DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2031

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 LOAN

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
CODE 330

To:	~~Minor & Rare Metals~~	~~Date~~	~~9-4-51~~
To:	McKnight	Date	9-6-51
To:	~~Minor & Rare Metals~~	~~Date~~	~~9-21-51~~
To:	Adm. Mang. Div	Date	10-18-51
To:	Tom Lyon	Date	10-18-51
To:	Reports and Records	Date	OCT 22 1951
To:		Date	OCT 22 1951
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

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

OCT 22 1951

a, E, e

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Josephine Lode Mining Company
Platinum - DMA docket 2031

Under date of August 26, 1951, Mrs. Josephine Frost, Josephine Lode Mining Company, Box 718, Colorado Springs, Colorado, submitted the subject application, DMA-2031, for an exploration loan in the amount of $32,000.

Attached hereto find letter of even date addressed to applicant denying the application because of unsufficient evidence to indicate the geologic probability of making a significant discovery.

We herewith return the complete docket, comprised as follows:

(a) 4 copies of MF-103.
(b) Copy of letter from Mr. Adams to Mrs. Frost acknowledging application.
(c) Letter from Mrs. Frost dated August 21, 1951
(d) Letter from Mrs. Frost transmitting application
(e) Exhibits
(f) Letter from Mrs. Frost dated October 12, 1951.
(g) 2 copies of letter from Mr. Zadra, Bureau of Mines addressed to Mrs. Frost.

Weston Bourret
Weston Bourret, Chief
Minor and Rare Metals

Approved:
Tom Lyon
Director, Supply Division

330
FILE COPY
SURNAME:

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

Gordon
Barnett
McKnight

OCT 22 1951

A. E. C.

Mrs. Josephine Frost
The Josephine Lode Mining & Development Co.
Box 718
Colorado Springs, Colorado

Re: DMA docket 2031
Platinum

Dear Mrs. Frost:

Your application of August 26, 1951, for an exploration project in the amount of $32,000.00, has been carefully reviewed by the Minor and Rare Metals Branch of the Supply Division

As the Bureau of Mines was unable to detect platinum in the sample you had assayed we regret to advise that your application must be denied at this time because of insufficient evidence to indicate the geologic probability of making a significant discovery.

Should evidence obtained in the future be of such nature as to alter this opinion, we would gladly consider a new application

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

10-22

EGordon/mh 10-16-51
cc: Adm. Read. file
DMA docket file
Minor and Rare Metals
Lyon
Field Team, IV
McKnight, USGS
Bell, Bur. of Mines

FILE COPY
SURNAME:

Gordon McKnight

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

OCT 22 1951

A.E.C.

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Josephine Lode Mining Company
Platinum - DMA docket 2031

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Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals

N.S
R&R

Approved:
Tom Lyon

Director, Supply Division

EGordon/mh 10-16-51
Cc: Adm. Read. File
DMA docket file
Lyon
Minor and Rare Metals
Field Team IV
McKnight, USGS
Bell, Bur. of Mines

JOSEPHINE D. FROST
PRESIDENT
LOYD DALE JUSTICE
VICE PRESIDENT
MILDRED E. BERRY
SECRETARY

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 15 10 43 AM '51

JOSEPHINE LODE MINING AND DEVELOPMENT COMPANY
A COLORADO CORPORATION
COLORADO SPRINGS, COLORADO
Box 718

October 12th, 1951

United States
Department Of The Interior
Defence Minerals Administration
Washington D.C.

Re DMA Docket 2031, Colorado

Mr Weston Bourret;

Dear Sir;

In reply to your letter of September the 27th, 1951, will say that I mailed samples of ore to The Bureau of Mines Station University Of Nevada, Reno Nevada, on October the 1st, 1951, as per your request. The samples which I mailed to have been assayed previously for platinum. The assay ran from 0.33% to 0.69% of an ounce to the ton in platinum. They were never assayed for uraninum however the spectrograph showed uraninum.

We are still driving the tunnel on the Albertson claim and the formation looks very promising, the ore is pink, and extends the full width of the tunnel, which is about five feet in width before timbering.

Very Truly Yours,

THE JOSEPHINE LODE MINING AND DEVELOPMENT COMPANY

Mrs Josephine Frost
President

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 15 3 46 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

RARE AND PRECIOUS METALS EXPERIMENT STATION
Hydrometallurgical & Ore-Dressing Branch
Box D, University Station

METALLURGICAL DIVISION

RENO, NEVADA

Region III

October 12, 1951

Mrs. Josephine D. Frost, President
Josephine Lode Mining & Development Co.
P. O. Box 718
Colorado Springs, Colorado

Re D. M. A. Docket No. 2031

My dear Mrs. Frost:

Reference is made to your letter of October 1, 1951 transmitting a sample to be assayed for platinum, in accordance to advice given you by Mr. Weston Bourret of the Defense Minerals Administration.

The sample was assayed for platinum with the result: none detected. As a further check on this assay result a spectrographic examination was made with the same result. This spectrographic examination showed the presence of a trace of rhodium, one of the platinum group metals.

As the note enclosed with your sample requested a test for uranium, the sample was examined with a Geiger Counter. No radioactivity was detected, therefore, neither uranium nor thorium is present in the sample in detectable amount.

Sincerely yours,

J. B. Zadra, Chief
Hydrometallurgical & Ore-Dressing Branch

Copy to:
Weston Bourret, Chief
Minor and Rare Metals Branch
Washington 25, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
RARE AND PRECIOUS METALS EXPERIMENT STATION
Hydrometallurgical & Ore-Dressing Branch
Box D, University Station
METALLURGICAL DIVISION
RENO, NEVADA
Region III

October 12, 1951

Mrs. Josephine D. Frost, President
Josephine Lode Mining & Development Co.
P. O. Box 718
Colorado Springs, Colorado

Re D. M. A. Docket No. 2031

My dear Mrs. Frost:

Reference is made to your letter of October 1, 1951 transmitting a sample to be assayed for platinum, in accordance to advice given you by Mr. Weston Bourret of the Defense Minerals Administration.

The sample was assayed for platinum with the result: none detected. As a further check on this assay result a spectrographic examination was made with the same result. This spectrographic examination showed the presence of a trace of rhodium, one of the platinum group metals.

As the note enclosed with your sample requested a test for uranium, the sample was examined with a Geiger Counter. No radioactivity was detected, therefore, neither uranium nor thorium is present in the sample in detectable amount.

Sincerely yours,

J. B. Zadra, Chief
Hydrometallurgical & Ore-Dressing Branch

Copy to:
Weston Bourret, Chief
Minor and Rare Metals Branch
Washington 25, D. C.

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

SEP 27 1951

Mr. [illegible], President
[illegible] Mine and Development Company
[illegible]
Colorado Springs, Colorado

Re: Project 2011
[illegible], Nickel, Platinum - Colorado

Dear Mr. [illegible]:

[illegible] 21 [illegible] project [illegible] nickel and cobalt [illegible] to [illegible] Nevada, [illegible] Nevada. [illegible] in connection with Project 2011 [illegible] an exploration loan.

[illegible] station, [illegible] Maryland, [illegible] the [illegible] sent does not [illegible] for [illegible] assays. It was [illegible] that the [illegible] would not be made from [illegible] samples.

[illegible] truly,

Weston Bourret

[illegible] Chief
[illegible] and Strategic Metals Branch

WBourret/ch 9-25-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Krill
McKnight - DMS
Bureau of Mines Experiment Station
University of Nevada
Reno, Nevada
Fried Sennett

330

FILE COPY
SURNAME:

Bourret.

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

SEP 27 1951

Mrs. Josephine D. Frost, President
Josephine Lode Mining and Development Company
~~Box 713~~
Colorado Springs, Colorado

Re: DMA docket 2031
Cobalt, ~~Nickel~~, Platinum - ~~Colorado~~

Dear Mrs. Frost:

In regard to your letter of August 21 concerning the subject docket and assay for platinum please send a sample, or samples to the Bureau of Mines Experiment Station, University of Nevada, Reno, Nevada. In your covering letter to the Bureau please give your name, location of samples and a request that they be run for platinum; also clearly indicate that this is in connection with docket 2031 for an exploration loan.

The Bureau of Mines Station, College Park, Maryland, where your previous samples were sent does not have the facilities for making platinum assays. It was for this reason that platinum determinations could not be made from previous samples.

Yours very truly,

Weston Bourret

9-27.

Weston Bourret, Chief
Minor and Rare Metals Branch

WBourret/ch 9-26-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Bell
McKnight - USGS
Bureau of Mines Experiment Station
University of Nevada
Reno, Nevada
Field Team VI

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

September 21, 1951

Memorandum

Samples in B of M, Rm 5.

To: Mr. Weston Bourret

From: Mr. Edwin T. McKnight

Subject: DMA 2031, application of Josephine Lode Mining and Development Company for exploration loan of $32,000 for platinum, cobalt, nickel, and uranium.

This is a poorly organized, incoherent and very unconvincing application. If the applicant has any concept of what she has on this property, she is unable to describe it even with maps, so that a clear picture cannot be obtained by the reader. The adjacent properties have been of value only for gold and silver.

The only information on the alleged platinum occurrence is that samples of "black ore" in shaft No. 2 assayed 0.301, 0.481 and 0.695 oz. platinum per ton of ore. These samples also contained silver, mercury, and tellurium, according to the assays, which were made by Harrison Engineering Company of Denver. But another sample from here gave only a trace of platinum by spectroscope.

The case for nickel and cobalt is based chiefly on spectrographic analyses of several samples from various places in the holdings, which showed mostly traces of these metals. However, a grab sample of "green ore" from the dump of shaft No. 3 was assayed by chemical methods and is reported to have run 0.24% Ni and 0.06% Co. Other samples from this same dump are reported (by another assayer) to contain 0.40% and 0.54% of cobalt, but only a trace of nickel.

The case for uranium is practically non-existent, consisting of a reported trace (by spectroscopic methods) in samples from the dump of shaft No. 2.

The proposed 1200 feet of drifting appears to be aimless, but may be related to geologic features that are not described. The drift will attain a depth of 250 ft. at the No. 3 shaft and applicant proposes to sink further on the ore here if it is not commercial at the tunnel level, on the apparent theory that mineral values are bound to increase with depth.

