DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4492

Application (Denied
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
Application and attachments Bids
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9779

Cgor.

POWER OF ATTORNEY

We the undersigned owners of record of certain Patented and Unpatented Mining Claims in Ouray County Colorado, to wit:

a. Treasure Trove Lode Mining Claim U. S. Survey 2201;

b. Rough and Ready Lode Mining Claim U. S. Survey 2202;

As recorded in Book 152, Page 66, of Ouray County Records at 9:05 AM September 7, 1955.

c. Green Girl Claim (Non-Patented);

d. Blue Girl Claim (Non-Patented);

As recorded subsequently.

RECEIVED NOV 30 1956 D.M.E.A.

Do hereby Appoint Charles M. Shaw as our Attorney-In-Fact to represent our interests in negotiating assistance from the D. M. E. A., an agency of the United States of America.

Signed:	J. M. McFadden	J. M. McFaddon	NOV 5 1956
	Raleigh P. Nelson	R. P. Nelson	Nov 8, 1956
	B. E. Rogers	B. E. Rogers	Nov-8-1956
	P. Davis	P. Davis	Nov 9, 1956
	N. H. Dickman	N. H. Dickman	Nov. 20, 1956
	Charles M. Shaw	C. M. Shaw	Nov. 21, 1956

GEOLOGY OF OUR RED MOUNTAIN PROPERTIES

Our properties in the Red Mountain Mining District consist of two patented claims—the Treasure Trove (U.S. Survey #2201) and the Rough & Ready (U.S. Survey #2202), and two unpatented claims—the Blue Girl and the Green Girl. These claims are 14 miles south of Ouray, and less than a mile from a paved highway; a dirt road connects the lower portion of our property with the highway.

Our properties are situated in an area of Tertiary volcanic rocks along the western border of the Silverton caldera. The area is characterized by strong hydrothermal alteration of the volcanic rocks and by the occurrences of ore deposits in chimney-like forms. Our properties lie within the mile-wide belt which contains the most productive chimney deposits. The ore chimneys are associated with intrusive pipes of quartz latite porphyry and breccia, and with highly silicified and altered andesites.

Our property was a producer of high-grade copper-silver ore around 1890; in the U.S.G.S. Prof. Paper 138, "Mining in Colorado", by C. W. Henderson, the Treasure Trove is included as one of the more important mines in the Red Mountain area. Old workings consist of an adit several hundred feet long (A on map) at an elevation of 10940 ft., an adit about 150 feet long (B on map) at an elevation of 11175 ft., a shaft some 70 feet deep (C on map) at an elevation of 11240 ft.; all these workings penetrated good ore, substantial quantities of which are still to be found on the dumps of these workings. In addition, there are a number of shallower workings (D,E,F,G,H, on map) which penetrated only into the low-grade pyrite-bearing rock which surrounds the high-grade chimney deposits in this area.

The principal mineralization on our claims is a pyrite-energite ore. 2 average samples (1 & 2) of this ore from the dump by shaft C were assayed for gold, silver, and copper, as were 2 samples (3 & 4) from the dump by adit A:

Sample	Gold	Silver	Copper
1	0.08 oz./ton	4.9 oz./ton	2.30 %
2	0.06	7.2	3.45
3	0.08	23.6	10.10
4	0.05	36.3	0.40

RECEIVED NOV 30 1956 U.M.E.A.

A noteworthy feature is the apparent enrichment in silver with depth; this is in accordance with conditions found in nearby mines where the richest silver ores were found at depths of some 500 feet.

Occassionally, a fragment of very rich ore carrying bornite, stromeyerite, chalcocite, and pitchblende (?), is found on the dump. This rich ore is quite radioactive, and gives a positive sodium fluoride bead test for uranium. Quartz and barite are the commonest gangue minerals.

We have several reasons for wishing to explore this property thoroughly:

(1) There is apparently a good-sized body of energite-pyrite ore which has been penetrated from three sides by workings A, B, and C. This type of ore was not considered particularly attractive by the miners of 1890, but under today's conditions is very desirable.

(2) The area east of the fault striking N.20 E. is virgin ground as far as exploration at depth is concerned. The occurrence of highly silicified and pyritized rock in an arc east of the fault is highly suggestive of an ore chimney below. (See W. S. Burbank, "Structural Control of Ore Deposition in the Red Mountain, Sneffels, and Telluride Districts of the San Juan Mountains, Colorado", Colorado Scientific Society Proceedings Vol. 14, No. 5, (1941), pp. 161-209.)

(3) There is the possibility of commercial uranium ore on our claims. A reconnaissance radiometric survey of the property was made using a Detectron Model DR299 Nucliometer; background over relatively unaltered andesite was 0.02 mr./hr. Readings of 0.04 - 0.05 mr./hr. were obtained over iron-stained, silicified volcanic rocks along the fault zone for 200 feet north of shaft C. Readings of 0.06 - 0.08 mr./hr. were obtained over dumps of pyritic ore. A fragment of very rich copper-silver ore from the dump gave a radiometric assay of 0.15% equivalent uranium. Our claims lie in the belt which W. S. Burbank and Charles

T. Pierson (Preliminary Results of Radiometric Reconnaissance of Parts of the Northwestern San Juan Mountains, Colorado", Geological Survey Circular 236) consider favorable; a quotation from the top of page 5 of the above reference reads: "The higher-grade copper-lead-silver fragments of chimney ores found on dumps almost throughout the length of the belt contain associated radioactive material, presumably as pitchblende (table 3, K35-1 to K39-2, etc.)".

A biogeochemical survey of a portion of our property was carried out, using a modification of methods described in U.S. Geological Survey Circular 161, "Compilation of Field Methods Used in Geochemical Prospecting by the U.S. Geological Survey", indicated by the experience of C. M. Shaw working with Dr. Delavault of the University of British Columbia on a biogeochemical exploration project for New Jersey Zinc Explorations Ltd. in Canada.

Year-old twigs were taken from spruce trees at intervals on both sides of the major fault striking N.20 E.; 100 mg. samples were charred and analyzed for copper, lead, and zinc using dithizone reagent. Apparently, the roots of the trees east of the fault did not go deep enough to tap the mineralization expected at depth, as no marked anomalies were observed. West of this fault, however, distinct anomalies were obtained for about 150 feet north of shaft C, indicating that shallow and/or rich ore can be expected under this area.

The possibility of developing on our claims an orebody worth upwards of $1,000,000 is good enough to warrant the expenditure of considerable money for further exploration.

