DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2226

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

To:	Rare & Light Metals	Date	11/19/51
To:	Chas. H. Johnson Rm 3425	Date	11-29-51
To:	R & R	Date	12/27/51
To:	CODE 700-RM. 4640	Date	2-4-52
To:	[illegible]	Date	2/15/[illegible]
To:	Operating Com	Date	2-20-52
To:		Date	
To:		Date	
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FILE COPY
SURNAME:

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

Rutledge
Ellis
(CH) Johnson
Thayer
Johnson

FILE NO.

2 1 1952

S.D.

Mr. Woodrow W. Kelley
8 6 Van Nuys Street
San Diego 9, California

Re: Docket No. [illegible]-2826 (Copper-lead)
Mueller-Kelley Prospect
Midland, Riverside County, California

Dear Mr. Kelley:

Yours and Mr. Mueller's application for an exploration contract on your Mueller-Kelley copper-lead prospect in Riverside County, California, has been reviewed by this agency.

The geologic evidence combined with the size and type of mineralization discovered to date fail to support the promise of making a significant discovery of copper or lead ore at this prospect that would contribute to the National Defense. Under the circumstances, we regret to inform you that your application is denied.

It is our understanding that in discussions you have stated your intention of doing more prospecting. If the future exploration reveals additional information which might alter our decision, please be assured we will be glad to consider a new application. A new application should include any new data and a detailed plan of exploration.

Sincerely yours,

C. O. Mittendorf (fw) 2/21

Acting Administrator
Defense Minerals Exploration
Administration

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

FRutledge/jem 2/18/52
cc to: Adm. Reading file
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Rutledge
Field Team, Region III (2)

Air Mail

Mr. Woodrow O. Kelly
886 Van Nuys Street
San Diego 9, California

Re: Docket No. DMEA-2226 (Copper-lead)
Mueller-Kelley Prospect
Midland, Riverside County, California

Dear Mr. Kelley:

Yours and Mr. Mueller's application for an exploration contract on your Mueller-Kelley copper-lead prospect in Riverside County, California, has been reviewed by this agency.

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Sincerely yours,

Acting Administrator

Reg. III

2660

2601

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 18 1952

NOTES
DMA 2226

Mueller - Kelley Prospect
Midland, Riverside Co. Calif.

This prospect discovered, according to the application, in 1947, did not "make" the tabulated districts of California Copper Deposits, dated 1948, but last "expanded" in '45-'46 by John H. Eric.

There is no reference to such a prospect in the files of the U.S.G.S., probably because it is a relatively late discovery.

The data furnished are not convincing, but do arouse curiosity. The unusual complexity of the material uncovered at the "A" stripping, as indicated by what seems to be one analysis makes for suspicion and warrants a request for more details. The same applies to the sulfur samples from "B". Average specimens of the materials from the two cuts should help to establish the reliability of the scanty data.

Reference to the files of the Division of Mines of California indicate the Midland area to be an important source of gypsum and three copper prospects and one manganese showing are listed, but the metallic mineral production has been small.

Conclusion

If samples of the materials, assay certificates, and information as to manner of sampling tend to show a new discovery of interest has been made, a field team examination should be called for. Since copper and lead are the most valuable metals represented, the applicants should be told that their percentage of the cost would probably be increased. Perhaps they would trim their estimate accordingly.

N. E. Nelson

Ned E. Nelson
Geologist

OFFICE OF THE ADMINISTRATOR

2/4/52 gla

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

Reviewed by
DMEA OPERATING COMMITTEE
2-1-52
(date)

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

January 22, 1952

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2226 - Commodity: Copper, Lead, Etc. Mueller - Kelley Prospect, Midland, Riverside County, California.

Reference is made to the air mail letter to me from Mr. Frank E. Johnson, Chairman, Operating Committee, DMEA, dated December 14, requesting a field examination of the subject prospects.

Attached are four copies of a report, "DMEA-2226, Mueller - Kelley Prospect, Riverside County, California (Copper - Sulfur)", by William P. Irwin, Geologist, U. S. Geological Survey, dated January 18, 1952.

The owners applied for Government participation in a $15,850 program to explore the copper and sulfur deposits on their property. The examining geologist reports the copper showings are very limited and offer no commercial possibilities. The sulfur occurs in a bedded deposit with gypsum, and where exposed in a shallow cut through slope wash the material contains about 25 percent sulfur. This deposit, however, cannot extend along the outcrop for over 60 feet, and probably does not extend over 25 feet. Its extent back into the hill cannot be determined from the present exposures. Because of the small extent of the deposit, and because the applicants have a limited mining background, the examining geologist explained to them that their exploration request was too ambitious when compared to the amount of ore it might discover. The applicants apparently accepted the geologist's views and gave the impression they would do a little more exploration without Government aid in order to prove the deposit. It is, therefore, recommended that the application be denied. Docket is being returned herewith.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment
Copy to E. H. Bailey, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2226, Mueller - Kelley Prospect
Riverside County, California

(Copper, sulfur)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1952

William P. Irwin, Geologist
U. S. Geological Survey

January 18, 1952

DMEA-2226, Mueller - Kelley Prospect, Riverside County, California

Summary

The Mueller - Kelley prospect opens deposits of sulfur and copper. It is at an altitude of 1,000 feet at the southeast end of the Little Maria Mountains, about 2½ miles S. 16° W. of Midland, Riverside County, California. The deposits were discovered by C. F. Mueller in May 1947, and are owned by C. F. Mueller and W. O. Kelley. On November 3, 1951, the owners applied for Government participation in a $15,850 program to explore the deposits. In response to a request from the Defense Minerals Administration to determine the feasibility of the exploration program, W. P. Irwin of the Geological Survey examined the deposits on December 28, 1951, in the company of the owners. As a result of the examination it is recommended that the loan be denied as the deposits are too small and too low grade to warrant Government participation in an exploration program.

Two small pits were dug by the owners to expose the deposits. They are 20 feet apart on an easterly line, and are on the south side of a long, low, easterly trending spur.

The area is underlain mainly by thin-bedded crystalline limestone and gypsum. The beds strike northwest and dip gently to moderately northeast. A 15-foot thick mass of quartz monzonite that caps most of the spur appears to be a sill.

The deposits occur near the contact between gypsum and overlying limestone, about 75 feet stratigraphically below the sill. The eastern cut opens a deposit of sulfur in gypsum immediately below the contact. The western cut opens a deposit containing copper minerals in limestone immediately above the contact. There appears to be no commingling of the two deposits.

The sulfur occurs intermixed in a fine granular aggregate of skeletal gypsum crystals. It is estimated to constitute about 25 percent of the entire mass. The cut opens the deposit for a length of 10 feet and a thickness of 5 feet. Although the deposit is poorly exposed, its attitude appears to be parallel to that of the gypsum bed.

The sulfur deposit is exposed only in the eastern cut, and no indications of any other deposits of sulfur have been found on the property. A northerly trending high-angle fault cuts the section 25 feet east of the eastern cut, and places the sill in contact with the gypsum bed. Between the cut and the fault the gypsum bed is concealed by overburden and no sulfur-bearing float has been found. The western cut is entirely in limestone stratigraphically just above the gypsum bed. A few feet west of this cut the gypsum bed crops out on the hillside, but at this point no sulfur was observed. Thus, the strike length of the deposit is limited to

60 feet, and probably it is considerably less, as there is no sulfur-bearing float or other indication of the deposit beyond the limits of the eastern cut.

The copper deposit occurs in the limestone, approximately 1 foot stratigraphically higher than the top of the sulfur deposit. It consists of a small, discontinuous lens- and pod-shaped masses of fine-grained cuprite, which are traversed by thin veinlets of chrysocolla (?). No other metal bearing minerals were seen, although lead and antimony are reported by the applicant to be present. The masses lie parallel to the bedding of the limestone, and are sparsely distributed throughout a section about 1 foot thick. They are an average of about 1 inch thick, and are exposed for a strike length of 5 feet. No evidence of an easterly or westerly extension of the deposit was observed, although the same stratigraphic section is fairly well exposed in both directions along the strike.

Conclusions

The applicants have no definite plan for exploring the deposits nor have they had the proper background to prepare such a plan. The writer explained to the applicants that the cost of exploration should be somewhat proportional to the amount of ore that might reasonably be expected to be discovered. It was pointed out that the present exposures give little indication of there being a large deposit of sulfur or copper present on the Mueller-Kelley claims, and that their requested loan seems inordinately large. Furthermore, the deposits, particularly of the copper, are of doubtful economic grade. The applicants seemed amenable to accepting the writer's views, and gave the impression that they were interested in doing a little more exploration without being involved with Government financial assistance.

It is recommended that the requested loan be denied.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 0 1952

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

Reviewed by
DMEA OPERATING COMMITTEE
2-1-52
(date)

DMEA-2226, Mueller - Kelley Prospect
Riverside County, California

(Copper, sulfur)

William P. Irwin, Geologist
U. S. Geological Survey

January 18, 1952

DMEA-2226, Mueller - Kelley Prospect, Riverside County, California

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It is recommended that the requested loan be denied.

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

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

To: Operating Committee, DMEA

From: DMEA Staff
Jasper T. Robertson

Subject: DMEA Docket No. 2226 (Cu., Pb., Zn., Sb., S., etc.)
Mueller Kelley Prospect
Midland, Riverside County, California
Re: Question of Field Examination

The applicant has apparently made an earnest effort to explain the ore occurrence with written description and sketches, but because of the large number of minerals and inexperience in geology and ore occurrences, the description, as given, is unrealistic. An appraisement of the situation is needed by a geologist or mining engineer.

The applicant has used antimony as the percentage basis of participation, whereas a lesser amount, based on copper, lead and zinc would be more appropriate.

Memorandums on the subject have been exchanged between commodity men in "Mines", "Survey" and "DMEA" and the respective memos are attached hereto.

A field examination of the prospect is recommended.

Jasper T. Robertson

JTRobertson;mp 12/11/51
cc: Reports & Records
Adm's Reading File
Mr. Mittendorf
Mr. F. E. Johnson
Mr. Thayer
Mr. Moon
Mr. Robertson
Docket
Field Team, Region III (2)

Defense Minerals Exploration Administration

Review of Application for Exploration Assistance

Docket No. DMA 2226

Commodity Copper - Lead - Zinc ~~Antimony - Sulfur~~ etc

Total Amount $15,850

Govt. Participation Not yet decided.

1. Name and Address of Applicant Charles F Mueller 4877 Auburn Drive, San Diego, Calif & Woodrow O. Kelly, 886 Van Nuys St, San Diego 9, Calif.

2. Location of Property One and one-half miles from "Cox" siding on Santa Fe R.R., 18 miles to Blythe, Calif., and 3 miles to Midland, Calif.

