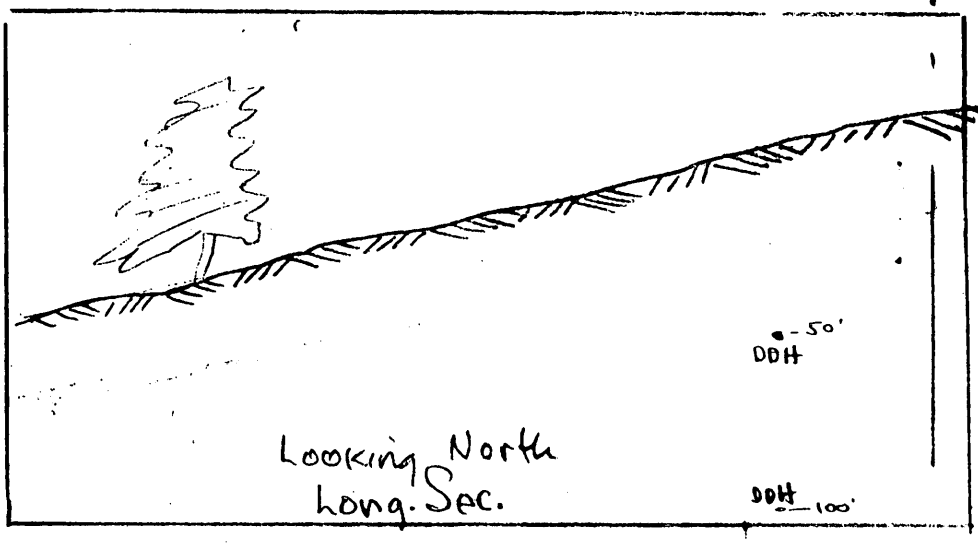
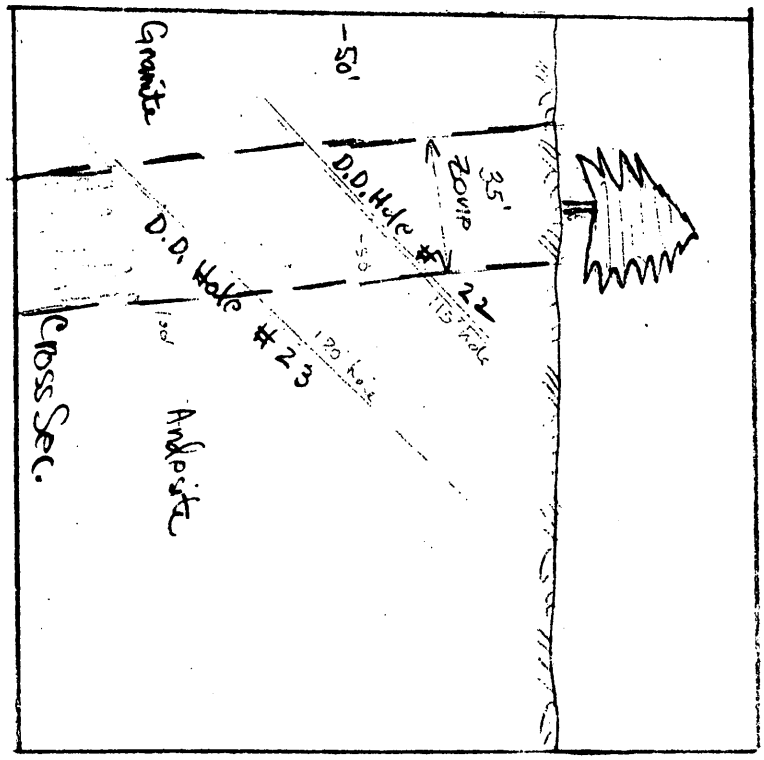
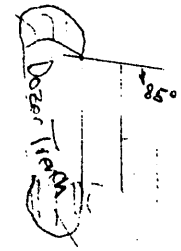
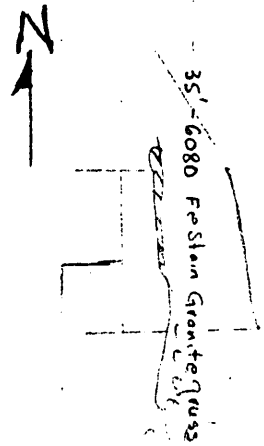
	No. 22	No. 23
Direction	N 90° W	N 90° W
Inclination	-47°	-47°
Depth	115'	180'

Purpose.
To Probe unleached
Out crop









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AUG 30 1972
O. M. E.
SPOKANE, WASH.

Monarch Mine
Proposed Drilling w/ Assays
on
Anderson West Claim
Elliston - Powell County - Mt.
W.M. Hand Aug 1972 scale 50:1"

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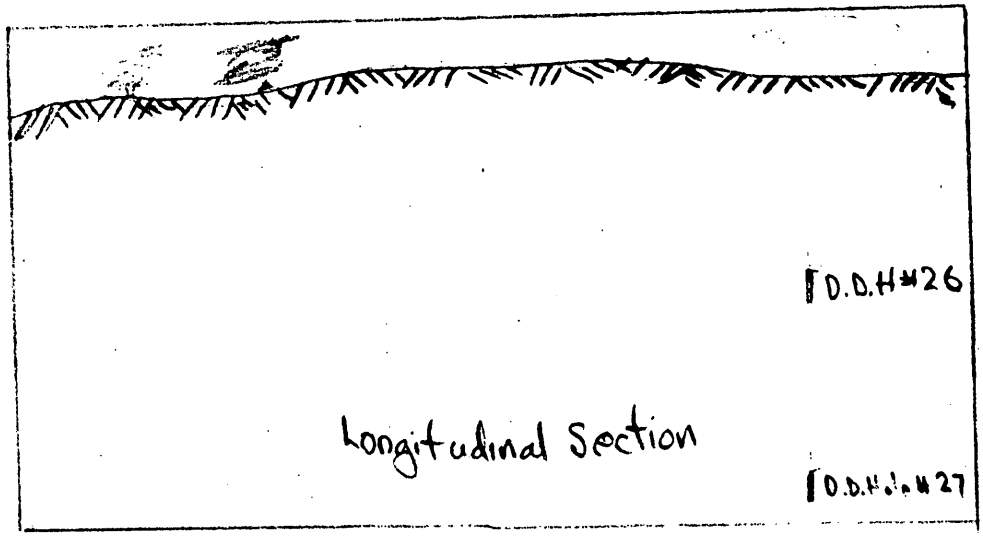
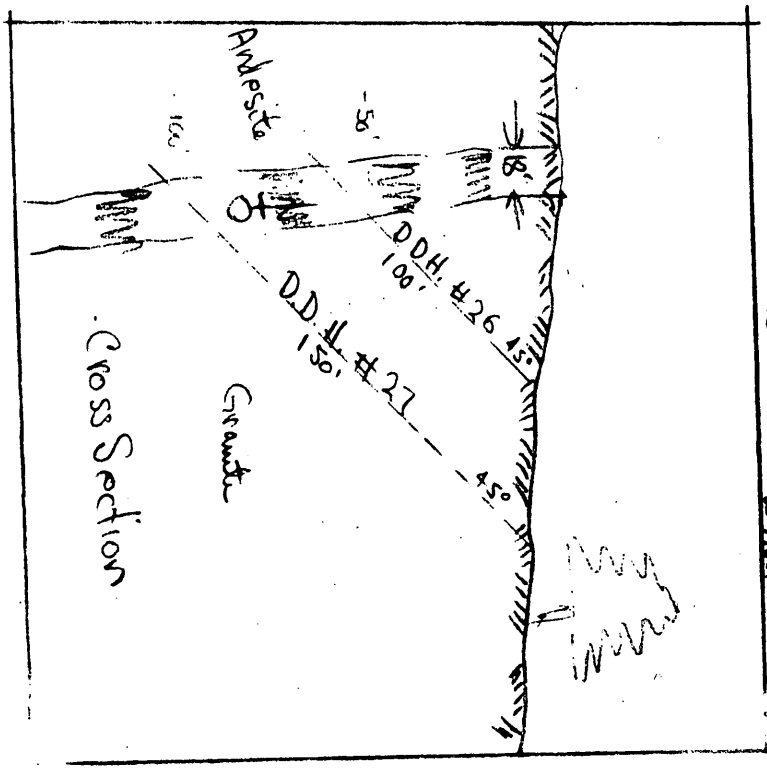
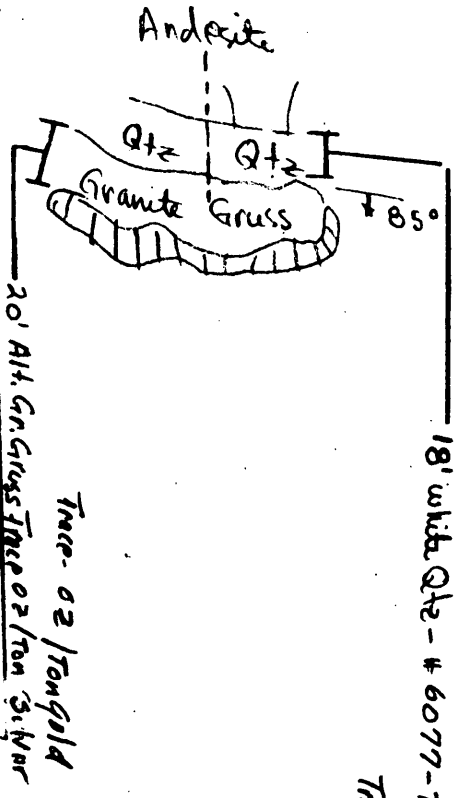
AUG 30 1972
O. M. E.
SPOKANE, WASH.







	No. 26	No. 27
Direction	N0°E	N0°E
Inclination	-45°	-45°
Depth	100'	150'

Purpose:
Check for Values on
unweathered outcrop

Monarch Mine
Proposed Drilling w/ Assays
on
Bison Creek Claim
Elliston - Powell County - Mt.
W.M. Hand Aug. 1972 Scale 50' = 1"

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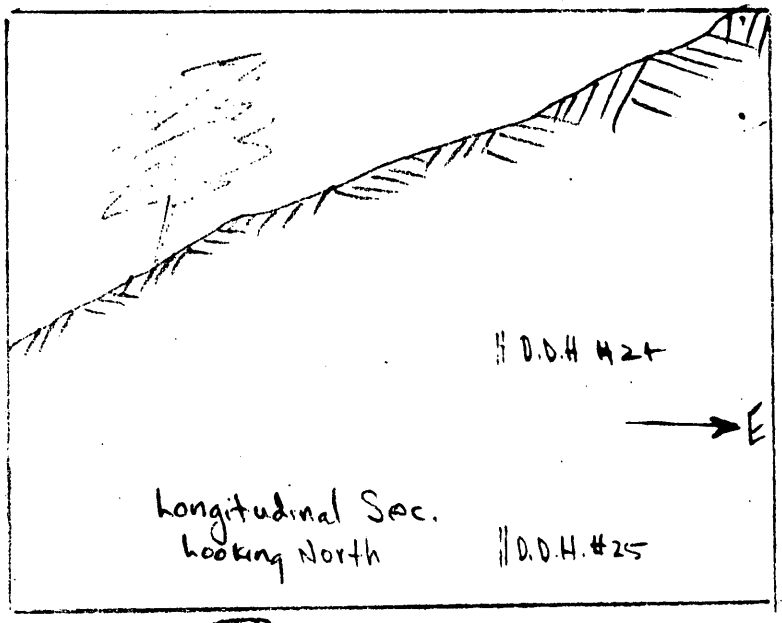
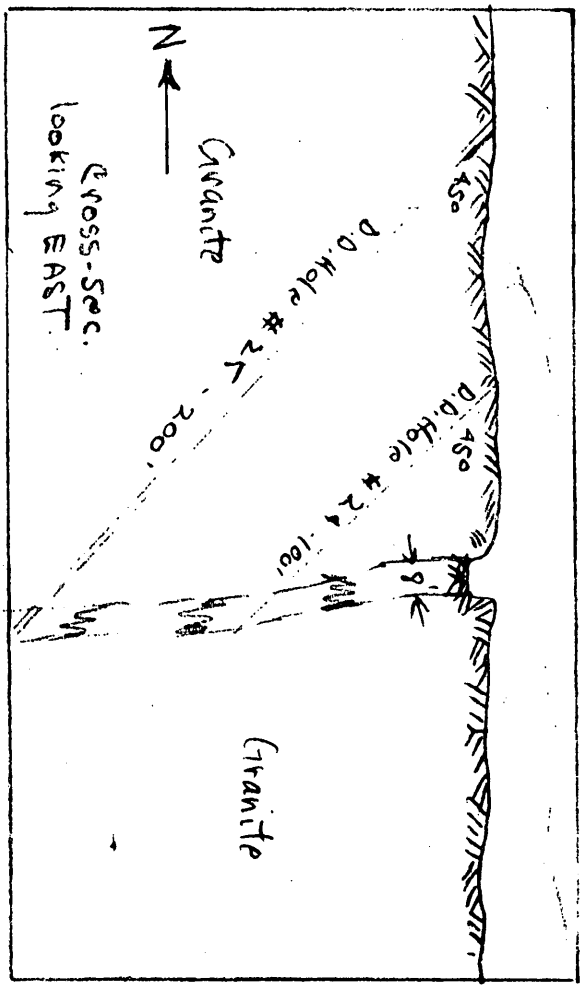
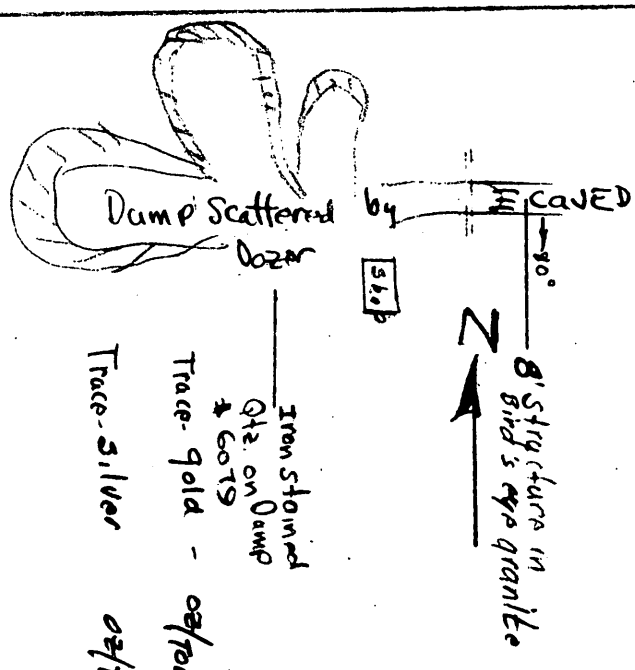
O.M.E.
SPOKANE, WASH.







	No. 24	No. 25
Direction	S 0°E	S0°E
Inclination	- 45°	- 45°
Depth	100'	200'

Purpose:
Probe unweathered outcrop

Monarch Mine
Proposed Drilling w/assays
on
Anderson Claim
Elliston- Powell County Mt.