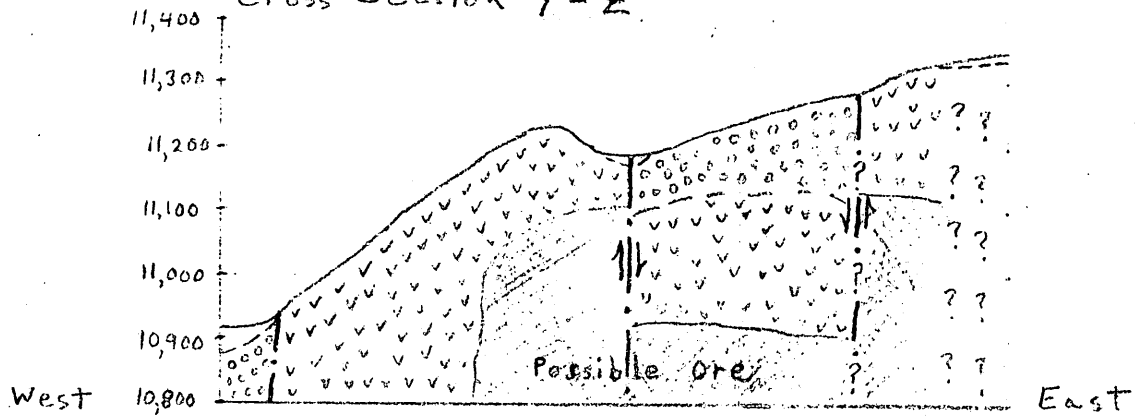
Respectfully submitted,

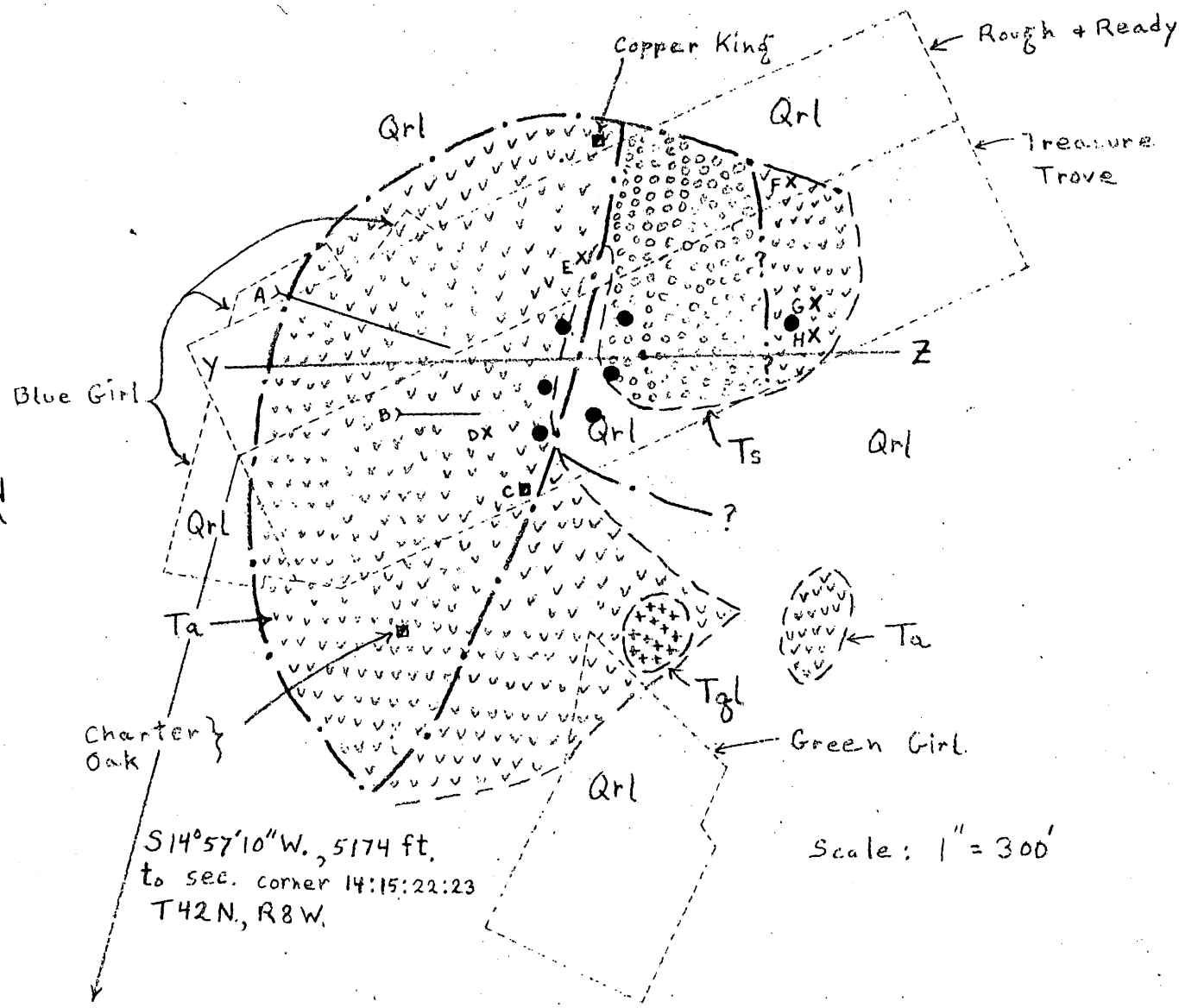
Charles M. Shaw

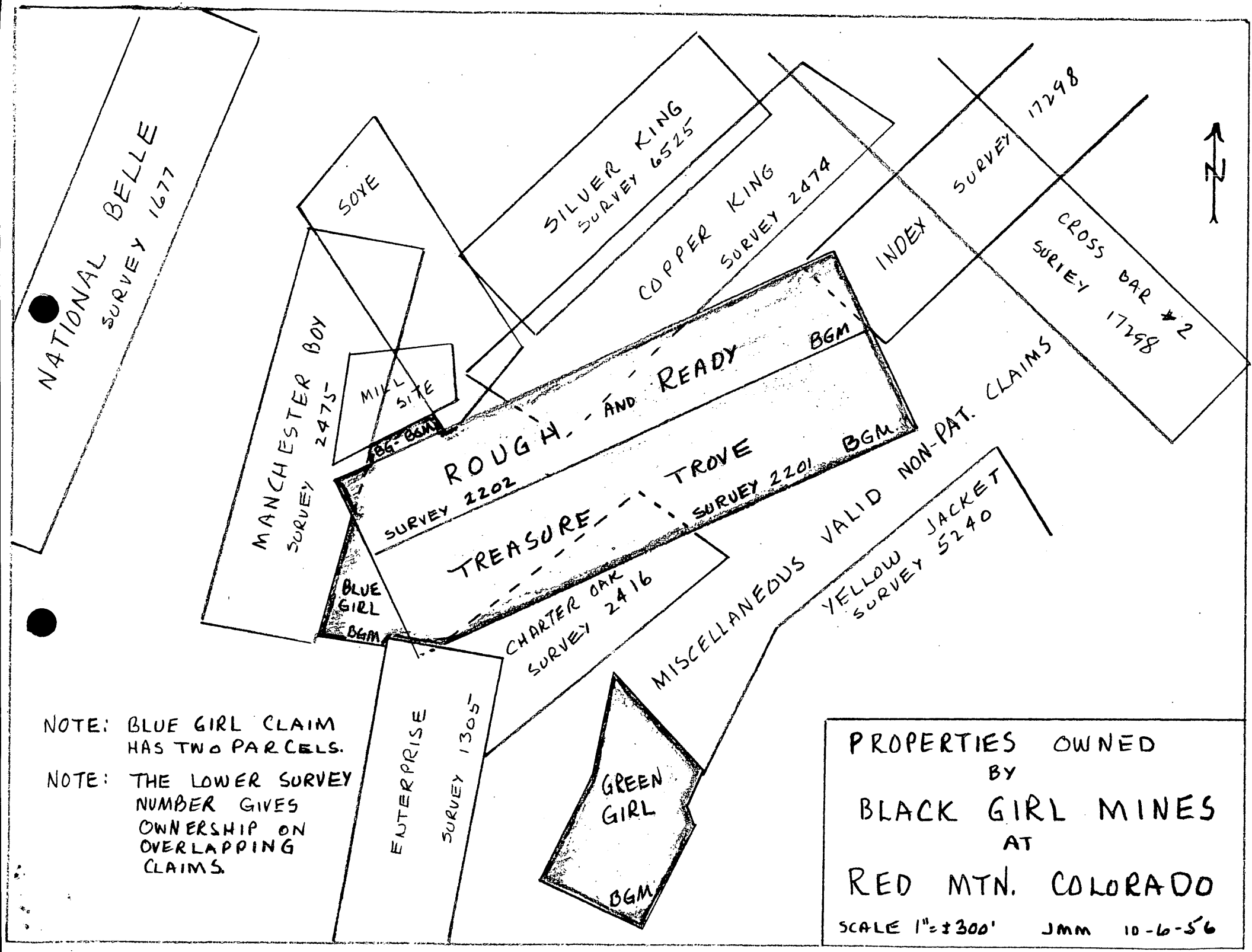
C. M. Shaw

Claims owned by applicant -------
Faults ——— • — • —
Contacts – – – –
Relatively unaltered andesite + latite = (Ts)
Highly silicified + iron-stained volcanics = (Ta)
Quartz latite porphyry = (Tql)
Landslide debris + alluvium = white (Qrl)
Proposed drill holes shown as ●

Cross Section Y - Z







NOTE: BLUE GIRL CLAIM HAS TWO PARCELS.

NOTE: THE LOWER SURVEY NUMBER GIVES OWNERSHIP ON OVERLAPPING CLAIMS.

PROPERTIES OWNED
BY
BLACK GIRL MINES
AT
RED MTN. COLORADO

SCALE 1" = ±300' JMM 10-6-56

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

RECEIVED
OCT - 4 1956

224 New Customhouse
Denver 2, Colorado

October 2, 1956

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium-Copper) Charles M. Shaw, et al (Treasure Trove and Rough and Ready et al claims) Ouray County, Colorado

Enclosed are three copies of the subject application in the amount of $19,000. One copy of the application is being retained in our files.

W. M. Traver

W. M. Traver

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT - 4 1956

DMEA
DEPARTMENT OF THE INTERIOR
OCT 1 1956
REGION III
DENVER, COLORADO

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

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

Where X is in space, see attachedsheets.

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Charles M. Shaw, 7061 Devon Way, Berkeley 5, Calif.
(Other partners listed on attached sheet.)

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Land situated in sections 11 and 14, T42N., R8W., N.M.P.M., consisting of 2 patented claims: the Treasure Trove (U.S. Survey #2201) and the Rough & Ready (U.S. Survey #2202); and 2 unpatented claims: the Blue Girl Lode and the Green Girl Lode; all located in Ouray County, Colorado.

(*b*) State any mine name by which the property is known. Treasure Trove

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

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

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Green Girl Lode: Book 123, page 455; Blue Girl Lode: Book 123, page 456. (Sept. 13, 1956)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [X] Use of equipment owned by you [X] Other.

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Sept. 28, 1956

Shaw-McFadden-Dickman-Rogers-Davis-Nelson
(Applicant)

By Charles M. Shaw

7061 Devon Way

Berkeley 5, Calif.

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

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

Charles H. Shaw

Attached Sheet # 1

RECEIVED
OCT - 4 1956

1(a) J.M. McFadden, 2813 Hollins St., Bakersfield, Calif.
N.H. Dickman, 49 York Drive, Piedmont, Calif.
D.E. Rogers, 645 So. Mariposa Ave., Los Angeles, Calif.
Patrick Davis, 630 So. Serrano Ave., Los Angeles, Calif.
R.D. Nelson, 641 Atlantic Blvd., Los Angeles, Calif.

4(a) Mine was a producer of high-grade copper-silver ore around 1900. Old workings consist of an adit several hundred feet long (A on map) at an elevation of 10940 ft., an adit about 150 ft. long (B on map) at an elevation of 11175 ft., a shaft some 70 ft. deep (C on map) at an elevation of 11240 ft.; all these workings penetrated good ore, substantial quantities of which are still to be found on the dumps of these workings. Adits A and B are obstructed at the entrances by surface material which has slid down; shaft C is open and could be entered by using a rope ladder or windlass arrangement. In addition, there are a number of shallower workings (D,E,F,G,H, on map) which penetrated only into the low-grade pyrite-bearing rock which surrounds the high-grade chimney deposits in this area.

4(b) We have been unable to find any detailed record of the past production; however, in the U.S.G.S. Prof. Paper 188, "Mining in Colorado", by C.W. Henderson, the Treasure Trove is included as one of the more important mines in the Red Mountain area. There is no current production, and exploration so far is insufficient to predict ore reserves.

4(c) Our properties are situated in an area of Tertiary volcanic rocks along the western border of the Silverton caldera. The area is characterized by strong hydrothermal alteration of the volcanic rocks and by the occurrences of ore deposits in chimney-like form. Our properties lie within the mile-wide belt which contains the most productive chimney deposits.

The principal mineralization on our claims is a Pyrite-enargite ore which contains about 10% copper and $10 per ton in gold and silver. Additionally, masses of pure sphalerite are found on the dump by shaft C. Occasionally, a fragment of very rich ore, carrying bornite, stromeyerite, chalcocite, and pitchblende (?), is found on the dump. This rich ore is quite radioactive, and gives a positive sodium fluoride bead test for uranium. Quartz and barite are the commonest gangue minerals.

We have several reasons for wishing to explore this property:

(1) There is apparently a good-sized body of enargite-pyrite ore which has been penetrated from three sides by workings A, B, and C. This type of ore was not considered particularly attractive by the miners of 1900, but under today's conditions is very desirable.

(2) The area east of the fault striking N.20 E. is virgin ground as far as exploration at depth is concerned. The occurrence of highly silicified and pyritized rock in an area east of the fault is highly suggestive of an ore chimney below. (See W.S. Burbank, "Structural Control of Ore Deposition in the Red Mountain, Sneffels, and Telluride Districts of the San Juan Mountains, Colorado", Colorado Scientific Society Proceedings Vol. 14, No. 5, (1961), pp. 161-209.)

(3) There is the possibility of commercial uranium ore on our claims. A reconnaissance radiometric survey of the property was made using a Detectron Model DS 200 Nucliometer; background over relatively unaltered andesite was 0.02 mr./hr. Readings of 0.04 - 0.05 mr./hr. were obtained over iron-stained,

silicified volcanic rocks along the fault zone for 300 feet north of shaft C. Readings of 0.06 - 0.08 mr./hr. were obtained over dumps of pyritic ore. A fragment of very rich copper-silver ore from the dump gave a radiometric assay of 0.15% equivalent uranium. Our claims lie in the belt which W.S. Burbank and Charles T. Pierson (Preliminary Results of Radiometric Reconnaissance of Parts of the Northwestern San Juan Mountains, Colorado", Geological Survey Circular 236) consider favorable; a quotation from the top of page 5 of the above reference reads; "The higher-grade copper-lead-silver fragments of chimney ores found on dumps almost throughout the length of the belt contain associated radioactive material, presumably as pitchblende (table 3, K35-1 to K39-2, etc.)".

4(d) Our claims are situated less than a mile from a paved highway (U.S. 550); a dirt road connects the lower portion of our property with the highway. The nearest standard-gage railhead is at Ridgway, 34 miles north; there is a narrow-gage railhead at Silverton, 10 miles south. The closest supply points are Silverton (10 miles) and Ouray (14 miles). The closest residence point is Ironton (4 miles).

4(e) Experienced miners, materials and supplies are available in Ouray and Silverton. There is a good stand of spruce on the claims. There is a flow of water from adit A sufficient for mining purposes. A power line runs within 50 yards of our property.