The country rock on this claim is pre-Cambrian granite, schist, and gneiss. This is apparently intersected by numerous igneous dikes, and also by quartz veins, showing limonite stain, which strike in several directions. It is not evident whether the samples containing the reported Ni, Co, and Pt, came from the quartz veins or from other types of occurrence.

The only claim for strategic metals on this property lies in the reliability of the analyses, and the evidence presented is very unconvincing. I understand from Mr. Gordon that some Bureau of Mines' evidence not present with this docket material indicates that the property has no value for cobalt and nickel. Rather than send a field team to collect a sample for the alleged platinum, I would suggest that a sample of the platinum ore be obtained from the applicant so that it can be tested for platinum.

Edwin T. McKnight

Edwin T. McKnight
Geologist

September 4, 1951

Miss Josephine Frost
Josephine Lode Mining &
Development Company
Box 718- Colorado Springs, Colorado

Subject: DMA-2031
Re: Exploration Loan
Josephine, Albertson and
Mideloy Mines

This will acknowledge receipt of your application dated August 20, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2031 and referred to the Minor and Rare Metals Branch.

Kindly refer to DMA-2031 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2031

Date received 9-3-51

Participation

Josephine Lode Mining and
Development Company
Box 718
Colorado Springs Colorado

Name and address of applicant

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 31 2 PM '51

Date August 26th, 1951

FILL IN THIS BLOCK

Date of application August 26th, 1951 Estimated cost $32,000.00 (with increased labor costs)

Mineral or metal Cobalt, nickle, Platinum, uranium Percentage of Government participation 90%

Location of mine Chaffee County, Colorado, 10 miles North Buena Vista Colorado.

Date of filing MF-100 DMA Docket Number, if available 2031 ~~1105X~~

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation

*2. If a partnership, state names and addresses of partners. No

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See separate sheet

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See separate sheet

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. owner

7. If lessee, attach a copy of the lease and state if it is in good standing. no

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See separate sheet

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $3,200.00. I do not know how much the goverment will pay for these minerals.

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*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. See separate sheet

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

NOTE.—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 (*b*) 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. Same

*11. State the present and former names of the property, if any. Josephine, Albertson, and Mideloy

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. See separate sheet

*13. State source and quantity of water available for operations and its sufficiency at all seasons. See exhibit no. 3 of water filing, see separate sheet
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See separate sheet

15. State in detail how the ore could be shipped and how and where milled. See separate sheet

*16. History: See separate sheet

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production: Not in production, in development

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) See separate sheet

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
See separate sheet

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See separate sheet

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. See separate sheet

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.
See separate sheet

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. See separate sheet

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.
See separate sheet

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.

Josephine Lode Mining and Development Company By Mrs. Josephine D. Faust
(Name of company) (Signature of authorized official)

August 26th, 1951 President
(Date) (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

QUESTION NO. 3- If a corporation, state names and addresses of officers, directors, and five largest stockholders.

Answer-

OFFICERS NAMES ADDRESSES

President Josephine D. Frost, 1232 No. Nevada Ave. Colorado Springs Colorado.
Vice-President , position vacated by death of Sgt. Loyd Dale Justice, August 7th, 1951
Sec. Treasurer Delma May Justice, 1232 No. Nevada Ave. Colorado Springs Colorado.
Ass. Sec. Treasurer, B.J. Hahne, Buena Vista Colorado

DIRECTORS NAMES ADDRESSES

JOSEPHINE D. FROST, 1232 No. Nevada Ave. Colorado Springs Colorado
DELMA MAY JUSTICE , 1232 No. Nevada Ave. Colorado Springs Colorado
Vacancy , made by the death of Sgt. Loyd Dale Justice,

Five largest Stockholders-	Addresses
Josephine D. Frost	1232 No. Nevada Ave. Colorado Springs Colorado
Dr. S.F. Sutton	223 East Berry St. Fort Wayne Indiana.
B. J. Hahne, Buena Vista Colorado	
Edgar Mulzer, Tell City , Indiana	
Roland Mulzer, Chrisney Indiana	

QUESTION NO. 4 - Describe the mining and general business experience of (a) the Applicant and (b) the person or persons who will manage the project.

Answer- The Josephine Lode Mining and Development Company is the applicant; this company under the management of the President and officers and directors have discovered and developed the property for the past 14 years. A capable mining man will be hired to supervise the work in the tunnel or shaft . Mr B.J. Hahne will be hired as supervisor as he has had 10 years experience as a mine foreman on our property.

QUESTION NO. 6- If owner, state what claims, liens, or encumbrances, if any, are against the property.

Answer- There are no. liens or judgements against the company. The Company owes Mrs Josephine D. Frost ten thousand dollars ($10,000.00) , for monies advanced for expenses for the past 14 years. This money is to be paid to her after the property is in production. The company owes B. J. Hahne six hundred and seventy two dollars $(672.00) for labor, This is to be paid after the property is in production.

QUESTION NO. 8- Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

Answer-

Financial Statement , since January 1st, 1951. to August 1st, 1951.

	Liabilities	Assets	Profit	Loss
Jan.	$ 173.15	47 mining claims	none	$133.33 in the past
Feb.	62.26	1 three room log cabin, furnished.		7 months.
Mar.	67.67	1 gasoline engine		
April	76.63	1 50 ton ball mill		
May	83.41	2 water tanks		
June	103.25	1 wilfrey con. table		
July	95.02	1 gas driven pump		
total	661.39	50 feet 1 in. pipe		
labor	672.00	Not paid but owed to B.J. Hahne.		
total	$ 1333.39			

QUESTION NO. 10-

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.

Answer- Albertson lode, location filed in book no. 199 page 598 of the records of Chaffee county Colorado,

Beginning at corner No. 1 Albertson Lode, identical with corner of location on line 1-4 of the Josephine Lode of the survey, from which corner of Sections 26,27,34 and 35, Township 12 South, Range 79 West of the 6th, Principal Meridian bears North 24° 38' 40" West 3,159.3 feet distant

thence South 878.75 feet to corner No.2;

thence South 42° East 1500 feet to corner No. 3;

thence North 448.34 feet to a point whence the discovery point bears North 42° West 1,331 feet distant

North 878.75 feet to Corner No. 4

thence North 42° West 1500 feet to corner No. 1, the place of beginning.

Gross area of the Albertson Lode 20.248 acres,

Excluding that part of the Albertson Lode which lies in the SE$\frac{1}{4}$ of the SW$\frac{1}{4}$ of Section 35, Township 12 South, Range 79, West of the 6th, principal Meridian, a total of 8.46 acres more or less, leaving a total of 11.788 acres in the Albertson Lode.

JOSEPHINE LODE, location filed in book no. 199, page no. 590 of the records of Chaffee County Colorado.

Beginning at corner No. 1, Josephine Lode, whence the corner of Sections 26, 27, 34 and 35, Township 12 South, Range 79 West, bears North 23° 12' 15" West 2924.85 feet distant

thence North 48° East 600 feet to corner No. 2;

thence South 42° East 1500 feet to corner No. 3;

thence South 48° West 300 feet to a point whence the discovery point bears North 42° West 550 feet distant

600 feet to corner No. 4;

thence North 42° West 1500 feet to the place of beginning

Excluding conflict with patented homestead Entry no 254.

Total area of the Josephine Lode 20.661 acres, less the conflict, leaving a total acreage of 20.027 acres.

Both claims are marked with substantial granite stones.

Adjoining claims are the Albertson No.1 , Mideloy and David No.1 lodes, the Josephine No.1 and Josephine No. 2 cover practically the same land except laid out on different veins.

Answer-(B) Same description.

QUESTION NO. 12-

STATE IN DETAIL , THE LOCATION OF THE PROPERTY WIth reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

Answer-

The property is located about 10 miles north of Buena Vista Colorado, the D and R,G railroad is about $\frac{1}{4}$ miles from the property, (See map exhibit No. 1). Highway No.24 is about $\frac{1}{4}$ mile , See map Exhibit No. 1, this is the main highway across the United States and is always kept open. The roads across the property are in use but some repair work must be done before they are used much. The last rain washed out some of the road but the repair is a minor expense.

QUESTION NO. 13-

State source and quantity of water available for operations and its sufficiency at all seasons.

State amount of power to be used, rate per hour or other cost, and source.

Answer- For source of water see water filing exhibit No. 3. . We are also close to the Arkansas river, see map exhibit No. 1.

We have filed on our own water, henceforth no cost for water.

QUESTION NO. 14- Describe any existing usable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

Answer. No buildings on the property, but the company owns two structures on the Ruth and the Ruth No. 2 claim which will be used for housing. We own one gasoline engine which can be used.

QUESTION NO. 15- State in detail how the ore could be shipped and how and where milled.

Answer-

The ore will have to be milled on the property at the present time. I do not know of a mill or smelter at the present time that handles custom ore that conpains the minerals found to be in these ores.

QUESTION NO. 16- HISTORY-

(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(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.

Answer-

(a) The assay map enclosed as exhibit No. 2, describes previous exploration and development on the Albertson and Josephine claims. Our operations are still in progress on the Albertson and Josephine claims shown on assay map as No. 3 tunnel on the Albertson claim.

(b) I do not know of any history of adjoining property; nor the production as to the minerals which are found in our ore, gold was shipped from the ore of the property adjoining us on the south. At that time we were not looking for any other minerals or metals. You will find on the enclosed report from the past operations on the Bismarck mine which was located on the same property os the Josephine claim is now located. Location is shown on map exhibit No. 1 for the bismarck shaft.

QUESTION NO. 18- Ore or mineral reserves:(if property is or has been operating)

(a) Describe theoore or mineralsdeposits briefly.

(b) Submit available maps and assay data.

(c) Give estimated tonnage and grade of each class of ore reserves.

Answer-

(a) Cobalt, nickle deposit shown on assay map exhibit No.2 (shaft No.3 on Josephine claim. Assay cobalt 0.51%, and 0.68%. See exhibit no. 7, ore for this exhibit taken from the dumps by the shaft in exhibit no. 2 Shaft No. 3 on the Josephine Claim.