W. M. Ward Aug 1972 Scale 1" = 50'

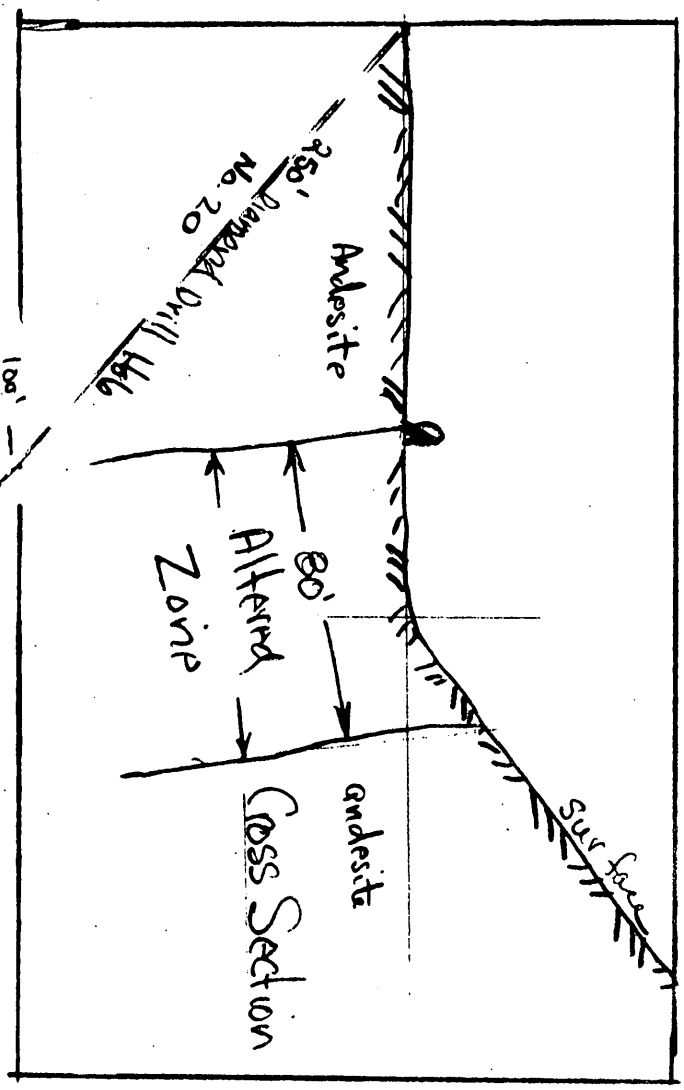
Monarch Mine
Proposed Drilling w/ Assays on Chute Claim

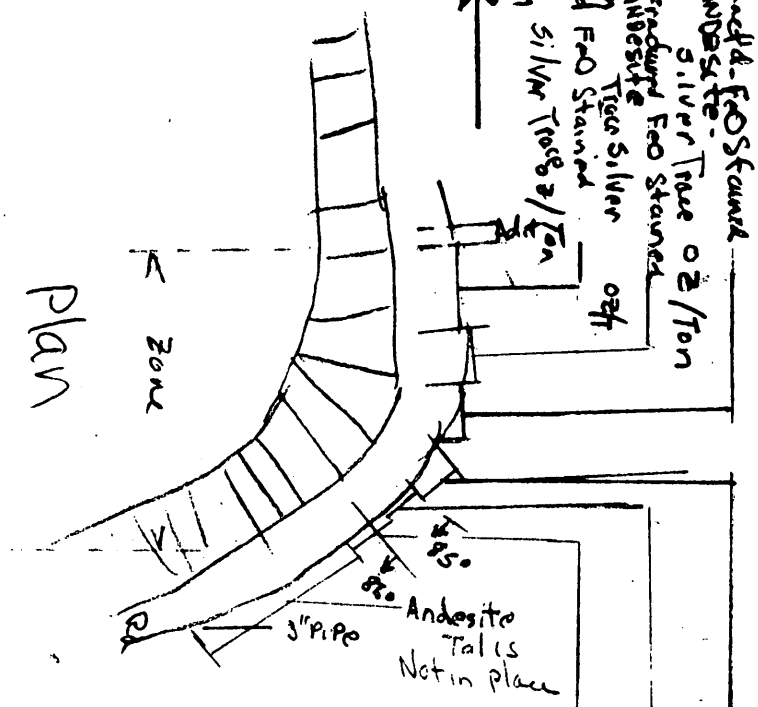
Elliston - Powell County, Mt.

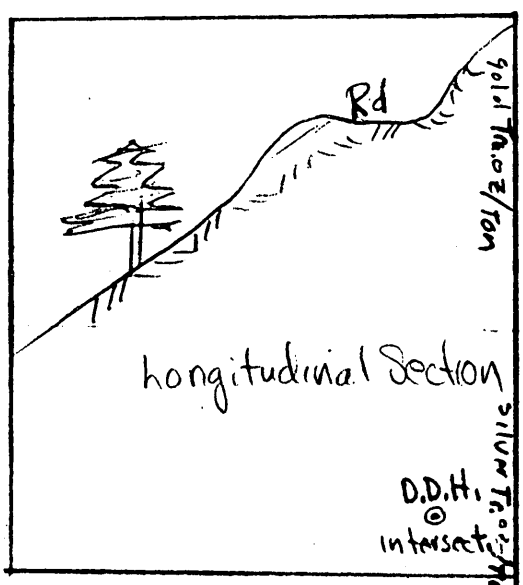
W. M. Hand Aug 1972

Scale 50' = 1"

RECEIVED
AUG 30 1972
O. M. & E.
SPOKANE, WASH.







D.D. Hole No. 20

Direction - N90°E

Inclination - 43°

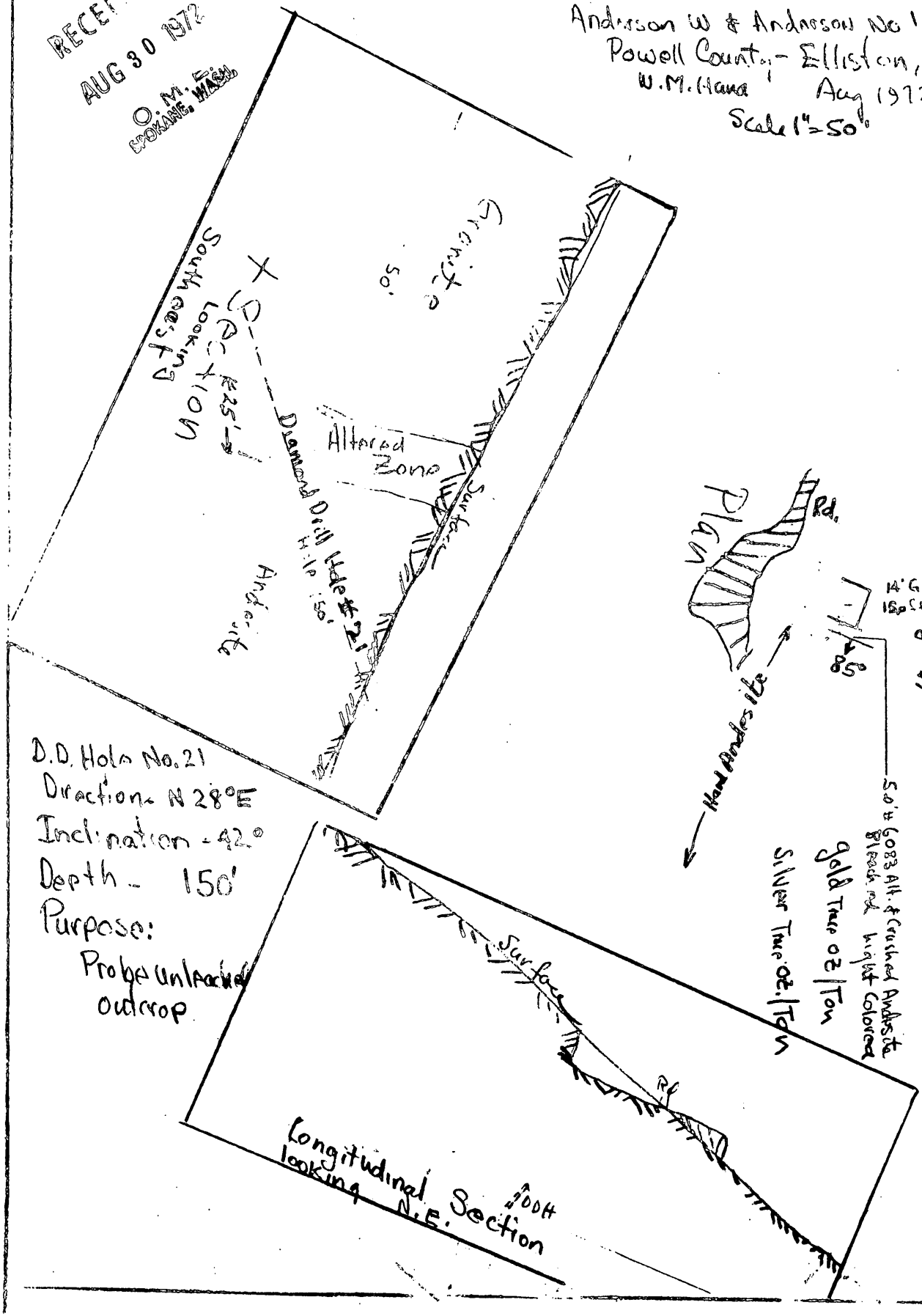
Depth — 250'

Purpose —

Probe unleached outcrop

Monarch MINE
Propose Drilling w/ assays
on
Anderson W & Anderson No 1 West
Powell County - Ellison, Mt.
W. M. Hana
Aug 1972
Scale 1" = 50'

RECEIVED
AUG 30 1972
O. M. E.
SPOKANE, WASH.



D.D. Hole No. 21
Direction - N 28°E
Inclination - 42°
Depth - 150'
Purpose:
Probe unbroken outcrop

2-25-72

Monarch Minerals -

DMEA - 4437 Denied without prejudice ~~[illegible]~~ Senator Mansfield overruled.

(1966) { DME - 6566 - Withdrawn - no matching funds, (Metcalf + Olsen interested)

GSA - Copper expansion program - turned down, not ~~[illegible]~~ enough ore identified to qualify for quick production. referred to DME

DME 6867 -

Application incomplete. (Needs list of equipment to be furnished and property map - these have been requested)

Assays generally agree with old DMEA data of Pinckney

Puffett transmittal letter questions gold assays. While the gold assays stated on the 1916 map are partly reported in $ or ¢, unless so identified, they very probably are in oz/ton. I have looked at quite a few old mining maps of this general region, and find nothing unusual in the spotty nature of gold values in the upper levels of this kind of a mine. I would be tempted to believe the numbers on the map - recognizing they represent the partly oxidized upper enriched area of complex sulfide deposits. I wouldn't base a grade estimate on such figures, but I wouldn't throw them out, ~~without~~ since they do show the character of early high-grade production.

As application now stands (2-25-72) there is no overall property map, and the exploration program is ~~[illegible]~~ quite vague on specific purpose. The raise (which calculates to be 245 feet in length) as stated by Jones (p. 2 item 3 f) would be merely for "development" - not exploration. Continuity of at least one of the mineralized structures seems reasonably clear (despite GSA letter that says "450 ft level did not intercept vein") Tentative locations for drill holes do not convey to me what structures are to be tested. The plan map shows several dozen cuts, with

veins that are not clearly identified with structures shown in underground workings. There are no sample and assay data on these trenches. Similarly, there are no sample and assay data on the lower tunnel.

Things that I feel are needed to complete our considerations of this application:

1) property map.

2) list of equipment owned by operator and to be used on proposed project. (already requested by Puffett)

3) logical plan of exploration, in sufficient detail to permit evaluation of its objectives. The identification of specific targets for each work item should be tied to specific mapped and sampled structures shown on clear illustrations.

a) What "exploration" is accomplished by the proposed raise? The same structure could be tested by a single drill hole for 1/4th the cost ($40, per foot raise / $10 per foot drill) (Recognizing that a drill hole indicating moderate values would still have to be opened by a raise to permit extraction, what is the trade-off?) (If the raise extends through relatively barren ground, what then?)

Why raise at site proposed? Jones indicates vein of ore shoots is to the east?

Why did stoping cease on the #2 Tunnel level?

b) What veins are exposed in the bulldozer trenches? Are these veins cut in the old workings? What assay data substantiates the proposed drilling? Which is the major producing vein — the ± N 80°W vein at the "little shaft", or the ± N 45°E vein at the "Big Shaft"? Or was the production related to the intersection of these structures?

Discrepancies

Claims List - DMEA - #437 and OME 6867

1972 listing		1956 listing	
Monarch -	Book 8, p. 543	Monarch amended location	Book 9, p. 57
Monarch No. 1 -	Book 8, p. 545	Monarch #1	Book 9, p. 60

Assays on Pinchney map show general agreement with old assays on applicants map.

Jones is a bit hard to pin down, judging by old correspondence. Monarch vein had values, and may still have, but exploration target is hard to define on limited present knowledge of the nature of deposit at the east end.

Suggest field team consult with applicant to test "Monarch" vein (east trending) between tunnel 2 and tunnel 1 by drilling rather than raising? Raising isn't really exploration, but more in nature of rehabilitation.

MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6867

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

SILVER COPPER GOLD

MINE—ELLISTON & HELENA DISTRICT P. O. BOX 122, HELENA, MONTANA 59601

MONARCH MINERALS, INC.
HELENA, MONTANA

March 9, 1972

OFFICIAL
COPY
O. M. E.
RECEIVED
MAR 14 1972
INITIALS CODE
Cal 120 M
120
120

Mr. Harold Kirkemo
Chief, Office of
Minerals Exploration
U.S. Dept. of the Interior
Geological Survey
Washington, D.C. 20242

Re: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Kirkemo:

In regard your letter of March 2, 1972, concerning our application for gold and silver assistance, we wish to supply you with the following information.

On the sketch map enclosed we intend to start drilling as marked in red. On No. 1 drill site we intend to drill at 45 degrees and if we cut a good core the first cut will be about 50' in depth on a small vein. We will continue this drill hole to cut the Monarch vein at 250' of depth. If satisfactory we will move the drill site to the north and cut the Monarch vein at about 500' which will be about the elevation of the lower tunnel extension. Our next target will be on sites 3 and 4, to cut the Monarch vein below the big shaft and proceed as on No. 1. These four holes will take about 2,000 feet of drilling and the next five holes will average 200 feet per location. We do not have assay samples on the last five locations, but have definitely cut vein structures of good width will bulldozer and backhoe.

As to the justification of proposed raise, according to an A.C.M. engineer of whose letter I have previously referred, there is a block of unexplored ground some 1,000 feet long by 250 feet in depth. We have the A.C.M. assay map apparently made by Paul Billingsly on the No. 1 tunnel and shipping records of ore from the lower tunnel from 250 feet below the assay map source. I think this block of ground should be explored by a raise about to the middle east and west. As to your last paragraph of estimate of cost, the writer had the idea that the best way to handle this would be for the company Monarch Minerals to contract it. The average cost of such a raise would run from $40.00 to $50.00 per foot, this would be a 4 x 8 timbered raise, manway and ore shute.

Diamond drilling costs from $10.00 to $12.00 per foot. Being as the company has all equipment, timbers, etc., at the property I think that we could make the raise for $40.00 per foot and do the diamond drilling for $10.00 per foot. This would seem to me to be the best solution.

We have a small crew at the mine now and are putting in air and vent pipe back to the proposed location of raise. When we want copies of the maps such as you have, we call Anaconda who has the originals.

The last time I talked with Charlie Potter he remembered you from years ago when you were an A.C.M. engineer. Mr. Potter had been at the property when Anaconda was checking it. Not being open pit, we have made no deal. However, Mr. Potter is in the A.C.M. office in Butte and is available for a phone call, from you at your convenience. Mr. Schewee has been to the property a number of times and is very much interested in the Monarch's future.

If you have any further questions, please call upon me.

Very truly yours,

MONARCH MINERALS, INC.