5(b) The proposed work includes 1500 feet of diamond-drilling and rehabilitation of old workings. The diamond-drilling would be in vertical holes from the surface, 150 ft. to 300 ft. deep, tentative locations being shown in red on the accompanying map. Cores would be radiometrically checked, and split for assay. Construction of about ½ mile of access road would be necessary before drilling. If adit A can be cleaned out to the end at a reasonable cost, perhaps 500 feet of underground diamond-drilling would be desirable. Continuation of the geological and biogeochemical survey which has already been started would be desirable.

5(c) The working season at our property is usually June through October; the work could be started within 2 weeks of an exploration project contract, weather permitting; the work would be completed in 3 months.

5(d) C.M. Shaw has PhD. in geology from the University of California, has done geochemical research, and has worked on a mineral exploration project for New Jersey Zinc Explorations Ltd. in Canada.

J.M. McFadden has experience as a railroad surveyor, construction supervisor, transportation engineering consultant, and tax accountant.

Attached Sheet # 3

6(a)	1500 ft. diamond-drilling @ $35.00 per ft. (Joy bid)	$52850
	Road construction and clearing portal of adit A	850
6(b)	3 mos. supervision, engineering, and accounting (J.M. McFadden)	1800
	3 mos. geological work (C.M. Shaw)	1800
	500 hrs. labor to rehabilitate workings @ $2.00 per hr.	1000
6(c)	Core-splitter, tools, hardware	100
	Gasoline, oil, dynamite, sample bags, misc. supplies	100
6(d)	Rental of compressor (300 cfm.)	300
	Rental of surveying eqpt.	50
	Core boxes	150
	Use-allowance for automobile	100
	Use-allowance for Nuclionoter	100
	Use-allowance for typewriter, adding machine, geochemical eqpt.	50
6(f)	Core shed	200
6(g)	Assaying	400
	Insurance	150
6(h)	Contingencies (to include underground drilling if feasible)	2000
	TOTAL	$10000

7(b) Our share would be made up of professional services of C.M. Shaw and J.M. McFadden, use-allowances of automobile, Nuclionoter, typewriter, adding-machine, geochemical eqpt., which totals $3850, and the balance in money.

Addenda: Statements giving Charles M. Shaw power-of-attorney for the partnership, copies of our deeds to the patented properties, and other information pertinent to the project will be sent to the Denver office of DMA in the near future.

Respectfully submitted,

Charles M. Shaw

JOY MANUFACTURING COMPANY
900 WOODLAND AVENUE
MICHIGAN CITY, INDIANA
TELEPHONE 7-7231

RECEIVED
OCT - 4 1956

EXECUTIVE OFFICES
HENRY W. OLIVER BUILDING
PITTSBURGH 22, PA.

September 26, 1956

AIR MAIL

Mr. Charles E. Shaw
Box M
Ouray, Colorado

Dear Mr. Shaw:

In compliance with your request, we have outlined below the terms and conditions under which we would like to perform your proposed drilling at the Black Girl Mines near Silverton, Colorado.

We will supply either a truck mounted or a skid mounted rig for the surface drilling. We will perform a minimum of 1500 ft. of drilling on surface with "AX" fittings for $5.90 per ft. This drilling will be performed in vertical holes ranging in depth from 150 ft. to 300 ft.

We will expect you to spot the drill holes no further than 1,000 ft. from an ample source of water for drilling purposes.

We would expect you to provide suitable access roads to all the drill sites and to clear the drill sites for the setup. We would also expect you to move the machine and equipment between holes.

Any delays attributable to your company such as, no hole sites, poor access roads, etc. shall be invoiced at the rate of $10.00 per hour.

In the event it becomes necessary to resort to reaming and casing to drill the hole to the desired depth, such work will be invoiced at the rate of $3.00 per ft. for "AX" reaming. Any "AX" casing lost or left in the hole will be invoiced at $1.54 per ft.

If cementing in the hole is necessary, such work will be performed at the rate of $10.00 per hour.

In the event you decide to do any drilling from your tunnel, we will perform such work with "AX" fittings at a price of $5.45 per ft. Reaming in "AX" hole for "AX" casing will be at the rate of $3.00 per ft., and cementing and delays at $10.00 per hr.

On this underground work, we will expect you to furnish sufficient headroom so that the rods may be pulled in 10 ft. sections. We will also expect you to clear the drill sites and make working conditions safe for our drill crew. It will be necessary that you furnish air and water at the drill site. Air at the drill site must be at least 300 cu. ft. per minute at not less than 85 lbs. PSI.

If you find our proposition acceptable, we would like you to notify us so that we can ear-mark a machine for your work, which you would like to start in June, 1957.

We thank you for inviting us to bid on your requirements.

Yours very truly,

JOY MANUFACTURING COMPANY

J. M. Murray, Asst. Mgr.
Contract Drill Division

JMM/et

cc: C.M.Shaw
7061 Devon Way
Berkeley 5, Calif.

C.M.Shaw
Denver Office

73[redacted] Bay 5, Calif
Sept. 29 1956

RECEIVED
OCT - 4 1956
DMEA
DEPARTMENT OF THE INTERIOR
OCT 1 1956
REGION III
DENVER, COLORADO

Mr. W. M. Traver
224 New Customhouse Bldg
Denver, Colo.

Dear Mr. Traver:

I was unable to get the application typed and the copying done in time to submit them to you personally on Friday, so am mailing this material.

Since the Joy bid on the diamond-drilling is so much better than the others, I had only the Joy bid copied; I am enclosing the originals of the other bids, however. The bid on the road work and adit A portal cleaning was an oral bid by Mr. Glenn Porter of Ouray.

Thanks very much for taking the time Thursday to go over the details I brought up; I hope it will be possible to beat the snows this fall,

Sincerely yours,
Charles M. Shaw

P.S. - There are large "No Trespassing" signs by workings C and E, which may help orient the field men.

MINERALS ENGINEERING COMPANY
P. O. BOX 1951
GRAND JUNCTION, COLORADO

September 19, 1956

RECEIVED
OCT - 4 1956

Mr. Charles M. Shaw
Box M
Ouray, Colorado

Dear Mr. Shaw:

Pursuant to our inspection of your property 14 miles from Ouray on what is known as the Treasure Trove and Rough and Ready claims in Sections 11 and 14, Township 42 North, Range 8 West, Ouray County, please accept the following quotations as our bid for your D.M.E.A. loan purposes. As I understand it drilling would be under the name of Charles M. Shaw with the following partners: J. M. McFadden, N.H. Dickman, R. P. Nelson, B. E. Rogers and Pat Davis.

For a minimum vertical footage of 1,500 feet to a maximum depth of 300 feet per hole:

Overburden	$ 6.50	per foot
0-100 feet	7.00	per foot AX core
100-200 feet	8.25	"
200-300 feet	10.50	"

You are to furnish all access roads and drill sites suitable for 4-wheel drive equipment. The above includes move-in charges.

For a minimum horizontal footage of 500 feet to a maximum depth of 300 feet per hole underground drilling:

0-100 feet	$ 7.25	per foot AX core
100-200 feet	8.75	"
200-300 feet	11.50	"

Standby time on both of the above proposals would be $15 per hour; reaming on both of the above would be $4 per foot.

It was my understanding that the horizontal holes underground would be drilled from the face of the tunnel and would not require any station cutting. If station cutting is necessary, we would do this on a standby time basis.

We would clean out the tunnel for underground drilling on a cost plus 15 per cent basis. If the underground drilling was to be contracted at the same time the tunnel is cleaned out, there would be no additional move-in charge for equipment as we could include this equipment at the time of move-in of the underground equipment. This is the only

way we could bid this clean out work as no one knows what we would run into beyond the mouth of the tunnel which is completely caved.

It was my understanding that none of the above work would be started before June 15, 1957.

Very truly yours,

MINERALS ENGINEERING COMPANY

Edson Foster

Edson Foster
Assistant Drill Superintendent

EF/k

MacPHERSON DRILLING COMPANY
P. O. Box 447
MONTROSE, COLORADO

Sept. 26th, 1956.

Quotation No. 115

Project: Black Girl Mines Co., Box M, Ouray, Colo.

Location: Surface.

Contract Minimum: (2000 linear feet).

Maximum hole depth: (500 linear feet). BX and AX size cores.

Drilling Rates per Hole:

Surface Pipe to Bedrock @	$16.00 per ft.
Bedrock to 250 ft. in depth @	8.10 per ft.
250 ft. to 500 ft. in depth @	9.85 per ft.

Reaming for and Setting BX Casing @	$3.10 per ft.
Reaming for and Setting AX Casing @	2.70 per ft.

Cementing and Drilling out Cement @ $10.00 per Shift hour, Plus cost of cement.

Mobilization of Drilling Equipment and instalation of supply pumps and water lines shall be a charge of $500.00 net.

Contractor: Shall furnish at its cost and expenses, all drilling equipment, Diamonds, Labor, State and County taxes, Industrial Insurance, Carry and maintain in full force Liability and Property Damage Insurance.

Company: Shall provide suitable roads and drill locations for the moving and installing of contractors equipment. Core trays and storage space of cores shall be at company cost.

MacPherson Drilling Co.

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DATE | INITIALS
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11 | 700
225

224 New Customhouse
Denver 2, Colorado

December 4, 1957

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket DMEA-4492 (Uranium-Copper)
Charles M. Shaw, et al.
(Treasure Trove, et al. claims)
Ouray County, Colorado

Dear Mr. Shaw:

This will acknowledge receipt of your letter, dated November 29, 1957, requesting any information we might have on the captioned property.

We have no information on your property other than that in the report of the field examination, which it would not be lawful to divulge.

We note in your letter that you intend to proceed at your own expense with the development of your properties. Should this further work disclose additional important geologic information, you may submit a new application for DMEA aid based on your new findings.

Very truly yours,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

HMC:jy

cc: Sec. Op. Comm. (2))
Harshman) w/copy of ltr.
DMEA,DFC) dtd. 11/29/57
Docket)
Chron.

H N

7061 Dev[illegible] Way
Berkeley 5, Calif.
Nov. 29, 1957

Mr. E. N. Harshman
Acting Executive Officer, D.M.E.A.
224 New Customhouse
Denver 2, Colo.

Re: Docket No. DMEA 4492

Dear Mr. Harshman;

Thank you for returning the photostats of the Deeds. I have also received a letter from Mr. Frank E. Johnson in Washington, turning down our application for D.M.E.A. assistance.

We intend to proceed on our own with the development of our properties, and so would appreciate very much receiving any information your field examiners or others have turned up which might aid us.

Sincerely yours,
Charles M. Shaw

DMEA
DEPARTMENT OF THE INTERIOR
DEC 2 - 1957
REGION III
DENVER, COLORADO

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224 New Customhouse
Denver 2, Colorado

November 15, 1957

Mr. C. M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket No. DMEA 4492 (Uranium-Copper) Treasure Trove, et al., Claims, Ouray County, Colorado

Dear Mr. Shaw:

Enclosed are three copies of the Ouray County Deed which you submitted with the captioned application with the request that they be returned to you.