(b) Maps and assay exhibits Nos. 1,2,3,4,5,6,7,8, and 9.

(c) Possibly 100 tons on dump shown on assay map exhibit No. 2(shaft no. 3 on the Josephine Claim. An unestimated amount of ore is on all the dumps at the various shafts and tunnels showing on the enclosed exhibits.

QUESTION NO. 19- State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

Answer-

The company has been adding claims since its incorporation in 1937. It started with the three claims, namely, Josephine, Mideloy and David. It has added 44 more claims since that date. We have traced the Quartzite dyke and laid out 6 claims, 1500 feet in length on it. It starts on the Josephine claim in the location of shaft No. 2 exhibit no. 2 on the Josephine claim. This Quartzite dyke runs East some north and intersects the vein in the shaft No.2 Josephine on exhibit No. 2 The vein intersected is a vein of black ore parallell with a green schist and white and grey pororphy on each side , see exhibit No. 4. This vein of black ore runs North 42° West. This black ore assays in platinum , see exhibits nos. 5 and 8, (class B. sample No.2 of exhibit no.8).

The proposed work shown on assay map exhibit No.2 is explained as follows, from the surface showings we should reach the green nickle ore in sbout 150 feet from where we are at the present time in the tunnel . We have small shafts on the surface proving this statement and the showings in the wash (this wash is shown on the assay map exhibit no. 2 on the Josephine and Albertson claim.)

We intend to drift north on this deposit and reach the ore which is in the shaft No. 3 on assay map , on the Josephine claim , at a depth of 250 feet. We have sunk a shaft 80 feet at this place, and the green ore which was in bottom, and the west side, assayed $4.10 in nickle and cobalt. The cross vein assayed 0.51% and 0.68% in cobalt see exhibit no. 7.(see exhibit no. 2 , sample no. 10 on the Josephine claim

We expect richer ore with depth as the values have been increasing with depth. We feel that this property should be looked into as the formation indicates a large deposit of nickle, cobalt, platinum and uranium ores.(for uranium see class B of exhibit No.8..

We are asking or allowing $30,000.00 for the project as the cost of labor seems to be rising.

QUESTION NO.20- For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

Answer- Platinum, cobalt, nickle and possibly uraninum ore in the form of pitch blende

QUESTION NO. 21- describe briefly, but concisely, the proposed work and the estimated time required to complete it.

Answer- We propose to drift about 1200 feet on the Albertson and Josephine claims, see pencil outline on assay map exhibit No.2 marked (proposed work). After reaching the ore bodies in the tunnel,sink a shaft on the ore for more depth if commercial ore has not been reached by the depth obtained in the tunnel. It is necessary to drive this tunnel to find the different ore bodies, that cannot be found on surface. If everything works as per schedule this work should not take more than 18 months. The property can be worked the year around.

QUESTION NO.22- Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists,and other pertinent data.

Answer- The formation on the Josephine claim See exhibit No.6, under heading Geology page No.2 of the report of Clayton Kissell, is over 200 feet in width. The samples on exhibit No.7, a report of spectographic analyses, and a chemical determination, made by the Bohn Aluminum And Brass Corporation of Deteroit Michigan. Also samples on assay map (see exhibit No.2 and 9) were taken from this deposit. The samples shown on exhibit No.7 were taken by Mrs. Josephine Frost; the samples on the assay map Exhibit No.2 were taken by Art Crosley, U.S.Min,Surveyor. This formation is designated on assay map as shaft No.3 on the Josephine Claim.

We have already uncovered ore assaying in platinum,see exhibits Nos.5 and 8. These samples were taken from shaft No. 2 on the assay map exhibit No.2, on the Josephine claim.

From the development work that has been performed on the property, showing the values in nickle and cobalt, we feel that with depth we should uncover a large body of commercial ore

For maps and assays see exhibits Nos. 1,2,3,4,5,6,7,8, and 9.

QUESTION NO.23- Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(a) Labor, by numbers and classes (miners,muckers,millman, etc.) with wages of each.

(b) Supervisors,by numbers and positions,with salaries of each.

(c) Cost of necessary repairs to existing facilities,structures, and buildings.

(d) Cost of necessary installation or construction of additional facilities,structures, and buildings.

(e) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at the cost of $50.00 or more each.

(f) Cost of rental for equipment which the operator proposes to rent.

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(h) Cost of materials and supplies, including items of equipment costing less than $50.00 each.

(i) Cost of power,water,utilities,and any other items not provided above.

ANSWER	Per month	Total, for 18 months	
(a) Bookkeeper one	$50.00	$900.00	
Machine man	240.00, $1.25 per hour	4320.00	
Supervisor one	250.00	4500.00	
Two laborers or muckers	336.00 $0.85 per hour	6048.00	
One timber man	192.00 $1.00 per hour	3456.00	
			$19,224.00
(b) one supervisor	$250.00	listed above	
(c) None			
(d) installing one compressor		$ 200.00	200.00
Constructing one compressor house and machine house		1500.00	1500.00
(e) 3000 ft. rail, 2 cars,		300.00	300.00
air line and pipe		600.00	600.00
receiver		400.00	400.00
Atlas deisel rock drill		500.00	500.00
New compressor		3900.00	3900.00
	Total-		$7400.00
Used compressor (if available)		$ 2300.00	
Total with used compressor,			$5800.00

QUESTION NO. 23, CONT.

Answer

(f) We have contacted a rental agency in Denver, name of Hardrock Sinclair, and they do not have any equipment available until after the first of 1952.

(g) None

(h) Dynamite, blasting caps. fuse, timber, gasoline for compressor,
total per month $169.82 18 months, $ 3056.76

(i) We will use gasoline driven engines at the present time, we have filed on own water, see exhibit No.3

The total of these items, with new compressor, $29,680.76
with used compressor, 28,080.76

QUESTION- Furnish a time schedule of the project, stated in terms of months after the project is approved, showing progress expected to be accomplished and the money expected to be spent.

Answer-

We expect to drift from 3 to 4 feet per day, depending on the hardness of the rock.

Average $3\frac{1}{2}$ feet per day equals, per month, 84 feet
for a period of 18 months, 1312 feet

Monies to be spent per month, labor, per month,		$ 336.00
timber man,	" "	192.00
Supervisor	" "	250.00
Part time, bookkeeper	" "	50.00
Machine man	" "	240.00
Mining supplies and timber, per month,		169.82
Money to be spent, total per month,		1187.82

The total amount we expect to spend for the project, with new compressor, $29,680.76
With used compressor, 28,080.76

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA A 2031

Date received 9-3-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 31 1 53 PM 1951

Name and address of applicant:

Josephine Lode Mining and
Development Company,
Box 718
Colorado Springs Colorado.

Date August 26th, 1951

FILL IN THIS BLOCK

Date of application August 26th, 1951

Estimated cost $32,000.00 (with increased labor costs)

Mineral or metal Cobalt, nickle, platinum, uranium

Percentage of Government participation 90%

Location of mine Chaffee county Colorado, 10 miles North, Buena Vista Colorado.

Date of filing MF-100

DMA Docket Number, if available ~~1105~~ 2031

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation

*2. If a partnership, state names and addresses of partners. no

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See separate sheet

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See separate sheet

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. See separate sheet

7. If lessee, attach a copy of the lease and state if it is in good standing. No.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See separate sheet

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $3,200.00. I do not know the amount the goverment will pay for these minerals.

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*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. See separate sheet

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

NOTE.—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 (*b*) 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. same

*11. State the present and former names of the property, if any. Josephine., Albertson, and Mideloy.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. See separate sheet

*13. State source and quantity of water available for operations and its sufficiency at all seasons. See exhibit No.3 of State amount of power to be used, rate per hour or other cost, and source. water filing, see separate sheet

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. see separate sheet

15. State in detail how the ore could be shipped and how and where milled. See separate sheet

*16. History: See separate sheet

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production: Not in production, in development

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) See separate sheet

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See separate sheet

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See separate shee

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. See separate sheet

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See separate sheet

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. See separate sheet

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. See separate sheet

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.

Josephine Lode Mining and Development Company
(Name of company)

By Mrs Josephine D. Frost
(Signature of authorized official)

August 26th, 1951
(Date)

President
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

QUESTION NO. 3- If a corporation, state names and addresses of officers, directors, and five largest stockholders.

Answer-

OFFICERS NAMES ADDRESSES

President Josephine D. Frost, 1232 No. Nevada Ave. Colorado Springs Colorado.
Vice-President , position vacated by death of Sgt. Loyd Dale Justice, August 7th, 1951
Sec. Treasurer Delma May Justice, 1232 No. Nevada Ave. Colorado Springs Colorado.
Ass. Sec. Treasurer, B.J. Hahne, Buena Vista Colorado

DIRECTORS NAMES ADDRESSES

JOSEPHINE D. FROST, 1232 No. Nevada Ave. Colorado Springs Colorado
DELMA MAY JUSTICE 1232 No. Nevada Ave. Colorado Springs Colorado
Vacancy , made by the death of Sgt. Loyd Dale Justice,

Five largest Stockholders- Addresses
Josephine D. Frost 1232 No. Nevada Ave. Colorado Springs Colorado
Dr. S.F. Sutton 228 East Berry St. Fort Wayne Indiana.
B. J. Hahne, Buena Vista Colorado
Edgar Mulzer, Tell City , Indiana
Roland Mulzer, Chrisney Indiana

QUESTION NO. 4 - Describe the mining and general business experience of (a) the Applicant and (b) the person or persons who will manage the project.

Answer- The Josephine Lode Mining and Development Company is the applicant; this company under the management of the President and officers and directors have discovered and developed the property for the past 14 years. A capable mining man will be hired to supervise the work in the tunnel or shaft . Mr B.J. Hahne will hired as supervisor as he has had 10 years experience as a mine foreman on our property.

QUESTION NO. 6- If owner, state what claims, liens, or ensumbrances, if any, are against the property.

Answer- There are no. liens or judgements against the company. The Company owes Mrs Josephine D. Frost ten thousand dollars ($10,000.00) , for monies advanced for expenses for the past 14 years. This money is to be paid to her after the property is in production. The company owes B. J. Hahne six hundred and seventy two dollars $(672.00) for labor, This is to be paid after the property is in production.