Casey Jones

D. L. "Casey" Jones
General Manager

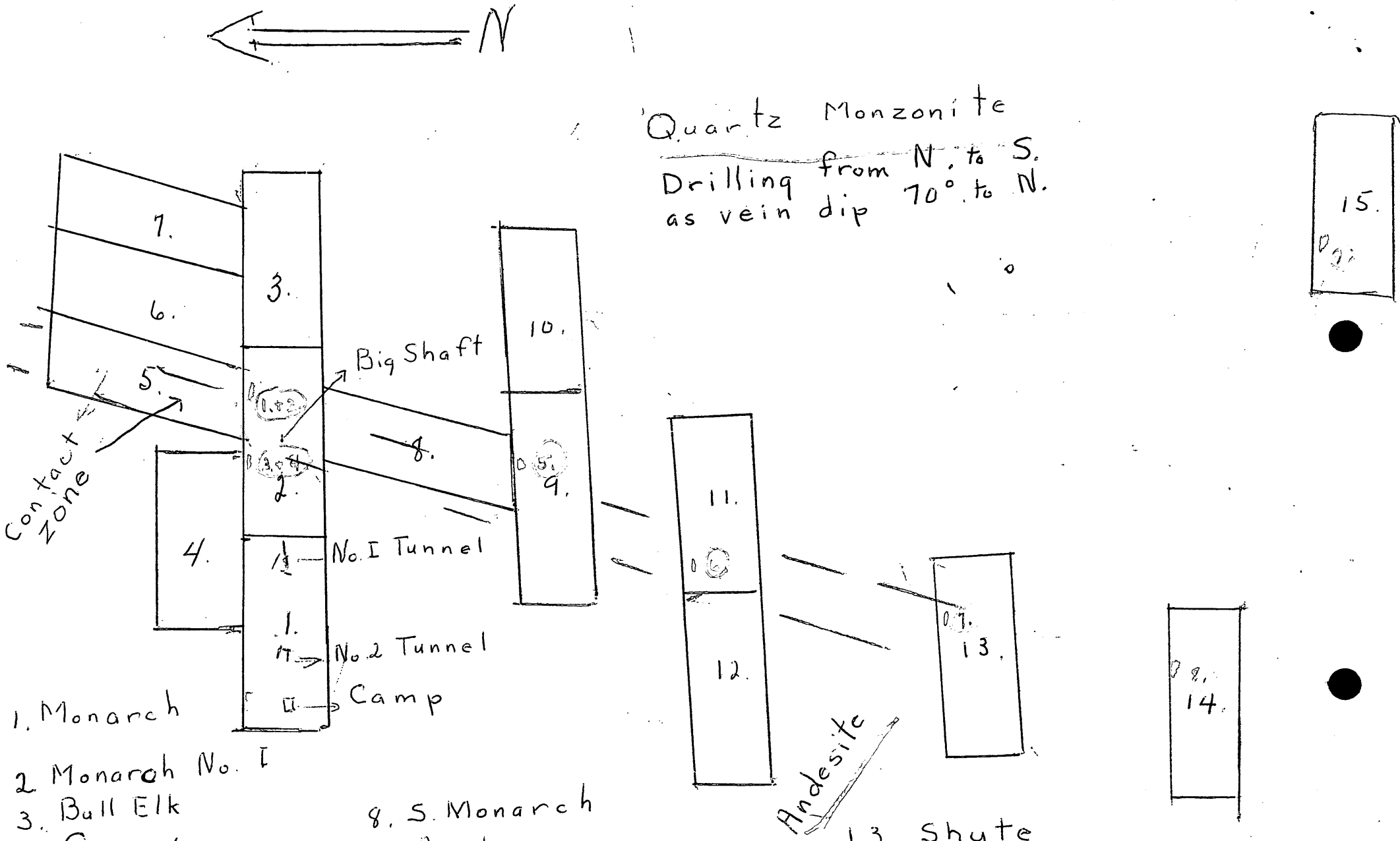
DLJ:hw

Enclosure

The raise will take about two months to complete and it will be at least June before the snow is off so that we can start diamond drilling so if we could get a committment in two parts, one to cover to July 1, and the balance the next three months.

I have today written a letter to Mr Schewee who can discuss details with you.

Monarch Mine Drill Sites



1. Monarch
2. Monarch No. I
3. Bull Elk
4. Casey
5. N. Monarch
6. Ridge
7. Ridge No. I
8. S. Monarch
9. Anderson
10. E. Anderson
11. Anderson No. I
12. Anderson No. I W.
13. Shute
14. W. Bison
15. Bison Creek

1/25/72

INVENTORY

1 Longyear "38" Diamond Core Drill with 1000' NQ wireline drill rods, complete eqpt listed replacement value $29,070.

1 Joy *600cfm Portable Compressor

1 D 4 Cat dozer #2T 6784

1 Chevrolet 4X4, with canopy (Dodge ins. $1575)

Pipe 1000 ft 4" pipe & fittings valves etc.
400 " 2" pipe & 2" " "
300 " 1" pipe & " " "

Hunslet Deutz Diesel Trammer

4 Ore cars, 1 timber car

1 Jack bar

1 Airfan & engine

1 Copco drill, 2 legs, subm., 5 steel, Kohler lite plant, tugger, 5hp. B&St engine (Carpentier)

400 ft. 20lb. rail, track bolts, spikes etc.

1 Hydr. Jim Crow (rail bender)

Hose 90' airhose, 30' water hose

2200' #8-3 conductor, tellurium-compound, all rubber, 600 V.Type-W, GE, round portable elec. cable on origional reels.

500' Elec wire

Worthington $4\frac{1}{2}$x2x4 Duplex air or sump pump

200 fish plates

3 Fire exting. fuel bbls., spikes, nails etc

David Bradley Chain saw

McCulloch Mini Max chain saw

6 Recharge miners lites

Misc. camp furn. stoves

A.C.M. Shipments
to
Washoe Sampler Margetts Supt

MONARCH MINE

DATE			LOT NO.	% COPPER	OZ. SILVER	OZ. GOLD
35 ton	1935	Apr	6023	6.25	26.8	.855
			6024	3.81	18.05	.65
78 ton		May	6178	4.	21.	.635
			6404	4.	18.5	.59
35 ton		June	6606	3.26	19.7	.56

The above 148 ton was shipped by Charles Anderson for Standish and was taken from driving the lower tunnel. This is not any picked sample but returns from 5 cars of ore.

After Charles Anderson left Monarch they shipped 500 odd ton that was of lower grade because waste was allowed in the shipments. Returns show .15 to .26 in gold and from 11 to 22 oz. of silver. These shipments should show about what we should expect by the exploration program in the raise from No. 2 to No. 1 tunnels. The writer has seen a letter from an A.C.M. engineer to an A.C.M. officer stating that the engineer estimates $1,000,000 worth of gold between the ~~upper~~ LOWER tunnel and the surface at present prices of gold. This letter is considered secret, I can see it but can't copy it.

Samples taken from the lower tunnel in 1971 assayed .32 in gold and more than 14 oz. in silver.

Casey Jones

United States Department of the Interior

GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

COPY
O. M. E.
RECEIVED
FEB 18 1972

INITIALS	CODE

February 16, 1972

MEMORANDUM

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: New Application (gold and silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Forwarded herewith is a new application from Monarch Minerals, Inc. for OME assistance to explore the old Monarch mine by driving a raise 250 feet between the existing No. 1 and No. 2 adits, and to diamond drill 3,000 feet from either or both underground and surface drill stations. There are included maps showing the site of the proposed work, but missing is a map showing all the claims listed.

The general geology of the mine is shown by Ruppel (1963, Pl. I, cross section B-B'). Pardee and Schrader (1933, p. 266-67) describe the ore and give the history of mining operations. Knopf (1913, p. 143) mentions the mine. F. S. Robertson described the mineral deposits of the Elliston Mining District in his Ph. D. thesis in 1956. I have asked for a library loan of the thesis from the University of Washington.

The applicant asks for a unit-cost of $40.00 per foot for driving the raise and $10.00 per foot for diamond drilling. He has his own diamond drill. Total cost of the project is estimated to be $40,000.00. The engineer for the project reportedly will be a graduate of Montana Tech. with over 30 years' experience in the Elliston area (I didn't realize that mines had been operating in this area recently).

Mr. D. L. "Casey" Jones contacted me during the annual Northwest Mining Association convention to discuss his project. At that time I mailed him the necessary forms and other literature. Mr. Jones obviously is not physically able to participate personally in any of the exploration work; however, the application states that Monarch Minerals, Inc. can furnish cash and equipment for their share of the cost. I have asked for the list of their equipment.

Pardee and Shrader describe the ore as being composed of galena, sphalerite, pyrite, arsenopyrite, chalcopyrite, and tetrahedrite, and report that the mine was operated in 1894, 1909, and 1916. Production was valued at over a million dollars.

The assay data are meager on the applicant's map and I am not sure if all the gold values are in dollars or if some are in ounces. When I discussed these with Mr. Jones, he mentioned assays that indicated 3.00 ounces of gold per ton, but I'm sure the value is really $3.00 in gold per ton.

I hope that the information in Robertson's thesis will have some specific detail regarding the metallic content of the vein. If not, we should request more assay data from the applicant or else take a large number of samples during the field examination.

It is not possible to evaluate the proposal without more data concerning the width, persistence, and metallic content of the vein. Obviously ore shoots have been mined and the proposed work might be successful in finding another minable ore shoot.

References cited

Knopf, Adolph, 1913, Ore deposits of the Helena mining region, Montana: U.S.G.S. Bull. 527, 14 p.

Pardee, J. T., and Schrader, F. C., 1933, Metalliferous deposits of the greater Helena mining region, Montana: U.S.G.S. Bull. 842, 318 p.

Ruppel, E. T., 1963, Geology of the Basin quadrangle, Jefferson, Lewis and Clark, and Powell Counties, Montana: U.S.G.S. Bull. 1151, 121 p.

Willard P. Puffett

Willard P. Puffett

Enclosure

OME Form 40
(Revised No. 68)

Budget Bureau No. 42-R1368
Approval expires Dec. 1971

RECEIVED
FEB 14 1972
O. M. E.
SPOKANE, WASH.

OFFICE OF MINERALS EXPLORATION
RECEIVED
FEB 18 1972
INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85—701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

MONARCH MINERALS, INC.
P. O. Box 122
Helena, Montana 59601

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6867
DATE RECEIVED: 2-18-72
REGION: 1
DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Montana

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
C. E. McPHERSON	75 E. Lyndale Ave Helena, Montana	President
D. L. JONES	524 First St. Helena, Montana	Vice President & Gen. Mgr.
GENA DAVY	P.O. Box 1195 Helena, Montana	Secretary

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Gold and Silver

ESTIMATED COST OF PROJECT: $40,000.00

PROPERTY NAME	LOCATION COUNTY	STATE
MONARCH MINE	Powell	Montana

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. II). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Department of the Interior, U.S. Geological Survey, Office of Minerals Exploration, Washington, D. C., 20242, or with the nearest OME Field Office.*

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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

2/11/72
DATED

D L Jones
BY *(Signature)*

Vice President and General Manager
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense.
U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include (1) true copies of your letters to credit sources which show date of loan request, amount and terms requested, and proposed use of loan funds and (2) true copies of replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements signed by owner on MME Form 52. If the agreements cannot be obtained, state reasons and whether you can furnish a performance bond.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a)

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) If you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates. State your reasons for expecting to find ore.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property state name, address, and telephone number of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs for time and materials *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and price of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i. e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

SILVER COPPER GOLD

MINE—ELLISTON & HELENA DISTRICT P. O. BOX 122, HELENA, MONTANA 59601

MONARCH MINERALS, INC.
HELENA, MONTANA

February 1, 1972

RECEIVED
FEB 14 1972
O. M. E.
SPOKANE, WASH.

Office of Minerals Exploration
U.S. Department of the Interior
U.S. Courthouse, Room 630
West 920 Riverside Avenue
Spokane, Washington 99201

Re: Application for financial assistance, Form 40

Gentlemen:

We are enclosing an application for OME participation in a mineral exploration program at the Monarch Mine. Also enclosed, please find copies of letters to local banks as to the availability of funds for such work. In answer to the questions on the reverse side of the application, we submit the following:

1(a). Copies of letters to and replies from local banks are enclosed.

(b). Not applicable

(c). For the Company's share of the cost, it will furnish all equipment, such as compressor, trammer, drills, steel and powder, and any necessary cash to make up their share of the loan program.

2(a). The Company's interest as to the mineral rights is that it owns the mineral rights at this location.

(b). The legal description of the claims is that they are in Sections 30 and 31, T.8N., R.6W. There are 12 unpatented claims as follows:

Monarch, Book 8, p. 543
Monarch No. 1, Book 8, p. 545
N. Monarch, Book 8, p. 621
S. Monarch, Book 9, p. 7
Casey, Book 9, p. 231
Bull Elk, Book 9, p. 233
Ridge, Book 9, p. 225
Ridge 1, Book 9, p. 229
Anderson, Book 9, p. 63
E. Anderson, Book 9, p. 235
Anderson No. 1, Book 9, p. 227
Shute, Book 9, p. 223

3(a). Enclosed will be maps or sketches of the proposed raise from No. II to No. I tunnel, and marked on the map are sketches which will be the proposed drill sites (the Company owns a practically new Longyear No. 38 Diamond Drill, complete with 1,000 feet of drill rod).

(b). The Company's interest is that it owns the mining claims.

(c). According to U.S.G.S. Bulletin #842, there was over one million dollars of production over 70 years ago. I also have an Anaconda assay map on the No. I upper tunnel showing .80 to 4 oz. of gold per ton from 6 to 15 feet in width. We also have some engineer reports on shipping records showing .56 to .84 oz. of gold and from 18 to 39 oz. of silver per ton shipped. The writer has seen at the Anaconda office in Butte, Montana, a report or letter from an engineer to an Anaconda officer who estimated $1,000,000 in gold at the present price from the No. II tunnel to the surface. This estimate of value did not take into consideration any silver or base metals.

(d). It would be difficult to give an estimate on ore reserves, except for the above mentioned Anaconda letter. I do have a long hand copy of Mr. Margett's (Supt. of W.A.S.H.O.E.) samples of Anaconda -- 147 ton had gold contents of from .56 to .84 oz. of gold, an average close to 20 oz. of silver. This ore was taken from No. II lower tunnel.

(e) The Monarch Mine is the only known portion of the Boulder Batholith on the west side of the Continental Divide, and the east and west veins of the mine were apparently pushed out from the contact zone. On the west of the contact zone is Andesite; on the east, Quartz Monzonite

(f). The last time samples were taken about 1200 to 1300 feet from the portal of No. II lower tunnel, it showed .32 gold oz. and about 15 oz. of silver. This is the location of the present raise from No. II to No. I. With such sampling in No. II and the Anaconda assay map, it should be very evident that the work should develop ore between the two tunnels.

(g) We will enclose copies of all maps and reports that we have.

4(a). The writer, D. L. "Casey" Jones, is General Manager. He can be contacted by mail at Box 33, Helena, Montana, Phone 406-442-4306. At the present time we are getting the last of our equipment into the mine and have a small crew at the mine except in periods of extreme cold. We have a 4-Wheel drive pickup which will be available to take any OME representative to the mine.

(b). Our shipping point would be Elliston, Montana, on the Burlington-Northern Railroad, about 14 miles in distance, and our supply point would be Helena, Montana, about 37 miles away.

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FEB 14 1972
O.M.E.
SPOKANE, WASH.

5(a). A proposed raise of about 250 feet from No. II tunnel to No. I tunnel should be about 4 x 8 feet with an ore chute and a manway, well tempered with sawed timbers 4 x 6 and 2 x 6. A proposed raise will be on the foot wall of the vein system. The relation of the proposed work to the mine workings is shown on the map.

