 to 2 inches wide	1.5 inches	8.0
F5112	Hot vein, just west of main tunnel, at east end of stringer 10 feet long and 2.8 feet wide	60.0 inches	0.18
F5134	Same location as F5112, west end of stringer	8.0 inches	3.27
F5113	Stringer west wall main tunnel, 18 feet north of Hot vein	1.5 inches	1.53

Sample F5430 on the Bellevue vein was also analyzed for silver and lead and returned 9.10 ounces silver per ton and 6.83 percent lead.

None of the sample locations were accessible to the examining team.

PRESENT STATUS

Exploration and Development

The property is developed by about 4,700 feet of lateral workings, including the Bellevue-Rochester tunnel, 1,700 feet in length, the Upper Bellevue tunnel, the Annamosa tunnel, and the Bellevue shaft. The Annamosa tunnel workings, high on the mountain, are reported to be partly accessible but were not examined. The first 670 feet of the Bellevue-Rochester tunnel, to the point where it is blocked by a cave-in at the Invincible drift, was

open. The remainder of the workings are inaccessible. The tunnel distances given in the physical description contained in the application are in error.

The obstruction in the Bellevue-Rochester tunnel does not appear to be serious. The caved muck has run into the level from a cave, or stope, on the vein directly over the crosscut, and the tunnel could be opened by mucking out the cave and placing timber for overhead protection above the level. The back of the cave, or stope, about 40 feet above the level, can be seen from the top of the muckpile and appears to be stable. There is a possibility of other caves further along the tunnel but none are known.

Mining and Milling Equipment and Other Facilities

The property is fully equipped with surface buildings, an ore bin, transformer substation, electrically driven compressor of 500-cubic-feet-per-minute capacity, Eimco 12-B loader, small battery locomotive, and 12 mine cars running on 18-inch gauge track. Also available are 2 serviceable drifting drills, 3 stopers, and a mounted sinking drill and auxiliary equipment for 2 drilling outfits. All of these items are located at the portal of the Bellevue-Rochester tunnel which is equipped with 12-pound rail and 4-inch or 2-inch air line in the tunnel crosscut. No other equipment would be needed for the proposed exploration except possibly a storage battery for the locomotive which has not been used or serviced since 1950. The worth of the old battery is questionable.

PROJECT PROPOSALS, WITH COSTS

The applicants propose the following exploration, all on the Hot vein:

200 feet of drifting southwest of the present southwest face - Estimated cost at $30.00 per foot	$ 6,000.00
200 feet of drifting northwest of the cross-cut - Estimated cost at $30.00 per foot	6,000.00
100 feet of raising at the most favorable spot - Estimated cost at $40.00 per foot	4,000.00
100 feet of winzing at the most favorable spot - Estimated cost at $80.00 per foot	8,000.00
Tunnel rehabilitation, cleaning up the cave-in - Estimated cost	2,000.00
Repairs to equipment	300.00
Depreciation allowance on applicant's equipment	1,400.00
Total Estimated Cost	$27,700.00

The applicants' cost estimate was not itemized, but the unit costs appear to be in line with accepted costs for similar work. The depreciation allowance for the estimated $14,000.00 in equipment on hand is lower than the allowance would be under the Defense Minerals Exploration Administration formula. The ore bin included in the list of equipment furnished would not be allowable as an exploration item.

The estimated time for completion is 1 year.

No access roads, additional equipment, power, or water facilities would be required. Labor and supervision have been provided for.

PROPOSED FINANCING

The applicants state that they are able to provide their share of the estimated cost of $2,770.00.