QUESTION NO. 8- Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

Answer-

Financial Statement , since January 1st, 1951. to August 1st, 1951.

	Liabilities	Assets	Profit	Loss
Jan.	$ 173.15	47 mining claims	none	$133.53 in the past
Feb.	62.26	1 three room log cabin, furnished.		7 months.
Mar.	67.67	1 gasoline engine		
April	76.83	1 50 ton ball mill		
May	83.41	2 water tanks		
June	103.25	1 wilfrey con. table		
July	95.02	1 gas driven pump		
total	661.39	50 feet 1 in. pipe		
labor	672.00	Not paid but owed to B.J. Hahne.		
total	$ 1333.39			

QUESTION NO. 10-

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.

Answer- Albertson lode, location filed in book no. 199 page 598 of the records of Chaffee county Colorado,

Beginning at corner No. 1 Albertson Lode, identical with corner of location on line 1-4 of the Josephine Lode of the survey, from which corner of Sections 26,27,34 and 35, Township 12 South, Range 79 West of the 6th, Principal Meridian bears North 24° 38' 40" West 3,159.3 feet distant

thence South 878.75 feet to corner No.2;

thence South 42° East 1500 feet to corner No. 3;

thence North 448.34 feet to a point whence the discovery point bears North 42° West 1,331 feet distant

North 878.75 feet to Corner No. 4

thence North 42° West 1500 feet to corner No. 1, the place of beginning.

Gross area of the Albertson Lode 20.248 acres,

Excluding that part of the Albertson Lode which lies in the SE¼ of the SW¼ of Section 35, Township 12 South, Range 79, West of the 6th, principal Meridian, a total of 8.46 acres more or less, leaving a total of 11.788 acres in the Albertson Lode.

JOSEPHINE LODE, location filed in book no. 199, page no. 590 of the records of Chaffee County Colorado.

Beginning at corner No. 1, Josephine Lode, whence the corner of Sections 26, 27, 34 and 35, Township 12 South, Range 79 West, bears North 23° 12' 15" West 2924.85 feet distant

thence North 48° East 600 feet to corner No. 2;

thence South 42° East 1500 feet to corner No. 3;

thence South 48° West 300 feet to a point whence the discovery point bears North 42° West 550 feet distant

600 feet to corner No. 4;

thence North 42° West 1500 feet to the place of beginning

Excluding conflict with patented homestead Entry no 254.

Total area of the Josephine Lode 20.661 acres, less the conflict, leaving a total acreage of 20.027 acres.

Both claims are marked with substantial granite stones.

Adjoining claims are the Albertson No.1 , Midelcy and David No.1 lodes, the Josephine No.1 and Josephine No. 2 cover practically the same land except laid out on different veins.

Answer-(B) Same description.

QUESTION NO. 12-

STATE IN DETAIL , THE LOCATION OF THE PROPERTY With reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

Answer-

The property is located about 10 miles north of Buena Vista Colorado, the D and R,G railroad is about ¼ miles from the property,(See map exhibit No. 1). Highway No.24 is about ¼ mile , See map Exhibit No. 1, this is the main highway across the United States and is always kept open. The roads across the property are in use but some repair work must be done before they are used much. The last rain washed out some of the road but the repair is a minor expense.

QUESTION NO. 13-

State source and quantity of water available for operations and its sufficiency at all seasons.

State amount of power to be used, rate per hour or ther cost, and source.

Answer- For source of water see water filing exhibit No. 3. . We are also close to the Arkansas river, see map exhibit No. 1.

We have filed on our own water, henceforth no cost for water.

QUESTION NO. 14- Describe any existing usable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

Answer. No buildings on the property, but the company owns two structures on the Ruth and the Ruth No. 2 claim which will be used for housing. We own one gasoline engine which can be used.

QUESTION NO. 15- State in detail how the ore could be shipped and how and where milled.

Answer-

The ore will have to be milled on the property at the present time. I do not know of a mill or smelter at the present time that handles custom ore that contains the minerals found to be in these ores.

QUESTION NO. 16- HISTORY-

(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(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.

Answer-

(a) The assay map enclosed as exhibit No. 2, describes previous exploration and development on the Albertson and Josephine claims. Our operations are still in progress on the Albertson and Josephine claims shown on assay map as No. 3 tunnel on the Albertson claim.

(b) I do not know of any history of adjoining property; nor the production as to the minerals which are found in our ore, gold was shipped from the ore of the property adjoining us on the south. At that time we were not looking for any other minerals or metals. You will find on the enclosed report from the past operations on the Bismarck mine which was located on the same property as the Josephine claim is now located. Location is shown on map exhibit No. 1 for the bismarck shaft.

QUESTION NO. 18- Ore or mineral reserves:(if property is or has been operating)

(a) Describe theore or mineraldeposits briefly.

(b) Submit available maps and assay data.

(c) Give estimated tonnage and grade of each class of ore reserves.

Answer-

(a) Cobalt, nickle deposit shown on assay map exhibit No.2 (shaft No.3 on Josephine claim. Assay cobalt 0.51%, and 0.68%. See exhibit no. 7, ore for this exhibit taken from the dumps by the shaft in exhibit no. 2 Shaft No. 3 on the Josephine Claim.

(b) Maps and assay exhibits Nos. 1,2,3,4,5,6,7,8,and 9..

(c) possibly 100 tons on dump shown on assay map exhibit No. 2(shaft no. 3 on the Josephine Claim. An unestimated amount of ore is on all the dumps at the various shafts and tunnels showing on the enclosed exhibits.

QUESTION NO. 19- State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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The company has been adding claims since its incorporation in 1937. It started with the three claims, namely, Josephine, Rideloy and David. It has added 44 more claims since that date. We have traced the Quartzite dyke and laid out 6 claims, 1500 feet in length on it. It starts on the Josephine claim in the location of shaft No. 2 exhibit no. 2 on the Josephine claim. This Quartzite dyke runs East some north and intersects the vein in the shaft No.2 Josephine on exhibit No.2. The vein intersected is a vein of black ore parallel with a green schist and white and grey porphyry on each side , see exhibit No. 4. This vein of black ore runs North 42° West. This black ore assays in platinum , see exhibits nos. 5 and 8, (class B. sample No.2 of exhibit no.8).

The proposed work shown on assay map exhibit No.2 is explained as follows, from the surface showings we should reach the green nickle ore in about 150 feet from where we are at the present time in the tunnel . We have small shafts on the surface proving this statement and the showings in the wash (this wash is shown on the assay map exhibit no. 2 on the Josephine and Albertson claim.)

We intend to drift north on this deposit and reach the ore which is in the shaft No. 3 on assay map , on the Josephine claim , at a depth of 250 feet. We have sunk a shaft 30 feet at this place, and the green ore which was in bottom , and the west side, assayed $4.10 in nickle and cobalt. The cross vein assayed 0.51% and 0.68% in cobalt see exhibit no. 7.(see exhibit no. 2 , sample no. 10 on the Josephine claim

We expect richer ore with depth as the values have been increasing with depth. We feel that this property should be looked into as the formation indicates a large deposit of nickle, cobalt, platinum and uranium ores.(for uranium see class B of exhibit No.8..

We are asking or allowing $30,000.00 for the project as the cost of labor seems to be rising.

QUESTION NO. 20- For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

Answer- Platinum, cobalt, nickle and possibly uranium ore in the form of pitch blende

QUESTION NO. 21- Describe briefly , but concisely, the proposed work and the estimated time required to complete it.

Answer- We propose to drift about 1200 feet on the Albertson and Josephine claims, see pencil outline on assay map exhibit no. 2 marked (proposed work).After reaching the o orebodies in the tunnel, sink a shaft on the ore for more depth if commercial ore has not been reachedby the depth obtained in the tunnel. It is necessary to drive this tunnel to find the different ore bodies, that cannot be found on surface. If everything works as per schedule this work should not take more than 18 months. The property can be worked the year around.

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Answer- The formation on the Josephine claim See exhibit No. 6, under heading Geology page no. 2 of the report of Clayton Kissell, is over 200 feet in width. The samples on exhibit no. 7,a repertof spectographic analysen, and a chemical determination, made by the Bohn Aluminum And Brass Corporation of Detroit Michigan. also samples on assay map (see exhibit no. 2 and 8) were taken from this deposit. The samples shown on exhibit no. 7 were taken by Mrs Josephine Frost; the samples on the assay map Exhibit no2 were taken by Art Crosley, U.S. Min. surveyor. This formation is designated on assay map as shaft No. 8 on the Josephine Claim.

We have already uncovered ore assaying in platinum see exhibits nos. 5 and 8. These samples were taken from shaft no. 2 on the assay map exhibit no. 2, on the Josephine claim.

From the development work that has been performed on the property, showing the values in nickle and cobalt, we feel that with depth we should uncover a large body of commercial ore

For maps and assays see exhibits nos. 1,2,3,4,5,6,7,8,and8.

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(a) Labor, by numbers and classes(miners, muckers, millman, etc.) with wages of each.
(b) Supervisors, by numbers and positions , with salaries of each.
(c) Cost of necessary repairs to existing facilities, structures, and buildings.
(d) Cost of necessary installation or construction of additional facilities, structures, and buildings.
(e) Cost of items of equipment , not now owned by the applicant which must be purchased for operations at the cost of $50.00 or more each.
(f) Cost of rental for equipment which the operator proposes to rent.
(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
(h) Cost of materials and supplies , including items of equipment costing less than $50.00 each.
(i) Cost of power, water, utilities, and any other items not provided above.

ANSWER

		Per month		total , for 18 months
(a) Bookkeeper	one	$50.00		$800.00
Machine man		240.00	$1.25 per hour	4320.00
Superviser	one	250.00		4500.00
two laborers or muckers		[illegible]	0.85 per hour	[illegible]
one timber man		192.00	$1.00 per hour	3456.00
			total	$10,[illegible]

(b) one superviser $ 250.00 listed above
(c) none

(d) installing one compressor	200.00	200.00
Constructing one compressor house and machine house	1500.00	$ 1700.00
(e) 3000 ft. rail, 2 cars,	300.00	300.00
air line and pipe	600.00	600.00
receiver	400.00	400.00
atlas deisel rock drill	500.00	[illegible]
New compressor	$3900.00	[illegible]
	total	$[illegible]
used compressor (if available)	$ 2300.00	
	total with used compressor	$5800.00

QUESTION NO. 23, CONT.