(b). We already have all the access roads in and usable.

(c). When an OME contract is executed, work on the raise will begin in a matter of a few days and should be completed between 60 and 90 days. When the diamond drilling can be started is dependent upon the snow thaw in the spring. We have had an engineer (a graduate of Montana Tech. in Butte, Montana) with 10 years of experience as a geologist check our drill locations and prove them. It is pretty hard to estimate the length of time it will take to drill 3,000 feet of drill holes, though with our equipment he should move right along and shouldn't take over 90 to 120 days at the most.

6. Our engineer is a graduate of Montana Tech. (formerly School of Mines) in Butte, Montana, and has operated one mine that produced over 90,000 tons of crude ore with him in complete charge, and a foreman of over 30 years experience in the Elliston area. The writer has owned the Monarch over 20 years and has developed it to its present state.

7(a). None

(b). The cost of supervision, engineering and geological services for both proposed raise and diamond drilling should not exceed $4,000. However, the Company, with all the necessary equipment at the mine, would probably prefer, if agreeable, to contract the raise at $40.00 per foot, or $10,000.00 for the 250-odd feet of raise, and contract the diamond drilling at $10.00 per foot for the 3,000 feet, which is below the drilling cost locally. Since the equipment is already on the ground, the Company feels it can do this at this lower rate.

(c). I will enclose a list of our equipment which we have bought and paid for. Under this section there is very little which would cost us less than $50.00.

(d). I will enclose a copy of our operating equipment which cost us about $35,000.00. This equipment is all in good to excellent condition.

(e), (f), (g). The Company has a large cabin for crew -- 20 by 25 ft., dry house 12 x 12; metal roof, 2 metal buildings on concrete floors, 20 x 21 feet. There will be no cost of rehabilitation as the two buildings were completed last fall, both on concrete bases. The Company has Workmen's Compensation and Employees' Liability Insurance, as well as insurance on buildings and equipment. All items above are covered by insurance.

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FEB 14 1972
O.M.E.
SPOKANE, WASH.

The above information, maps, report and data is, to the best of our ability, factual. We earnestly solicit your assistance and early attention to this application.

Sincerely yours,

MONARCH MINERALS

C. E. McPherson, President

D. L. Jones, General Manager

D L Jones

DOJ:hw

RECEIVED
FEB 14 1972
O.M.E.
SOUTH DAKOTA

COMMERCE BANK & Trust Company

P. O. BOX 1732 / (406) 442-1850 / HELENA, MONT. 59601

February 9, 1972

RECEIVED
FEB 14 1972
O.M.E.
SPOKANE, WASH.

E. L. "Casey" Jones
General Manager
Monarch Minerals Inc.
P.O. Box 122
Helena, Montana 59601

Re: Your letter of February 1, 1972
Request for $30,000 loan.

Gentlemen:

The Commerce Bank at this time is unable to negotiate a loan with you for $30,000 due to tight money situation we have now. We are sorry that we are unable to accommodate you, and maybe we will be able to do business with you at a future date.

Very truly yours,

Jack Carpenter

JACK CARPENTER
Ass't Vice President &
Cashier

JC:jd

A FULL SERVICE BANK

FIRST NATIONAL BANK AND TRUST COMPANY

R. D. JOHNSON
VICE PRESIDENT

February 4, 1972

RECEIVED
FEB 14 1972
O.M.E.
SPOKANE, WASH.

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P.O. Box 122
Helena, Montana 59601

Dear Mr. Jones:

We have your request dated February 1, 1972 for a loan of $30,000.00 for use in your mining venture.

Our discount committee has considered this request and decided that we will have to reject the application at this time.

Sincerely,

R. D. Johnson
Vice President

RDJ/mm

February 1, 1972

RECEIVED
FEB 14 1972
O.M.E.
SPOKANE WASH.

Commerce Bank & Trust Co.
Helena, Montana 59601

Attention: Mr. Jack Carpenter

Gentlemen:

Monarch Minerals, Inc., wants a loan of $30,000. This money is to be used to make a raise up to 300 feet from our No. 2 tunnel to our No. 1 tunnel at a cost of about $10,000. As soon as possible in the spring, we want to diamond drill about 3,000 feet in several different locations. This 3,000 feet of drilling will cost about $30,000. The Company has practically a new Longyear diamond drill.

We are asking your immediate attention to this request. Thanking you for your courtesies in the past, I remain,

Respectfully yours,

D. L. "Casey" Jones
General Manager

DLJ:hw

February 1, 1972

RECEIVED
FEB 14 1972
O. M. E.
SPOKANE, WASH.

First National Bank & Trust Co.
Helena, Montana 59601

Attention: Dan Johnson

Gentlemen:

Monarch Minerals, Inc., wants a loan of $30,000. This money is to be used to make a raise up to 300 feet from our No. 2 tunnel to our No. 1 tunnel at a cost of about $10,000. As soon as possible in the spring, we want to diamond drill about 3,000 feet in several different locations. This 3,000 feet of drilling will cost about $30,000. The Company has practically a new Longyear diamond drill.

We are asking your immediate attention to this request. Thanking you for your courtesies in the past, I remain,

Respectfully yours,

D. L. "Casey" Jones
General Manager

DLJ:hw

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

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MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/28	Weeks	

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

SEP 29 1972

Re: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

Careful study of your application for financial assistance in exploring the Monarch Mine and other information available to us indicates the probability of disclosing significant gold-silver ore reserves is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application is denied. This denial is without predjudice to your property, and if subsequent efforts on your part should reveal new evidence of a specific exploration target, we would be pleased to consider a new application based on such evidence.

We wish to thank you for your interest in the mineral exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's reading file
Mineral Resources
OME reading file
Region I
R.Weeks
130

RWeeks:cac 9-28-72

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/29/72	Kirkbeck	

September 29, 1972

Memorandum

To: The Files

From: Robert A. Weeks

Subject: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Justification for Denial of Application

The applicant proposed to explore mineralized veins in and near the Monarch Mine, Powell County, Montana. The proposed exploration program includes diamond drilling from the surface and driving a raise from the No. 2 to the No. 1 adit. Estimated cost of the project as requested by the applicant amounted to $40,000.

The same property has been the subject of two previous applications for exploration assistance, DMEA-4437, which was denied without prejudice to the property in 1956, and OME-6566, which was not completed and subsequently placed in the inactive file. Mr. D. L. "Casey" Jones, Vice President, and General Manager of the present applicant, was a principal in each of the previous applications.

The Monarch Mine is reported to have produced ores valued at about a million dollars, with most production dating before 1900. No exact data is available on this early production. The mine maps furnished by the applicant do not provide detail on the extent of mined areas, the nature of the vein material and wall rock, or the mutual relations of intersecting mineralized faults. The mine workings are only partly accessible, so that only limited information is directly obtainable.

The applicant proposes to drive a raise in the main east-trending vein from the No. 2 tunnel to the No. 1 tunnel as a means of exploring the vein. The mine maps indicate that this raise would be started only 50 feet from an entry to a stope on that vein. The extent of stoping is unknown, and therefore,

the amount of ore that might be discovered by such a raise is questionable, but is probably less than enough to repay the Government's share of the cost out of royalties on production. In addition, the purpose of this raise could be construed as rehabilitation of the No. 1 level, which is currently inaccessible. Since rehabilitation is not eligible for financial assistance under the OME program, except as needed to give access to specific exploration targets, this raise does not seem to be justified. Further, since the raise would start only 50 feet from a known stope, it also could be construed as development work to prepare for mining, which too is not eligible for OME assistance.

The proposed 3,000 feet of diamond-drilling is planned to test multiple targets. The applicant has identified the location and extent of some drill sites and holes, but for many of the sites the information supplied is not complete enough to define a specific target. The drill holes from sites on the North Monarch claims, for example, appear to be directed at intersecting old workings, rather than exploring for unmined segments of known veins. Other drilling on the eastward projection of the vein drifted on in the No. 1 and No. 2 tunnels appears to be prospecting, since no surface or underground evidence is cited by the applicant for drilling on the Bull Elk and eastern part of the Monarch No. 1 claims. The drilling proposed on the outlying claims would explore several broad but very weakly mineralized targets not obviously related to known veins. Surface sampling of these altered zones has returned only trace amounts of gold and silver on the Chute, Anderson, Bison Creek, and Anderson West claims, and this work also would more nearly be classed as prospecting.

The Field Examiner recommends that the application be denied because it does not contain positive evidence of favorable targets for the work items proposed. I concur with that recommendation. I also agree with the decision on the DMEA application that the denial should be without prejudice to the property as worthwhile exploration targets may be present, but, to date, the supporting geologic information has not been obtained.

Robert A. Weeks

Robert A. Weeks

cc: Director's reading file
Mineral Resources
OME reading file
Mr. Weeks

RWeeks:cac 9/29/72

United States Department of the Interior

GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

September 7, 1972

MEMORANDUM

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: Application report
OME-6867 (gold-silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

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O. M. E.
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SEP 12 1972
INITIALS | CODE

INTRODUCTION

Monarch Minerals, Inc., applied for OME assistance on Feb. 11, 1972, to explore the veins on and near the Monarch Mine by diamond drilling from the surface and by raising about 250 feet from the No. 2 to the No. 1 adit. This property was the subject of a DMEA application (DMEA-4437) that was denied without prejudice in 1956, and was also the subject of an incomplete OME application (OME-6566) in 1966. The commodities listed in the DMEA application were uranium, copper, and lead. Those in the incomplete OME application were copper and silver. Mr. D. L. "Casey" Jones was the principal officer in the two companies that applied for DMEA and OME assistance.

I visited the mine on Tuesday afternoon, June 6, 1972 and again on Wednesday morning, June 7, during which times Mr. D. L. Jones was present. Mr. William M. Hand, mining engineer from Dillon, Montana, was present on Tuesday afternoon. I visited a proposed diamond drill site on Tuesday afternoon and the accessible part of Adit No. 2 on Wednesday morning. No mapping was done because the map prepared by D. M. Pinckney and J. A. Bowsher for the DMEA application was adequate. In all, I spent about three hours at the mine.

Since my visit to the mine I have corresponded several times with the applicant in an attempt to learn exactly where he planned to drill and why. On August 30, 1972, the applicant submitted maps on which are shown, in plan and cross section, the proposed diamond drill holes together with assay data from samples cut across surface exposures of the veins.

FIELD ON-SITE REPORT

RECOMMENDATION

The application should be denied because it does not contain positive evidence of a favorable target. Veins that are the target of several proposed drill holes south of the Monarch vein contain only a trace of gold and silver where sampled in surface cuts. Drill holes planned to test the eastern part of the Monarch vein might intersect old workings instead of the vein; an accurate map of the old workings is not available.

Exploring the eastern extension of the Monarch vein possibly could delimit a modest tonnage of gold ore but more evidence is required than is in the application.

APPLICANT

Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Officers include:

President: C. E. McPherson, 75 E. Lyndale Avenue
Helena, Montana

Vice President
and General
Manager: D. L. "Casey" Jones, 524 First Street
Helena, Montana

Secretary: Gena Davy, P. O. Box 1195
Helena, Montana

PROPERTY

The application lists the following unpatented claims in Secs. 30, 31 and 32, T. 8 N., R. 6 W., and recorded in the Powell County, Montana, courthouse as follows:

Claim Name	Book	Page
Monarch	8	543
Monarch No. 1	8	545
N. Monarch	8	621
S. Monarch	9	7
Casey	9	231
Bull Elk	9	233
Ridge	9	225
Ridge 1	9	229
Anderson	9	63
E. Anderson	9	235
Anderson No. 1	9	227
Shute	9	223

Another claim, Bison Creek, is shown on a map submitted Aug. 28; book and page number of the location notice is not given. The applicant reports that he owns all the claims. I did not check the county records.

The mines workings include two long, east-trending adits at 6,773 and 7,015 feet altitude (Figure 1 - Claim, underground, index maps, and section, Monarch mine, Secs. 30, 31 and 32, T. 8 N., R. 6 W., Powell County, Montana). Two shafts have been sunk from the surface at an altitude of about 7,220 feet; one is 350 feet deep, the other is 200 feet deep. Other short adits are on the slope above the two main ones. Only the No. 2 adit was open for inspection, and it is caved at about the same place as it was at the time of the DMEA examination in October 1956.

The workings are in about the same condition as they were in 1956 and there are no more favorable showings on the surface than there were then. A few old surface cuts have sloughed, obscuring any vein material that might have been exposed earlier.

LOCATION AND ACCESSIBILITY

The Monarch mine is on the steep western slope of Bison Mountain, about 17 miles south of Elliston, Montana. The mine can be reached by following the highway east for 1 mile from Elliston, turn south and follow the Little Blackfoot River road for about 9½ miles to Ontario Creek, thence up Ontario Creek to the Monarch Creek road, and up the latter to the mine camp. The roads can be safely traversed in good weather; in wet weather the mine road might not be passable in an ordinary passenger car. An access road leads up the steep slope from the mine camp to the drill sites near the shaft collars; a 4-wheel drive vehicle is advised if one is to take this road. The slopes are moderately timbered, outcrops are rare, and grass is abundant in the open areas. Snow probably covers the ground from early November until May.

GEOLOGY

The geology of the general area is described by Ruppel (1963). Mine geology is described in old reports by Pardee and Schrader (1933, p. 266-67) and Knopf (1913, p. 79). Pinckney and Bowsher mapped the geology in Adit No. 2, for their examination report for DMEA 4437. Pinckney (open-file report, 1965) described characteristics of veins in the northern part of the Boulder Batholith, which included the Monarch vein.

The Monarch vein is along or near the contact between quartz monzonite of the Boulder Batholith and silicified quartz latite welded tuff of the Elkhorn Volcanics. The vein consists of light gray chalcedony and lesser amounts of milky quartz, galena, light red sphalerite, pyrite, chalcopyrite, arsenopyrite, and tetrahedrite. It is extremely lenticular, the lenses ranging from a few inches to 8 feet wide, and a few feet to nearly 300 feet long. At least 4 lenses are exposed in the No. 2 adit. The vein or vein zone strikes slightly north of west and dips from 75 to 85° N. Pinckney reports (open-file) that the productive parts of the veins in the area are enclosed

in a sheath of sericite that in turn is enclosed in a sheath of chalcedony and kaolin. Hence, in searching for ore shoots, one should be guided by the presence or lack of sericite. Sericite is not conspicuous in the accessible part of adit No. 2.

Specimens of ore on the dump near the Big Shaft are in dark colored, fine-grained, siliceous rock. The ore minerals are disseminated through the rock, and inspection indicates the ore is complex and would require a concentrating plant to obtain a salable product, particularly of the base metal sulfides.

Little is known concerning the veins that are supposed to exist on the Anderson claims, or the Shute and Bison Creek claims. Assay data submitted by the applicant indicates only a trace of gold and silver in samples across altered or shear zones that range from 18 to 80 feet thick. Mineralogy of the material in the sampled areas is not reported by the applicant (I did not visit the sampled sites during my visit to the mine).

According to the mine maps (figure 1), the Monarch vein changes strike, is offset along a fault, or is intersected by a northeast-trending vein east of the caved area. Unfortunately, workings in this area are inaccessible and one cannot determine the true nature of the vein. The applicant refers to reports that he has seen in a major mining company office, in which it states that a million dollars worth of ore is blocked out between the No. 1 and 2 adits--just where this ore is, one can only guess. Perhaps there are some ore shoots in the east extension of the Monarch vein.