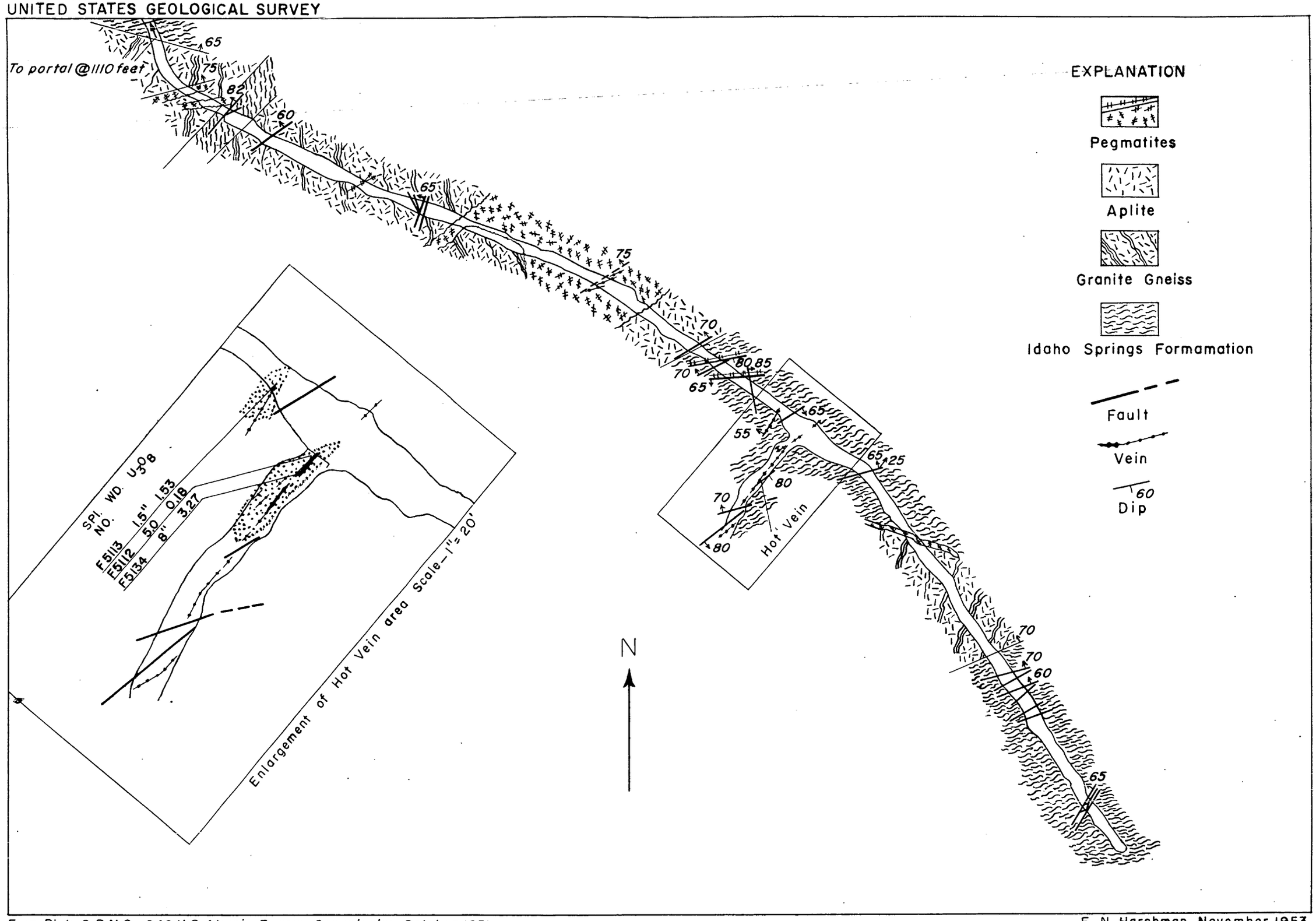
CONCLUSIONS

The proposed work would be the best method of exploring the Hot vein. The results to be expected from diamond drilling such an area of probable, small, erratic deposits, as has been suggested, would hardly be conclusive. Drilling might have some value in delineating structure but this is already fairly well determined.

While exploration of the property, as recommended in the report made for the Atomic Energy Commission, may be in line with certain objectives, it cannot be justified under criteria of the Defense Minerals Exploration Administration. A reasonable possibility of finding a significant deposit of uranium is not indicated. The two small pockets of pitchblende located so far are not of commercial size, and there is no evidence to indicate that better ore can be found by further exploration. This conclusion is borne out by the known ore occurrences and the disappointing results of exploration elsewhere in Clear Creek and Gilpin Counties on similar veins.

RECOMMENDATIONS

Denial of the application for exploration assistance is recommended.