Answer

(f) We have contacted a rental agency in Denver, name of Hardrock Sinclair, and they do not have any equipment available until after the first of 1952.

(g) None

(h) Dynamite, blasting caps. fuse, timber, gasoline for compressor, total per month $169.82 18 months, $ 3056.76

(i) We will use gasoline driven engines at the present time, we have filed on own water, see exhibit No.3

The total of these items, with new compressor,	$29,680.76
with used compressor,	28,080.76

QUESTION- Furnish a time schedule of the project, stated in terms of months after the project is approved, showing progress expected to be accomplished and the money expected to be spent.

Answer-

We expect to drift from 3 to 4 feet per day, depending on the hardness of the rock.

Average 3½ feet per day equals, per month,	84 feet
for a period of 18 months,	1312 feet

Monies to be spent per month, labor, per month,	$ 336.00
timber man, " "	192.00
Supervisor " "	250.00
Part time, bookkeeper " "	50.00
Machine man " "	240.00
Mining supplies and timber, per month,	169.82
Money to be spent, total per month,	1187.82

The total amount we expect to spend for the project, with new compressor,	$29,680.76
With used compressor,	28,080.76

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2031

Date received 9-3-51

Participation

DEFENSE MINERALS ADMINISTRATION, WASHINGTON, D.C. AUG 31 1 53 PM

Josephine Lode Mining and
Development Company,
Box 718
Colorado Springs Colorado.

Name and address of applicant

Date August 26th, 1951

FILL IN THIS BLOCK

Date of application August 26th, 1951 Estimated cost $32,000.00 (with increased labor costs)

Mineral or metal Cobalt, nickle, Platinum, uranium Percentage of Government participation 90%

Location of mine Chaffee County Colorado, 10 miles north Buena Vista Colorado

Date of filing MF-100 DMA Docket Number, if available ~~1105X~~ 2031

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation
*2. If a partnership, state names and addresses of partners. no
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See separate Sheet
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See separte sheet
*5. Are you the owner or the lessee of the property? owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. See separate sheet
7. If lessee, attach a copy of the lease and state if it is in good standing. no

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See separate sheet
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $3,200.00. I do not know the amount the goverment will pay for minerals

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*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. See separate sheet

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

NOTE.—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 (*b*) 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. same

*11. State the present and former names of the property, if any Josephine, Albertson, and Mideloy

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. See separate sheet

*13. State source and quantity of water available for operations and its sufficiency at all seasons. See exhibit no 3 of State amount of power to be used, rate per hour or other cost, and source water filing, see separate sheet

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See separate sheet

15. State in detail how the ore could be shipped and how and where milled. See separate sheet

*16. History: See separate sheet

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production: Not in production, in development

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) See separate sheet

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See separate sheet

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See separate sheet

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. See separate sheet

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See separate sheet

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. See separate sheet

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

See separate sheet

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.

Josephine Lode Mining and Development Company. By Mrs Josephine B Frost
(Name of company) (Signature of authorized official)

August 26th, 1951 President
(Date) (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

QUESTION NO. 3- If a corporation, state names and addresses of officers, directors, and five largest stockholders.

Answer-

OFFICERS NAMES ADDRESSES

President Josephine D. Frost, 1232 No. Nevada Ave. Colorado Springs Colorado.
Vice-President , position vacated by death of Sgt. Loyd Dale Justice, August 7th, 1951
Sec. Treasurer Delma May Justice, 1232 No. Nevada Ave. Colorado Springs Colorado.
Ass. Sec. Treasurer, B.J. Hahne, Buena Vista Colorado

DIRECTORS NAMES ADDRESSES

JOSEPHINE D. FROST, 1232 No. Nevada Ave. Colorado Springs Colorado
DELMA MAY JUSTICE 1232 No. Nevada Ave. Colorado Springs Colorado
Vacancy , made by the death of Sgt. Loyd Dale Justice,

Five largest Stockholders-	Addresses
Josephine D. Frost	1232 No. Nevada Ave. Colorado Springs Colorado
Dr. S.F. Sutton	223 East Berry St. Fort Wayne Indiana.
B. J. Hahne, Buena Vista Colorado	
Edgar Mulzer, Tell City , Indiana	
Roland Mulzer, Chrisney Indiana	

QUESTION NO. 4 - Describe the mining and general business experience of (a) the Applicant and (b) the person or persons who will manage the project.

Answer- The Josephine Lode Mining and Development Company is the applicant; this company under the management of the President and officers and directors have discovered and developed the property for the past 14 years. A capable mining man will be hired to supervise the work in the tunnel or shaft .Mr B.J. Hahne will be hired as superviser as he has had 10 years experience as a mine foreman on our property.

QUESTION NO. 6- If owner, state what claims, liens, or encumbrances, if any, are against the property.

Answer- There are no. liens or judgements against the company. The Company owes Mrs Josephine D. Frost ten thousand dollars ($10,000.00) , for monies advanced for expenses for the past 14 years. This money is to be paid to her after the property is in production. The company owes B. J. Hahne six hundred and seventy two dollars $(672.00) for labor, This is to be paid after the property is in production.

QUESTION NO. 8- Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

Answer-

Financial Statement , since January 1st, 1951. to August 1st, 1951.

	Liabilities	Assets	Profit	Loss
Jan.	$ 173.15	47 mining claims	none	$133.33 in the past
Feb.	62.26	1 three room log cabin, furnished.		7 months.
Mar.	67.67	1 gasoline engine		
April	76.63	1 50 ton ball mill		
May	83.41	2 water tanks		
June	103.25	1 wilfrey con. table		
July	95.02	1 gas driven pump		
total	661.39	50 feet 1 in. pipe		
labor	672.00	Not paid but owed to B.J. Hahne.		
total	$ 1333.39			

ION NO. 10-

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.

Albertson lode, location filed in book no. 199 page 598 of the records of Chaffee county Colorado,

Beginning at corner No. 1 Albertson Lode, identical with corner of location on line 1-4 of the Josephine Lode of the survey, from which corner of Sections 26,27,34 and 35, Township 12 South, Range 79 West of the 6th, Principal Meridian bears North 24° 38' 40" West 3,159.3 feet distant

thence South 878.75 feet to corner No.2;

thence South 42° East 1500 feet to corner No. 3;

thence North 448.34 feet to a point whence the discovery point bears North 42° West 1,331 feet distant

North 878.75 feet to Corner No. 4

thence North 42° West 1500 feet to corner No. 1, the place of beginning.

Gross area of the Albertson Lode 20.248 acres,

Excluding that part of the Albertson Lode which lies in the SE¼ of the SW¼ of Section 35, Township 12 South, Range 79, West of the 6th, principal Meridian, a total of 8.46 acres more or less, leaving a total of 11.788 acres in the Albertson Lode.

JOSEPHINE LODE, location filed in book no. 199, page no. 590 of the records of Chaffee County Colorado.

Beginning at corner No. 1, Josephine Lode, whence the corner of Sections 26, 27, 34 and 35, Township 12 South, Range 79 West, bears North 23° 12' 15" West 2924.85 feet distant

thence North 48° East 600 feet to corner No. 2;

thence South 42° East 1500 feet to corner No. 3;

thence South 48° West 300 feet to a point whence the discovery point bears North 42° West 550 feet distant

600 feet to corner No. 4;

thence North 42° West 1500 feet to the place of beginning

Excluding conflict with patented homestead Entry no 254.

Total area of the Josephine Lode 20.661 acres, less the conflict, leaving a total acreage of 20.027 acres.

Both claims are marked with substantial granite stones.

Adjoining claims are the Albertson No.2 , Midsley and David No.1 lodes, the Josephine No.1 and Josephine No. 2 cover practically the same land except laid out on different veins.

Answer-(B) Same description.

QUESTION NO. 12-

STATE IN DETAIL , THE LOCATION OF THE PROPERTY With reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

Answer-

The property is located about 10 miles north of Buena Vista Colorado, the D and R,G railroad is about ¼ miles from the property, (See map exhibit No. 1). Highway No.24 is about ¼ mile , See map Exhibit No. 1, this is the main highway across the United States and is always kept open. The roads across the property are in use but some repair work must be done before they are used much. The last rain washed out some of the road but the repair is a minor expense.

QUESTION NO. 13-

State source and quantity of water available for operations and its sufficiency at all seasons.

State amount of power to be used, rate per hour or ther cost, and source.

Answer- For source of water see water filing exhibit No. 3. . We are also close to the Arkansas river, see map exhibit No. 1.

We have filed on our own water, henceforth no cost for water.

QUESTION NO. 14- Describe any existing usable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

Answer. No buildings on the property, but the company owns two structures on the Ruth and the Ruth No. 2 claim which will be used for housing. We own one gasoline engine which can be used.

QUESTION NO. 15- State in detail how the ore could be shipped and how and where milled.

Answer-

The ore will have to be milled on the property at the present time. I do not know of a mill or smelter at the present time that handles custom ore that contains the minerals found to be in these ores.

QUESTION NO. 16- HISTORY-

(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(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.

Answer-

(a) The assay map enclosed as exhibit No. 2, describes previous exploration and development on the Albertson and Josephine claims. Our operations are still in progress on the Albertson and Josephine claims shown on assay map as No. 3 tunnel on the Albertson claim.

(b) I do not know of any history of adjoining property; nor the production as to the minerals which are found in our ore, gold was shipped from the ore of the property adjoining us on the south. At that time we were not looking for any other minerals or metals. You will find on the enclosed report from the past operations on the Bismarck mine which was located on the same property as the Josephine claim is now located. Location is shown on map exhibit No. 1 for the bismarck shaft.

QUESTION NO. 18- Ore or mineral reserves:(if property is or has been operating)

(a) Describe theoore or mineralsdeposits briefly.

(b) Submit available maps and assay data.

(c) Give estimated tonnage and grade of each class of ore reserves.