The assay information in the application fails to support the idea that the Monarch vein is very rich. It is true, however, that the samples shown were not taken in the stoped areas and, hence, might not represent the better parts of the vein. Pardee and Schrader (1933, p. 266) report that about one million dollars of ore had been produced prior to 1916. Pinckney and Bowsher (DMEA 4437) report some production between 1918 and 1934; their figures indicate that the ore contained 20 ounces of silver per ton, 0.62 ounces gold per ton, and approximately 4 percent copper. Undoubtedly the ore produced was sorted and not mine-run; where it came from within the mine is not known. The stope maps (figure 1-section through Little Shaft) indicate that only a small part of the vein was mined and this suggests that the ore shoots are small. Location of the stoped areas near the surface further suggests that ore-grade material does not extend to any great depth.

APPLICANT'S PROPOSAL

The program proposed by the applicant includes diamond drilling from several surface sites and driving a raise from the No. 2 adit to the No. 1 adit. The planned raise is 50 feet west of the stoped area above the No. 2 adit, and will go up-dip along the vein; 250 feet of raise should reach the No. 1 adit.

The diamond drilling is planned to test several objectives. Three holes on the North Monarch claim, near the Big Shaft, will explore for veins east

of the caved area on the No. 2 adit level and in the area where old workings suggest the presence of northeast-trending veins. About 2,000 feet of hole is planned here. Details concerning the other planned holes are as follows:

Claim to be explored	Hole No.	Orientation	Length	Width of target
Shute	20	N. 90° E. -43°	250 ft	80' altered zone
Anderson West and Anderson No. 1 West	21	N. 28° E. - 42°	150 ft	20' altered zone
Anderson West	22	N. 90° W. -47°	115 ft	35' altered zone
	23	N. 90° W. -47°	180 ft	
Anderson	24	S. 0° E. -45°	100 ft	8' ?
	25	S. 0° E. -45°	200 ft	
Bison Creek	26	N. 0° E. -45°	100 ft	18' altered zone
	27	N. 0° E. -45°	150 ft	

The above includes 8 holes totalling 1,245 feet long. The maps submitted by the applicant suggests that the drill rig will have to be moved and a new set-up made for each hole. The zones to be explored by the above drilling assay only a trace of gold and silver at the surface.

The applicant plans to do his own drilling. His drillers will be paid $4.00 per hour plus insurance. Hole size will be NQ. Average rate of drilling is unknown. Mr. Jones thought he could do the drilling for $10-$12 per foot.

For the underground work, Mr. Jones plans to use three miners who will be paid $25 per day plus insurance. He thought that the raise could be completed in two months.

Mr. Jones is willing to contract the raise at $40 per foot for a total of $10,000 and the drilling for $10 per foot for a total of $30,000. According to these figures, the total estimated cost of the project is $40,000.00 of which the Government is asked to fund 75% or $30,000.00.

APPRAISAL OF PROPOSED WORK

The old reports all show that some ore has been produced from the Monarch vein. The maps, however, indicate that only a very limited part of the vein could be mined or, at least, was stoped. Samples taken from existing parts of the vein indicate that the values are spotty but do contain some silver and gold, in addition to copper and small amounts of lead and zinc. Unfortunately, the eastern part of the mine workings are inaccessible and there is no simple way to determine the character of the vein in this area. The planned drilling might be a feasible method of exploring the vein but there is

the danger that the drill holes might go through old workings instead of solid vein material. If the vein were intersected and found to contain promising amounts of ore material, there would still be the problem of gaining access to mine it.

The proposed raise will do two things; one, explore the vein zone between the two adits and, two, gain access to the eastern part of the No. 1 adit. If the mine is ever to produce, a raise probably will have to be driven, but it is difficult to justify it as part of an OME project without more information than is in the application.

There is no evidence presented in the application to justify OME participation in the diamond drilling on the claims south of the Monarch vein. The samples all show only a trace of gold and silver. Perhaps if the samples were taken across narrower widths of the altered zone there might be more promising assay results. It is presumed that the samples were collected by Mr. William M. Hand, a mining engineer, and he should be considered competent to adequately sample the zones.

COMPETENCY OF APPLICANT

Mr. D. L. "Casey" Jones has been trying to obtain Government assistance for many years as evidenced by the DMEA and OME applications. He maintains, and perhaps rightfully, that there are large unmined ore reserves above the No. 2 adit level. His basis for this belief is a report he has seen in a major mining company office--this report cannot be reproduced for submittal to OME. Sometime in recent years Mr. Jones has suffered a stroke that has affected part of his body but not his mind. He is now probably in his late 60's and naturally is not as mentally alert as in his younger days. He is adamant in his belief that the Monarch vein contains minable ore; he doesn't understand, however, that he has to have more supporting evidence for his belief than he now has.

I seriously doubt that Mr. Jones is competent to supervise an OME project. Justification for this belief is from talking to him and from the difficulty in obtaining the desired information in the application.

CONCLUSIONS

Former production has come from the Monarch vein; the ore is complex and contains lead, zinc, copper, gold, and silver. Unless the ore is concentrated the only metals of significance are gold and silver. Assay data indicate the parts of the vein might be ore-bearing; however the ore shoots are probably small.

The planned drilling on the Monarch vein is in an area that has been mined in part; the drill holes might go through old mine workings. Access to the vein, even if the drilling were successful, would be a problem.

There is no justification for the drilling proposed on the claims south of the Monarch vein.

The applicant is of questionable competence to supervise an OME exploration project. He has not submitted sufficient supporting evidence for his proposal and it is doubtful that he is able to.

The application should be denied without prejudice to the property.

REFERENCES CITED

Knopf, Adolph, 1913, Ore deposits of the Helena Mining region, Montana: U.S.G.S. Bull. 527, 14 p.

Pardee, J. T. and Schrader, F. C., 1933, Metalliferous deposits of the greater Helena mining region, Montana: U.S.G.S. Bull. 842, 318 p.

Pinckney, D. M., 1965, Veins in northern part of the Boulder Batholith, Montana: U.S.G.S. Open-file report.

Ruppel, E. T., 1963, Geology of the Basin quadrangle, Jefferson, Lewis and Clark and Powell Counties, Montana: U.S.G.S. Bull. 1151, 121 p.

Willard P. Puffett

Willard P. Puffett

Enc: Figure 1 - Claim, underground, index maps- and section, Monarch Mine, Secs. 30, 31 and 32, T. 8 N., R. 6 W., Powell County, Montana.

9/21/72

Mr. Scheeve phoned inquiring about status of application.

I told him that we had Mr. Hand's sketches & map and that the assays did not look favorable - traces of gold & silver across 18' width on surface. We will decide on application after receiving Field Officer report.

~~I told him~~.

Kirkemo.

United States Department of the Interior

GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

August 30, 1972

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O. M. E.
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SEP 5 1972
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Cal 120 MW
gla 130
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Paul Weeks

MEMORANDUM

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: Proposed Diamond-Drill Locations
OME-6867 (gold-silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Encloxed are six maps with transmittal letter from William M. Hand, Engineer, to the General Manager of Monarch Minerals, Inc. This material was sent to me in response to my request of July 28, 1972.

The enclosed material satisfactorily answers the request in my July 28 letter but it does not justify a favorable recommendation for the drilling. The trenches in which the veins crop out were sampled and none of the samples assayed more than a trace of gold and a trace of silver.

Darrel Pinckney was in our office on Wednesday, August 2, 1972, at which time he discussed the Monarch Mine with me. Darrel studied the general area in the 1950's and later wrote his Doctoral thesis describing features of the veins. He explained to me that there might be some merit in exploring the extensions of the Monarch vein but was doubtful if Mr. Jones was qualified to do the work.

I have failed to find good justification in the application for the proposed work and I could get little satisfaction from talking to the General Manager on my visit to the mine. I will prepare a report in the near future but doubt that I will favorably recommend an OME contract.

Willard P. Puffett

Willard P. Puffett

Enclosures

RECEIVED
AUG 30 1972
O. M. E.
SPOKANE, WASH.

30 S. Arizona St.
Dillon, Montana 59725
August 20, 1972

Mr. D. L. "Casey" Jones

General Manager

Monarch Minerals, Inc.

P. O. Box 122

Helena, Montana 59601

Re: OME Letter to Monarch Minerals 8/28/72
OME-6867b(Gold-Silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

In response to the above referred to letter and your instructions, I submit a sketch of the mining claims and five drilling plans - one for each area pointed out.

Let me know if I can be of further help.

Sincerely yours,

William M. Hand

William M. Hand, P.E. 969E (Mt.)

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash. 99201

July 28, 1972

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Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME-6867 (Gold-Silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

I am still waiting to receive the data about your planned drilling that I requested in my letter to you dated June 23, 1972. The claim map with notes that you sent to me on July 3 is inadequate for it does not detail the length, bearing, and inclination, nor the objective of each hole.

You have not sent me any assay data or other information about the claims on the Anderson, Shute, West Bison, and Bison Creek claims. I would need to know the thickness and metal content of the veins before I could make a meaningful appraisal of your planned exploration.

Again, please let me know the length, bearing, and inclination of all your planned drill holes. Also make a cross section through each hole on which you can indicate the expected intersection of the hole with the vein. It will be very difficult for me to recommend OME participation in your project unless you can give me more positive information than we now have.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: OME
DRF

WPPuffett/se

Standard Form 63 (rev.)
March 1959
63-103

MEMORANDUM OF CALL

Date	Time
7/24	2:45

TO—

Mr. Kirkemo

☒ YOU WERE CALLED BY— ☐ YOU WERE VISITED BY—

Mr. Dockstader - in Sen. Mansfields office

TELEPHONE:	Number or code	Extension
	180 2644	

☒ PLEASE CALL
☐ WILL CALL AGAIN
☐ RETURNING YOUR CALL
☐ IS REFERRED TO YOU BY:
☐ WAITING TO SEE YOU
☐ WISHES AN APPOINTMENT

LEFT THIS MESSAGE: In re. to application OME 6867.

Phoned Dockstader 7/25 & 7/26.
He merely expressed the Senator's interest in the Applicants proposal & application. Would like to be advised as to C's decision on application.

Received By—

U.S. GOVERNMENT PRINTING OFFICE: 1959 OF—512919

United States Department of the Interior

GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash. 99201

July 7, 1972

MEMORANDUM

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6867 (gold-silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

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Enclosed are a letter and sketch map submitted to me in response to my request in a letter dated June 23, 1972. Obviously, Mr. Jones does not understand when I ask that he give me the location, bearing, inclination, and length of the drill holes he plans. He also has not submitted the cross sections showing the proposed intersection between the drill holes and the Monarch vein.

I visited the mine on June 12 and 13, 1972, during which time Mr. Jones was present. Mr. William Hand, Dillon, Montana, was also at the mine on June 12, and I presume that he will be Mr. Jones's consultant and engineer. The two of them should be able to furnish me with the required drill hole data and cross sections. If these cannot be obtained, I recommend that the application be denied because of lack of evidence for a satisfactory target and inadequacy of data in application.

Willard P. Puffett

Willard P. Puffett

Enclosure

SILVER COPPER GOLD

MINE—ELLISTON & HELENA DISTRICT

P. O. BOX 122, HELENA, MONTANA 59601

MONARCH MINERALS, INC.

HELENA, MONTANA

7/3/72

RECEIVED
JUL 5 1972
U.M.E.
SPOKANE, WASH

Office of Mineral Exploration
Spokane, Wash., 99201

Re: OME 6867 (gold-silver)

Dear Mr. Puffett:

Enclosed you will find a sketch map of Monarch Mine. Because of daily showers we have not completed some actual survey but think I have included enough data on the sketch map. There have been no other claims located on Bison Mountain. We intend to do some backhoe work and if we locate any veins we will then file on the ground. The Anderson claims as well as chute Bison W. & Bison Crk. claim all have veins exposed by cut. That is why we want to do some exploratory drilling.

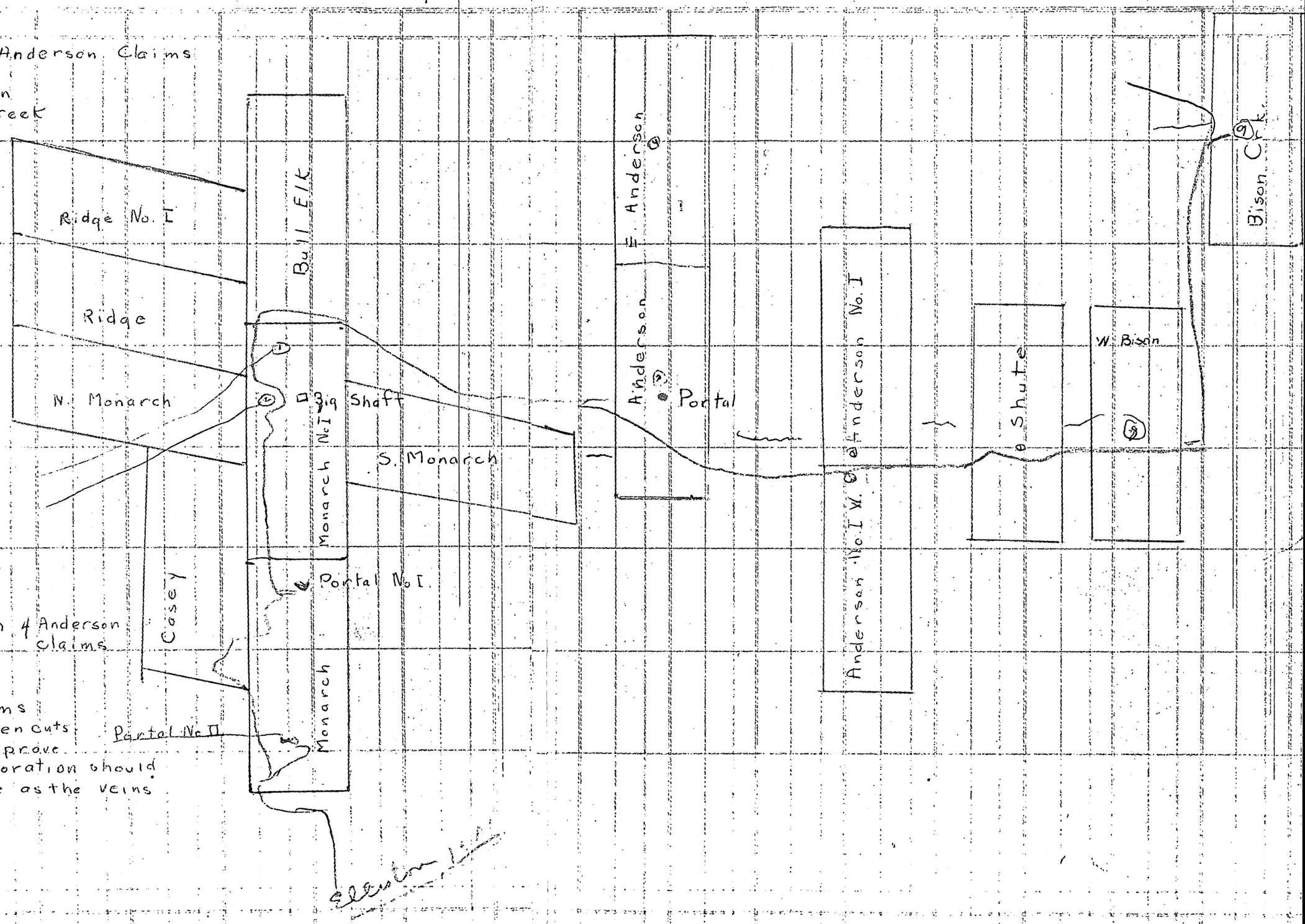
Respectfully,
D. L. Casey Jones

OME-6867 (gold-silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Sketch Map-Monarch Claims 7/1/72

Drill sites 3, 4, 5 & 6 Anderson Claims
" " No. 7 Shute
" " No. 8 W. Bison
" " No. 9 Bison Creek

Exact Distances 3 to 6 + 7, 8 + 9 not shown. All accessible by our road. At least drill footage of 1,000 ft to 2,000 ft on engineers o.k.