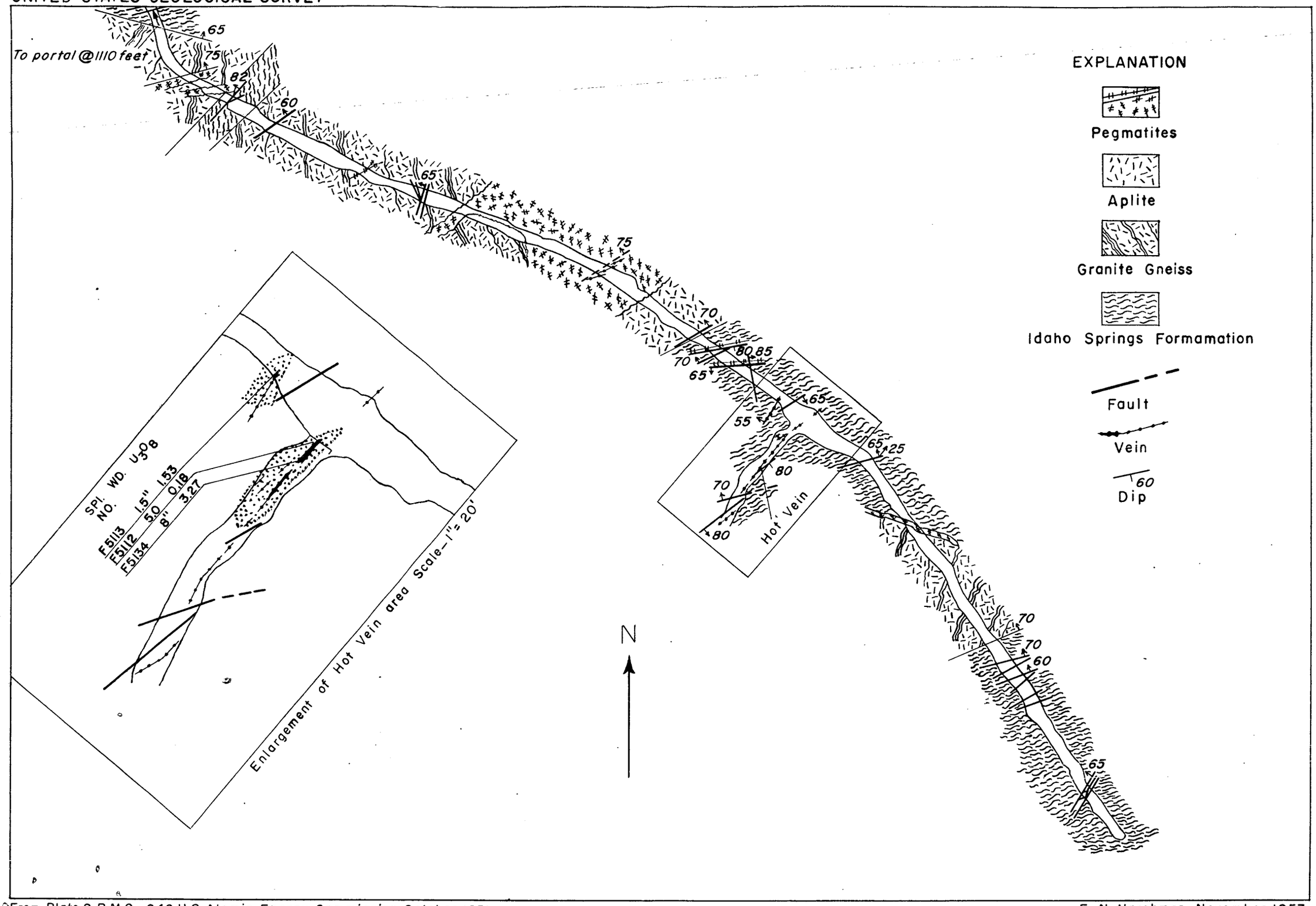


From Plate 2 R.M.O.-640 U.S. Atomic Energy Commission October 1951.

E. N. Harshman, November 1953.

FIGURE 1.- GEOLOGIC PLAN OF A PORTION OF BELEVUE-ROCHESTER TUNNEL SHAMNER MINING CO, CLEAR CREEK COUNTY, COLORADO.