3. Mineral or metal Cu., Pb., Zn., Sb., S., Mn. Is it listed in Section 9 of MO-5?
If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good Dont know

b) Poor "

c) None

d) Don't know—needs field examination Yes

e) Is there an alternative and favorable project? Dont Know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? No.
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? Owner

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? No

b) MF-202 No

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Good

d) Water (question 13)* No

e) Power (question 13)* ?

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*

They have engineering background but not mining.

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work?

They have submitted sketchs about as good as they can.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? —

Is this part a worth-while exploration project? —

d) Are the cost estimates detailed? Will require revision

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? —

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? —

12. Exhibit C (question 23-e, f and g)* —

a) Is it applicable? —

b) Sufficient data? — If so, attach a draft.

c) Are rents and charges reasonable? —

d) Is a field check needed? YES

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?

b) Is the schedule adequate for the work proposed?

c) Is the schedule excessive for the work proposed?

d) Are the proposed wages and salaries reasonable?

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? The projected program has to be outlined in detail and location and amount of work decided upon. The costs and information for Exhibit "A" should be drafted. The claim is only a mining location and should be tied in by measurement to some established point. Also see memorandums

Reviewed by: I. T. Robertson

Jasper T. Robertson

Date 12-10-51

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA

FOR USE UNDER THE

DEFENSE PRODUCTION ACT OF 1950

Nov 13 9 14 AM '51

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 2226

Date received 11-13-51

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley (PARTNERS)
886 Van Nuys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Woodrow O. Kelley 886 Van Nuys Street San Diego 9, California	Partner	$9,000.	$3,000.			$6,000.	$4,500.
Charles F. Mueller 4872 Auburn Drive San Diego, California	Partner	$2,700.	$48,000.			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production: No Production. Exploratory only.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					None
2. Quantity of product processed (specify unit of measure and type of process)					None
3. Quantity and grade of product sold or shipped (specify units of measure)					None

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. No Production yet.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. See attached sheets.

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley
886 Van Nuys Street
San Diego 9, California

PARTNERS

GENERAL TECHNICAL DATA

1. (a) Antimony (Stibnite), Lead (Galena associated with argentite), Sulfur (Native, or sulfo-sulfate), Copper (carbonates, sulfides, and oxides).
   (b) Quartz (sio2), Feldspar (Orthoclase), Magnesium (oxide), Iron (pyrite and hematite), Silver (argentite).

2. NAME - MUELLER-KELLEY
   Type 1 (Cupriferous quartz) bearing Antimony, Copper, Lead, and Iron. Vein matter in oxide ore zone; just above intermediate ore zone.

   Type 2 Arenaceous (granular) Sulfo-sulfate (Native Sulfur). As precipitation solutions from sulfide sources (such as iron pyrite).

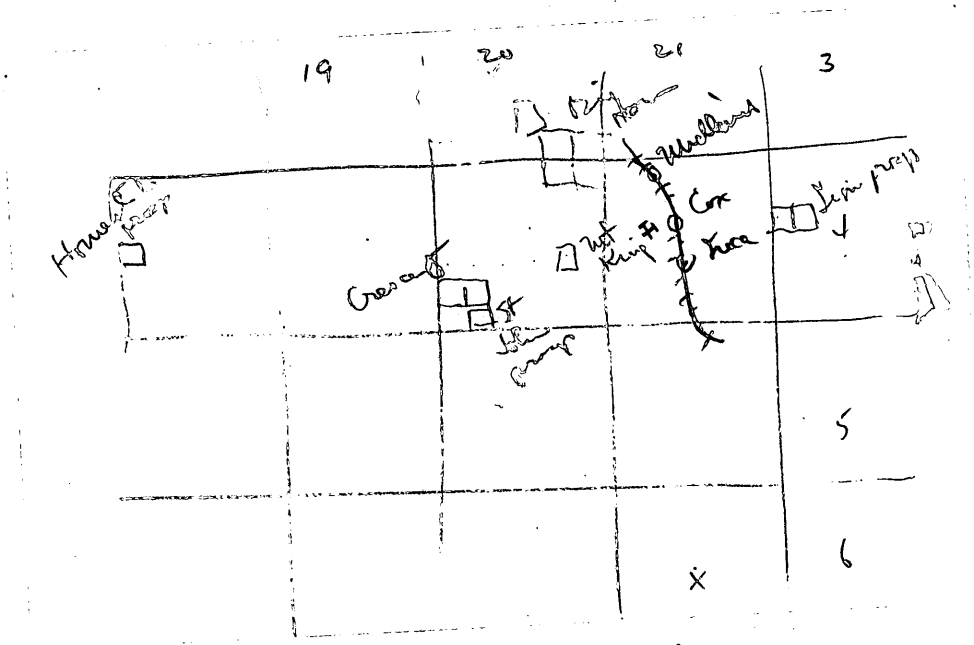
   (a) No shafts sunk.
   (b) No drifts or cross-cuts made.
   (c) 1. Cupriferous Quartz - Removed Antimony, Lead and copper bearing ore on the surface for an area approximately 15' x 15' x 3' deep for assay sampling and visual inspection. Further excavation must be made to determine depth and main ore body.
   2. Arenaceous (sulfur) - A hole approximately 20' x 8' x 8' has been dug revealing an apparently large body of native sulfur. This hole was dug approximately 200' from the Cuperferous out-croppings and is on our same claim. The chemical analysis revealed 51% sulphur on this material.
   (d) No other openings. No indications of underground water at depths excavated. No known pumping problem.

3. (a) Three miles south from Midland, California, and 1½ miles west of Cox siding on the Santa Fe Railroad.
   (b) Midland Mining District.
   (c) No township, section unknown, range unknown. 4S 21E
   (d) Riverside County, California

4. (a) Not operated at present.
   (b) Claim holders (Partners) filed at Riverside, California, under the name of "MUELLER - KELLEY" in book 1300, page 277, No.37347.

5. (a) Property never operated on production basis. Will operate property as soon as Federal financial assistance is received.

6. (a) and (b) Applicants and managers to be the same.
   WOODROW O. KELLEY - Metallurgical Engineer, presently employed as Foundry Superintendent of National Steel & Shipbuilding Corporation of San Diego, California.
   Past Experience.
   American-Standard-Richmond, California - Foundry Superintendent 2½ years.
   Cunningham Steel - Seattle, Washington - Assistant Foundry Superintendent, 1½ years.
   Kinney Iron Works - Los Angeles - Metallurgist 1½ years.
   Enterprise Engine & Foundry - San Francisco - Metallurgist 7 months.
   Boeing Airplane Co. - Seattle, Washington - Design and Production Process Engineer, 1 year.
   Consulting Engineer - Seattle, Washington - self-employed, 3½ years.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5
6
Cox
Hoca

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

6. a & b Continued.

CHARLES F. MUELLER - General Plastering Contractor, Phoenix, Arizona, License No. 12929, 1951-1952, and has been actively engaged as such in Arizona and California for the past 30 years. Mr. Mueller also owns and has farmed his 160 acre ranch at Blythe, California for the past 12 years.

7. (a) Mr. Mueller discovered the Cupriferous Quartz and Arenaceous (sulfo-sulfate) signs or out-croppings while prospecting the concerned property in the spring of 1947. Samples of both materials were assayed and revealed promising prospects, but due to lack of sufficient funds to further the preliminary exploration work at that time, the exploration was discontinued.

(b) The deceased Mr. Langdon's heirs have leased the property near our N.E. corner and have done considerable development work endeavouring to discover manganese ore of a commercial value.
A very limited tonnage of manganese bearing mineral (quantity unknown) has been removed by the lessee in the development stage.

(c) Reference Question 12.(a).

12. (a) 1--Cupriferous (iron-copper-sulfur) quartz which occurs as vein matter in oxide-ore zone; just above intermediate ore zone. Three forms of copper; oxide, carbonate, and sulfide also antimony sulfide (stibnite) and lead (galena) in encouraging amounts. This material is on the surface and extends down to unknown depths.

(Approximate Non-Metallics per ton):

Calcium	1.6%	- Carbonate
Sulfur	6.8%	- Pyrites
Quartz	48. %	- Silicon Oxide
Feldspar	11. %	- Orthoclase
Magnesium	5.6%	- Oxide

(Approximate Metallics per ton):

Antimony	1.7%	- Stibnite
Lead	3.4%	- Galena - associated with argentite.
Iron	14.7%	- Pyrite, Hematite.
Silver	2.6 oz. per ton	- argentite.
Copper	7.5%	- Carbonate, sulfides and oxides.
Aresnic	.8%	- Arsenopyrite.

2--Arenaceous (granular), Sulfo-Sulfate native sulfur. As Precipitation solutions from sulfide sources. A soft, granular, or arenaceous structure and with sufficient native sulfur to ignite. This material has a loose shale over-burden approximately 2' deep at the point of discovery. The sulfur appears to become richer as the depth is increased and appears in all directions under the overburden.

(Approximate non-metallics per ton):

Sulfur	51.%	- Native or sulfo-sulfate
Quartz	35.%	- Silicates (sio2)
Feldspar	2.8%	- Orthoclase
Magnesium	11.%	- Oxide

(Approximate metallics per ton):

Iron	1.3%	- Hematite

These assays were determined by GEORGE G. HAYES, 4452 Raleigh Street, Denver, Colorado, in 1947, for C. F. MUELLER.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

12. (b) 1--Surface examination only. See enclosed sketch for location and size.
    2--Not known.
    (c) 1--Do not know.
    2--See enclosed sketch--Approximate value of each hole-$250.00.
    3--Medium gravel; loose, no stumps, few boulders of partially cemented stratums of earth.
    4--Bedrock not known.
    5--(a) Cupriferous - exposed; no overburden.
    (b) Arenaceous - 2' loose, medium gravel overburden.
    6--There has not been sufficient work to substantiate mineral reserves.

13. One and one-half miles to "Cox" siding on Santa Fe Railroad; 18 miles to Blythe, California and 3 miles to Midland, California. There is a 2 lane black top highway to Blythe and Midland. The adjoining manganese workings have a reasonably good gravel, river bottom road to "Cox" siding and the highway. This road is slightly down grade and could be extended to our property without any difficulty.

14. No known local water supply. Water is brought in to Midland daily by tank car or truck from Blythe.

15. No electric power used at present and none available. Portable equipment would be required if electricity were used.

16. No labor has been used.

17. No suitable equipment or facilities owned or on the property.

18. None.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Do not know.	See chem. analysis	Do not know.	Do not Know.	Do not know.
Indicated (probable)	" "	See (12) a-1 a-2	" "	" "	" "

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By Woodrow O. Kelley
(Signature of authorized official)

Nov 5, 1951
(Date)

Partners
(Title)

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—63792-1

MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Nov 13 9 14 AM '51

Not To Be Filled in by Applicant

Docket No. dma 2 2 2 6
Metal or Mineral
Date Received 11-13-51
Amount $
Participation (Government %)

CHARLES F. MUELLER
4872 Auburn Drive
San Diego, California

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

If you have already filed MF-100, give date filed 11-3-51, type of assistance requested Loan;

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By L. F. Mueller
Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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—64067-2

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

1. (a) There is a section of ground approximately 1½ miles deep which we must transverse from "Cox" siding, west to our claim. The majority of this land to our knowledge, is government owned. There is a possibility that the most convenient road to our claim may pass over property which was patented by the late Mr. Langdon a number of years ago.
The Langdon heirs have leased or sold their mining rights to a party who has done considerable development work in search for commercial grades of manganese ore. (See enclosed topographical sketch for description of our real property).