1,000 to 1,2000 ft. 3 holes
No. I Drill site

900 to 1,000 ft. 2 holes
No. 2 Drill site

Known Veins cut in 4 Anderson claims

also
Shute W. Bison
Bison Creek Claims

These were open cuts should be drilled to prove depth. This exploration should prove very valuable as the veins are wide

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

June 23, 1972

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Cac 120 m
HK 120

Re: OME-6867 (gold-silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

Perhaps you might have misunderstood my comments in our telephone conversation yesterday. You asked me to continue processing your application before I received the claim maps, etc., that I requested in my letter to you of June 16, 1972. There is really nothing more that I can do until I receive the maps.

You mentioned that you have changed your planned drilling to 2,000 feet, all on the Monarch claim. It is necessary that I know where these holes will be, their bearing, inclination, and length. Also cross sections should show the veins and assumed points of drill hole intersection with the veins. When I have this information I can then appraise your planned work and make my recommendation concerning OME participation.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: DRF
OME

WPuffett/at

450,000 tons of P2O5 annually.

Old Mont. Monarch Mine Now Being Reopened

HELENA, Mont.—Monarch Minerals Inc. has reopened the Monarch Mine in the mountains near here, and has begun exploration work, D.L. "Casey" Jones, company vice president and general manager, announced at a board of directors meeting in Helena.

The company is presently driving a raise from the 1,700-foot lower tunnel to the 1,600 foot upper tunnel and will drive to determine the commercial value of ore bodies of copper, silver, gold and lead in the mine.

Seven or eight core holes will be drilled as soon as the snow clears on the property, Jones said. First shipment of core samples was expected this week, he added.

The company has purchased a diamond drill, a bulldozer and a 600-foot compressor for the work and has moved this equipment to the mine. In addition it has built several new buildings at the site.

According to Jones, if the results of the core drilling are successful a mill will be established on the property.

The raise is being run on a 2-foot vein between the drift and hanging wall. An ore sample taken from the rasie area assayed .78 ounces gold, 14½ ounces silver, 4.9 per cent copper and 1.75 per cent lead.

Ore samples taken in the lower tunnel have run between $60 to $70 per ton value. "This does not intend to state that all ore will be this value, but it does seem to indicate that exploration and diamond drilling will prove a body of good commercial ore," he said.

The Monarch Mine was discovered and opened in 1884 and between that time and 1949, a million dollars was recovered in copper, silver, gold and lead, according to U.S.G.S. Bulletin 842. Production in 1949 was from a shaft at the top of the ridge, with the vein measuring 200 feet wide at the bottom of the shaft. Work in the mine was abandoned after this because of the low price of metals.

In 1906, a 1,600-foot tunnel was driven into the mine, and in 1934 a 1,700-foot tunnel was driven 250 feet below the previous one.

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash. 99201

June 16, 1972

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JUN 19 1972

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JK	~~120~~

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME 6867 (gold-silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

This will confirm the subject of our conversation during my recent visit to the Monarch Mine. I will delay processing your OME application until I receive an accurate claim map on which are plotted the various underground workings and locations of your proposed diamond drill holes.

I am concerned that your planned raise from the No. 2 adit is too close to old stoped ground. The center of the raise is only 50 feet from the west ore chute below the stoped area; perhaps the raise will intersect the edge of the stope if driven vertically along the vein.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: OME
DRF

WPPuffett/se

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

June 7, 1972

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Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME-6867 (gold-silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

This will confirm our telephone conversation of last evening wherein you requested that I delay my examination of your mine until Monday, June 12, 1972.

Unless I hear otherwise from you, I plan to meet you at the store in Elliston, Montana, about 2:30 p.m. on Monday, June 12, 1972. I will spend the rest of the day and the next morning at the Monarch mine and plan to return to Spokane on Tuesday afternoon.

Please let me know, no later than Friday afternoon, if I cannot make the examination as scheduled.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: DRF
OME
Puffett/at

Monarch Minerals Reopens Copper-Silver-Gold Mine

OME

MR - 5/17/72

HELENA, Mont.—Monarch Minerals Inc. has reopened the Monarch Mine in the mountains near here, and has begun exploration work, D.L. "Casey" Jones, company vice president and general manager, announced at a board of directors meeting in Helena.

The company is presently building a raise from the 1,700-foot lower tunnel to the 1,600-foot upper tunnel and will drill to determine the commerial value of ore bodies of copper, silver, gold and lead in the mine.

Seven or eight core holes will be drilled as soon as the snow clears on the property, Jones said. First shipment of core samples was expected this week, he added.

The company has purchased a diamond drill, a bulldozer, and a 600-foot compressor for the work and has moved this equipment to the mine. In addition, it has built several new buildings at the site.

According to Jones, if the results of the core drilling are successful a mill will be established on the property.

The raise is being built on a 2-foot vein between the drift and hanging wall. An ore sample taking from the raise area assayed .78 ounces gold, 14½ ounces silver, 4.9 per cent copper, and 1.74 per cent lead.

Ore samples taken in the lower tunnel have run between $60 to $70 per ton value. "This does not intend to state that all ore will be this value, but it does seem to indicate that exploration and diamond drilling will prove a body of good commercial ore," he said.

The Monarch Mine was discovered and opened in 1884 and between that time and 1949, a million dollars was recovered in copper, silver, gold and lead, according to U.S.G.S. Bulletin 842. Production in 1949 was from a shaft at the top of the ridge, with the vein measuring 200 feet wide at the bottom of the shaft. Work in the mine was abandoned after this because of the low price of metals.

In 1906, a 1,600-foot tunnel was driven into the mine, and in 1934 a 1,700-foot tunnel was driven 250 feet below the previous one.

Ore was shipped from the mine in the second effort, but again it was abandoned when mineral prices dropped.

Jones acquired the property in 1950 and did a lot of prospecting and rehabilitation work. In 1969, Monarch Minerals Inc. was formed to take over the property and begin reworking the mine.

Monarch Minerals completed a public offering December 1, 1971, with a little over 12 million shares of common stock sold at two cents per share.

SILVER COPPER GOLD

MINE—ELLISTON & HELENA DISTRICT

P. O. BOX 122, HELENA, MONTANA 59601

MONARCH MINERALS, INC.

HELENA, MONTANA

OFFICIAL COPY O. M. E. RECEIVED MAY 19 1972

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last weeks

May 15, 1972

Willard P. Puffett
U.S.Geological Survey
Spokane, Washington

Dear Mr. Puffett:

Your letter of May 4th regarding withdrawal of our loan application from O.M.E. I did not give data to Western Mining News. Apparently our broker did, without getting okeh from us.

As to our application, we plan on going ahead as we are working a small crew, and started bulldozing the road to drill sites last week. Will either see you in Spokane, or phone you when possible for you're take a look.

Sincerely,

D L Casey Jones

D L. Casey Jones

RECEIVED MAY 16 1972 O. M. E. SPOKANE, WASH.

Re: OME-6867 (gold-silver)
Monarch Minerals Inc.
Monarch Mine
Powell County, Montana

Office of Minerals Exploration
656 U. S. Court House
Spokane, Wash., 99201

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O. M. E.
RECEIVED
MAY 15 1972

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Rew	130
HK	120

May 10, 1972

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME-6867 (gold-silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

According to an article in the May 5, 1972, issue of Western Mining News, you are presently driving the raise from the 1,700 to the 1,600 tunnel and are planning to do some diamond drilling. The article also states that a proposal will be made by National Treasure Mines of Salt Lake to acquire the assets of Monarch Minerals, Inc.

I wonder if you are still interested in having your application for OME assistance processed. I was planning on examining the Monarch Mine when snow conditions permitted and was waiting to hear from you.

If you plan to withdraw your OME application please let me know at the earliest possible date, so that I can change my plans accordingly.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: DRF
OML/w xerox of nsp article

WPuffett/at

May 5, 1972

OME-6867

Monarch Minerals, Inc.

to Close Wire Mill

and Cable Co. that it will dis- aluminum wire t Great Falls,

n, president of nd Cable Co., nt will be effec- He added that e and Cable Co. ons, both alumi- are not affected of the wire mill. at this curtail- on other opera- nda Co. in Great

lained the dis- necessary be- bare wire plant enough for ef- mic operations npetitive condi- at other plants e ample capacity tomer require- sers located in

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0 tons was mined r, compared to 970. Nearly 47,- ned at the Mid- remainder from Mine in Alaska. e ore was mined

ay property was t from Kendrick and assigned to 000 tons of high taining 687,000 oxide was ship- skan mine to the e stockpile for ldnite ore, thus ade of the mill

d ore milled last 361 per cent ura- pared with 0.281

ade of mill feed recovery resulted of uranium con- the decline in

Mine Reopened by Monarch Minerals

Monarch Minerals, Inc., Helena, Montana, has reopened the Monarch Mine in the mountains near Helena, and has begun exploration work, D. L. "Casey" Jones, company vice president and general manager announced at a board of directors meeting in Helena. The meeting was called to report on progress of the company and reorganize the board of directors.

The company is presently building a raise from the 1,700 foot lower tunnel to the 1,600 foot upper tunnel and will drill to determine the commercial value of ore bodies of copper, silver, gold, and lead in the mine.

Seven or eight core holes will be drilled as soon as the snow clears on the property, Mr. Jones said. First shipment of core samples was expected this week, he added.

The company has purchased a diamond drill, a bulldozer, and a 600 foot compresser for the work and has moved this equipment to the mine. In addition, it has built several new buildings at the site. According to Mr. Jones, if the results of the core drilling are successful a mill will be established on the property.

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In 1906, a 1,600 foot tunnel was driven into the mine, and in 1934 a 1,700 foot tunnel was driven 250 feet below the previous one. Ore was shipped from the mine in this second effort, but again it was abandoned when mineral prices dropped.

Mr. Jones acquired the property in 1950 and did a lot of prospecting and rehabilitation work. In 1969, Monarch Minerals, Inc. was formed to take over the property and begin reworking the mine. Monarch Minerals completed a public offering December 1, 1971, with a little over 12 million shares of common stock sold at 2 cents per share. Underwriter was Holt, Murdock Securities, Inc. of Helena.

In the obard reorganization, Col. F. J. Murphay, Assistant Chief of Staff for the Air National Guard in Helena, was named as new company president and a director. D. L. "Casey" Jones, former company president was named vice president and director. He continues in his position as general manager of the company.

Robert Holliday of Helena, who is with the Department of Revenues for the State of Montana, was elected as treasurer and director. Jack G. Holt, an officer in Holt, Murdock Securities, Inc., and owner of a shoe store in Helena, was re-elected to the board and named as assistant treasurer.

Others named to the board were Dr. S. J. Score, a chiropracter in Helena; Jack Havard, a Houston, Texas, CPA; and Edward Silver, Los Angeles, California, business manager for actor Lee Marvin.

The bard of directors will be ratified by stockholders at the company's annual meeting scheduled for June 7 at 10:00 a.m. at the Black Sands Supper Club in Helena. Also to be presented to the stockholders at the meeting will be a proposal by National Treasure Mines of Salt Lake to acquire the assets of Monarch Minerals, Inc. in exchange for National Treasure Mines stock. The board of directors is considering the proposal and will make a recommendation on it to the stockholders at the meeting, Mr. Jones stated.

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

March 21, 1972

Cal 120 m
HK 120
Rec ~~Weeks~~

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME-6867 (gold-silver)
Monarch Minerals Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

Your recent OME application has been referred to me for a field examination. I now plan to be in Montana during the early part of May, and hope that the snow conditions will have improved so that I can reach your property in my automobile and that an inspection can be made of your surface drill sites. The underground workings should be made safe for inspection. When my plans for being in Montana are more definite I will notify you of the exact date of the planned examination.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: OME
DRF

WPuffett/at

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/17/72		120
		220
		120M

AIRMAIL

Mr. D. L. "Casey" Jones
General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

MAR 17 1972

Re: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

Thank you for your letter of March 9, 1972. We have reviewed your application and referred it to Mr. Willard P. Puffett, OME Field Officer, Region I, U. S. Geological Survey, U. S. Courthouse, Room 656, West 920 Riverside Avenue, Spokane, Washington 99201.

We discussed your letter with Mr. Scheewe yesterday and mentioned to him that budgetary constraints this year restrict the OME to the point where only modest assistance can be offered to a few of the more promising proposals. First priority is given to applications already processed and only those offering the best probability of making a significant discovery can be considered for contracts to the extent that funds will permit. Your application is being considered within these limitations.

Your suggestion that a commitment be made in two parts, one to July 1 and the balance the following three months, would not be acceptable to us. Funds are not advanced to the operator, and we are not convinced that your proposed raise would be an allowable exploration item.

Federal funds for an approved project are provided through the payment of the Government's share of allowable costs incurred each month as work proceeds under terms of a contract. An operator must have sufficient funds to bear the total costs of the project work for the first six to eight weeks or until Government payment is received for the first month of work completed and approved. Payments of the Government's share are made thereafter as vouchers are submitted, reviewed, and approved.

The Field Officer will notify you if additional information is required.

Nothing in this letter should be construed as a commitment by the Government that a contract will be offered.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to:
Mr. Lawrence Scheewe
Attorney at Law
1196 National Press Building
Washington, D. C. 20004

with copy Mr. Jones' letter 3/9/72
and enclosures

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File
OME Region I
Mr. Kirkemo

HKirkemo/gla 3-17-72

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/17/72		120
		220
		120M

AIRMAIL

MAR 17 1972

Memorandum

To: Field Officer, Region I

From: Chief, Office of Minerals Exploration

Subject: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

The subject application is referred to you for review, a field examination if necessary, and recommendations.

The Applicant's response to our letter of March 2, 1972, was not very informative. Further requests by letter for specific details probably would result in equally unrewarding letters. We suggest that you try to get the information from the Applicant when you examine the property, assuming that an on-site visit is made and, particularly, if favorable action is recommended on the application.

As you know, we wonder if Government participation is warranted to test the proposed target. Is the northeasterly-trending segment of the vein a valid target? The projected ore shoot shown on the "Section Along Vein Thru Little Shaft - Looking North" appears to be on the southeast-trending portion of the vein. Mr. Jones' cost estimates are without support. Although the total replacement value of the equipment is estimated at $29,070.00, depreciation on only a few of the larger items would be allowed in lieu of cash for the Operator's share of the costs. The application does not state that the mine workings are accessible for inspection, although access is implied from a statement that a small crew is working at the mine. Mr. Scheewe told me today that he did not think the lower adit was open very far beyond the turn to the northeast. Apparently, the workings were not accessible when the previous application (OME-6566) was submitted.

We discussed Mr. Jones' letter with Mr. Schweewe here March 16 and no doubt he will relay our remarks to Mr. Jones. Mr. Schweewe understands what we need and agrees that replies to further requests to Mr. Jones would be similarly nonspecific.

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File

Mr. Kirkemo
130

Harold Kirkemo

Harold Kirkemo

HKirkemo/gla 3-17-72
Enclosures

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/1/72		120
		220
3/2	cal	120M

AIRMAIL

MAR 2 1972

Mr. D. L. Jones
Vice President and General Manager
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: OME-6867 (Gold-Silver)
Monarch Minerals, Inc.
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

We have reviewed your application for financial assistance to explore the Monarch Mine and find that additional information is necessary to complete the application. Mr. Lawrence Schweewe, Attorney-at-Law, Washington, D. C., who conferred with us on March 1 about the application, may have contacted you by now regarding the additional information. Mr. Willard P. Puffett, Field Officer, OME Region I, has previously asked you for a list of equipment owned by the company.