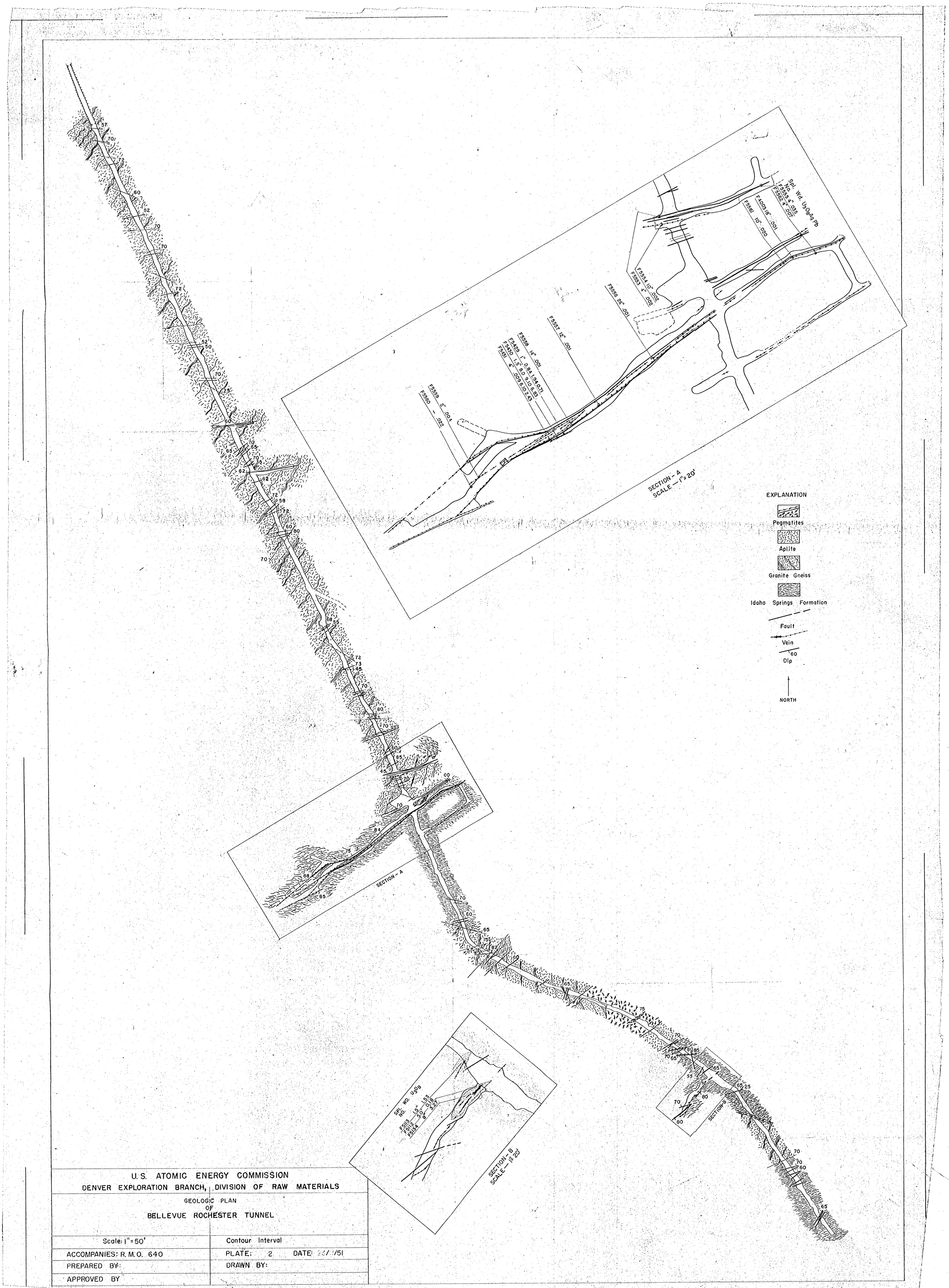
50 0 50 100 Feet



From Plate 2 R.M.O.-640 U.S. Atomic Energy Commission October 1951.

E. N. Harshman, November 1953.

FIGURE 1.- GEOLOGIC PLAN OF A PORTION OF BELEVUE-ROCHESTER TUNNEL SHAMNER MINING CO, CLEAR CREEK COUNTY, COLORADO.