(b) Claim Name - "MUELLER-KELLEY".
Recording Number - 37347
Book - 1300
Page - 277
Recorded at the county court house in Riverside, California.

(c) The measurement of this claim is 1500 linear feet, in length, on the vein. The Northerly end line is 300' Northerly from the discovery monument, and the Southerly line is 300' Southerly from the discovery monument, and said end lines are parallel. The general course of the mineral is Westerly and Easterly, The width 300' on the Northerly side, and 300' on the Southerly side, measuring from the center of the said quartz lode, vein, ledge or deposit and it is more particularly described as follows: commencing 100' east of the mineral discovery in an Easterly direction from the discovery monument, 140' therefrom and the N. E. corner will be 300' due North from this point 100' east of the mineral location. The S. E. corner will be 300' south of this point 100' east of mineral discovery. The North boundary of the claim will extend 1500' to, past, or towards the monument erected which is approximately 290 degrees from North in a Westerly direction from the N. E. corner. The west boundary will start from the N. W. Corner, 290 degrees from North and 1500' from the N. E. corner and will extend south approximately 20 degrees from North to the most Westerly monument, then turns East 170 degrees from North for a total width of 600'. The south boundary will run parallel as possible to the North boundary.

(1) Both areas the same.
(2) Owners -- No liens or encumbrances.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

2. (a) Antimony, Lead, Copper and Sulfur.

(b) See enclosed sketch for geological features.
The reason we expect to find commercial ore bodies are:

1. Superficial ore and mineral bodies become richer as the depth of investigation is increased.
2. There are not any known faults existing on the claim.
3. The general area has considerable undeveloped and developed minerals.
4. The assays show considerable possibilities.

There are two types mineral bearing deposits on the property within 200' from each other as shown by the enclosed topographical sketch.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

3. (a) The following work is proposed in reference to the exploration of our mineral discoveries.

1.	Survey land in question:	$ 250.00
2.	Extend present road to our property:	1,500.00
3.	Erect and furnish combination frame building to be used as watchman's shelter, tool house, office, etc.:	1,600.00
4.	Diamond drill the known mineral locations in order to ascertain the quantity, quality, and practability of further development work. The extent of this work will be affected by the results of assays and quantity of mineral reserves located:	12,000.00
5.	Determine the practability of starting development work after a complete geological recapitulation of core tests results and exploration work, by a qualified and unbiased mining engineer:	500.00
	Total cost of project	$ 15,850.00

(b) The proposed work will start within 30 days after a Federal loan has been approved and will be completed within 6 months from this time.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

4. See topography sketch enclosed.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

5. No existing facilities, installations or fixtures.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

6. Reference question "3. (a) item 3." furnish and erect (1) combingtion frame 16' x 20' frame building -- $ 1,600.00.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

7. Operating equipment to be Rented:

1.	Bull-dozer and operator, 10 days @ $80.00	$ 800.00
2.	Diamond Drill Rig. Minimum of (8) 200' test holes @ approximately $7.00 per foot including labor and materials	12,000.00
3.	Pick-up truck @ $100.00 per month, maximum	600.00
4.	Power-shovel 10 days ¢ $100.00 per day	1,000.00
	Total cost of operating equipment to be rented	$ 14,400.00

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

8. (1) Mining Foreman & Watchman to observe and supervise preliminary excavation work and drilling -- $ 500.00 per month.

WOODROW C. KELLEY
886 Van Nuys Street
San Diego 9, California

9. (a) Materials
   1. Drill operators to furnish own materials.

   (b) Supplies
   1. Five hundred to 2,000 gallons water per day trucked in during drilling operations - $ 35.00 per day.

   (c) Engineering
   1. Survey of land - $ 250.00.
   2. Geological capitulation - $ 500.00.) of exploration work.)

   (d) Assaying - $ 750.00.

   (e) Accounting - $ 75.00. per month.

   (f) Power
   1. Gasoline driven equipment furnished by Lessor -

   (g) Utilities
   1. Reference - 9. (b).

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

10. (a) My partner and I feel that we can meet the 25% required on Antimony.

(b) Yes.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

11. None.

DEPARTMENT OF THE INTERIOR
RECEIVED
DEC 17 1951
Defense Minerals Administration,
Production Expansion Division.

886 Van Nuys Street
San Diego, California
December 14, 1951

United States Department of Interior
Rare and Light Metals Branch
Defense Minerals Administration
Washington - 25, D. C.

Chas. F. Mueller
DMA-2226

Gentlemen:

We wish to acknowledge receipt of our copy of Document No. DMA-2226, from R. E. Adams, Chief Reports and Records Unit, and his referral of our loan application to the Rare and Light Metals Branch.

My partner, C. F. Mueller, and I would appreciate any assistance which may be rendered to expedite our pending loan application.

Thank you,

Yours very truly,

Woodrow O. Kelley

Woodrow O. Kelley

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 17 1951

WOK:aw

FILE COPY
SURNAME:

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

Robertson
Johnson (for)

DEC 14 1951

Mr. W. C. Miller, Executive Officer
DMA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco, California

Re: DMA Docket No. 2226
Commodity: Copper, Lead, etc.
Mueller-Kelley Prospect
Midland, Riverside Co., Calif.

Dear Mr. Miller:

You are asked to make a field examination of the above captioned mine. It is a prospect consisting of one mining location, and there are no workings other than some scatter open-cuts and test pits.

The applicant reports a wide variety of metallic minerals and it is important to know their relative importance in order to know what percentage of participation is appropriate. (The applicant requests 75% - 25% basis because of antimony in the ore.)

The proposed project should be discussed with the applicant and least on of work and distributed costs estimated if a program is found warranted. Also the mining claim should be tied in to some established and known marker such as a known claim corner or section corner.

We await your views and comments whenever the examination is completed.

Sincerely yours,

(signed) FRANK E. JOHNSON (for)

Frank E. Johnson, Chairman
Operating Committee

JTRobertsonimp 12/11/51
cc: Adm. Reading File
Mail & File Branch
Mr. Mittendorf
Mr. C. H. Johnson
Mr. L. B. Nelson
Mr. W. W. Ellis
Mr. Robertson
Docket
Field Team,
Region III

Member, Bureau of Mines

Member, Geological Survey

FILE COPY
SURNAME:

Robertson

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

DEC 14 1951

Memorandum

To: Operating Committee, DMEA

From: DMEA Staff
Jasper T. Robertson

Subject: DMEA Docket No. 2226 (Cu., Pb., Zn., Sb., S., etc.)
Mueller Kelley Prospect
Midland, Riverside County, California
Not Question of Field Examination

The applicant has apparently made an earnest effort to explain the ore occurrence with written description and sketches, but because of the large number of minerals and inexperience in geology and ore occurrences, the description, as given, is unrealistic. An appraisement of the situation is needed by a geologist or mining engineer.

The applicant has used antimony as the percentage basis of participation, whereas a lesser amount, based on copper, lead and zinc would be more appropriate.

Memorandums on the subject have been exchanged between commodity men in "Mines", "Survey" and "DMEA" and the respective memos are attached hereto.

A field examination of the prospect is recommended.

Jasper T. Robertson

JTRobertson;mp 12/11/51
cc: Reports & Records
Adm's Reading File
Mr. Mittendorf
Mr. F. E. Johnson
Mr. Thayer
Mr. Moon
Mr. Robertson
Docket
Field Team, Region III (2)

[illegible]

[illegible]

[illegible] Case No. [illegible]
Commodity: Copper, Lead, etc.
Miller-Kelley Prospect
Inland, Imperial Co., Calif.

Dear Mr. Miller:

You are invited to make a field examination of the above captioned claim. It is a prospect consisting of one sixty location, and there are no workings other than some scattered open-cuts and test pits.

The applicant reports a wide variety of metallic minerals and it is important to know their relative importance in order to know what percentage of participation is appropriate. (The applicant requests 75% - 25% basis because of antipathy in the area.)

The proposed project should be discussed with the applicant and layout of work and distributed costs estimated if a program is found warranted. Also the mining claim should be tied in to some established and known marker such as a known claim corner or section corner.

We await your views and comments upon the examination is completed.

Sincerely yours,

(signed) FRANK E. JOHNSON

[illegible]

Frank E. Johnson, Chairman
Operating Committee

JTRobertson:mp 12/11/51

cc: Mr. Leading Mile
Mail & File Branch
Mr. Pittenbrorf
Mr. E. E. Johnson
Mr. [illegible] Fulton
Mr. E. E. Ellis
Mr. Robertson
Docket
Field Team, Region III

[illegible]

Member, Bureau of Mines

Member, Geological Survey

Field Referral - Application

DMA-2226
Copper, Lead
Region III

MUEL[illegible], CHARLES F. AND WOODROW O. KE[illegible]Y, SAN DIEGO, CALIFORNIA
Mueller Kelley Prospect, Midland, Riverside County, California.

Application referred to Field for examination. Although the Bureau and Survey commodity man recommended that application be returned to the applicant for information, the Operating Committee went along with the DMEA that it be referred to the Field Team.

12/12/51

[illegible] (Donnelly)

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

DEC 14 1951

Memorandum

To: Operating Committee, DMEA

From: DMEA Staff
Jasper T. Robertson

Subject: DMEA Docket No. 2226 (Cu., Pb., Zn., Sb., S., etc.)
Mueller Kelley Prospect
Midland, Riverside County, California
Re: Question of Field Examination

The applicant has apparently made an earnest effort to explain the ore occurrence with written description and sketches, but because of the large number of minerals and inexperience in geology and ore occurrences, the description, as given, is unrealistic. An appraisement of the situation is needed by a geologist or mining engineer.

The applicant has used antimony as the percentage basis of participation, whereas a lesser amount, based on copper, lead and zinc would be more appropriate.

Memorandums on the subject have been exchanged between commodity men in "Mines", "Survey" and "DMEA" and the respective memos are attached hereto.

A field examination of the prospect is recommended.

Jasper T. Robertson

Jasper T. Robertson

BH

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 18 1951

DEPARTMENT OF THE INTERIOR
RECEIVED
DEC 19 1951
Defense Minerals Administration,
Production Expansion Division.