Please describe and show on maps the specific targets you propose to explore by diamond drilling and submit supporting geologic evidence, such as maps, showing projections, assays, etc., for these targets. Show also the locations, bearings, lengths and inclinations of the proposed drill holes. Do you have any sample or assay data in the surface trenches and in the lower tunnel?

The location of the proposed raise is shown on the map submitted with the application, but no justification is offered for driving the raise or for selecting that particular site. Driving a raise between two previously developed levels would be considered development-type work rather than exploration and may not be eligible for assistance under the OME program.

Please submit a map showing all the claims listed under 2(b) of the application. Where are these claims recorded, and has the required assessment work been done regularly?

Please note under Item 7 the requirement for detailed estimates of the necessary costs for time and materials for each item of work. If the work is not to be contracted, what is the basis for the cost estimates?

reply 3/9/72
left side

Submittal of the above information should be not construed as a commitment by the Government that a contract will be offered.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File
OME Region I
Mr. Kirkemo

HKirkemo/gla 3-1-72

February 18, 1972

Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Subject: OME-6867

Gentlemen:

Your application for exploration assistance, dated February 11, 1972, submitted to our office at Spokane, Washington, has been assigned Docket No. OME-6867.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to Region I

OFFICE OF MINERALS EXPLORATION
656 U. S. Court House
Spokane, Wash., 99201

February 14, 1972

FEB 20
HK

Mr. D. L. Jones
Monarch Minerals, Inc.
P. O. Box 122
Helena, Montana 59601

Re: New application (gold, silver)
Monarch Mine
Powell County, Montana

Dear Mr. Jones:

Omitted from your application that arrived here today are property and geologic maps as well as the lists of equipment costing less than $50.00 and operating equipment valued at $35,000. I am sure that this omission was an oversight on your part.

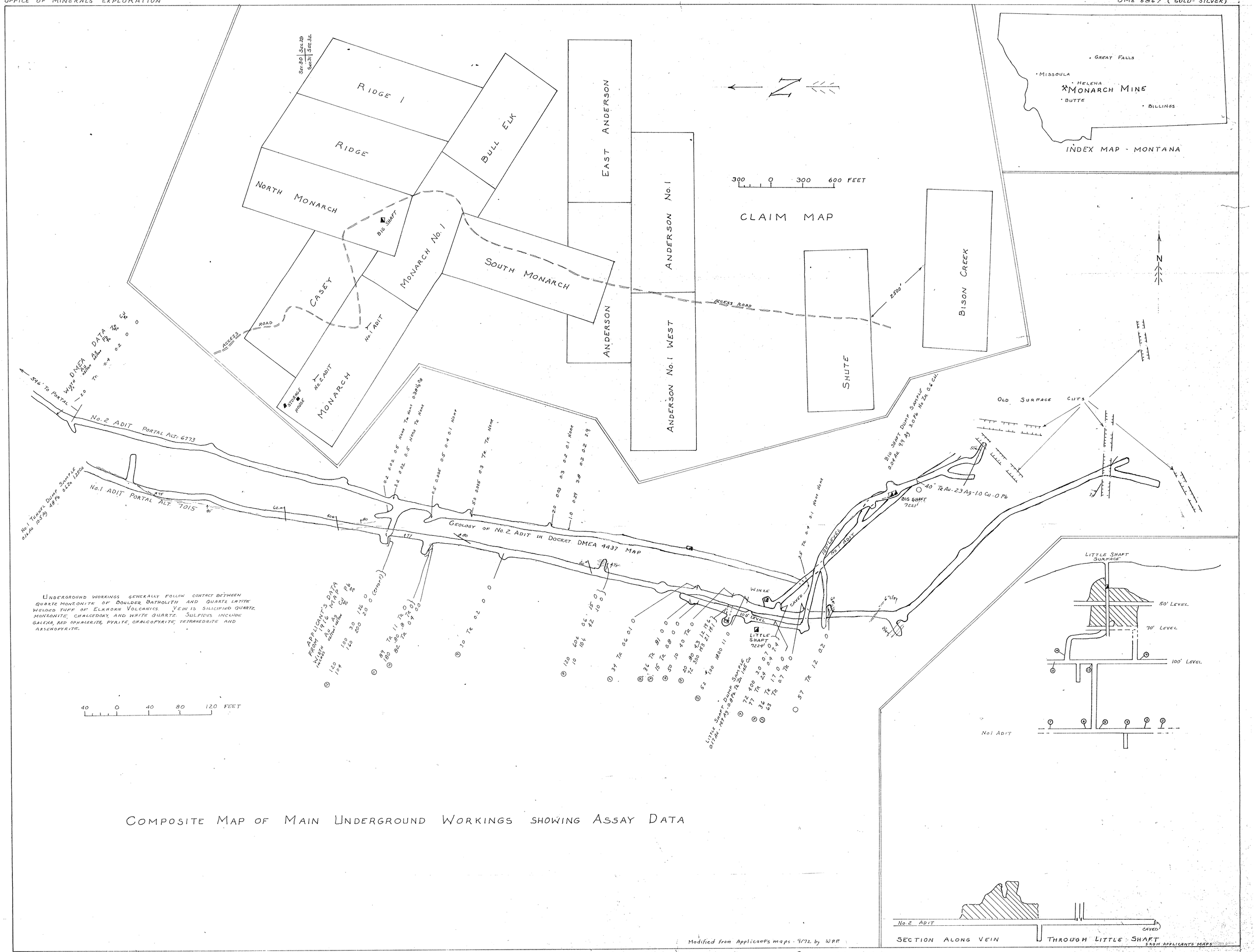
Please indicate on your property map the location of the proposed exploration with respect to your property boundaries. I will watch for the early arrival of the above documents.

Sincerely,

Willard P. Puffett
Field Officer, Region I

cc: CME
DRF

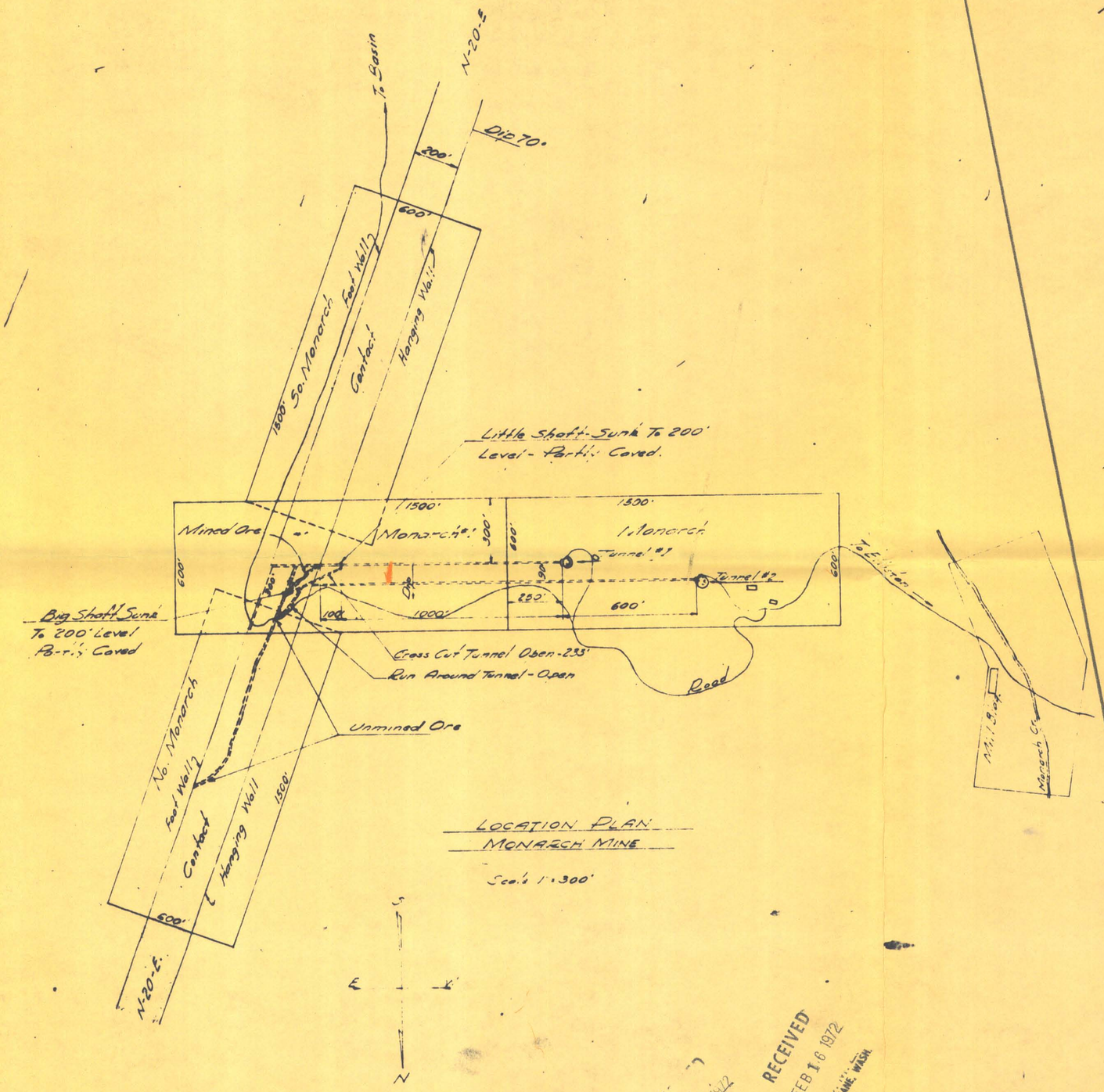
WPuffett/at



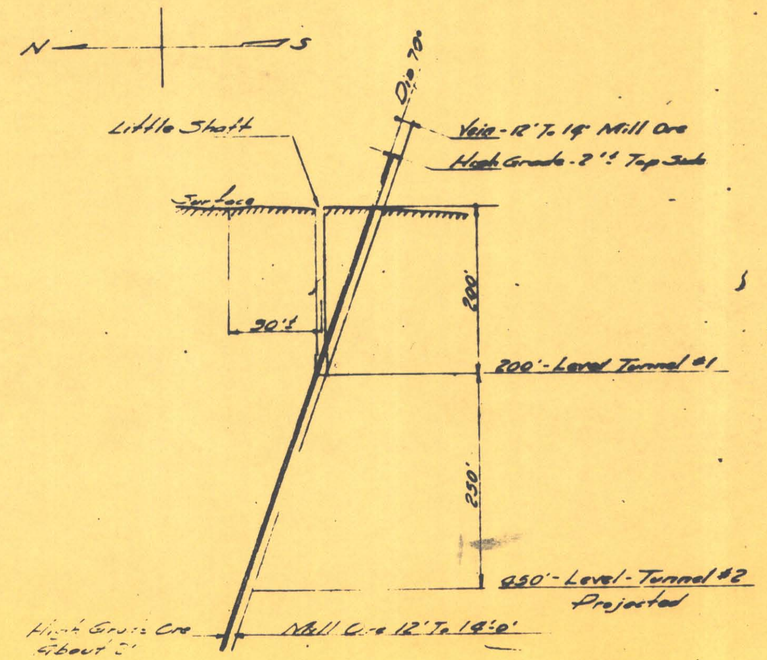
Composite Map of Main Underground Workings Showing Assay Data

Modified from Applicant's maps - 9/72 by WPP

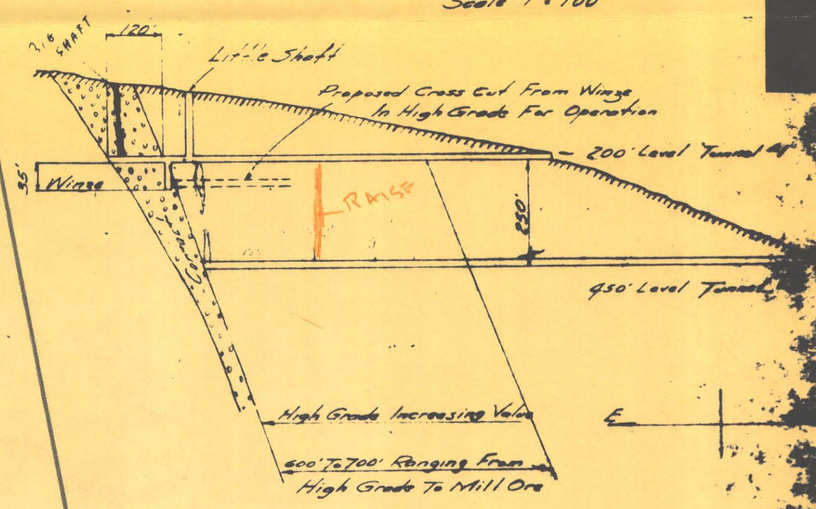
Figure 1- Claim, Underground, Index Maps and Section, Monarch Mine, Secs. 30, 31, 32, T.8N, R.6W, Powell County, Montana



LOCATION PLAN
MONARCH MINE
Scale 1" = 300'



VERTICAL SEC. AT LITTLE SHAFT
Scale 1" = 100'



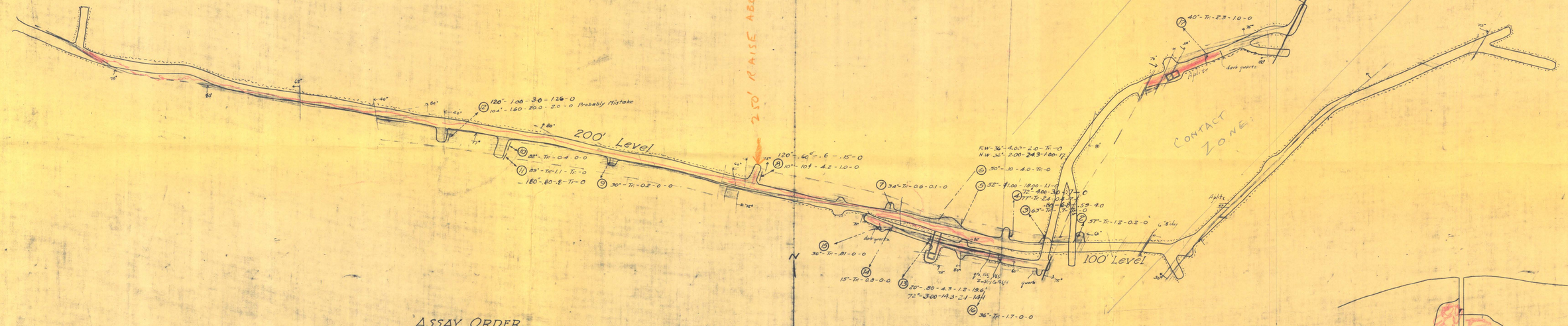
VERTICAL SEC. ON VEIN
Scale 1" = 200'

LOCATION PLAN
MONARCH MINE
ELLISTON, MONTANA
Underground Data
by
S. Standish

RECEIVED
FEB 15 1972
O.M.E.
SPOKANE, WASH.

RECEIVED
FEB 15 1972
O.M.E.
SPOKANE, WASH.

RECEIVED
FEB 16 1972
SPOKANE, WASH.