One copy of the deed was placed in the official docket file in the Washington Office, DMEA.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer

Enclosures

HMC:eh

cc: C[redacted]op. Comm. (2)
Harshman
Docket
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/6	Murphy	700
"	Ellis	700
11/8	BCL	130
		~~110~~
11/8	gb	220
		225
11/8	Lamb	130
11/8	Kilsgaard	130

NOV 8 1957

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket No. DMEA-4492 (Uranium-copper)
Treasure Trove, et al., Claims
Ouray County, Colorado

Dear Mr. Shaw:

Your application for aid in an exploration project and other information available to us in Washington concerning the above-named property have been reviewed.

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

Careful study of all our information indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied. Such denial, however, is made without prejudice to the property. In the event further work on your part discloses new and more favorable evidence of ore deposition on the property, we shall be pleased to consider a new application.

It is noted that your letter of November 21, 1956, to Mr. W. M. Traver, Executive Officer of our Denver Office, requested return of the four photostatic copies of the County Deed, dated September 6, 1955. We are retaining one copy of the deed for our official docket file and requesting the Acting Executive Officer at Denver to return its copies to you.

his

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

Sincerely yours,

Frank E. Johnson (fw)
ACTING Administrator

FMMurphy/gla
11-6-57
cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
FMMurphy
DMEA Field Team, Region III (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/6	Murphy	700
"	Ellis	700
11/8	GLS	130
"	Johnson	110
11/8	gb	220
		225

NOV 8 1957

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4492 (Uranium-copper)
Charles M. Shaw, et al.
Treasure Trove, et al., Claims
Ouray County, Colorado

Dear Mr. Harshman:

Reference is made to Mr. Traver's memorandum of November 27, 1956, and the denial letter to the subject Applicant of this date. Please return to the Applicant the three copies of the County Deed, dated September 6, 1955, which were retained by your office for field information. You will note that we have placed one copy of the deed in the official docket file.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (24B)

APPROVED:

Frank D. Lamb (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

FMMurphy/gla
11-6-57

cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, Rm. 5224
FMMurphy

8623

Docket

Murphy
Ellis

November 6, 1957

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4492

Commodity: Uranium-copper

Amount of Application: $19,000.00

Applicant: Charles M. Shaw, et al. (Partnership)
7061 Devon Way
Berkeley 5, California

Property: Owner "Treasure Trove" and "Rough and Ready" patented lode mining claims; and the "Green Girl" and "Blue Girl" unpatented lode claims in secs. 11 and 14, T. 42 N., R. 8 W., N.M.P.M., Ouray County, Colorado.

Date Of Application: September 28, 1956

Referred to Region III: October 24, 1956

Field Examination made: July 31, 1957. The property was inaccessable from October 1956 to July 1957, because it was covered with deep snow.

Field Team Report received: October 21, 1957

Work Proposed: 1,500 feet of diamond-drilling from surface and rehabilitation of old workings. Also, that if Adit A could be cleaned out then perhaps 500 feet of underground diamond drilling would be desirable.

Estimated Costs:

Bulldozing	$850.00	
1,500 ft. core drilling @ $5.90/ft.	8,850.00	
Supervisor, 3 mths. @ $600/mth.	1,800.00	
Geologist, 3 mths @ $600/mths	1,800.00	
Rehabilitation, labor, 500 hrs. @ $2/hr.	1,000.00	
Operating Materials & Supplies	350.00	
Equipment (rental)	600.00	
Core shed	200.00	
Insurance & payroll taxes	150.00	
Contingencies	3,000.00	
Assaying	400.00	
TOTAL		$19,000.00

Excerpts from Field Team Report by W.N. Sharp, USGS, and Carl Belser, USBM:

The claims are just to the east of the old town of Red Mountain at altitudes ranging from 10,940 feet at the portal of the lower "Blue Girl" adit to 11,300 feet at the eastern-most end of the claims, on the west flank of Red Mountain.

The Red Mountain district was active in the period 1800-1900 producing significant quantities of rich copper-lead-silver ore. The Treasure Trove, Rough and Ready, and the contiguous Copper King properties were all active during that time, but have been idle since.

The subject property has been developed by three adits and one shaft. The adits are caved; the shaft is open at the surface. Two additional shafts close to the property boundaries are considered as exploring the property in part.

The regional geology involves folding, faulting of sedimentary rock units that eventually were overlain by thick volcanic flows, tuffs, and breccia; with later igneous intrusions in the form of stocks and dikes. Finally, several collapse structures developed in the region of volcanic activity.

The areas around the sunken blocks became complexly faulted and at places a number of veins were formed during a period of mineralization. One of the principal centers affected by processes of mineralization is the Silverton caldera, an oval sunken area about 8 miles across.

The subject property is at the northwestern edge of the Silverton caldera in an area of numerous radial faults as well as components of the ring fault system. The claims lie astride one of the principal subsidiary ring faults of the area, a fault along which much of the rock is highly altered.

Material on the dumps indicate that enargite was possibly the predominant ore mineral; however, reddish sphalerite, a little galena, and hubnerite were also noted.

Radioactivity on the property is more or less normal, except for a belt along part of the fault which showed 2 to 3 times background where the rock was richest in sulphides. However, the relatively low magnitude of radioactivity even in mineralized areas of the property, and the small probable tonnage of such low grade material, suggest that the property is not a potential producer of uranium ore.

Since the examination was necessarily confined to the surface exposures and dump material, the examiners recommend that the application should be denied without prejudice, because if the adits were made accessible more faovrable information on the possibility of the claims might be disclosed.

Commodity Member's Comments:

James Paone, USBM, October 29, 1957:

Mr. Paone concurs in the Field Team's recommendation to deny the application without prejudice.

Thor Kiilsgaard, USGS, (for W.P. Williams) November 4, 1957:

Mr. Killsgaard agrees with the Field Team that the application should be denied without prejudice.

Division of Rare & Misc. Metals, F. M. Murphy, November 6, 1957:

The field examiners report indicates that the subject claims may have some possibilities for small deposits of copper, lead, and zinc ores in small igneous plugs that pierce the volcanics along the radial and ring faults of the Silverton caldera. However, no significant uranium mineralization was noted.

The Applicant has done no initial prospecting or rehabilitation of the old workings. The examiners believe that the proposed exploration work would be limited to areas that have already been sufficiently explored by the old workings.

Conclusions and Recommendations:

This Division agrees with the field examiners and the Field Team that the subject application should be denied without prejudice. Also, that if the Applicant completes the initial work required to open up the underground workings for examination and favorable evidence of mineralization is disclosed, then a new application should receive consideration.

Ernest Wm. Ellis

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

IN REPLY REFER TO:

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

November 4, 1957

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA 4492, (uranium-copper), C. M. Shaw, Treasure Trove Claims, Ouray County, Colorado

The examining team is of the opinion that geologic conditions on the applicant's property are not good for the presence of shallow ore deposits. Several mine openings are caved and inaccessible so that an adequate appraisal of the old mine workings cannot now be made.

The field examiners recommend that the application be denied without prejudice on the basis of unfavorable surface geology and inability to gain access to the mine workings. I agree with the advice of the Field Team. I do not believe it is asking too much of an applicant to expect him to clean out old mine workings enough to allow inspection by an examining team.

T. H. Kiliagaard
for: W. P. Williams

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

October 31, 1957

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Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 4492 (Uranium-Copper) Charles M. Shaw, et al., (Treasure Trove, et al., claims) Ouray County, Colorado

Enclosed are two copies of a letter from the subject Applicant dated October 26, 1957.

The Applicant states that it will not be feasible for him or his representative to visit the mining property. This forestalls any complaint the Applicant might have that he had no opportunity to visit the property with the field examiners.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

DMEA-4492

7061 Devon Way
Berkeley 5, Calif.
Oct. 26, 1957

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
OCT 30 1957
REGION III
DENVER, COLORADO

Dear Mr. Harshman:

In reply to your letter of October 3rd, I have communicated with Mr. McFadden, and since it is not feasible for either of us to travel to Colorado at present, we would prefer that the field examiners complete their report of examination of July 31, 1957 and forward it to the Washington Office, DMEA, for their final review and action.

According to our information, winter has come early to the San Juan Mountains and there has been snow on our claims for several weeks; therefore, it will probably be necessary to wait until May or June before any kind of work can proceed there. In the meantime, we hope to have the DMEA report so we can plan our course of action.

Sincerely yours,

Charles M. Shaw

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October 29, 1957

4492

Uranium
Charles M. Shaw
Treasure Trove et al claims
Ouray County, Colo.
$19,000.

Ernest William Ellis, DMEA Member
Uranium Commodity Committee
James Paone, Bureau of Mines Member
Uranium Commodity Committee

Field Team Report

10/16/57

10/29/57

/ x /without prejudice

/ x /

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

October 16, 1957

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10/24	C	220
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Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: DMEA Docket 4492 (Copper-uranium) Charles M. Shaw (Treasure Trove et al. claims) Ouray County, Colorado - Joint Report of Examination

Enclosed are the original and two copies of a Joint Report of Examination on the subject property prepared by William N. Sharp, U. S. Geological Survey, and Carl Belser, U. S. Bureau of Mines.

Although minor amounts of copper-lead-zinc sulfides were found along mineralized faults in the area, the examiners conclude that the proposed exploration will not result in a significant discovery.

A number of inaccessible workings, both adits and shafts, were noted in and near the area proposed for exploration by the Applicant. The examiners believe that if these old workings could be re-opened a better appraisal of the property could be made. They, therefore, recommend denial of the application without prejudice. We concur with this recommendation.

ON-SITE EXAM

No. 7644

You will note that the examination was made not in the presence of the Applicant or his representative. You have been furnished with copies of our letters of July 23, August 2, and October 3, 1957, addressed to the Applicant and copies of his reply to our letter of October 3, 1957, so we must assume that the Applicant is not interested in accompanying an examining team on the property.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE

10-23-57
(date)

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

OCT 16 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA
DEPARTMENT OF THE INTERIOR
OCT 15 1957
REGION III
DENVER, COLORADO

DMEA 4492

Charles M. Shaw

Treasure Trove et al. claims

Ouray County, Colorado

Copper-uranium

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Joint Engineering and Geologic Report

by

William N. Sharp, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

October 14, 1957

Reviewed by
DMEA OPERATING COMMITTEE

10-23-57
(date)

CONTENTS

Page

Introduction and summary..... 1

Acknowledgments..... 2

Location, topography, and climate..... 2

History and production..... 3

Ownership and extent..... 3

Present status..... 4

Exploration and development..... 4

Mining and milling equipment and other facilities..... 4

Geology..... 4

Sampling and ore reserves..... 10

Applicant's estimated cost of project..... 10

Conclusions and recommendations..... 12

ILLUSTRATIONS

Figure — Follows page

1. Location map, Treasure Trove et al. claims, Charles M. Shaw, Ouray County, Colorado. DMEA 4492..... 2

2. Geology of part of the Red Mountain district, Ouray Co., Colorado, showing mine workings and approximate location of Treasure Trove group of claims..... 13

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DATE	INITIALS	CODE

DMEA 4492

CHARLES M. SHAW
TREASURE TROVE et al. CLAIMS
OURAY COUNTY, COLORADO

INTRODUCTION AND SUMMARY

Charles M. Shaw, 7061 Devon Way, Berkeley 5, California, on September 28, 1956, submitted an application to Defense Minerals Exploration Administration for aid in a copper-uranium exploration project on two patented and two unpatented claims in secs. 11 and 14, T. 42 N., R. 8 W., N.M.P.M., Ouray County, Colorado. The application called for 1,500 feet of core drilling at a total estimated cost of $19,000.00.