Docket
DMEA 2226

886 Van Nuys Street
San Diego, California
December 14, 1951

Mr. R. E. Adams
U. S. Department of Interior
Chief, Reports and Records
Washington - 25, D. C.

Dear Sir:

My partner, Mr. C. F. Mueller, and I wish to acknowledge the receipt of our Document No. DMA 2226, and our loan referral to the Rare and Light Metals Branch for consideration.

We wish to thank you for your expeditious handling of this matter.

Very truly yours,

Woodrow O. Kelley

Woodrow O. Kelley

WOK:aw

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

DEC 14 1951

[illegible]

To: [illegible]erating Committee, [illegible]

From: [illegible] Staff
[illegible]per T. Robertson

Subject: [illegible] Sb., [illegible]
[illegible] Valley [illegible]ect
[illegible], Inyo [illegible]ty, California
Ma[illegible]ation of Field [illegible]

The applicant has apparently [illegible] earnest effort to explore the ore occurrence [illegible] description [illegible], but because of the large number of minerals [illegible] importance in geology and ore occurrence, the description, as [illegible], is [illegible]. An appraisement of the situation is needed by a geologist or mining engineer.

The applicant has used [illegible] of [illegible] ligation, whereas a lesser amount, [illegible], land and time would be more appropriate.

[illegible] on the project have been exchanged between commodity men in "Mines", "Surveys" [illegible] the respective memos are attached hereto.

[illegible] Field examination of this project is recommended.

[illegible]per T. Robertson

JTRobertson:mg 12/11/51
cc: [illegible]orts & Records
[illegible] Reading File
[illegible]r. Hillendorf
[illegible]r. [illegible] Johnson
[illegible]r. Thayer
[illegible]r. Moon
[illegible]r. Robertson
[illegible]ocket
Field [illegible], [illegible]ngton III (2)

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

DEPARTMENT OF THE INTERIOR
RECEIVED
DEC 7 1951
Defense Minerals Administration,
Production Expansion Division

December 5, 1951

Memorandum

To: Jasper T. ~~Robinson~~ Robertson, DMEA, Room 4070

From: C. H. Johnson, Chief
Base Metals Branch

Subject: Exploration Project Application - Docket DMA-2226 Copper-Lead-Antimony and Sulphur Miller-Kelly Claim, Riverside County, California.

Returned herewith is the subject docket. I have gone over it carefully and ordinarily would be inclined to agree with you that a Field Team examination should be requested inasmuch as the Bureau of Mines has no report on this property; neither is it mentioned in Bulletin 144 of the California Division of Mines, "Copper in California", 1948. We should not like to miss the possibility that something of consequence has been discovered. However, it is a long trip from San Francisco or Reno to that part of California and in view of our shorthandedness in the field, I hesitate to ask to have an examination made when the applicant clearly has not fulfilled the minimum requirements in submitting the application.

My suggestion is that you write the applicant and ask him how in view of his absolute inexperience in mining matters he expects to manage the proposed operation. Presumably, he will employ a competent consultant. In that case, it seems only fair to tell him that he is expected, if he hasn't enough experience to do it himself, to employ a competent consultant to prepare his application. You might point out that the analyses submitted as evidence of the presence of copper, lead, antimony and sulphur mineralization signify nothing as he does not tell what kind of sample was taken nor how it was processed. In other words, the sampling procedure should be described to indicate whether or not the samples are representative. It is also expected before a Field Team examination is made that applicant shall lay out the project in some detail.

It might be a good idea for you to refer this docket to Ned Nelson, my opposite number in the Geological Survey and see whether or not he concurs in this suggestion. The burden of making a field examination might fall on a member of the Geological Survey staff. Mr. Nelson's room is 4216 GSA Building. His telephone is Extension is 2601.

C H Johnson

C. H. Johnson, Chief
Base Metals Branch

Copy to Mr. Nelson,
Rm. 4216, GSA
Minerals Division F i l e s

400

FILE COPY
SURNAME:

Robertson

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

November 29, 1951

J. A.

MEMORANDUM

To: Chas. H. Johnson, Chief, Base Metals Branch
Room 3425

From: Jasper T. Robertson, DMEA
Room 4070 Extension 2328

Subject: Exploration Project Application. Docket No. DMA-2226 (Copper, lead, antimony etc.) Mueller-Kelley Claim, Riverside County California

We hand you herewith the complete file on the above reference. Please review this case and give us your comments or recommendations- particularly as to the advisability of a field team examination.

Briefly - the property is a single mining location of only one claim and owned by two partners neither of whom appear to be familiar with mines and ore deposits. Their description of the mineralization and ore occurrence appears to be unrealistic and it probably would be useless to attempt to obtain the basic data by writing them again for clarification. Therefore it seems that a field team examination might be best. The claims are quite accessible and as there is no workings, other than surface trenches, the inspection should not be too difficult.

The reported crude sulfur veins are probably distinct from the metalliferous veins and each would be appraised from a different point of view. At any rate, the applicants description is a hodge podge of mineral ingredients and more information is needed before a exploration contract can be made- a contract which would involve, according to applicant, an estimated total of $15,850.

Jasper T. Robertson

JTRobertson/jem
cc to: Adm. Reading File
Reports & Records
Mr. Robertson
Docket

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The reported crude sulfur veins are probably distinct from the metalliferous veins and each would be appraised from a different point of view. At any rate, the applicants description is a hodge podge of mineral ingredients and more information is needed before a exploration contract can be made- a contract which would involve, according to applicant, an estimated total of $15,250.

Jasper T. Robertson

JTRobertson/jem
cc to: Adm. Reading File
Reports & Records
Mr. Robertson
Docket

NOTES
DMA 2226

Mueller - Kelley Prospect
Midland, Riverside Co. Calif.

This prospect discovered, according to the application, in 1947, did not "make" the tabulated districts of California Copper Deposits, dated 1948, but last "expanded" in '45-'46 by John H. Eric.

There is no reference to such a prospect in the files of the U.S.G.S., probably because it is a relatively late discovery.

The data furnished are not convincing, but do arouse curiosity. The unusual complexity of the material uncovered at the "A" stripping, as indicated by what seems to be one analysis makes for suspicion and warrants a request for more details. The same applies to the sulfur samples from "B". Average specimens of the materials from the two cuts should help to establish the reliability of the scanty data.

Reference to the files of the Division of Mines of California indicate the Midland area to be an important source of gypsum and three copper prospects and one manganese showing are listed, but the metallic mineral production has been small.

Conclusion

If samples of the materials, assay certificates, and information as to manner of sampling tend to show a new discovery of interest has been made, a field team examination should be called for. Since copper and lead are the most valuable metals represented, the applicants should be told that their percentage of the cost would probably be increased. Perhaps they would trim their estimate accordingly.

N. E. Nelson

Ned E. Nelson
Geologist

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 2226

Commodity Copper, Lead, Zinc, Antimony, Sulfur, etc.

Total Amount $15,850

Govt. Participation Not yet decided.

1. Name and Address of Applicant Charles F. Mueller 4872 Auburn Drive, San Diego, Calif. and Woodrow O. Kelly, 886 Van Nuys Street, San Diego, Calif.

2. Location of Property One and one-half miles from "Cox" siding on Santa Fe Railroad, 18 miles to Blythe, California, and 3 miles to Midland, California.

3. Mineral or metal Cu, Pb, Zn, Sb, S, Mn. Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good Don't know.

b) Poor Don't know.

c) None Don't know.

d) Don't know—needs field examination Yes

e) Is there an alternative and favorable project? Don't know. (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? No (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? Owner

Does the lease have sufficient time to run to cover a future productive period? ---------

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? No

b) MF-202 No

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Good

d) Water (question 13)* No

e) Power (question 13)* ?

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*

They have engineering background but not mining.

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work?

They have submitted sketchs about as good as they can.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? -----

Is this part a worthwhile exploration project? -----

d) Are the cost estimates detailed? Will require revision

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? ------

b) If so, are sufficient data furnished? ----- If so, attach a draft.

c) Is a field check needed? -----

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? -----

b) Sufficient data? ----- If so, attach a draft.

c) Are rents and charges reasonable? -----

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?

b) Is the schedule adequate for the work proposed?

c) Is the schedule excessive for the work proposed?

d) Are the proposed wages and salaries reasonable?

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? The projected program has to be outlined in detail and location and amount of work decided upon. The costs and information for Exhibit "A" should be drafted. The claim is only a mining location and should be tied in by measurement to some established point. Also see memorandums.

Reviewed by: J. T. Robertson

Date 12/10/51

INT.-DUP. SEC., WASH., D.C. 99009

November 19, 1951

Mr. Charles F. Mueller
4872 Auburn Drive
San Diego, California

Subject: DMA-2226
Re: Exploration Loan
Mueller-Kelley Claim

My dear Mr. Mueller:

This will acknowledge receipt of your application dated November 3, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2226 and referred to the Rare & Light Metals Branch.

Kindly refer to DMA- 2226 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

dma 2226

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

Nov 13 9 14 AM '51

886 Van Nuys Street
San Diego 9, California
November 6, 1951

Mr. C. O. Mittendorf
Acting Administrator
U. S. Department of Interior
Washington 25, D. C.

Dear Sir:

This letter is to acknowledge your letter of October 4, 1951, to honorable Clinton D. McKinnon concerning our request for information on mineral development, and to apply for Federal aid in order to ascertain our mineral reserves.

We will appreciate any assistance you may render my partner, Mr. C. F. Mueller and myself on this request, and will be willing to submit any additional information if necessary.

Yours truly,

Woodrow O. Kelley

Woodrow O. Kelley

WOK:ka

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Nov 13 9 14 AM '51

Not To Be Filled in by Applicant

Docket No. dma 2226
Metal or Mineral
Date Received 11-13-51
Amount $
Participation (Government %)

Name and address of applicant

CHARLES F. MUELLER
4872 Auburn Drive
San Diego, California

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

Date November 3, 1951

If you have already filed MF-100, give date filed 11-3-51, type of assistance requested Loan,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO-5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By L F Mueller
Woodrow O. Kelley
(Signature of authorized official)

March 5, 1951
(Date)

Partners
(Title)

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—64067-2

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

1. (a) There is a section of ground approximately 1½ miles deep which we must transverse from "Cox" siding, west to our claim. The majority of this land to our knowledge, is government owned. There is a possibility that the most convenient road to our claim may pass over property which was patented by the late Mr. Langdon a number of years ago.
The Langdon heirs have leased or sold their mining rights to a party who has done considerable development work in search for commercial grades of manganese ore. (See enclosed topographical sketch for description of our real property).

(b) Claim Name - "MUELLER-KELLEY".
Recording Number - 37347
Book - 1300
Page - 277
Recorded at the county court house in Riverside, California.