ASSAY ORDER

WIDTH
GOLD
SILVER
COPPER
LEAD

MONARCH MINE

ELLISTON, MONTANA

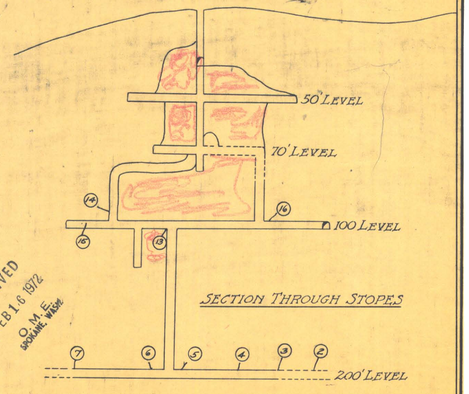
SCALE 1 IN = 40 FT.

1916

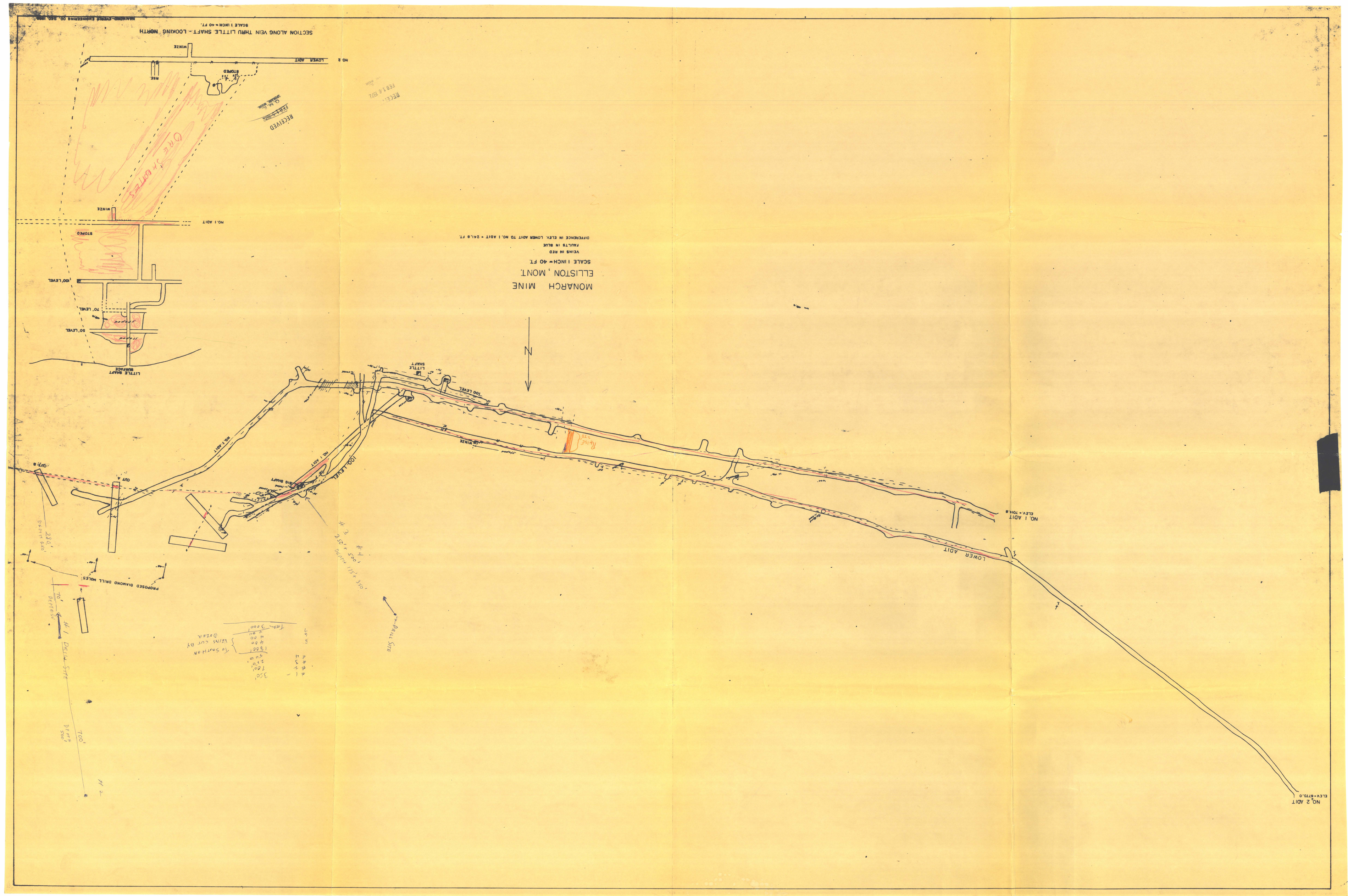
ELEVATIONS

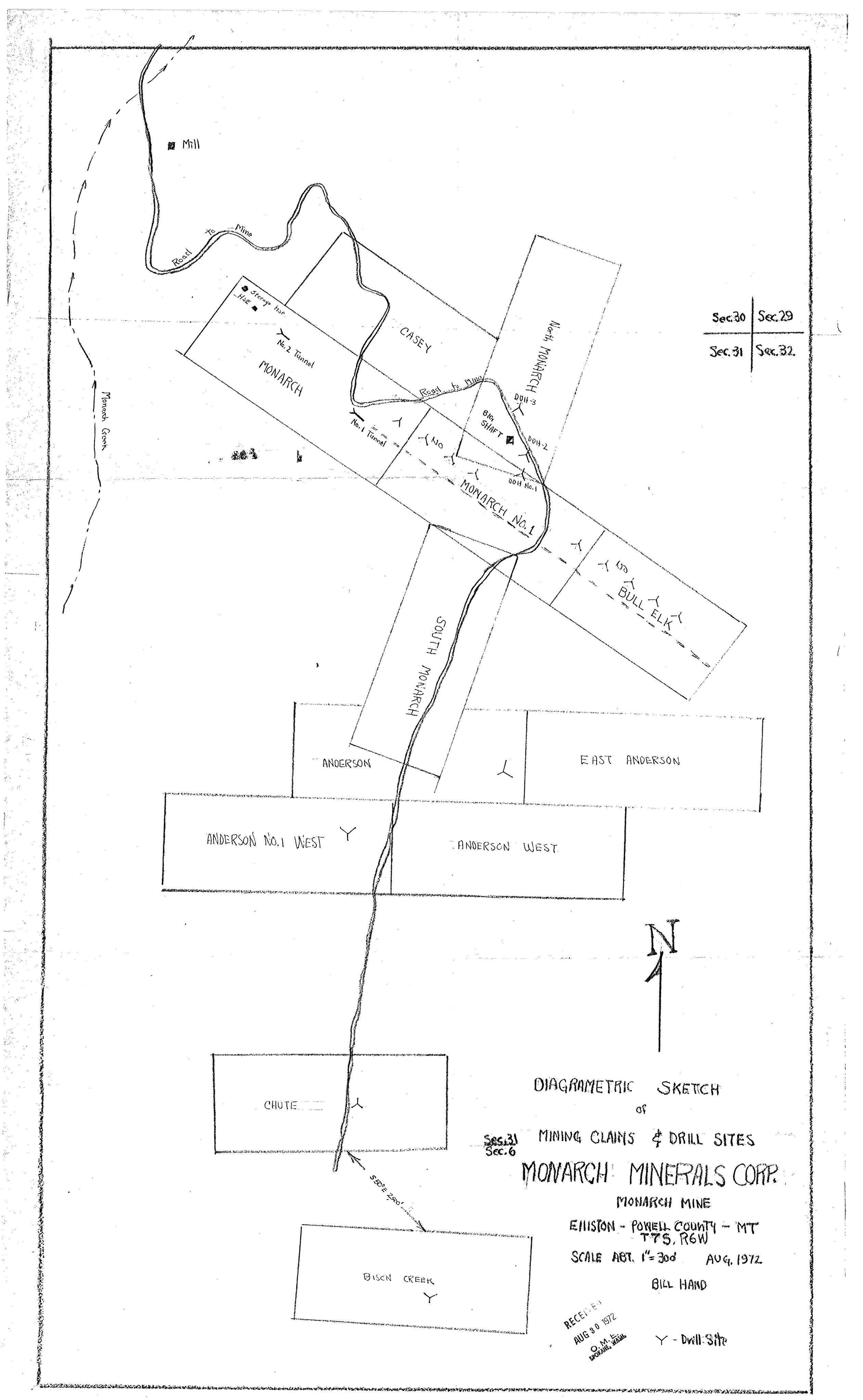
COL. No. 1	7201.
" " 2	7218.
50' LEVEL	7165
70' "	7141.
80 "	7121.
100 "	7098.

RECEIVED ~~FEB 15 1972~~ O.M. SPOKANE WASH.
RECEIVED FEB 16 1972 O.M. SPOKANE WASH.



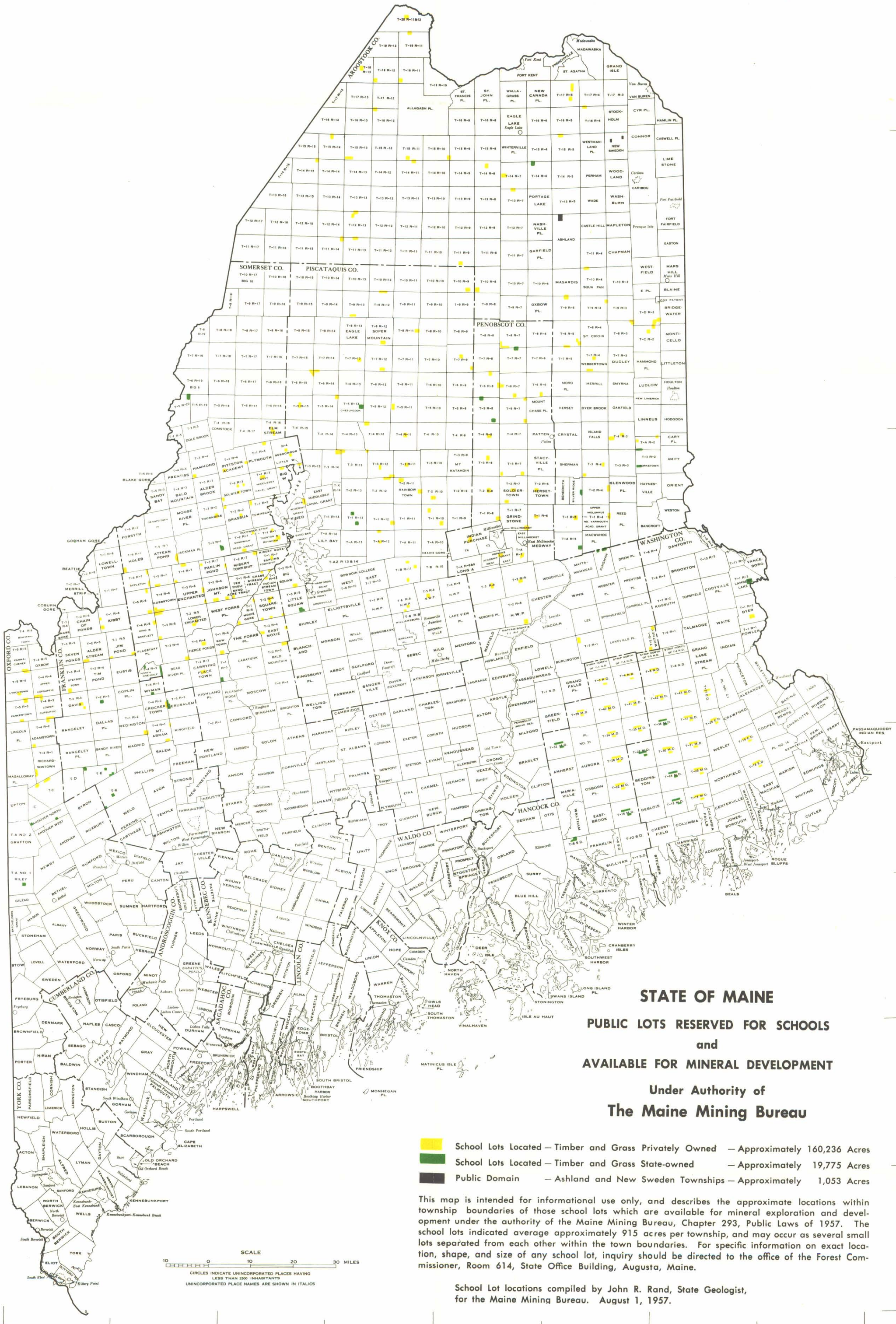
SECTION THROUGH STOPES


MONARCH MINE
ELLISTON, MONT.
SCALE 1 INCH = 40 FT.
VEINS IN RED
FAULTS IN BLUE
DIFFERENCE IN ELEV. LOWER ADIT TO NO. 1 ADIT = 241.8 FT.
N
NO. 2 ADIT
ELEV. = 6773.0
LOWER ADIT
NO. 1 ADIT
ELEV. = 7014.8
100 LEVEL
LITTLE SHAFT
WINZE
NO. 1 ADIT
CUT A
CUT B
PROPOSED DIAMOND DRILL HOLES
Dump Site
LITTLE SHAFT SURFACE
60' LEVEL
70' LEVEL
100' LEVEL
STOPED
WINZE
NO. 1 ADIT
STOPED
RISE
NO. 2 LOWER ADIT
WINZE
SECTION ALONG VEIN THRU LITTLE SHAFT - LOOKING NORTH
SCALE 1 INCH = 40 FT.
MANNING-CRAWFORD ENGINEERING CO. BOZEMAN


Mill
Road to Mine
Storage Hse
HSE
No. 2 Tunnel
MONARCH
CASEY
North MONARCH
Road to Mine
DDH-3
BIG SHAFT
DDH-2
DDH No. 1
No. 1 Tunnel
MONARCH No. 1
BULL ELK
Monarch Creek
SOUTH MONARCH
ANDERSON
EAST ANDERSON
ANDERSON No. 1 WEST
ANDERSON WEST
CHUTE
S 80° E 2500'
BISON CREEK
Sec. 30
Sec. 29
Sec. 31
Sec. 32
N
DIAGRAMETRIC SKETCH
of
Sec. 31
Sec. 6
MINING CLAIMS & DRILL SITES
MONARCH MINERALS CORP.
MONARCH MINE
ELLISTON - POWELL COUNTY - MT
T7S, R6W
SCALE ABT. 1" = 300'
AUG. 1972
BILL HAND
RECEIVED
AUG 30 1972
O. M. E.
SPOKANE, WASH.
Y - Drill Site

MAINE

MINOR CIVIL DIVISIONS-TOWNS AND CITIES



STATE OF MAINE

PUBLIC LOTS RESERVED FOR SCHOOLS
and
AVAILABLE FOR MINERAL DEVELOPMENT

Under Authority of

The Maine Mining Bureau

School Lots Located — Timber and Grass Privately Owned	— Approximately	160,236 Acres
School Lots Located — Timber and Grass State-owned	— Approximately	19,775 Acres
Public Domain — Ashland and New Sweden Townships	— Approximately	1,053 Acres

This map is intended for informational use only, and describes the approximate locations within township boundaries of those school lots which are available for mineral exploration and development under the authority of the Maine Mining Bureau, Chapter 293, Public Laws of 1957. The school lots indicated average approximately 915 acres per township, and may occur as several small lots separated from each other within the town boundaries. For specific information on exact location, shape, and size of any school lot, inquiry should be directed to the office of the Forest Commissioner, Room 614, State Office Building, Augusta, Maine.

School Lot locations compiled by John R. Rand, State Geologist, for the Maine Mining Bureau. August 1, 1957.

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Price 30 cents

U. S. GOVERNMENT PRINTING OFFICE : 1958 O - 497976