A field examination of the property and adjacent area, delayed because of heavy winter snow, was made July 31, 1957, by an examining team unaccompanied by the applicant. The property is on the west slope of Red Mountain No. 3 east of the old mining town of Red Mountain. The claims cross an oval-shaped block of highly silicified volcanic rocks separated in part from the rest of the area by faulting. This altered area 450 feet wide by 1,300 feet long is suspected of possible copper-uranium mineralization at shallow depths. It has been explored in the past with 3 shafts and 3 adits. The examining team concludes, on the basis of what can be seen of the property in

its present condition, that the probability of finding a significant deposit of copper-uranium ore between existent exploration and mine workings is not good. The application should be denied without prejudice.

ACKNOWLEDGMENTS

Mr. Charles M. Shaw could not be contacted and did not accompany the examining team.

Memorandums of N. E. Nelson and James Paone were noted.

LOCATION, TOPOGRAPHY, AND CLIMATE

The property is in secs. 11 and 14, T. 42 N., R. 8 W., N.M.P.M., Ouray County, Colorado. The claims are just to the east of the old town of Red Mountain at altitudes ranging from 10,940 feet at the portal of the lower "Blue Girl" adit to 11,300 feet at the easternmost end of the claims, on the west flank of Red Mountain.

The property is connected with U. S. Highway 550 by a 3,000-foot access road, in poor condition, from which it is 10 miles south to Silverton, 13 miles north to Ouray, and 23 miles north to the Denver and Rio Grande Western railroad at Ridgeway. The Pride of the West custom mill is near Silverton and another mill, idle at the present time, is located north of Ouray. Labor and supplies are obtainable

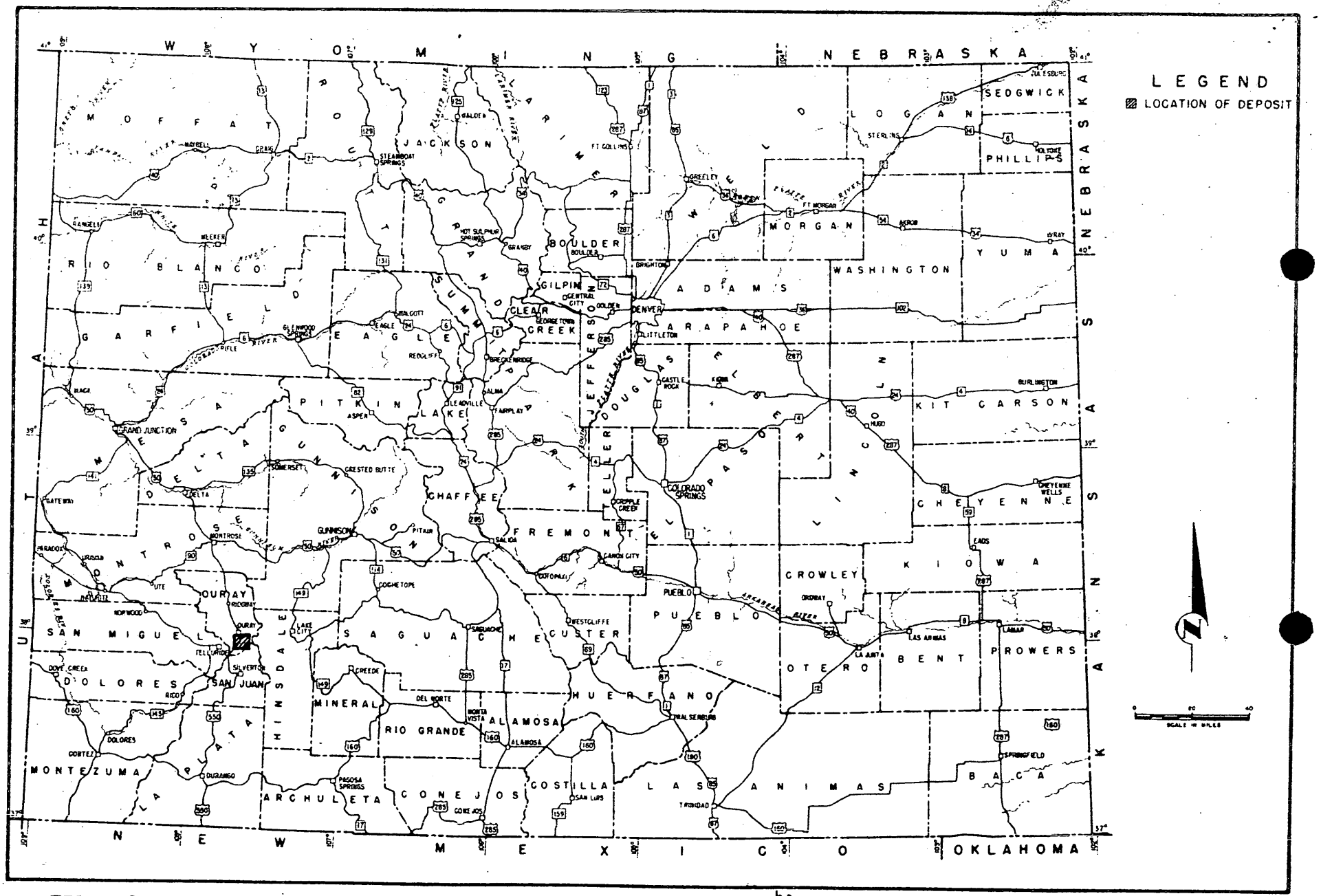


FIGURE 1 - LOCATION MAP, TREASURE TROVE ET AL CLAIMS, CHARLES M. ~~SNOW~~ hay, OURAY COUNTY, COLO. DMEA 4492

at Ouray and Silverton. Water can be obtained at the Treasure Trove portal. An electric power line passes through the old town of Red Mountain.

HISTORY AND PRODUCTION

The Red Mountain district was active in the period 1880-1900. The Treasure Trove, Rough and Ready, and the contiguous Copper King properties were all active during that time but have been idle since. The portals and shafts on the properties are caved.

No records of past production could be found.

OWNERSHIP AND EXTENT

The applicant has two unpatented claims and two patented claims. The unpatented claims are recorded in the records of the Ouray County Clerk and Recorder as follows: Green Girl, Book 123, p. 455; Blue Girl, Book 123, p. 456; the date of both recordings is September 13, 1956.

The Treasure Trove, Survey No. 2201 and the Rough Ready, Survey No. 2202 were transferred by Treasurer's deed to Ouray County on June 16, 1955, and said deed was recorded in Book 143, p. 390.

The patented claims were bid in at public sale on September 6, 1955, by J. M. McFadden, B. E. Rogers, N. H. Dickman, R. P. Nelson,

C. M. Shaw, and Patrick Davis and the amount bid was accepted by and paid to the Commissioners of Ouray County.

The transfer of the property appears to be in order.

PRESENT STATUS

Exploration and development

The property has been developed by three adits and one shaft. The adits are caved; the shaft is open at the surface. Two additional shafts close to the property boundaries are considered as exploring the property in part.

Mining and milling equipment and other facilities

There is no mining or milling equipment on the property. An access road not completely passable (the old Red Mountain road) connects the Treasure Trove portal with U. S. Highway 550.

GEOLOGY

The Treasure Trove property in the Red Mountain mining district is in the San Juan Mountains province of southeastern Colorado. The regional geology of this province involves folding, faulting and extensive volcanism. A sequence of sedimentary rock units that range in age from Precambrian to Jurassic were folded, faulted, and eventually overlain and buried by thick flows, tuffs, and breccia

flows that issued during wide spread volcanism along the fold trend of the mountains. This thick pile of layered rocks is intruded by igneous rocks in the form of stocks and dikes. Finally, several collapse structures developed in the region of volcanic activity.

The areas around the sunken blocks became complexly faulted and at places extensively veined during a period of mineralization.

One of the principal centers affected by processes of mineralization is the Silverton caldera, an oval sunken area about 8 miles across located just north of the town of Silverton.

The caldera is bounded by a series of ring faults on which total displacement of about 2,000 feet can be measured. A complex system of branching and radial faults formed during the downdrop movement of the block and appear to fan away from the caldera in congregations. The particular areas around the caldera in which there are multitudinous radial faults and accompanying sheared zones appear to be the areas most affected by mineralization. It follows, that these are the areas most extensively mined and prospected.

The Treasure Trove property is at the northwestern edge of the Silverton caldera in an area of numerous radial faults as well as components of the ring fault system. A number of small igneous plugs are scattered along the boundary of the caldera, in the area. These igneous plugs commonly are the locus of a series of mineralized ring fractures, extreme rock alteration, and accumulation of ore

minerals into "ore pipes". The National Belle mine near the Treasure Trove property exploited such a rich ore pipe.

A part of the Red Mountain mining district is shown on figure 2 that includes the Treasure Trove property. The rocks of the area are andesite and latite flows of the Silverton volcanic series, intruded by plugs of quartz latite porphyry. The area, lying astride the western edge of the Silverton caldera, is badly faulted. Volcanic rocks and intrusive rocks around the plugs and along some of the principal faults are highly altered and at places brecciated.

The Treasure Trove group of claims lies astride one of the principal subsidiary ring faults of the area, a fault along which much of the rock is highly altered. Burbank[1/] has mapped the area of the claims as underlain by three different units of the Silverton volcanic series. West of the fault that diagonally crosses the claims is hornblende latite, the lowest of the rock units. This unit in the claims area is intensely altered to a light gray, siliceous rock, brecciated along the fault and mineralized along fractures and in zones. East of the fault up the slope of the mountain, the claims area is successively underlain by Burns latite and pyroxene andesite and latite. The Burns latite is in part altered but much less so than the hornblende latite west of the fault. Above the Burns latite the pyroxene andesite and latite flows are in a relatively

---

1/ Burbank, W. S., 1941, Structural control of ore deposition in the Red Mountain, Sneffels, and Telluride districts of the San Juan Mountains, Colorado; Colo. Sci. Soc. Proc. V. 14, No. 5

unaltered condition. The contact between the Burns and the pyroxene andesite is indefinite but it appears to be a flow contact. The rock units are very similar in general appearance.

The mineralized fault zone of the Treasure Trove property and the altered rock zone west of the fault have been explored by three adits, three shafts (one on the property and two near the property boundaries), and several 8- to 10-foot prospect pits.

The lower adit which is caved enters S. 75° E. on the Blue Girl claim and apparently explores several hundred feet of the altered rock zone. Dump material from the lower adit is predominantly a light gray to gray siliceous, somewhat vesicular rock. Enargite appears to be the predominant ore mineral; however, reddish sphalerite, a little galena and hubnerite were found. The waste rock is generally pyritic.