Answer-

(a) Cobalt, nickle deposit shown on assay map exhibit No.2 (shaft No.3 on Josephine claim. Assay cobalt 0.51%, and 0.68%. See exhibit no. 7, ore for this exhibit taken from the dumps by the shaft in exhibit no. 2 Shaft No. 3 on the Josephine Claim.

(b) Maps and assay exhibits Nos. 1,213,4,5,6,7,8,[illegible].

(c) possibly 100 tons on dump shown on assay map exhibit No. 2(shaft no. 3 on the Josephine Claim. An unestimated amount of ore is on all the dumps at the various shafts and tunnels showing on the enclosed exhibits.

QUESTION NO. 19- State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

Answer-

The company has been adding claims since its incorporation in 1937. It started with the three claims, namely, Josephine, Midelcy and David. It has added 44 more claims since that date. We have traced the Quartzite dyke and laid out 6 claims, 1500 feet in length on it. It starts on the Josephine claim in the location of shaft No. 2 exhibit no. 2 on the Josephine claim. This Quartzite dyke runs East some north and intersects the vein in the shaft No.2 Josephine on exhibit No.2. The vein intersected is a vein of black ore parallel with a green schist and white and grey pororphy on each side , see exhibit No. 4. This vein of black ore runs North 42° West. This black ore assays in platinum , see exhibits nos. 5 and 8, (class B. sample No.2 of exhibit no.8).

The proposed work shown on assay map exhibit No.2 is explained as follows, from the surface showings we should reach the green nickle ore in about 150 feet from where we are at the present time in the tunnel . We have small shafts on the surface proving this statement and the showings in the wash (this wash is shown on the assay map exhibit no. 2 on the Josephine and Albertson claim.)

We intend to drift north on this deposit and reach the ore which is in the shaft No. 3 on assay map , on the Josephine claim , at a depth of 250 feet. We have sunk a shaft 80 feet at this place, and the green ore which was in bottom , and the west side, assayed $4.10 in nickle and cobalt. The cross vein assayed 0.51% and 0.68% in cobalt see exhibit no. 7.(see exhibit no. 2 , sample no. 10 on the Josephine claim

We expect richer ore with depth as the values have been increasing with depth. We feel that this property should be looked into as the formation indicates a large deposit of nickle, cobalt, platinum and uranium ores.(for uranium see class B of exhibit No.8..

We are asking or allowing $50,000.00 for the project as the cost of labor seems to be rising.

QUESTION NO.20- For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

Answer- Platinum, cobalt, nickle and possibly uraninum ore in the form of pitch blende

QUESTION NO. 21- describe briefly, but concisely, the proposed work and the estimated time required to complete it.

Answer- We propose to drift about 1200 feet on the Albertson and Josephine claims, see pencil outline on assay map exhibit No.2 marked (proposed work). After reaching the ore bodies in the tunnel,sink a shaft on the ore for more depth if commercial ore has not been reached by the depth obtained in the tunnel. It is necessary to drive this tunnel to find the different ore bodies, that cannot be found on surface. If everything works as per schedule this work should not take more than 18 months. The property can be worked the year around.

QUESTION NO.22- Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists,and other pertinent data.

Answer- The formation on the Josephine claim See exhibit No.6, under heading Geology page No.2 of the report of Clayton Kissell, is over 200 feet in width. The samples on exhibit No.7, a report of spectographic analyses, and a chemical determination, made by the Bohn Aluminum And Brass Corporation of Deteroit Michigan. Also samples on assay map (see exhibit No.2 and 9) were taken from this deposit. The samples shown on exhibit No.7 were taken by Mrs. Josephine Frost; the samples on the assay map Exhibit No.2 were taken by Art Crosley, U.S.Min,Surveyor. This formation is designated on assay map as shaft No.3 on the Josephine Claim.

We have already uncovered ore assaying in platinum,see exhibits Nos.5 and 8. These samples were taken from shaft No. 2 on the assay map exhibit No.2, on the Josephine claim.

From the development work that has been performed on the property, showing the values in nickle and cobalt, we feel that with depth we should uncover a large body of commercial ore

For maps and assays see exhibits Nos. 1,2,3,4,5,6,7,8, and 9.

QUESTION NO.23- Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(a) Labor, by numbers and classes (miners,muckers,millman, etc.) with wages of each.

(b) Supervisors,by numbers and positions,with salaries of each.

(c) Cost of necessary repairs to existing facilities,structures, and buildings.

(d) Cost of necessary installation or construction of additional facilities,structures, and buildings.

(e) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at the cost of $50.00 or more each.

(f) Cost of rental for equipment which the operator proposes to rent.

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(h) Cost of materials and supplies, including items of equipment costing less than $50.00 each.

(i) Cost of power,water,utilities,and any other items not provided above.

ANSWER	Per month	Total, for 18 months	
(a) Bookkeeper one	$50.00	$900.00	
Machine man	240.00, $1.25 per hour	4320.00	
Supervisor one	250.00	4500.00	
Two laborers or muckers	336.00 $0.85 per hour	6048.00	
One timber man	192.00 $1.00 per hour	3456.00	
			$19,224.00
(b) one supervisor	$250.00	listed above	
(c) None			
(d) installing one compressor		$ 200.00	200.00
Constructing one compressor house and machine house		1500.00	1500.00
(e) 3000 ft. rail, 2 cars,		300.00	300.00
air line and pipe		600.00	600.00
receiver		400.00	400.00
Atlas deisel rock drill		500.00	500.00
New compressor		3900.00	3900.00
	Total-		$7400.00
Used compressor (if available)		$ 2300.00	
Total with used compressor,			$5800.00

QUESTION NO. 23, CONT.

Answer

(f) We have contacted a rental agency in Denver, name of Hardrock Sinclair, and they do not have any equipment available until after the first of 1952.

(g) None

(h) Dynamite, blasting caps. fuse, timber, gasoline for compressor,
total per month $169.82 18 months, $ 3056.76

(i) We will use gasoline driven engines at the present time, we have filed on own water, see exhibit No.3

The total of these items, with new compressor,	$29,680.76
with used compressor,	28,080.76

QUESTION- Furnish a time schedule of the project, stated in terms of months after the project is approved, showing progress expected to be accomplished and the money expected to be spent.

Answer-

We expect to drift from 3 to 4 feet per day, depending on the hardness of the rock.

Average 3½ feet per day equals, per month,	84 feet
for a period of 18 months,	1312 feet

Monies to be spent per month, labor, per month,	$ 336.00
timber man, " "	192.00
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Part time, bookkeeper " "	50.00
Machine man " "	240.00
Mining supplies and timber, per month,	169.82
Money to be spent, total per month,	1187.82

The total amount we expect to spend for the project, with new compressor,	$29,680.76
With used compressor,	28,080.76

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R10
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2031

Date received 9-3-51

Participation

Name and address of applicant:

Josephine Lode Mining and
Development Company,
Box718
Colorado Springs Colorado.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 31 3 PM '51

Date August 26th, 1951

FILL IN THIS BLOCK

Date of application August 26th, 1951 Estimated cost $32,000.00(with increased labor costs)

Mineral or metal Cobalt, nickle, platinum, uranium Percentage of Government participation 90%

Location of mine Chaffee county Colorado, 10 miles no. Buena Vista, Colorado

Date of filing MF-100 DMA Docket Number, if available ~~1105X~~ 2031

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation
*2. If a partnership, state names and addresses of partners. no.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. see separate sheet
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See separate sheet
*5. Are you the owner or the lessee of the property? owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. see separate sheet
7. If lessee, attach a copy of the lease and state if it is in good standing. no

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See separate sheet
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $3,200.00. I do not know the amount the goverment will pay for these minerals.

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*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. See enclosed sheet

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

NOTE.—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 (*b*) 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. same

*11. State the present and former names of the property, if any. Josephine, Albertson. and mideloy

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. See separate sheet

*13. State source and quantity of water available for operations and its sufficiency at all seasons. See exhibit No. 3 of water filing, see separate sheet. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See separate sheet

15. State in detail how the ore could be shipped and how and where milled. See separate sheet

*16. History: See separate sheet

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production: Not in production, in development.

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) See separate sheet

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See separate sheet

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See separate sheet

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. See separate sheet

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See separate sheet

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. See separate sheet

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

See separate sheet

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.

Josephine Lode Mining and Development Company. By Mrs. Josephine D. Frost
(Name of company) (Signature of authorized official)

August 26th, 1951 President
(Date) (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

QUESTION NO. 3- If a corporation, state names and addresses of officers, directors, and five largest stockholders.

Answer-

OFFICERS NAMES ADDRESSES

President Josephine D. Frost, 1232 No. Nevada Ave. Colorado Springs Colorado.
Vice-President , position vacated by death of Sgt. Loyd Dale Justice, August 7th, 1951
Sec. Treasurer Delma May Justice, 1232 No. Nevada Ave. Colorado Springs Colorado.
Ass. Sec. Treasurer, B.J. Hahne, Buena Vista Colorado

DIRECTORS NAMES ADDRESSES

JOSEPHINE D. FROST, 1232 No. Nevada Ave. Colorado Springs Colorado
DELMA MAY JUSTICE 1232 No. Nevada Ave. Colorado Springs Colorado
Vacancy , made by the death of Sgt. Loyd Dale Justice,

Five largest Stockholders- Addresses
Josephine D. Frost 1232 No. Nevada Ave. Colorado Springs Colorado
Dr. S.F. Sutton 223 East Berry St. Fort Wayne Indiana.
B. J. Hahne, Buena Vista Colorado
Edgar Mulser, Tell City , Indiana
Roland Mulser, Chrisney Indiana

QUESTION NO. 4 - Describe the mining and general business experience of (a) the Applicant and (b) the person or persons who will manage the project.

Answer- The Josephine Lode Mining and Development Company is the applicant; this company under the management of the President and officers and directors have discovered and developed the property for the past 14 years. A capable mining man will be hired to supervise the work in the tunnel or shaft Mr B,J. Hahne will be hired as supervisor as he has had 10 years experience as a mine foreman on out property.

QUESTION NO. 6- If owner, state what claims, liens, or encumbrances, if any, are against the property.