(c) The measurement of this claim is 1500 linear feet, in length, on the vein. The Northerly end line is 300' Northerly from the discovery monument, and the Southerly line is 300' Southerly from the discovery monument, and said end lines are parallel. The general course of the mineral is Westerly and Easterly, The width 300' on the Northerly side, and 300' on the Southerly side, measuring from the center of the said quartz lode, vein, ledge or deposit and it is more particularly described as follows: commencing 100' east of the mineral discovery in an Easterly direction from the discovery monument, 140' therefrom and the N. E. corner will be 300' due North from this point 100' east of the mineral location. The S. E. corner will be 300' south of this point 100' east of mineral discovery. The North boundary of the claim will extend 1500' to, past, or towards the monument erected which is approximately 290 degrees from North in a Westerly direction from the N. E. corner. The west boundary will start from the N. W. Corner, 290 degrees from North and 1500' from the N. E. corner and will extend south approximately 20 degrees from North to the most Westerly monument, then turns East 170 degrees from North for a total width of 600'. The south boundary will run parallel as possible to the North boundary.

(1) Both areas the same.
(2) Owners -- No liens or encumbrances.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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WASHINGTON, D. C.
NOV 13 9 14 AM '51

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Not To Be Filled in by Applicant

Docket No. dma 2 2 2 6
Metal or Mineral
Date Received 11-13-51
Amount $
Participation (Government %)

CHARLES F. MULLER
4872 Auburn Drive
San Diego, California

MOORROW O. KELLY
886 Van Nuys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

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DMA Docket Number (if available)

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6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

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8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By L F Mueller
Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

NOODROW O. KELLEY
836 Van Nuys Street
San Diego 9, California

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The Langdon heirs have leased or sold their mining rights to a party who has done considerable development work in search for commercial grades of manganese ore. (See enclosed topographical sketch for description of our real property).

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(1) Both areas the same.
(2) Owners -- No liens or encumbrances.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

2. (a) Antimony, Lead, Copper and Sulfur.

(b) See enclosed sketch for geological features.
The reason we expect to find commercial ore bodies are:

1. Superficial ore and mineral bodies become richer as the depth of investigation is increased.
2. There are not any known faults existing on the claim.
3. The general area has considerable undeveloped and developed minerals.
4. The assays show considerable possibilities.

There are two types mineral bearing deposits on the property within 200' from each other as shown by the enclosed topographical sketch.

WOODROW O. KELLEY
625 Van Nuys Street
San Diego 9, California

3. (a) The following work is proposed in reference to the exploration of our mineral discoveries.

1.	Survey land in question:	$ 250.00
2.	Extend present road to our property:	1,500.00
3.	Erect and furnish combination frame building to be used as watchman's shelter, tool house, office, etc.:	1,600.00
4.	Diamond drill the known mineral locations in order to ascertain the quantity, quality, and practability of further development work. The extent of this work will be affected by the results of assays and quantity of mineral reserves located:	12,000.00
5.	Determine the practability of starting development work after a complete geological recapitulation of core tests results and exploration work, by a qualified and unbiased mining engineer:	500.00
	Total cost of project	$ 15,850.00

(b) The proposed work will start within 30 days after a Federal loan has been approved and will be completed within 6 months from this time.

MOORSON O. KELLY
886 Van Nuys Street
San Diego 9, California

4. See topography sketch enclosed.

WOODSON O. KELLY
886 Van Nuys Street
San Diego 9, California

5. No existing facilities, installations or fixtures.

WOODROW O. KELLEY
826 Van Nuys Street
San Diego 9, California

6. Reference question #3. (a) item 3." furnish and erect (1) combination frame 16' x 20' frame building -- $ 1,600.00.

MOODROW C. KELLEY
826 Van Nays Street
San Diego 9, California

7. Operating equipment to be Rented:

1.	Bull-dozer and operator, 10 days @ $80.00	$ 800.00
2.	Diamond Drill Rig. Minimum of (8) 200' test holes @ approximately $7.00 per foot including labor and materials	12,000.00
3.	Pick-up truck @ $100.00 per month, maximum	600.00
4.	Power-shovel 10 days @ $100.00 per day.	1,000.00
	Total cost of operating equipment to be rented	$ 14,400.00

WOODROW O. KELLEY
895 Van Buys Street
San Diego 9, California

8. (1) Mining Foreman & Watchman to observe and supervise preliminary excavation work and drilling — $ 500.00 per month.

RODNEY O. RILEY
826 Van Nuys Street
San Diego 9, California

9. (a) Materials
   1. Drill operators to furnish own materials.

(b) Supplies
   1. Five hundred to 2,000 gallons water per day trucked in during drilling operations - $ 35.00 per day.

(c) Engineering
   1. Survey of land - $ 250.00.
   2. Geological capitulation - $ 500.00.) of exploration work.)

(d) Assaying - $ 750.00.

(e) Accounting - $ 75.00. per month.

(f) Power
   1. Gasoline driven equipment furnished by Lessor -

(g) Utilities
   1. Reference - 9. (b).

MORRIS O. KELLY
1886 Van Nuys Street
San Diego 9, California

10. (a) My partner and I feel that we can meet the 25% required on Antimony.

(b) Yes.

THOMSON O. KELLEY
836 Van Nuys Street
San Diego 9, California

11. None.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA

Nov 13 9 14 AM '51

FOR USE UNDER THE

DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 22226

Date received 11-13-51

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley (PARTNERS)
886 Van Nuys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Woodrow O. Kelley 886 Van Nuys Street San Diego 9, California	Partner	$9,000.	$3,000.			$6,000.	$4,500.
Charles F. Mueller 4872 Auburn Drive San Diego, California	Partner	$2,700.	$48,000.			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production: No Production. Exploratory only.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					None
2. Quantity of product processed (specify unit of measure and type of process)					None
3. Quantity and grade of product sold or shipped (specify units of measure)					None

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. No Production yet.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. See attached sheets.

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley
886 Van Nuys Street
San Diego 9, California

PARTNERS

GENERAL TECHNICAL DATA

1. (a) Antimony (Stibnite), Lead (Galena associated with argentite), Sulfur (Native, or sulfo-sulfate), Copper (carbonates, sulfides, and oxides).
   (b) Quartz (sio2), Feldspar (Orthoclase), Magnesium (oxide), Iron (pyrite and hematite), Silver (argentite).

2. NAME - MUELLER-KELLEY
   Type 1 (Cupriferous quartz) bearing Antimony, Copper, Lead, and Iron. Vein matter in oxide ore zone; just above intermediate ore zone.

   Type 2 Arenaceous (granular) Sulfo-sulfate (Native Sulfur). As precipitation solutions from sulfide sources (such as iron pyrite).

   (a) No shafts sunk.
   (b) No drifts or cross-cuts made.
   (c) 1. Cupriferous Quartz - Removed Antimony, Lead and copper bearing ore on the surface for an area approximately 15' x 15' x 3' deep for assay sampling and visual inspection. Further excavation must be made to determine depth and main ore body.
   2. Arenaceous (sulfur) - A hole approximately 20' x 8' x 8' has been dug revealing an apparently large body of native sulfur. This hole was dug approximately 200' from the Cuperferous out-croppings and is on our same claim. The chemical analysis revealed 51% sulphur on this material.
   (d) No other openings. No indications of underground water at depths excavated. No known pumping problem.

3. (a) Three miles south from Midland, California, and 1½ miles west of Cox siding on the Santa Fe Railroad.
   (b) Midland Mining District.
   (c) No township, section unknown, range unknown.
   (d) Riverside County, California

4. (a) Not operated at present.
   (b) Claim holders (Partners) filed at Riverside, California, under the name of "MUELLER - KELLEY" in book 1300, page 277, No.37347.

5. (a) Property never operated on production basis. Will operate property as soon as Federal financial assistance is received.

6. (a) and (b) Applicants and managers to be the same.
   WOODROW O. KELLEY - Metallurgical Engineer, presently employed as Foundry Superintendent of National Steel & Shipbuilding Corporation of San Diego, California.
   Past Experience.
   American-Standard-Richmond, California - Foundry Superintendent 2½ years.
   Cunningham Steel - Seattle, Washington - Assistant Foundry Superintendent, 1½ years.
   Kinney Iron Works - Los Angeles - Metallurgist 1½ years.
   Enterprise Engine & Foundry - San Francisco - Metallurgist 7 months.
   Boeing Airplane Co. - Seattle, Washington - Design and Production Process Engineer, 1 year.
   Consulting Engineer - Seattle, Washington - self-employed, 3½ years.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

6. a & b Continued.

CHARLES F. MUELLER - General Plastering Contractor, Phoenix, Arizona, License No. 12929, 1951-1952, and has been actively engaged as such in Arizona and California for the past 30 years. Mr. Mueller also owns and has farmed his 160 acre ranch at Blythe, California for the past 12 years.

7. (a) Mr. Mueller discovered the Cupriferous Quartz and Arenaceous (sulfo-sulfate) signs or out-croppings while prospecting the concerned property in the spring of 1947. Samples of both materials were assayed and revealed promising prospects, but due to lack of sufficient funds to further the preliminary exploration work at that time, the exploration was discontinued.

(b) The deceased Mr. Langdon's heirs have leased the property near our N.E. corner and have done considerable development work endeavouring to discover manganese ore of a commercial value.
A very limited tonnage of manganese bearing mineral (quantity unknown) has been removed by the lessee in the development stage.

(c) Reference Question 12.(a).

12. (a) 1--Cupriferous (iron-copper-sulfur) quartz which occurs as vein matter in oxide-ore zone; just above intermediate ore zone. Three forms of copper; oxide, carbonate, and sulfide also antimony sulfide (stibnite) and lead (galena) in encouraging amounts. This material is on the surface and extends down to unknown depths.

(Approximate Non-Metallics per ton):

Calcium	1.6%	- Carbonate
Sulfur	6.8%	- Pyrites
Quartz	48. %	- Silicon Oxide
Feldspar	11. %	- Orthoclase
Magnesium	5.6%	- Oxide

(Approximate Metallics per ton):

Antimony	1.7%	- Stibnite
Lead	3.4%	- Galena - associated with argentite.
Iron	14.7%	- Pyrite, Hematite.
Silver	2.6 oz. per ton	- argentite.
Copper	7.5%	- Carbonate, sulfides and oxides.
Aresnic	.8%	- Arsenopyrite.

2--Arenaceous (granular), Sulfo-Sulfate native sulfur. As Precipitation solutions from sulfide sources. A soft, granular, or arenaceous structure and with sufficient native sulfur to ignite. This material has a loose shale over-burden approximately 2' deep at the point of discovery. The sulfur appears to become richer as the depth is increased and appears in all directions under the overburden.

(Approximate non-metallics per ton):

Sulfur	51.%	- Native or sulfo-sulfate
Quartz	35.%	- Silicates (sio2)
Feldspar	2.8%	- Orthoclase
Magnesium	11.%	- Oxide

(Approximate metallics per ton):

Iron	1.3%	- Hematite

These assays were determined by GEORGE G. HAYES, 4452 Raleigh Street, Denver, Colorado, in 1947, for C. F. MUELLER.