An upper adit, also caved, enters the steep stope at about 11,130 feet altitude on the Treasure Trove claim and trends east for apparently 150 feet or so. The annual report of the U. S. Bureau of the Mint[1/] upon production of precious metals for 1884 has this to say about the Treasure Trove "tunnel".

"On the Treasure Trove, work on the tunnel has been steadily prosecuted and it is now in 120 feet. The ore has not as yet been reached".

1/ Burchard, H. C., 1885, U. S. Bureau of the Mint Annual report of the director upon production of precious metals.

The adit on the Treasure Trove claim must have explored the fault zone in that area because 150 feet is approximately the distance from the portal to the fault on the plan map.

A third adit, part of the Copper King workings enters S. 40° E. from the north side of the property boundary. The workings now caved at the portal must penetrate at least 200 feet and probably explore the fault zone by side drifts. The dump for this adit is adequate in size to account for at least 200 feet of workings. The nature of some of the material on the dump also suggests strongly that the fault zone was reached. Blocks of silica-cemented breccia are common components of the top of dump and probably represent fault zone material.

One shaft, partially caved, the Black Girl, is near the southernmost boundary in the Treasure Trove claim. This shaft, close to the fault, is down an estimated 50 to 70 feet (fig. 2). Material on the dump is predominantly light gray silicious rock, very pyritic, containing in some pieces galena, sphalerite, enargite and noticeable calcite masses.

Two other shafts of about the same depth as the Black Girl explore the same fault zone, short distances outside the Treasure Trove property boundary. The Copper King shaft, which is caved, exposes essentially the same type of rock containing the same

smattering of ore sulfides as at the Black Girl shaft. The silica-cemented breccia material as found on the adit below is found on the Copper King shaft dump.

The Charter Oak shaft is on the fault, south of the claims boundary. This shaft is down in a precipitous area of bare rocks that offers good exposures of the fault zone. The rock is highly altered, at places moderately mineralized, and contains scattered splotches of galena and sphalerite. Finely crystalline pyrite is very abundant.

The several prospect pits, spaced along the fault, expose only a few feet of the bedrock. The two pits along the fault within the property show highly altered volcanic rocks with thin stringers that contain calcite, some galena and sphalerite.

The radioactivity of the Treasure Trove property is more or less normal except for a belt along part of the fault. The radioactivity of this fault is only moderate (2 to 3 times background) with some higher flux zones at the shaft dump.

The places of higher radioactivity are in the highly altered rock along the fault zone and with the rock richest in metal sulfides. However, the relatively low magnitude of radioactivity even in mineralized areas of the property, and the small probable tonnage of such low grade material, suggest that the property is not a good one to consider as a potential producer of uranium ore.

SAMPLING AND ORE RESERVES

No sampling was done. Copper sulfosalts and lead, zinc, and iron sulfides were noticed around all of the old mine workings and representative specimens were collected.

APPLICANT'S ESTIMATED COST OF PROJECT

The applicant proposed a program that consisted of surface drilling, and rehabilitation of the lower adit on the Green Girl claim. An underground drilling stage is suggested. The surface drilling consists of 1,500 feet of drilling at the following estimated costs:

Independent contracts		
1,500 feet of core drilling at $5.90/ft.	$ 8,850.00	
Bulldozing (lumped)	850.00	
Total independent contracts		$ 9,700.00
Labor and supervision		
Supervisor-engineer, 3 months at $600.00 per mo.	$ 1,800.00	
Geologist, 3 months at $600.00/mo.	1,800.00	
Labor to rehabilitate workings 500 hours at $2.00/hr.	1,000.00	
Total labor and supervision		$ 4,600.00
Operating material and supplies		
30 core boxes at $5.00 each	$ 150.00	
Core-splitter, hand tools, hardware	100.00	

Gasoline, oil, dynamite, sample bags, misc.	$ 100.00	
Total operating material and supplies		$ 350.00
Operating equipment (rentals)		
300 c.f.m. compressor	$ 300.00	
Surveying equipment	50.00	
Automobile (use-allowance)	100.00	
Nucliometer (use-allowance)	100.00	
Typewriter, adding machine, geochemical equip.	50.00	
Total operating equipment		$ 600.00
Rehabilitation and repairs		
See under labor and supervision		
New buildings, improvements, installations		
Core shed		$ 200.00
Miscellaneous		
Workmen's compensation and liability insurance and payroll taxes		$ 150.00
Contingencies		$ 3,000.00
Estimated cost for 1,500 feet of drilling		$18,600.00
Estimated cost per foot $12.40		
Assaying		$ 400.00
Total cost of project		$19,000.00

It will be noted that some costs are high.

CONCLUSIONS AND RECOMMENDATIONS

The Treasure Trove property is in a part of the Red Mountain mining district that has produced, from several mines, significant quantities of rich copper-lead-silver ore. The mines of the specific area that were good producers are in highly altered areas around the small igneous plugs that pierce the volcanic rocks along faults. The rich ore bodies mined were ore pipes associated with the intrusive masses.

The Treasure Trove property overlies, in part, a zone of altered volcanic rock along a fault, a zone that is ringed in part by thin mineralized fractures and that contains within it patches of mineralized siliceous rock. However, igneous material that would indicate an intrusive plug in the area and better probability of an "ore pipe" is not found on the surface or on the dumps of the underground workings. Furthermore, the nature of dump material and the size of the dump suggest that no ore pipes or conditions suggesting a possible ore pipe were found in the explored parts of the area. Mineralized zones appear to have been along the thin fractures and along the fault that cuts the rocks of the area.

The amount of underground work on and in the immediate area of the Treasure Trove property appears to be considerable. The altered rock area of the claims and the fault zone appear to be adequately

explored by the present workings to the depth proposed for the drill holes in the applicant's program to judge the probability of ore bodies being present. The conclusion drawn after surface inspection and subsequent plotting of the past exploration work is that the possibility of finding near surface ore bodies of significant size in the area is poor. In order to make more factual evaluation of the extent of the present workings and of the property it seems necessary to make accessible the adits that enter the property. None of the caved adit portals have been opened to determine to what extent caving has closed the workings. A little bulldozer work might show the major part of the workings to be in fair shape for examination.

The application of Charles M. Shaw on the Treasure Trove property should be denied without prejudice. The denial is based on conclusions developed from surface exposures and dump material. Such evidence suggests the improbability of making a significant discovery by exploration on the property. The adits, if found to be accessible by opening the portals, might offer information to modify this recommendation.

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 7 1957

DATE	INITIALS	CODE
10/7	C	220

224 New Customhouse
Denver 2, Colorado
October 3, 1957

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: DMEA Docket 4492 (Uranium-Copper)
(Treasure Trove et al claims)
Ouray County, Colorado

Dear Mr. Shaw:

We believe that our field examiners sufficiently covered your property on July 31, 1957, and have all the necessary information to complete their report of examination. However, it is our policy to have the applicant or the applicant's representative accompany the field examiners when such a meeting can be arranged.

Please advise by return mail if it is your wish to arrange a date for either you or Mr. McFadden, to accompany the field examiners to re-examine your property, or, should the examiners complete their report of examination of July 31, 1957, and forward it to the Washington Office, DMEA, for their final review and action.

Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

HMC:hmh

cc: Sec. Op. Comm. (2)
Harshman
Docket
Chron

OFFICIAL FILE COPY DMEA RECEIVED AUG 5 1957		
DATE	INITIALS	CODE
8/5	P.K.	220
"	~~[illegible]~~	~~300~~

224 New Customhouse
Denver 2, Colorado

August 2, 1957

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: DMEA Docket ~~4492 (Uranium-Copper)~~
Charles M. ~~Shaw, etal~~
(Treasure Trove, etal, claims)
Ouray County, Colorado

Dear Mr. Shaw:

This will acknowledge receipt of your airmail letter, dated July 31, 1957, regarding the field examination of your property.

Because of the excessive amount of snow in the San Juan country our field examinations in that area have been delayed.

Our field examiners were in the San Juan area this week and found that your property was accessible so they made the field examination July 31, 1957.

Should further information be required we will notify you.

Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

HMC:hmh

cc: Sec.Op. Comm. (2)) w/copy of Operator's
Harshman) letter of 7/31/57
Docket
Chron

(3)

HMC Hmc

DMEA
RECEIVED AUG 5 1957
DATE | INITIALS | CODE

7061 Devon Way
Berkeley 5, Calif.
July 31, 1957

Mr. W. H. King
Executive Office, DMEA Field Team
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
AUG 2 - 1957
REGION III
DENVER, COLORADO

DMEA-4492

Dear Mr. King:

Upon returning home yesterday from a long trip, I found your letter of July 23rd re Docket DMEA-4492.

The property is now accessible for a field examination; however, it is unlikely that I will be able to make a trip to Colorado in the immediate future. It is possible that one of my partners, Mr. John M. McFadden of 2813 Hollins Street, Bakersfield, Calif., may be able to go to Ouray during the month of August and accompany your men; I shall write him today and request him to notify you as soon as he knows when he will be in Ouray.

Sincerely yours,
Charles M. Shaw

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 26 1957

DATE		CODE
7/26	C	220
"	~~F&K~~	700

224 New Customhouse
Denver 2, Colorado

AIR MAIL

July 23, 1957

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket DMEA-4492 (Uranium-Copper)
Charles M. Shaw, et al.
(Treasure Trove, et al., claims)
Ouray County, Colorado

Dear Mr. Shaw:

Will you please advise if your property is now accessible for a field examination.

If the property is now accessible, we may schedule a field examination some time during the week beginning July 29. We would like very much to have you or your representative accompany the field examiners.

We will appreciate an early reply.

Very truly yours,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

HMC:jy

cc: Sec. Op. Comm. (2)
Harshman
Docket 4492
Chron.

11/30/56

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

RECEIVED NOV 30 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

November 27, 1956

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4492 (uranium-copper) Charles M. Shaw, et al (Treasure Trove, et al claims) Ouray County, Colorado

Enclosed herewith is a copy of the following additional data for inclusion with your copy of the subject application:

1. Power of Attorney for Shaw to represent the partnership in negotiations with DMEA.

2. Geologic Report on Red Mountain Properties by Charles M. Shaw.

3. Copy of Treasurers' Deed covering property involved in the application.

4. Applicant's transmittal of the data.

These data were furnished in compliance with the statement in the application and our letter of November 1, 1956 to the Applicant. Copies are being forwarded to John F. Shaw and E. N. Harshman for attachment to their copies of the application, and one copy of the data will be attached to the application in Region III files.

The Applicant requests return of all copies of the Treasurers' Deeds, when they have served our purpose.

see denial letter to applicant

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

061 Devon Way
Berkeley 5, Calif.
Nov. 21, 1956

DMEA
DEPARTMENT OF THE INTERIOR
NOV 26 1956
REGION III
DENVER, COLORADO

Mr. W. M. Traver
224 New Customhouse
Denver 2, Colorado

Dear Mr. Traver:

I am enclosing herewith 4 copies each of deeds, power-of-attorney statement, and geologic report and maps of our Red Mountain claims on which we have applied for D.M.E.A. assistance (Docket DMEA 4492).