Answer- There are no. liens or judgements against the company. The Company owes Mrs Josephine D. Frost ten thousand dollars ($10,000.00) , for monies advanced for expenses for the past 14 years. This money is to be paid to her after the property is in production. The company owes B. J. Hahne six hundred and seventy two dollars $(672.00) for labor, This is to be paid after the property is in production.

QUESTION NO. 8- Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

Answer-

Financial Statement , since January 1st, 1951. to August 1st, 1951.

	Liabilities	Assets	Profit	Loss
Jan.	$ 173.15	47 mining claims	none	$135.33 in the past 7 months.
Feb.	62.26	1 three room log cabin, furnished.		
Mar.	67.67	1 gasoline engine		
April	76.63	1 50 ton ball mill		
May	83.41	2 water tanks		
June	103.25	1 wilfrey con. table		
July	95.02	1 gas driven pump		
total	661.39	50 feet 1 in. pipe		
labor	672.00	Not paid but owed to B.J. Hahne.		
total	$ 1333.39			

QUESTION NO. 10-

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.

Answer- Albertson lode, location filed in book no. 199 page 598 of the records of Chaffee county Colorado,

Beginning at corner No. 1 Albertson Lode, identical with corner of location on line 1-4 of the Josephine Lode of the survey, from which corner of Sections 26,27,34 and 35, Township 12 South, Range 79 West of the 6th, Principal Meridian bears North 24° 38' 40" West 3,159.3 feet distant

thence South 878.75 feet to corner No.2;

thence South 42° East 1500 feet to corner No. 3;

thence North 448.34 feet to a point whence the discovery point bears North 42° West 1,331 feet distant

North 378.75 feet to Corner No. 4

thence North 42° West 1500 feet to corner No. 1, the place of beginning.

Gross area of the Albertson Lode 20.248 acres,

Excluding that part of the Albertson Lode which lies in the SE¼ of the SW¼ of Section 35, Township 12 South, Range 79, West of the 6th, principal Meridian, a total of 8.46 acres more or less, leaving a total of 11.788 acres in the Albertson Lode.

JOSEPHINE LODE, location filed in book no. 199, page no. 590 of the records of Chaffee County Colorado.

Beginning at corner No. 1, Josephine Lode, whence the corner of Sections 26, 27, 34 and 35, Township 12 South, Range 79 West, bears North 23° 12' 15" West 2924.65 feet distant

thence North 48° East 600 feet to corner No. 2;

thence South 42° East 1500 feet to corner No. 3;

thence South 48° West 300 feet to a point whence the discovery point bears North 42° West 550 feet distant

600 feet to corner No. 4;

thence North 42° West 1500 feet to the place of beginning

Excluding conflict with patented homestead Entry no 254.

Total area of the Josephine Lode 20.661 acres, less the conflict, leaving a total acreage of 20.027 acres.

Both claims are marked with substantial granite stones.

Adjoining claims are the Albertson No.2 , Midsley and David No.1 lodes, the Josephine No.1 and Josephine No. 2 cover practically the same land except laid out on different veins.

Answer-(B) Same description.

QUESTION NO. 12-

STATE IN DETAIL , THE LOCATION OF THE PROPERTY With reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

Answer-

The property is located about 10 miles north of Buena Vista Colorado, the D and R.G railroad is about ¼ miles from the property,(See map exhibit No. 1). Highway No.24 is about ¼ mile , See map Exhibit No. 1. this is the main highway across the United States and is always kept open. The roads across the property are in use but some repair work must be done before they are used much. The last rain washed out some of the road but the repair is a minor expense.

QUESTION NO. 13-

State source and quantity of water available for operations and its sufficiency at all seasons.

State amount of power to be used, rate per hour or ther cost, and source.

Answer- For source of water see water filing exhibit No. 3. . We are also close to the Arkansas river, see map exhibit No. 1.

We have filed on our own water, henceforth no cost for water.

QUESTION NO. 14- Describe any existing usable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

Answer. No buildings on the property, but the company owns two structures on the Ruth and the Ruth No. 2 claim which will be used for housing. We own one gasoline engine which can be used.

QUESTION NO. 15- State in detail how the ore could be shipped and how and where milled.

Answer-

The ore will have to be milled on the property at the present time. I do not know of a mill or smelter at the present time that handles custom ore that contains the minerals found to be in these ores.

QUESTION NO. 16- HISTORY-

(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(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.

Answer-

(a) The assay map enclosed as exhibit No. 2, describes previous exploration and development on the Albertson and Josephine claims. Our operations are still in progress on the Albertson and Josephine claims shown on assay map as No. 3 tunnel on the Albertson claim.

(b) I do not know of any history of adjoining property; nor the production as to the minerals which are found in our ore, gold was shipped from the ore of the property adjoining us on the south. At that time we were not looking for any other minerals or metals. You will find on the enclosed report from the past operations on the Bismarck mine which was located on the same property as the Josephine claim is now located. Location is shown on map exhibit No. 1 for the bismarck shaft.

QUESTION NO. 18- Ore or mineral reserves: (if property is or has been operating)

(a) Describe theores or mineralsdeposits briefly.

(b) Submit available maps and assay data.

(c) Give estimated tonnage and grade of each class of ore reserves.

Answer-

(a) Cobalt, nickle deposit shown on assay map exhibit No.2 (shaft No.3 on Josephine claim. Assay cobalt 0.51%, and 0.68%. See exhibit no. 7, ore for this exhibit taken from the dumps by the shaft in exhibit no. 2 Shaft No. 3 on the Josephine Claim.

(b) Maps and assay exhibits Nos. 1,2,3,4,5,6,7,8 and 9.

(c) possibly 100 tons on dump shown on assay map exhibit No. 2(shaft no. 3 on the Josephine Claim. An unestimated amount of ore is on all the dumps at the various shafts and tunnels showing on the enclosed exhibits.

QUESTION NO. 19- State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

Answer-

The company has been adding claims since its incorporation in 1937. It started with the three claims, namely, Josephine, Midsley and David. It has added 44 more claims since that date. We have traced the Quartzite dyke and laid out 6 claims, 1500 feet in length on it. It starts on the Josephine claim in the location of shaft No. 2 exhibit no. 2 on the Josephine claim. This Quartzite dyke runs east some north and intersects the vein in the shaft No.2 Josephine on exhibit No. 2. The vein intersected is a vein of black ore parallel with a green schist and white and grey porrphy on each side, see exhibit No. 4. This vein of black ore runs North 42° West. This black ore assays in platinum, see exhibits nos. 5 and 8, (class B, sample No.2 of exhibit no.8).

The proposed work shown on assay map exhibit No.2 is explained as follows, from the surface showings we should reach the green nickle ore in about 150 feet from where we are at the present time in the tunnel. We have small shafts on the surface proving this statement and the showings in the wash (this wash is shown on the assay map exhibit no. 2 on the Josephine and Albertson claim.)

We intend to drift north on this deposit and reach the ore which is in the shaft No. 3 on assay map, on the Josephine claim, at a depth of 250 feet. We have sunk a shaft 30 feet at this place, and the green ore which was in bottom, and the west side, assayed 4.10 in nickle and cobalt. The cross vein assayed 0.51% and 0.68% in cobalt see exhibit no. 7.(see exhibit no. 2, sample no. 1 on the Josephine claim

We expect richer ore with depth as the values have been increasing with depth.

We feel that this property should be looked into as the formation indicates a large deposit of nickle, cobalt, platinum and uranium ores.(for uranium see class B of exhibit No.8..

We are asking or allowing $30,000.00 for the project as the cost of labor seems to be rising.

QUESTION NO. 20- For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

Answer- Platinum, cobalt, nickle and possibly uranium ore in the form of pitch blende

QUESTION NO. 21- Describe briefly , but concisely, the proposed work and the estimated time required to complete it.

Answer- We propose to drift about 1200 feet on the Albertson and Josephine claims, see pencil outline on assay map exhibit no. 2 marked (proposed work). After reaching the o orebodies in the tunnel, sink a shaft on the ore for more depth if commercial ore has not been reachedby the depth obtained in the tunnel. It is necessary to drive this tunnel to find the different ore bodies, that cannot be found on surface. If everything works as per schedule this work should not take more than 18 months. The property can be worked the year around.

QUESTION NO 22- Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

Answer- The formation on the Josephine claim See exhibit No. C, under heading Geology page no. 2 of the report of Clayton Kissell, is over 200 feet in width. The samples on exhibit no. 7,a reportof spectographic analyses, and a chemical determination, made by the Rohn Aluminum And Brass Corporation of Detroit Michigan. also samples on assay map (see exhibit no. 2 and 9) were taken from this deposit. The samples shown on exhibit no. 7 were taken by Mrs Josephine Frost; the samples on the assay map exhibit no2 were taken by Art Crosley, U.S. Min. surveyor. This formation is designated on assay map as shaft No. 3 on the Josephine Claim.

We have already uncovered ore assaying in platinum see exhibits nos. 5 and 8. Those samples were taken from shaft no. 2 on the assay map exhibit no. 2, on the Josephine claim.

From the development work that has been performed on the property, showing the values in nickle and cobalt, we feel that with depth we should uncover a large body of commercial ore

For maps and assays see exhibits nos. 1,2,3,4,5,6,7,8,and9.

QUESTION NO. 23- Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows;

(a) Labor, by numbers and classes(miners, muckers, millman, etc.) with wages of each.
(b) Supervisors, by numbers and positions , with salaries of each.
(c) Cost of necessary repairs to existing facilities, structures, and buildings.
(d) Cost of necessary installation or construction of additional facilities, structures, and buildings.
(e) Cost of items of equipment , not now owned by the applicant which must be purchased for operations at the cost of $50.00 or more each.
(f) Cost of rental for equipment which the operator proposes to rent.
(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
(h) Cost of materials and supplies , excluding items of equipment costing less than $50.00 each.
(i) Cost of power, water, utilities, and any other items not procided above.

ANSWER		per month		total , for 18 months
(a) Bookkeeper	one	$50.00		$900.00
Machine man		240.00	1.25 per hour	4320.00
Supervisor	one	250.00		4500.00
Two laborers or muckers			0.35 per hour	
one timber man		192.00	1.00 per hour	3456.00
			total	[illegible]

(b) one supervisor $ 250.00 listed above
(c) none

(d) installing one compressor	200.00	200.00
Constructing one compressor house and machine house	1500.00	1500.00
(e) 3000 ft. rail, 2 cars,	300.00	300.00
air line and pipe	600.00	600.00
receiver	400.00	400.00
atlas deisel rock drill	800.00	800.00
New compressor	$3900.00	[illegible]
	total	[illegible]
used compressor (if available)	2300.00	
	total with used compressor	$5800.00

QUESTION NO. 23, CONT.