WOODROW O. KELLEY
866 Van Nuys Street
San Diego 9, California

12. (b) 1--Surface examination only. See enclosed sketch for location and size.
2--Not known.
(c) 1--Do not know.
2--See enclosed sketch--Approximate value of each hole-$250.00.
3--Medium gravel; loose, no stumps, few boulders of partially cemented stratums of earth.
4--Bedrock not known.
5--(a) Cupriferous - exposed; no overburden.
(b) Arenaceous - 2' loose, medium gravel overburden.
6--There has not been sufficient work to substantiate mineral reserves.

13. One and one-half miles to "Cox" siding on Santa Fe Railroad; 18 miles to Blythe, California and 3 miles to Midland, California. There is a 2 lane black top highway to Blythe and Midland. The adjoining manganese workings have a reasonably good gravel, river bottom road to "Cox" siding and the highway. This road is slightly down grade and could be extended to our property without any difficulty.

14. No known local water supply. Water is brought in to Midland daily by tank car or truck from Blythe.

15. No electric power used at present and none available. Portable equipment would be required if electricity were used.

16. No labor has been used.

17. No suitable equipment or facilities owned or on the property.

18. None.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Do not know.	See chem. analysis	Do not know.	Do not Know.	Do not know.
Indicated (probable)	" "	See (12) a-1 a-2	" "	" "	" "

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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—63792-1

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

2. (a) Antimony, Lead, Copper and Sulfur.

(b) See enclosed sketch for geological features.
The reason we expect to find commercial ore bodies are:

1. Superficial ore and mineral bodies become richer as the depth of investigation is increased.
2. There are not any known faults existing on the claim.
3. The general area has considerable undeveloped and developed minerals.
4. The assays show considerable possibilities.

There are two types mineral bearing deposits on the property within 200' from each other as shown by the enclosed topographical sketch.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

3. (a) The following work is proposed in reference to the exploration of our mineral discoveries.

1.	Survey land in question:	$ 250.00
2.	Extend present road to our property:	1,500.00
3.	Erect and furnish combination frame building to be used as watchman's shelter, tool house, office, etc.:	1,600.00
4.	Diamond drill the known mineral locations in order to ascertain the quantity, quality, and practability of further development work. The extent of this work will be affected by the results of assays and quantity of mineral reserves located:	12,000.00
5.	Determine the practability of starting development work after a complete geological recapitulation of core tests results and exploration work, by a qualified and unbiased mining engineer:	500.00
	Total cost of project	$ 15,850.00

(b) The proposed work will start within 30 days after a Federal loan has been approved and will be completed within 6 months from this time.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

4. See topography sketch enclosed.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

5. No existing facilities, installations or fixtures.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

6. Reference question "3. (a) item 3." furnish and erect (1) combingtion frame 16' x 20' frame building -- $ 1,600.00.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

7. Operating equipment to be Rented:

1.	Bull-dozer and operator, 10 days @ $80.00	$ 800.00
2.	Diamond Drill Rig. Minimum of (8) 200' test holes @ approximately $7.00 per foot including labor and materials	12,000.00
3.	Pick-up truck @ $100.00 per month, maximum	600.00
4.	Power-shovel 10 days ¢ $100.00 per day	1,000.00
	Total cost of operating equipment to be rented	$ 14,400.00

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

8. (1) Mining Foreman & Watchman to observe and supervise preliminary excavation work and drilling — $ 500.00 per month.

WOODROW O. KELLEY
836 Van Nuys Street
San Diego 9, California

9. (a) Materials
   1. Drill operators to furnish own materials.

(b) Supplies
   1. Five hundred to 2,000 gallons water per day trucked in during drilling operations - $ 35.00 per day.

(c) Engineering
   1. Survey of land - $ 250.00.
   2. Geological capitulation - $ 500.00.) of exploration work.)

(d) Assaying - $ 750.00.

(e) Accounting - $ 75.00. per month.

(f) Power
   1. Gasoline driven equipment furnished by Lessor -

(g) Utilities
   1. Reference - 9. (b).

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

10. (a) My partner and I feel that we can meet the 25% required on Antimony.

(b) Yes.

WOODROW O. KELLEY
886 Van Nuys Street
San Diego 9, California

11. None.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 2226

Date received 11-13-51

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley (PARTNERS)
666 Van Nuys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Woodrow O. Kelley 886 Van Nuys Street San Diego 9, California	Partner	$9,000.	$3,000.			$6,000.	$4,500.
Charles F. Mueller 4872 Auburn Drive San Diego, California	Partner	$2,700.	$48,000.			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production: No Production. Exploratory only.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					None
2. Quantity of product processed (specify unit of measure and type of process)					None
3. Quantity and grade of product sold or shipped (specify units of measure)					None

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

No Production yet.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

See attached sheets.

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley
886 Van Nuys Street
San Diego 9, California

PARTNERS

GENERAL TECHNICAL DATA

1. (a) Antimony (Stibnite), Lead (Galena associated with argentite), Sulfur (Native, or sulfo-sulfate), Copper (carbonates, sulfides, and oxides).
   (b) Quartz (sio2), Feldspar (Orthoclase), Magnesium (oxide), Iron (pyrite and hematite), Silver (argentite).

2. NAME - MUELLER-KELLEY
   Type 1 (Cupriferous quartz) bearing Antimony, Copper, Lead, and Iron. Vein matter in oxide ore zone; just above intermediate ore zone.

   Type 2 Arenaceous (granular) Sulfo-sulfate (Native Sulfur). As precipitation solutions from sulfide sources (such as iron pyrite).

   (a) No shafts sunk.
   (b) No drifts or cross-cuts made.
   (c) 1. Cupriferous Quartz - Removed Antimony, Lead and copper bearing ore on the surface for an area approximately 15' x 15' x 3' deep for assay sampling and visual inspection. Further excavation must be made to determine depth and main ore body.
   2. Arenaceous (sulfur) - A hole approximately 20' x 8' x 8' has been dug revealing an apparently large body of native sulfur. This hole was dug approximately 200' from the Cuperferous out-croppings and is on our same claim. The chemical analysis revealed 51% sulphur on this material.
   (d) No other openings. No indications of underground water at depths excavated. No known pumping problem.

3. (a) Three miles south from Midland, California, and 1½ miles west of Cox siding on the Santa Fe Railroad.
   (b) Midland Mining District.
   (c) No township, section unknown, range unknown.
   (d) Riverside County, California

4. (a) Not operated at present.
   (b) Claim holders (Partners) filed at Riverside, California, under the name of "MUELLER - KELLEY" in book 1300, page 277, No.37347.

5. (a) Property never operated on production basis. Will operate property as soon as Federal financial assistance is received.

6. (a) and (b) Applicants and managers to be the same.
   WOODROW O. KELLEY - Metallurgical Engineer, presently employed as Foundry Superintendent of National Steel & Shipbuilding Corporation of San Diego, California.
   Past Experience.
   American-Standard-Richmond, California - Foundry Superintendent 2½ years.
   Cunningham Steel - Seattle, Washington - Assistant Foundry Superintendent, 1½ years.
   Kinney Iron Works - Los Angeles - Metallurgist 1½ years.
   Enterprise Engine & Foundry - San Francisco - Metallurgist 7 months.
   Boeing Airplane Co. - Seattle, Washington - Design and Production Process Engineer, 1 year.
   Consulting Engineer - Seattle, Washington - self-employed, 3½ years.

6. a & b Continued.

CHARLES F. MUELLER - General Plastering Contractor, Phoenix, Arizona, License No. 12929, 1951-1952, and has been actively engaged as such in Arizona and California for the past 30 years. Mr. Mueller also owns and has farmed his 160 acre ranch at Blythe, California for the past 12 years.

7. (a) Mr. Mueller discovered the Cupriferous Quartz and Arenaceous (sulfo-sulfate) signs or out-croppings while prospecting the concerned property in the spring of 1947. Samples of both materials were assayed and revealed promising prospects, but due to lack of sufficient funds to further the preliminary exploration work at that time, the exploration was discontinued.

(b) The deceased Mr. Langdon's heirs have leased the property near our N.E. corner and have done considerable development work endeavouring to discover manganese ore of a commercial value.
A very limited tonnage of manganese bearing mineral (quantity unknown) has been removed by the lessee in the development stage.

(c) Reference Question 12.(a).

12. (a) 1--Cupriferous (iron-copper-sulfur) quartz which occurs as vein matter in oxide-ore zone; just above intermediate ore zone. Three forms of copper; oxide, carbonate, and sulfide also antimony sulfide (stibnite) and lead (galena) in encouraging amounts. This material is on the surface and extends down to unknown depths.

(Approximate Non-Metallics per ton):

Calcium	1.6%	- Carbonate
Sulfur	6.8%	- Pyrites
Quartz	48. %	- Silicon Oxide
Feldspar	11. %	- Orthoclase
Magnesium	5.6%	- Oxide

(Approximate Metallics per ton):

Antimony	1.7%	- Stibnite
Lead	3.4%	- Galena - associated with argentite.
Iron	14.7%	- Pyrite, Hematite.
Silver	2.6 oz. per ton	- argentite.
Copper	7.5%	- Carbonate, sulfides and oxides.
Arsenic	.8%	- Arsenopyrite.

2--Arenaceous (granular), Sulfo-Sulfate native sulfur. As Precipitation solutions from sulfide sources. A soft, granular, or arenaceous structure and with sufficient native sulfur to ignite. This material has a loose shale over-burden approximately 2' deep at the point of discovery. The sulfur appears to become richer as the depth is increased and appears in all directions under the overburden.

(Approximate non-metallics per ton):

Sulfur	51.%	- Native or sulfo-sulfate
Quartz	35.%	- Silicates (sio2)
Feldspar	2.8%	- Orthoclase
Magnesium	11.%	- Oxide

(Approximate metallics per ton):

Iron	1.3%	- Hematite

These assays were determined by GEORGE O. HAYES, 4452 Raleigh Street, Denver, Colorado, in 1947, for C. F. MUELLER.

ROBERT O. KELLEY
836 Van Nuys Street
San Diego 9, California

12. (b) 1—Surface examination only. See enclosed sketch for location and size.
2—Not known.
(c) 1—Do not know.
2—See enclosed sketch—Approximate value of each hole-$250.00.
3—Medium gravel; loose, no stumps, few boulders of partially cemented stratums of earth.
4—Bedrock not known.
5—(a) Cupriferous - exposed; no overburden.
(b) Arenaceous - 2' loose, medium gravel overburden.
6—There has not been sufficient work to substantiate mineral reserves.