I am sorry for the delay in furnishing this material, but some of the partners were out of town and I have only today received the signed power-of-attorney statements; I hope you will now have all the material you need for the processing of our application.

I would appreciate the return of the photostats of the deeds when you are finished with them. As you will notice, the deeds also cover some mining claims four miles north of Ouray which we own, but which are not included in our proposed exploration project (DMEA 4492).

Sincerely yours,

Charles M. Sh...

file 4492

COUNTY DEED:

THAT, WHEREAS, a Treasurer's Deed dated June 16 ,1955 conveying the hereinafter described real property referred to as :

The Treasure Trove Lode Mining Claim U.S.Survey No.2201 and
The Rough and Ready Lode Mining Claim U.S.Survey No.2202,
situated in the Red Mountain Mining District in the County of Ouray , and State of Colorado,

was delivered to the County of Ouray in the State of Colorado, and said Treasurer's Deed was thereafter recorded in Book 143 at Page 390 of the records of the County of Ouray ,Colorado, and

WHEREAS, a Treasurer's Deed dated June 16,1955 conveying the hereinafter described real property referred to as:

The "1001" Lode Mining Claim U.S.Survey No.4510;
The "1002" Lode Mining Claim U.S.Survey No.4510, and
The "1003" Lode Mining Claim U.S.Survey No.4510,
situated in the Paquin Mining District in the County of Ouray , and State ofColorado,

was delivered to the County of Ouray in the State of Colorado, and said Treasurer's Deed was thereafter recorded in Book 143 at Page 397 of the records of the County of Ouray ,Colorado, and

WHEREAS, a Treasurer's Deed dated June 16,1955 conveying the hereinafter described real property referred to as:

The Excelsior Lode Mining Claim U.S.Survey No.4510,
situated in the Paquin Mining District in the County of Ouray , and State of Colorado,

was delivered to the County of Ouray in the State of Colorado, and said Treasurer's Deed was thereafter recorded in Book 143 at Page 420 of the records of the County of Ouray ,Colorado, and

WHEREAS, a Treasurer's Deed dated June 10,1955 conveying the hereinafter described real property referred to as:

The Commodore Lode Mining Claim U.S.Survey No.6491,
situated in the Paquin Mining District in the County of Ouray , and State of Colorado,

was delivered to the County of Ouray in the State of Colorado, and said Treasurer's Deed was thereafter recorded in Book 143 at Page 382 of the records of the County of Ouray ,Colorado;and

WHEREAS, The Board of Commissioners ofthe County of Ouray , Colorado, did cause notice of the public sale of said real property and estate tobe advertised and posted in the manner and for the time

required by law and did offer said real property at public sale on the Sixth (6th) day of September A.D.1955 at the time and place stated in said notice; and

WHEREAS, J.M.McFadden; N.H.Dickman; R.P. Nelson; B.E.Rogers; C.M.Shaw; Patrick Davis, of the City of Pasadena ~~XXXXXXXXXXXXXXXX~~ ~~XXXXX~~State of California, Through/ Earl T. Carroll, Attorney, Ouray, Colo. did bid for said property the sum of Nine Hundred and Seventy Three and no/100 Dollars ($ 973.00) which bid, being less than the appraised value of said real property made by the County Assessor for the year in which said sale was made, but being greater than one-third of the appraised value of said real property , and being equal to or greater than the minimum amount determined by the resolution of the Board of Commissioners as the amount for which said property could be sold , was accepted by the Board of Commissioners of the County of Ouray ; and

WHEREAS, Eva K.Moule, the undersigned Clerk to the Board of County Commissioners in and for the County of Ouray ,Colorado , has heretofore been appointed and designated by the Board of Commissioners of the County of Ouray , as a "COMMISSIONER-to-CONVEY"said real property and has been directed to issue, sign, execute, acknowledge, and deliver this said deed of conveyance for and on behalf of the said County of Ouray , Colorado and on behalf of the Board of Commissioners of the said County of Ouray ,Colorado, by the prior order of said Board of Commissioners made and entered heretofore, NOW,

THEREFORE, The COUNTY of OURAY , Colorado , acting by and through the Board ofCommissioners of and for the County of Ouray , Colorado, for and in consideration of the sum of Nine Hundred and Seventy Three and no/100 Dollars ($ 973.00) paid as aforesaid , and by virtue of the statutes in such case made and provided, by these presents, does GRANT , BARGAIN,,and SELL the following described real property , to-wit:

The Rough and Ready Lode Mining Claim , U.S.Survey No.2202 and

The Treasure Trove Lode Mining Claim U.S.Survey No.2201,
situated in the Red Mountain Mining District , in the
County of Ouray , and State of Colorado, and
The "1001" Lode Mining Claim U.S.Survey No.4510,
The "1002" Lode Mining Claim U.S.Survey No.4510,
The "1003" Lode Mining Claim U.S.Survey No.4510
The Excelsior Lode Mining Claim U.S.Survey No.4510 , and
The Commodore Lode Mining Claim U.S.Survey No.6491 ,
situated in the Paquin Mining District, in the County
of Ouray , and State of Colorado,

to the said : J.M.McFadden; N.H.Dickman; R. P. Nelson; B. E. Rogers; C. M. Shaw; Patrick Davis, and ~~his~~ (~~xxxxx~~ their) heirs and assigns , WITHOUT any covenant of warranty , whatsoever, and SUBJECT to all the rights of redemption of minors, insane persons, and other persons under legal disability , as provided by law, and SUBJECT to the lien of any special assessments made against said real property and estate, and SUBJECT to any prior conveyance or conveyances thereof or any part thereof made by the County of Ouray , and finally SUBJECT to any and all easements and rights-of-way for public roads and highways thereon and thereabout existing and now owned , asserted, or used by the County of Ouray , in fact , any there may exist.

IN WITNESS WHEREOF' this Deed is executed this 6th day of September A.D.1955, by the undersigned COMMISSIONER-to-CONVEY for and on behalf of the County of Ouray , Colorado, under the direction of the Board of Commissioners of said County of Ouray, Colorado.

Eva K. Moule

Eva K.Moule, Commissioner-to-Convey , for and on behalf of the County of Ouray , Colorado.

STATE OF COLORADO)
) ss.
COUNTY OF OURAY)

ACKNOWLEDGEMENT.

The above and foregoing instrument was acknowledged before me this 6th day of September A.D.1955 by -EVA K.MOULE- as COMMISSIONER-to-CONVEY of , for, and on behalf of the said County of Ouray , Colorado.

Witness my hand and official seal , this 6th day of Seprember A.D.1955.

Marguerite L. MacLennan

Marguerite L.MacLennan , Clerk of the District Court in and for the County of Ouray, Colorado.

NO. 101[illegible]0

COUNTY DEED

COUNTY OF OURAY, COLORADO
By Eva K. Moule,
Commissioner-to-Convey

TO

J.M.McFadden; N.H.Dickman;
R. P. Nelson; B. E. Rogers;
C. M. Shaw; Patrick Davis

STATE OF COLORADO,
County of Ouray } ss.
Filed for record at 9:05 o'clock
A.M., Sept. 7, 1955
and recorded in Book 152
Page 66
Eva K. Moule
Recorder
By
Deputy

Indexed Compared

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

224 New Customhouse
Denver 2, Colorado

November 1, 1956

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket DMEA 4492 (Uranium-Copper)
Blue Girl and Green Girl Lodes
Ouray County, Colorado

Dear Mr. Shaw:

Your application on the subject docket stated that additional information pertinent to the project would be forwarded this office in the near future. This is to advise that this information has as yet not been received by this office.

Yours very truly,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:ytl
cc
Sec. Op. Comm. (2)
Shaw (2)
Harshman
Docket 4492
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
NOV 1 1956
REGION III
DENVER, COLORADO

October 31, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4492 (Uranium-Copper), Charles M. Shaw, et al (Treasure Trove, et al claims) Ouray County, Colorado

The application for Charles M. Shaw, Docket DMEA 4492, in the amount of $19,000.00 was received in this office on October 31, 1956.

A field examination will be made and suitable report prepared by an engineer from the Denver office.

W. H. KING

W. H. King

cc W. M. Traver (2)
R. N. Harshman
J. F. Shaw
Sec. Op. Com. (2)

to 11-1-56

224 New Customhouse
Denver 2, Colorado

RECEIVED NOV 1 1956 D.M.E.A.

October 30, 1956

Memorandum

To: W. H. King (2) (w/brochure)
E. N. Herzinger

From: DMEA Field Team, Region III

Subject: Docket DMEA 4492 (Uranium-Copper) Charles M. Shaw, et al (Treasure Trove, et al claims) Ouray County, Colorado

Enclosed is the subject application in the amount of $19,000.00. A field examination and suitable report are requested.

Enclosed for your information is a copy of the letter from the Chairman of the Operating Committee, dated October 24, 1956 with memoranda of review of the application by N. E. Nelson and James Paone.

It is noted on attached sheet No. 3 of the application that a Power-of-Attorney for the partnership to Charles M. Shaw, together with copies of deeds to the patented properties and other information pertinent to the project will be sent to the "Denver Office of DMEA" in the near future. This additional information has not as yet been received by this office.

Will you please return the brochure with the report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By: W. M. Traver
Executive Officer

Enclosures

DMC:ytl
cc: Sec. Op. Comm. (2)
Docket 4492
Chron.

700

FILE COPY

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

Mr. Charles M. Shaw
7061 Devon Way
Berkeley 5, California

Re: Docket No. DMEA-4492 (Uranium-copper)
Treasure Trove, et al., Claims
Ouray County, Colorado

Dear Mr. Shaw:

The above-referenced application for aid in an exploration project has been reviewed by the Rare and Miscellaneous Metals Division. It has been referred to:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

The Regional office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 10-23-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Reg. III (2)

700

FILE COPY

Surname:

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4492 (Uranium-copper)
Charles M. Shaw, et al.
Treasure Trove, et al., Claims
Ouray County, Colorado

Dear Mr. Traver:

The above-referenced application is referred to Region III Field Team for investigation, a field examination if deemed advisable, and recommendation.

Enclosed are copies of memoranda, dated October 11 and 19, 1956, by N. E. Nelson, USGS, and James Paone, USBM, respectively, relating to the subject application. Also enclosed is an extra copy of the application for Field Team use.

The claims mentioned in the application appear to be situated along a mineralized part of the Silverton cauldron subsidence area, from which a considerable amount of rich lead-copper-silver ore has been produced since 1881. However, in our opinion, the Applicant has not presented sufficient data to justify his conclusions in regard to the occurrence of ore deposits on the subject claims, and certainly not enough to justify Government participation in rehabilitating the old adit and shaft on the claims.

It is possible that you have recent information relating to the claim area that is not available here. If so, and if this information is favorable, it is suggested that you request the Applicant to do some preliminary work to make either, or both, "Adit A" and "Shaft C" accessible for a DMEA field examination.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FMMurphy/izm 10-23-56

cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

10-23-56

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

RECEIVED
OCT 22 1956

Date: 10/19/56

DMEA Docket No. 4492
DMEA Contract No.
Commodity Uranium
Name of applicant Charles Shaw
Name of property Treasure Trove and Rough & Ready
Location of property Ouray County
Estimated cost of project $19,000

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Alternate Member J.P.
Uranium Commodity Committee

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 9/28/56. 2. Date received by reviewers: 10/10/56.