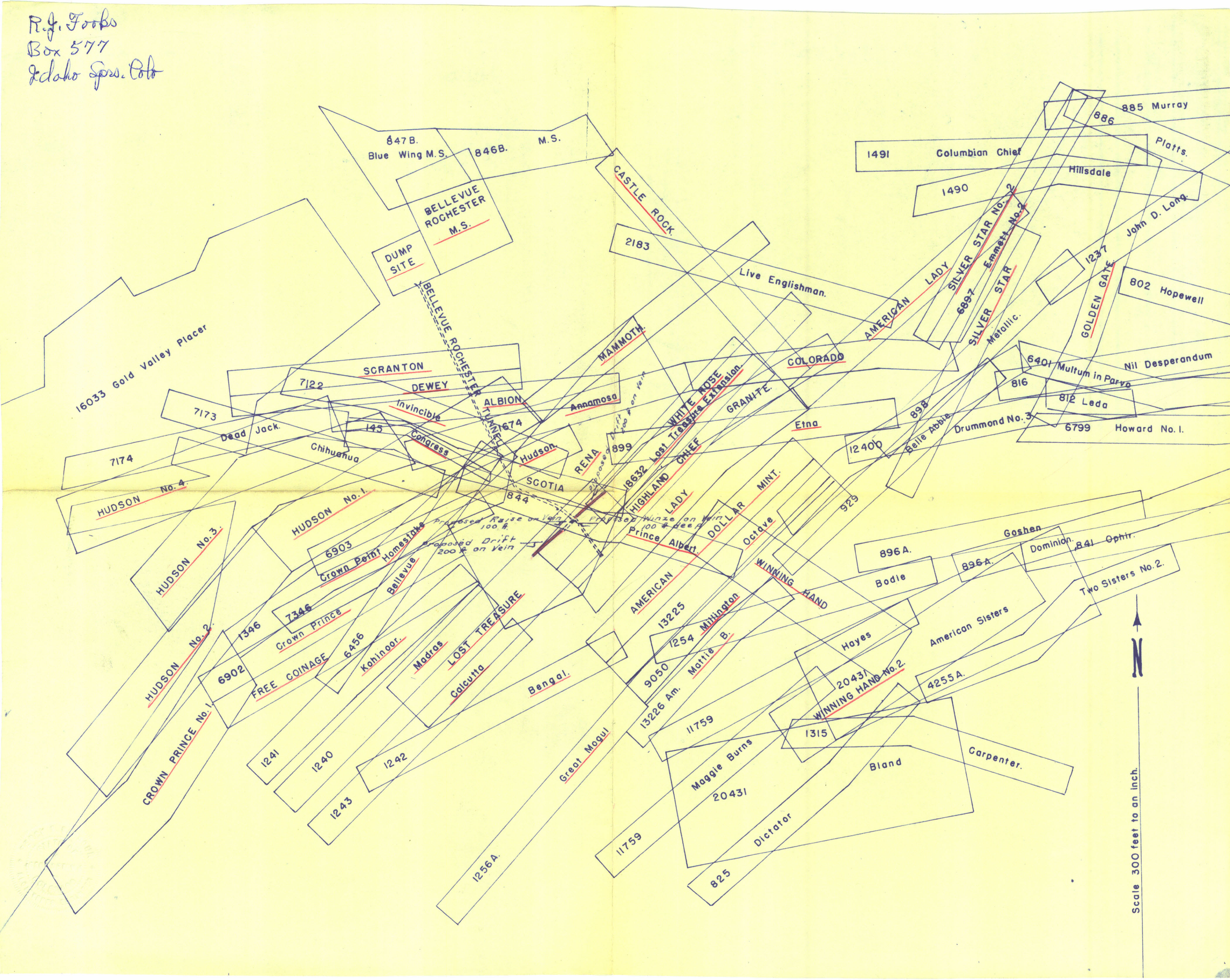
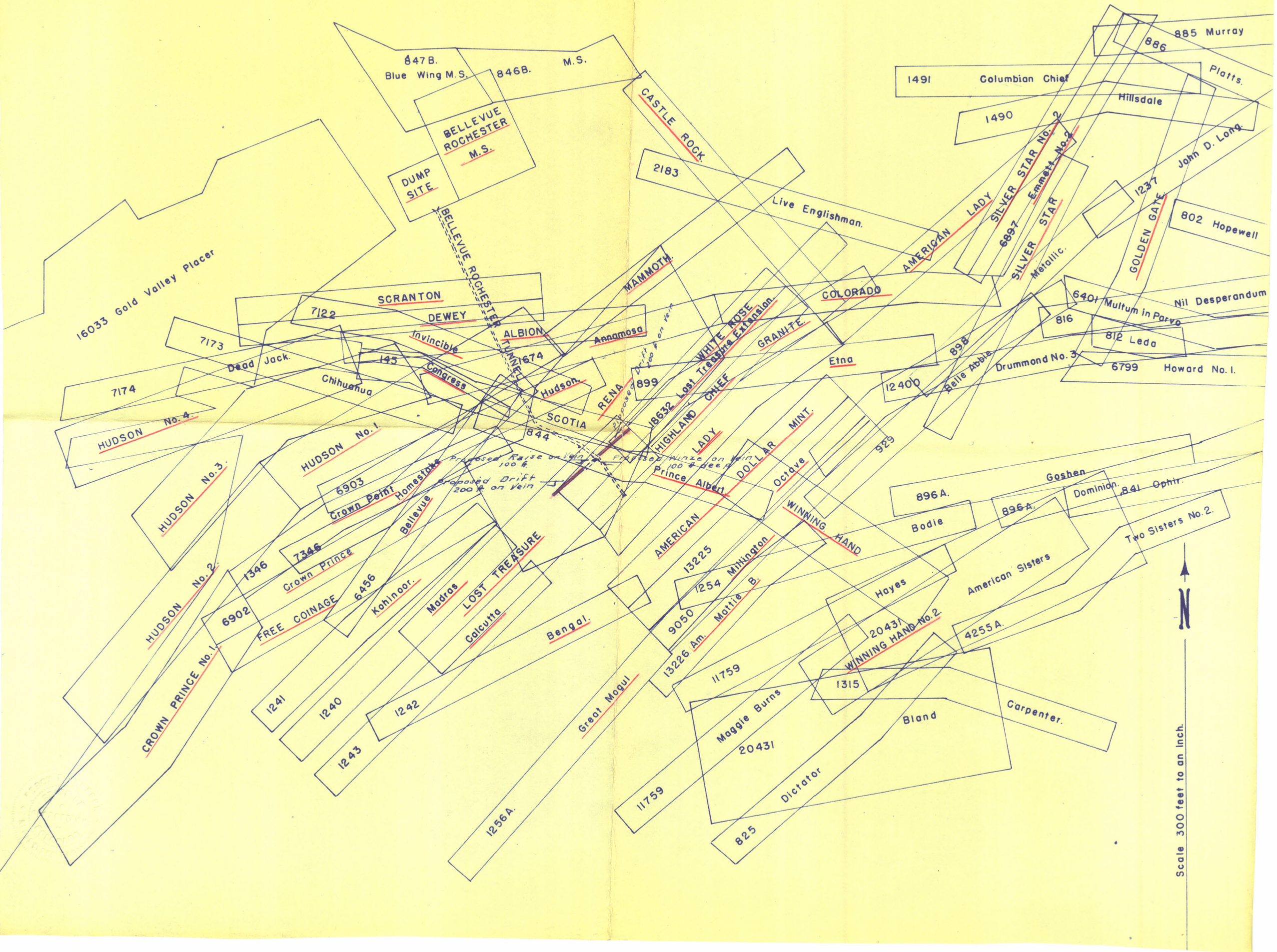
U. S. ATOMIC ENERGY COMMISSION

DENVER EXPLORATION BRANCH, DIVISION OF RAW MATERIALS

GEOLOGIC PLAN
OF
BELLEVUE ROCHESTER TUNNEL

Scale: 1" = 50'	Contour Interval
ACCOMPANIES: R. M. O. 640	PLATE: 2 DATE: [illegible]/51
PREPARED BY:	DRAWN BY:
APPROVED BY	

R. J. Fooks
Box 577
Idaho Spgs. Colo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