13. One and one-half miles to "Cox" siding on Santa Fe Railroad; 18 miles to Blythe, California and 3 miles to Midland, California. There is a 2 lane black top highway to Blythe and Midland. The adjoining manganese workings have a reasonably good gravel, river bottom road to "Cox" siding and the highway. This road is slightly down grade and could be extended to our property without any difficulty.

14. No known local water supply. Water is brought in to Midland daily by tank car or truck from Blythe.

15. No electric power used at present and none available. Portable equipment would be required if electricity were used.

16. No labor has been used.

17. No suitable equipment or facilities owned or on the property.

18. None.

(*b*) If deposit is other than pl[illegible]:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Do not know.	See chem. analysis See (12) a-1 a-2	Do not know.	Do not Know.	Do not know.
Indicated (probable)	" "		" "	" "	" "

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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—63792-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

NOV 13 9 14 AM '51

Not To Be Filled in by Applicant

Docket No. DMA 2 2 2 6
Metal or Mineral
Date Received 11-13-51
Amount $
Participation (Government %)

Name and address of applicant

CHARLES F. MUELLER
4572 Auburn Drive
San Diego, California

THOMAS O. KELLY
886 Van Buyo Street
San Diego 9, California

Date November 3, 1951

If you have already filed MF-100, give date filed 11-3-51, type of assistance requested Loan,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLY
(Name of company)

By C. F. Mueller
Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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—64067-2

SIMON O. KELLY
806 Van Buys Street
San Diego 9, California

1. (a) There is a section of ground approximately 1½ miles deep which we must transverse from "Cox" siding, next to our claim. The majority of this land to our knowledge, is government owned. There is a possibility that the most convenient road to our claim may pass over property which was patented by the late Mr. Langdon a number of years ago.
The Langdon heirs have leased or sold their mining rights to a party who has done considerable development work in search for commercial grades of manganese ore. (See enclosed topographical sketch for description of our real property).

(b) Claim Name - "MUSHER-KELLY".
Recording Number - 37347
Book - 1300
Page - 277
Recorded at the county court house in Riverside, California.

(c) The measurement of this claim is 1500 linear feet, in length, on the vein. The Northerly end line is 300' Northerly from the discovery monument, and the Southerly line is 300' Southerly from the discovery monument, and said end lines are parallel. The general course of the mineral is Easterly and Westerly, The width 300' on the Northerly side, and 300' on the Southerly side, measuring from the center of the said quartz lode, vein, ledge or deposit and it is more particularly described as follows: commencing 100' east of the mineral discovery in an Easterly direction from the discovery monument, 140' therefrom and the N. E. corner will be 300' due North from this point 100' east of the mineral location. The S. E. corner will be 300' south of this point 100' east of mineral discovery. The North boundary of the claim will extend 1500' to west, or towards the monument erected which is approximately 290 degrees from North in a Westerly direction from the S. E. corner. The west boundary will start from the N. W. Corner, 290 degrees from North and 1500' from the N. E. corner and will extend south approximately 20 degrees from North to the most Westerly monument, then turns East 170 degrees from North for a total width of 600'. The south boundary will run parallel as possible to the North boundary.

(1) Both areas the same.
(2) Owners -- No liens or encumbrances.

NORMAN C. ASHLEY
626 Van Buys Street
San Diego 9, California

2. (a) Antimony, Lead, Copper and Sulfur.

(b) See enclosed sketch for geological features.
The reason we expect to find commercial ore bodies are:

1. Superficial ore and mineral bodies become richer as the depth of investigation is increased.
2. There are not any known faults existing on the claim.
3. The general area has considerable undeveloped and developed minerals.
4. The assays show considerable possibilities.

There are two types mineral bearing deposits on the property within 200' from each other as shown by the enclosed topographical sketch.

NORMAN Q. KELLAY
906 Van Buys Street
San Diego 9, California

3. (a) The following work is proposed in reference to the exploration of our mineral discoveries.

1.	Survey land in question:	$ 250.00
2.	Extend present road to our property:	1,500.00
3.	Erect and furnish combination frame building to be used as watchman's shelter, tool house, office, etc.:	1,600.00
4.	Diamond drill the known mineral locations to cover to ascertain the quantity, quality, and practability of further development work. The extent of this work will be affected by the results of assays and quantity of mineral reserves located:	12,000.00
5.	Determine the practability of starting development work after a complete geological recapitulation of core tests results and exploration work, by a qualified and unbiased mining engineer:	500.00
	Total cost of project	$ 15,850.00

(b) The proposed work will start within 30 days after a Federal loan has been approved and will be completed within 6 months from this time.

WOODROW D. ESLICK
886 Van Buys Street
San Diego 9, California

4. See topography sketch enclosed.

DONALD C. BAILEY
886 Van Nuys Street
San Diego 9, California

5. No existing facilities, installations or fixtures.

NICHOLSON O. MEILLY
806 San Ysidro Street
San Diego 9, California

6. Reference question "3. (a) item 3." furnish and erect (1) combination frame 16' x 30' frame building -- $ 1,600.00.

ROBERT O. BAILEY
826 Van Nuys Street
San Diego 7, California

7. Operating equipment to be Rented:

1. Bull-dozer and operator, 10 days @ $80.00	$ 800.00
2. Diamond Drill Rig.	
Minimum of (6) 200' test holes @ approximately $7.50 per foot including labor and materials	12,000.00
3. Pick-up truck @ $100.00 per month, maximum	600.00
4. Power-shovel 10 days @ $100.00 per day.	1,000.00
Total cost of operating equipment to be rented	$ 14,400.00

Stephen O. Kelley
306 San Ysidro Street
San Diego 9, California

8. (1) Hiring Foreman & Watchman to observe and supervise preliminary excavation work and drilling -- $ 500.00 per month.

Theodore O. Hallin
836 San Diego Street
San Diego 9, California

9. (a) Materials
   1. Drill operators to furnish own materials.

(b) Supplies
   1. Five hundred to 2,000 gallons water per day trucked in during drilling operations - $ 35.00 per day.

(c) Engineering
   1. Survey of land - $ 250.00.
   2. Geological capitulation - $ 500.00.) of exploration work.)

(d) Assaying - $ 750.00.

(e) Accounting - $ 75.00. per month.

(f) Power
   1. Gasoline driven equipment furnished by Lessor - ?

(g) Utilities
   1. Reference - 9. (b).

THOMAS O. KELLY
6[illegible] Van Nuys Street
San Diego 9, California

10. (a) My partner and I feel that we can meet the 25% required on Antimony.

(b) Yes.

THOMAS O. KELLY
666 Van Nuys Street
San Diego 9, California

11. None.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA

FOR USE UNDER THE

DEFENSE PRODUCTION ACT OF 1950

NOV 13 9 14 AM '51
DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D.C.

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 2226

Date received

Charles F. Mueller
4872 Auburn Drive
San Diego, California

Woodrow O. Kelley (PARTNERS)
833 Van Buys Street
San Diego 9, California

Name and address of applicant

Date November 3, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Woodrow O. Kelley 836 Van Nuys Street San Diego 9, California	Partner	$9,000.	$3,000.			$6,000.	$4,500.
Charles F. Kheller 4972 Auburn Drive San Diego, California	Partner	$2,700.	$40,000.			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production: No Production. Exploratory only.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					None
2. Quantity of product processed (specify unit of measure and type of process)					None
3. Quantity and grade of product sold or shipped (specify units of measure)					None

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. No Production yet.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. See attached sheets.

Charles F. Mueller
4572 Auburn Drive
San Diego, California

Woodrow O. Kelley
886 Van Nuys Street
San Diego 9, California

PARTNERS

GENERAL TECHNICAL DATA

1. (a) Antimony (Stibnite), Lead (Galena associated with argentite), Sulfur (Native, or sulfo-salfate), Copper (carbonates, sulfides, and oxides).
   (b) Quartz (SiO_2), Feldspar (Orthoclase), Magnesium (oxide), Iron (pyrite and hematite), Silver (argentite).

2. MAIN - MUELLER-KELLEY
   Type 1 (Cupriferous quartz) bearing Antimony, Copper, Lead, and Iron. Vein matter in oxide ore zone; just above intermediate ore zone.

   Type 2 Arenaceous (granular) Sulfo-salfate (Native Sulfur). As precipitation solutions from sulfide sources (such as iron pyrite).

   (a) No shafts sunk.
   (b) No drifts or cross-cuts made.
   (c) 1. Cupriferous Quartz - Removed Antimony, Lead and copper bearing ore on the surface for an area approximately 15' x 15' x 3' deep for assay sampling and visual inspection. Further excavation must be made to determine depth and main ore body.
   2. Arenaceous (sulfur) - A hole approximately 20' x 8' x 8' has been dug revealing an apparently large body of native sulfur. This hole was dug approximately 200' from the Cuperferous out-croppings and is on our same claim. The chemical analysis revealed 51% sulphur on this material.
   (d) No other openings. No indications of underground water at depths excavated. No known pumping problem.

3. (a) Three miles south from Midland, California, and 1½ miles west of Cox siding on the Santa Fe Railroad.
   (b) Midland Mining District.
   (c) No township, section unknown, range unknown.
   (d) Riverside County, California

4. (a) Not operated at present.
   (b) Claim holders (Partners) filed at Riverside, California, under the name of MUELLER - KELLEY in book 1300, page 277, No.37347.

5. (a) Property never operated on production basis. Will operate property as soon as Federal financial assistance is received.

6. (a) and (b) Applicants and managers to be the same.
   WOODROW O. KELLEY - Metallurgical Engineer, presently employed as Foundry Superintendent of National Steel & Shipbuilding Corporation of San Diego, California.
   Past Experience.
   American-Standard-Richmond, California - Foundry Superintendent 2½ years.
   Cunningham Steel - Seattle, Washington - Assistant Foundry Superintendent, 1½ years.
   Kinney Iron Works - Los Angeles - Metallurgist 1½ years.
   Enterprise Engine & Foundry - San Francisco - Metallurgist 7 months.
   Boeing Airplane Co. - Seattle, Washington - Design and Production Process Engineer, 1 year.
   Consulting Engineer - Seattle, Washington - self-employed, 2½ years.

[illegible] O. [illegible]
086 Van Buys Street
San Diego 9, California

6. a & b Continued.

CHARLES F. MUELLER - General Plastering Contractor, Phoenix, Arizona, License No. 12929, 1951-1952, and has been actively engaged as such in Arizona and California for the past 20 years. Mr. Mueller also owns and has farmed his 160 acre ranch at Blythe, California for the past 12 years.

7. (a) Mr. Mueller discovered the Cupriferous Quartz and Arenaceous (sulfo-sulfate) signs or out-croppings while prospecting the concerned property in the spring of 1947. Samples of both materials were assayed and revealed promising prospects, but due to lack of sufficient funds to further the preliminary exploration work at that time, the exploration was discontinued.