3. Prior reports on this property known to reviewers: Yes [ ], No [x].

4. Prior reports on nearby properties known to reviewers: Yes [ ], No [x].

5. Information available on past productions: Yes [ ], No [x].

6. Other pertinent factors known to reviewers: Yes [ ], No [x].

7. Explain items marked yes above:

8. Factors needing special consideration:
a. Location [ ]
b. Ownership [ ]
c. Evidence of mineralization [ ]
d. Geology [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

9. Action advised:
a. Obtain information from applicant [ ]
b. Refer to Field Team [x]
c. Denial [ ]
d. Agree with Field Team [ ]
e. Disagree with Field Team [ ]
f. Suggest alternate plan [ ]
g. Recommend another [ ]
h. Approval [ ]
i. Consult with Mr. E. E. Thurlow at Denver [illegible]

10. Remarks: (Use back of page if necessary)

Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

10-17-56

IN REPLY REFER TO:

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

RECEIVED
OCT 16 1956

October 11, 1956

Re: DMEA 4492
Charles M. Shaw
Treasure Trove Mine
Ouray Co., Colo.
$19,000 - Uranium-Copper

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicant requests assistance in core drilling an old time mining property credited with the production of high grade copper-silver ore.

Investigation of dump material has shown the ore to be slightly radioactive and the applicant proposes drilling into 2 iron-stained silicified volcanic rock chimneys along 2 faults. Readings 2 to 4 times background have been recorded over the zones and a sample of high grade copper-silver ore assayed 0.15% eU_3O_8.

Essentially the applicant proposes to prospect for pertinent geological information by core drilling.

Referral of the application to the field for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 10, 1956

Mr. Charles H. Shaw
7061 Devon Way
Berkeley 5, California

Subject: DMEA-4492
Re: Exploration Assistance
Treasure Trove

Dear Mr. Shaw

Your application for exploration assistance, dated September 28, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4492 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:

Region III. Denver 2, Colorado

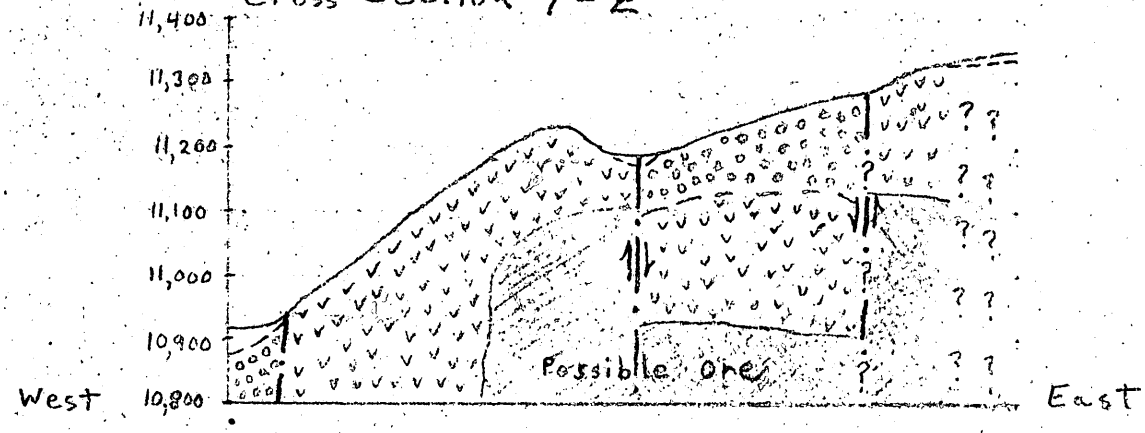
Code 700

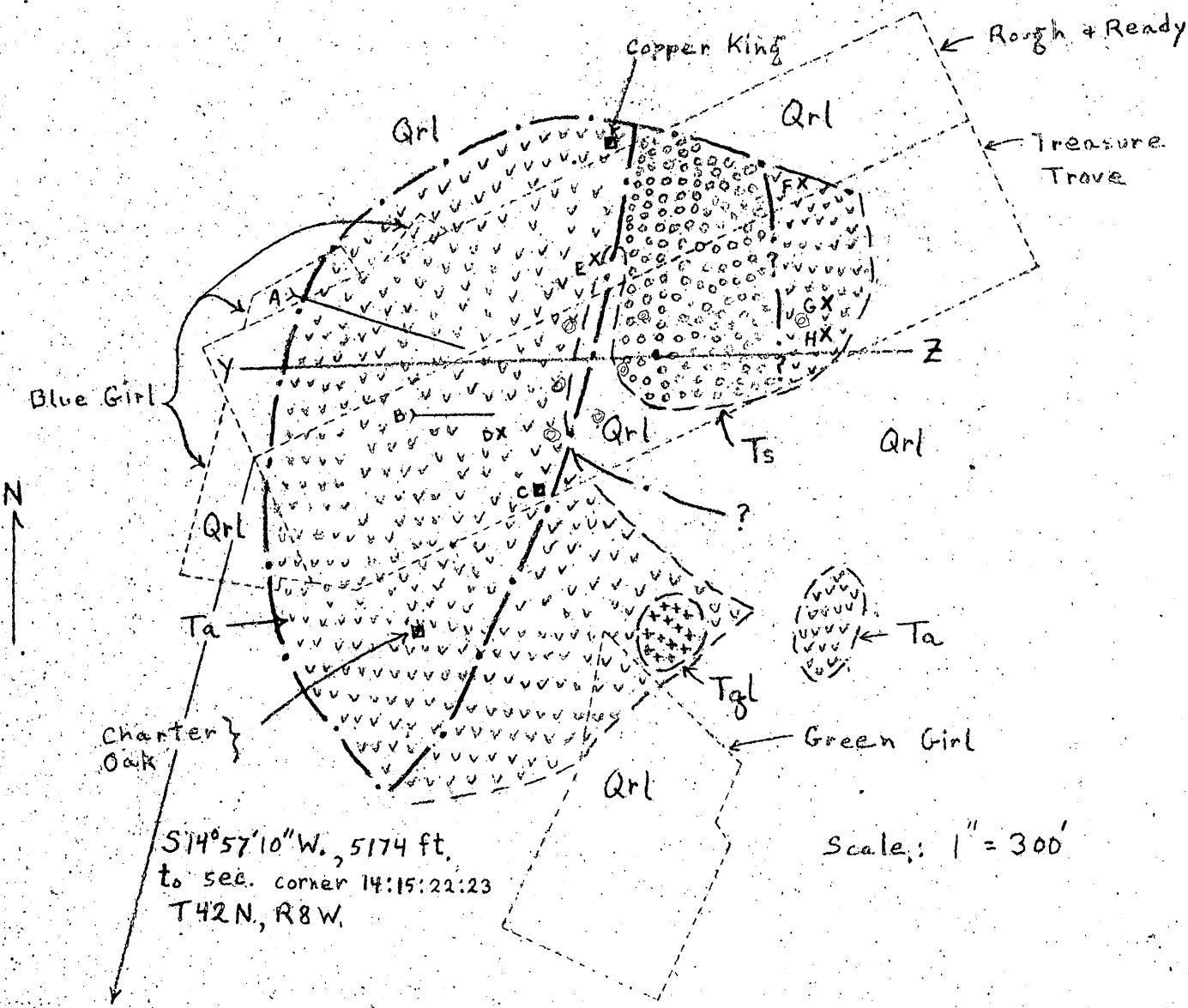
C. M. Shaw

Claims owned by applicant -------
Faults ——— • ——— • ———
Contacts - - - -
Relatively unaltered andesite + latite = oooo (Ts)
Highly silicified + iron-stained volcanics = vvv (Ta)
Quartz latite porphyry = +++ (Tql)
Landslide debris + alluvium = white (Qrl)
Proposed drill holes shown in red.

RECEIVED
OCT - 4 1956

Cross Section Y - Z

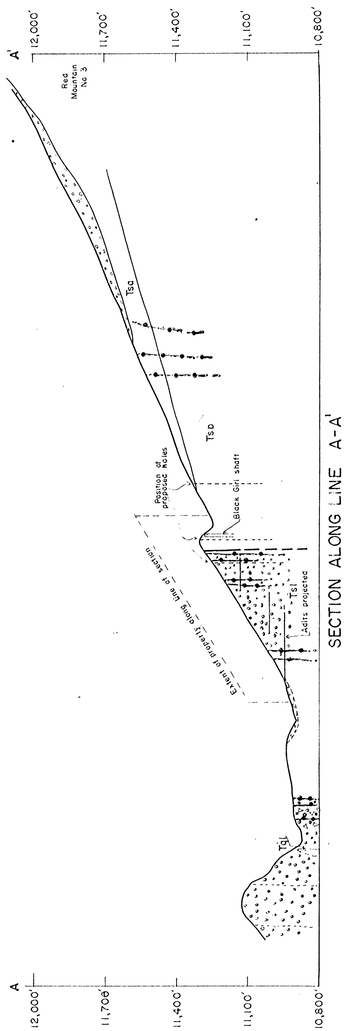




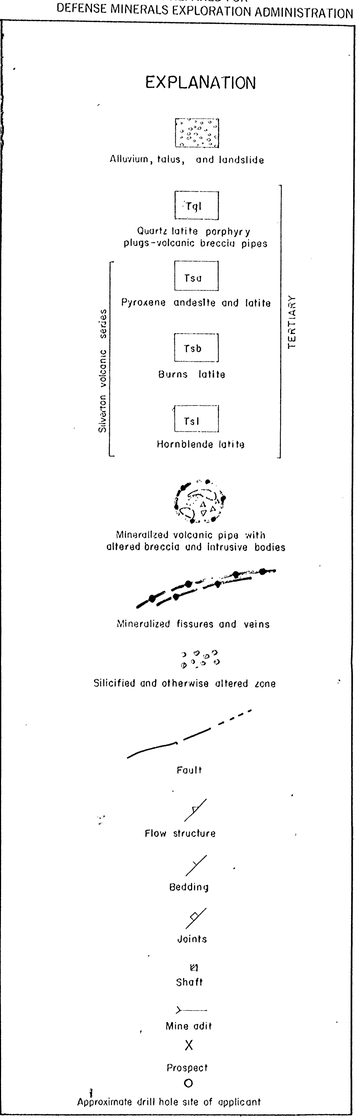
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXAMINATION REPORT
DMEA 4492

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION



SECTION ALONG LINE A-A'



Taken from Preliminary Geologic Map of Burbank and others - 1941

Win N. Sharp - 1957

Figure 2 - GEOLOGY OF PART OF THE RED MOUNTAIN DISTRICT, OURAY CO., COLORADO
SHOWING MINE WORKINGS AND APPROXIMATE LOCATION OF TREASURE TROVE GROUP OF CLAIMS

Scale = 1in. = 300ft.

300 0 300 600 900 1200 1500ft.