(b) The deceased Mr. Langdon's heirs have leased the property near our N.E. corner and have done considerable development work endeavouring to discover manganese ore of a commercial value.
A very limited tonnage of manganese bearing mineral (quantity unknown) has been removed by the lessee in the development stage.

(c) Reference Question 12.(a).

12. (a) 1--Cupriferous (iron-copper-sulfur) quartz which occurs as vein matter in oxide-ore zone; just above intermediate ore zone. Three forms of copper; oxide, carbonate, and sulfide also antimony sulfide (stibnite) and lead (galena) in encouraging amounts. This material is on the surface and extends down to unknown depths.

(Approximate Non-Metallics per ton):

Calcium	1.6%	- Carbonate
Sulfur	6.8%	- Pyrites
Quartz	48. %	- Silicon Oxide
Feldspar	11. %	- Orthoclase
Magnesium	5.6%	- Oxide

(Approximate Metallics per ton):

Antimony	1.7%	- Stibnite
Lead	3.4%	- Galena - associated with argentite.
Iron	14.7%	- Pyrite, Hematite.
Silver	2.6 oz.	per ton - argentite.
Copper	7.5%	- Carbonate, sulfides and oxides.
Arsenic	.8%	- Arsenopyrite.

2--Arenaceous (granular), Sulfo-Sulfate native sulfur. As Precipitation solutions from sulfide sources. A soft, granular, or arenaceous structure and with sufficient native sulfur to ignite. This material has a loose shale over-burden approximately 2' deep at the point of discovery. The sulfur appears to become richer as the depth is increased and appears in all directions under the overburden.

(Approximate non-metallics per ton):

Sulfur	51.8	- Native or sulfo-sulfate
Quartz	35.8	- Silicates (sio2)
Feldspar	2.0%	- Orthoclase
Magnesium	11.8	- Oxide

(Approximate metallics per ton):

Iron	1.9%	- Hematite

These assays were determined by GEORGE O. HAYES, 4452 Raleigh Street, Denver, Colorado, in 1947, for C. F. MUELLER.

THOMAS C. KELLY
856 Van Nuys Street
San Diego 9, California

12. (b) 1—Surface examination only. See enclosed sketch for location and size.
2—Not known.
(c) 1—Do not know.
2—See enclosed sketch—Approximate value of each hole—$250.00.
3—Medium gravel; loose, no stumps, few boulders of partially cemented strata of earth.
4—Bedrock not known.
5—(a) Cupriferous - exposed; no overburden.
(b) Arenaceous - 2' loose, medium gravel overburden.
6—There has not been sufficient work to substantiate mineral reserves.

13. One and one-half miles to "Cox" siding on Santa Fe Railroad; 18 miles to Blythe, California and 3 miles to Midland, California. There is a 2 lane black top highway to Blythe and Midland. The adjoining manganese workings have a reasonably good gravel, river bottom road to "Cox" siding and the highway. This road is slightly down grade and could be extended to our property without any difficulty.

14. No known local water supply. Water is brought in to Midland daily by tank car or truck from Blythe.

15. No electric power used at present and none available. Portable equipment would be required if electricity were used.

16. No labor has been used.

17. No suitable equipment or facilities owned or on the property.

18. None.

(*b*) If deposit is other than pla

(1) Submit assay plans and/or sections showing location and size of proved (measured) and proba (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Do not know.	See chem. analysis See (12) a-1 a-2	Do not know.	Do not Know.	Do not know.
Indicated (probable)	" "		" "	" "	" "

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

MUELLER-KELLEY
(Name of company)

By Woodrow O. Kelley
(Signature of authorized official)

Nov. 5, 1951
(Date)

Partners
(Title)

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—63792-1

U.S. Gypsum
3 mi.

Midland

[A] 15'x15'x3' superficial excavation of Cupriferous Quartz

Assay

Antimony	1.7%	Stibnite
Lead	3.4%	Galena
Copper	7.5%	Carbonate, sulfides, oxides
Silver	2.6 oz per ton	Argentite
Iron	14.7%	Pyrite, hematite
Quartz	48.%	Silicon oxide
Feldspar	11.%	Orthoclase
Sulfur	6.8%	Pyrites
Magnesium	5.6%	Oxide
Calcium	1.6%	Carbonate

(B) 20'x8'x8' superficial excavation of Arenaceous (granular) Sulfa-Sulfate (Native sulfur)

Assay

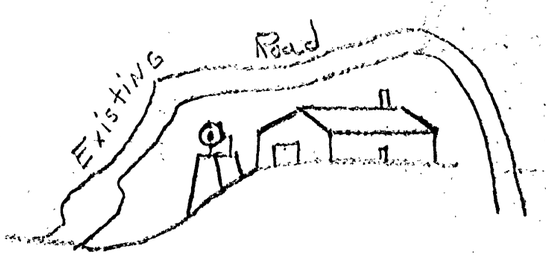
Sulfur	51%	Native
Quartz	35%	Silicates
Feldspar	2.8%	Orthoclase
Magnesium	11.2%	Oxide
Hematite	1.3%	Hematite

Approx. value of each hole $250.00

W
S N
E

Boundaries

The claim boundaries will commence 100' East from the mineral location. The N.E. corner will be 300' due North and the S.E. corner 300' due South of this point 100' East of the mineral location. The North boundary of the claim will extend 1500' to, past or towards the Monument erected which is approximately 290° from North in a westerly direction from the N.E. corner. The west boundary will start from this N.W. point 290° from North and 1500' from the N.E. Monument and will extend South 20° from North to the most westerly monument, then turn East 170° from North for the total width of 600'. The South boundary will run parrallel as possible to the North boundary



"Landon" Manganese workings

Symbols

□ Monuments

Δ Location Monument

"Cox" Siding Santa Fe Railroad — 1½ mi.

Utah Construction 2 mi.

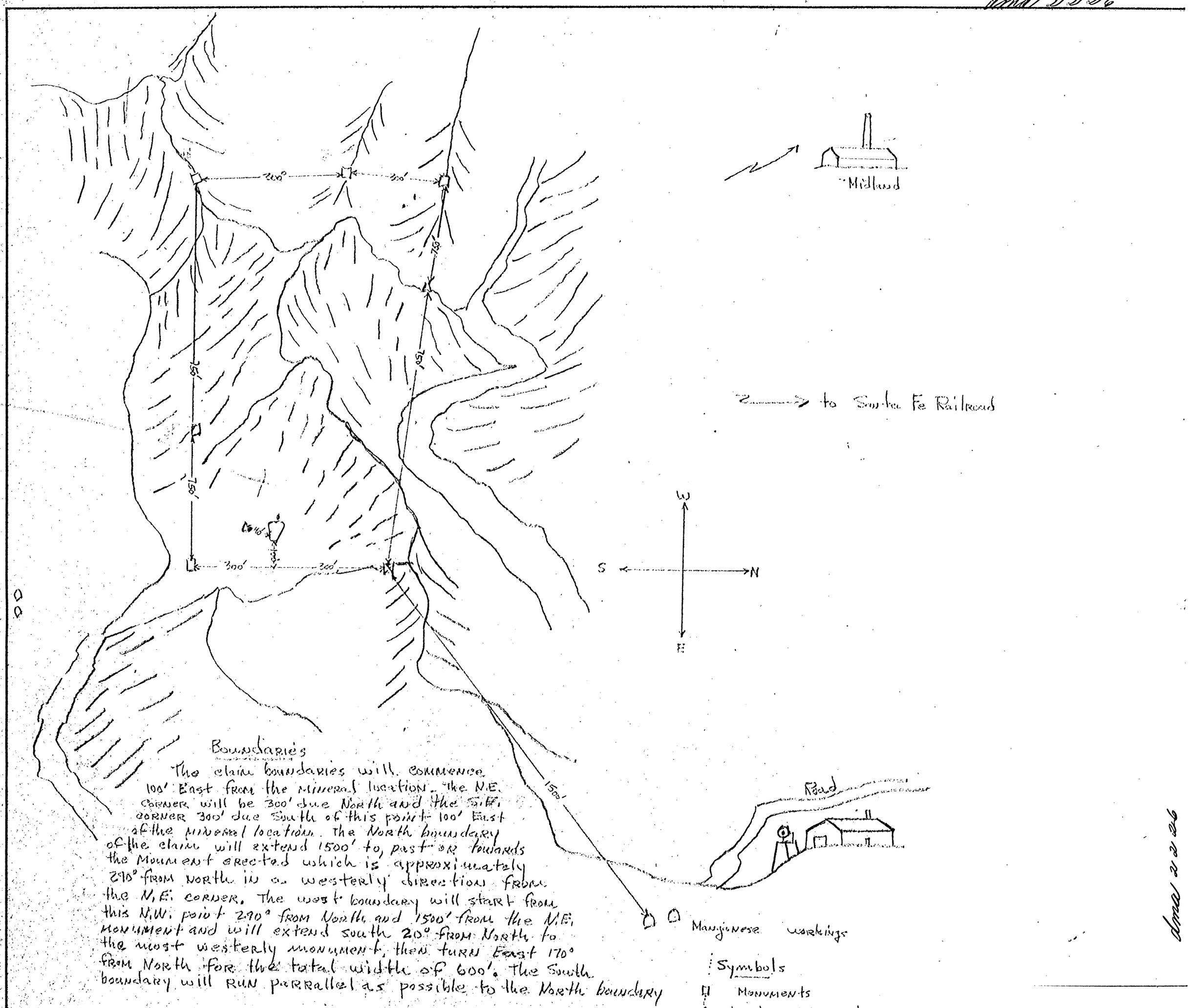
Claim name -- Mueller-Kelley
Located on Aug. 27, 1951
County - Riverside, Calif.
District - Midland
Locators - C.F. Mueller and W.O. Kelley (Partners)
Location - Approx. 1.5 miles west of "Cox" siding on the Santa Fe. Railroad.

(References)
MF-103 Questions
2. b.
2. b-4
4.

(Not to be returned)

NO.	DESCRIPTION	DATE	APP'D

REVISIONS



Boundaries

The claim boundaries will commence 100' East from the Mineral location. The N.E. corner will be 300' due North and the S.E. corner 300' due South of this point 100' East of the mineral location. The North boundary of the claim will extend 1500' to, past or towards the Monument erected which is approximately 290° from North in a westerly direction from the N.E. corner. The west boundary will start from this N.W. point 290° from North and 1500' from the N.E. monument and will extend south 20° from North to the most westerly monument, then turn East 170° from North for the total width of 600'. The South boundary will run parrallel as possible to the North boundary

Claim name -- Mueller-Kelley
Located on Aug. 27, 1951
County -- Riverside, Calif.
District -- Midland
Locators -- C.F. Muller and W.O. Kelley (Partners)
Location Approx. 2.5 Miles west of "Cox" siding on the Santa Fe Railroad.

Drawn by W.O. Kelley

Approx. value on each hole, $250.00

(Not to be Returned)