Answer

(f) We have contacted a rental agency in Denver, name of Hardrock Sinclair, and they do not have any equipment available until after the first of 1952.

(g) None

(h) Dynamite, blasting caps, fuse, timber, gasoline for compressor,
total per month $169.82 18 months, $ 3056.76

(i) We will use gasoline driven engines at the present time, we have filed on own water, see exhibit No.3

The total of these items, with new compressor,	$29,680.76
with used compressor,	28,080.76

QUESTION- Furnish a time schedule of the project, stated in terms of months after the project is approved, showing progress expected to be accomplished and the money expected to be spent.

Answer-

We expect to drift from 3 to 4 feet per day, depending on the hardness of the rock.

Average 3½ feet per day equals, per month,	84 feet
for a period of 18 months,	1312 feet

Monies to be spent per month, labor, per month,	$ 336.00
timber man, " "	192.00
Supervisor " "	250.00
Part time, bookkeeper " "	50.00
Machine man " "	240.00
Mining supplies and timber, per month,	169.82
Money to be spent, total per month,	1187.82

The total amount we expect to spend for the project, with new compressor,	$29,680.76
with used compressor,	28,080.76

JOSEPHINE D. FROST
PRESIDENT
LOYD DALE JUSTICE
VICE PRESIDENT
MILDRED E. BERRY
SECRETARY

REPORTS AND RECORDS
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
AUG 31 1 53 PM 51

JOSEPHINE LODE MINING AND DEVELOPMENT COMPANY
A COLORADO CORPORATION
COLORADO SPRINGS, COLORADO

DM A-2031

Dr. James Boyd, Director
Bureau of Mines,
Washington, D. C.

Dear Sir:

I am transmitting to you the following papers:

Four copies of Form MF-103 with separate sheets for questions and answers where the space is insufficient on the form.

One copy of Exhibits as follows:

No.1, Map showing part of the claims of the property.

No.2, Assay Map, made by A. B. Crosley, dated June 1950

No.3, Plat of water filing

No.4, Report of Fred McNair dated Jan. 13, 1937

No.5, Assay of Harrison Engineering Co. dated Oct. 20, 1937

No.6, Report by Clayton Kissell, dated 1941

No.7, Report by Bohn Aluminum & Brass Co. dated Feb. 10, 1942

No.8, Report by Bohn Aluminum & Brass Co. dated Dec. 17, 1945.

No.9, Assay by H.M. Ochs, used in sample No.3 on assay map, Exhibit No.2 Josephine Claim.

We will continue our work if the loan is not granted. It will take m us much longer, There is a large body of ore and I feel that the government should know about it, as the metals are needed in our war program.

Thanking you, we remain

Very truly yours,

THE JOSEPHINE LODE MINING AND DEVELOPMENT COMPANY,

BY Josephine D. Frost
President.

JOSEPHINE D. FROST
PRESIDENT
LOYD DALE JUSTICE
VICE PRESIDENT
MILDRED E. BERRY
SECRETARY

JOSEPHINE LODE MINING AND DEVELOPMENT COMPANY

A COLORADO CORPORATION

COLORADO SPRINGS, COLORADO
BOX 718

AUGUST, 21st, 1951

U. S. DEPARTMENT OF THE INTERIOR,
Defence minerals Administration,
Washington (25) D.C..

Attention- Mr Tom Lyon;

1125

Dear Sir;

I have received your letter of August 16th, 1951, also the report from the chemical laboratory dated August 6th, 1951.

I do not understand this report as I told you that this ore was to be run for platinum, that it carried some nickle and cobalt, . It was not taken from the same place that the report made by Mr Ochs was taken.

I am mailing you maps and reports, show ing on the maps the places where the ore was taken from, that the various reprorts were made from. There was some misunderstanding as I mailed several samples and you only send me a report on one .

You will understand what I am writing about when you receive a more detailed report on the property. This property is made up of several large dykes and cross veins. I did not send you a sample of the nickle ore and cobalt ore from the deposit which measures over 200 feet in width.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 2 1951

Very Truly Yours,

Josephine Lode Mining And Development Company,

Josephine D Frost
President

EXHIBIT NO 4

REPORT OF:

"FRED J. McNAIR
Mining Engineer
U. S. Mineral Surveyor
P. O. Box 526
Leadville, Colorado

Jan. 13, 1937

Mrs. Josephine Justice Carroll,

Buena Vista, Colo.

Dear Mrs. Carroll:

In response to your request I went to Riverside with you and surveyed the Josephine lode, the location certificate of which I am sending to you herewith.

At that time and at later dates I made careful survey of the claim and took particular pains to determine that it is on unpatented and unappropriated ground. You will remember that your neighbor at the south end of this claim who is mining on the extension of your vein was taking out some ore and making occasional shipments but that after a detailed talk about his rights to the north he admitted that he had never done any work in that direction to determine whether he could find any ore, so that any claim which he might make to your territory is evidently without foundation.

The patented ground on the west side of you is taken up by legal sub-divisions and I have tied your claim to one of the corners on that claim and have determined that your ground is clear of it except for the slight conflict shown on the enclosed map. Even as to this conflict, it being strictly agricultural, you would have a perfect right to mine any lode which may dip from your ground under the agricultural patent. The exact lines of this conflict may be changed slightly after a patent survey of

your ground, owing to probable slight errors in the original subdivisional survey, but any such difference would not be material.

Your discovery shaft shows mineralization, and from what you say, by re-opening the shaft you will find the vein from which you took out ore containing gold, silver and other values. This vein is located in a reverse fault such as are so frequent in the Leadville and Alma districts and I believe this to be one of that series of faults. It is along or near these reverse faults that all the best gold and silver ore in these districts has been mined, and I expect this rule to apply to your particular claim. Your vein lies between white and gray porphyry, which is also true throughout these districts.

Therefore, I fully expect that at depth you will be able to show the ore which you state is there. I understand that this shaft is about 60 feet deep. and this should be cleaned out for about $200 or $300. This would prove your whole situation.

Mr. Heinzmann also made the statement that he had personally mined ore from the incline shown on this claim and had gotten as high as 200 ore more ounces of silver to the ton from it. This is undoubtedly from the same vein as your discovery shaft and would tend to prove your contention.

I hope you get the money with which to do this work and prove up the values.

Yours very truly,
(signed) Fred J. McNair, Mining Engineer

I certify that this is a true copy of the original.
Dated this 21st day of Feb. 1944.
My Commission expires March 5, 1945.
(seal) KATHRYN McDONNELL

EXHIBIT NO. 6

R E P O R T

on

THE JOSEPHINE MINE

This report shall be considered in its entirety, and no excerpt or partial statement contained herein shall be published or used without the written consent of the signer hereof.

The Josephine mining property is located in the Riverside Mining District, Chaffee County, Colorado, approximately nine miles north of Buena Vista.

HISTORY:

Information relative to the past production of this district as shown by the U. S. Bureau of Mines consists of gold and silver; without a doubt other metals exist due to tests which have been made at recent dates.

PROPERTY:

The property has been acquired by location, and the necessary surveys made preparatory to making application for patent.

ACCESSIBILITY:

The property is situated on the westerly slope of the front range, about one mile from the loading station of the Denver and Rio Grande railroad. A good oiled highway parallels the railroad, so that shipments can be made by truck or rail to the smelter. The roads over the property are narrow and have steep grades, but are passable for automobiles. At small expense with tractor and blade these roads can be widened and a better grade made when needed.

CLIMATE:

The winters are mild and generally open, causing no extra expense to mining operations. Elevation is approximately 8300 feet.

TIMBER AND WATER:

There is considerable timber on the upper end of the property suitable for mining and building purposes. Water is available on upper and lower ends of the property. The Arkansas river is within 600 feet of the lower end line, and on the upper end of property there is enough water from springs and a small stream for domestic and milling purposes. This is where the camp and mill site are located.

POWER:

Electric power can be obtained from the Mountain States Utilities whose lines are about one mile distant; but would recommend Deisel engines at this time.

GEOLOGY:

The general formation of this district is a granite. Classified as Pre-Cambrian Pikes Peak granite with schist and gneiss. Bassalt dikes cut the granite striking northwest and southeast. Veins of quartz showing limonite and oxidation are found along the contact. Parallel to these are porphyry, schists and quartzite. These conditions are found possible by the number of cuts and shallow shafts which have been worked. On the Josephine Claim this formation is at least 200 feet wide. South of this is the Bismark system striking northeast and southwest. Also proven by a number of cuts and shafts. On the upper

end of the property pegmatite outcrops are found, also several quartz veins striking east and west dipping sixty degrees to the south. This formation is crossed by another system whose strike is northeast and southwest.

VEIN SYSTEM:

A vein developed some thirty to thirty-five years ago on the west end of the Josephine Claim by a shaft reported sixty-five feet deep, and which was supposed to produce commercial ore, is now caved, and all that can be seen is the outcrop showing parallel veins of porphyry, quartzite and schist striking north thirty degrees west and north seventy degrees west, which shows an intersection at this old shaft. The Bismark Vein designated by the old shaft is reported to have produced $68,000.00 in gold. From a depth of sixty to seventy feet. This vein has a strike of north forty degrees east and is opened by shallow shafts and cuts which have reported gold and silver values. Ruth #2 tunnel has developed a vein for a distance of seventy-five feet and by winze sixteen feet, strike is in an easterly direction. By driving this tunnel eight hundred feet, the vein will intersect a system striking northeast, which has been opened on surface and shows a very strong vein. The Ruth #2 tunnel is located on the northern end of the property, and there also are located the camp and mill site. Several other veins are exposed on the property but these I have not examined up to this time.

DEVELOPMENT WORK:

No extensive development work has been done other than to

open cuts, shallow shafts and short tunnels. Most of this was done for the purpose of assessment work and to locate the strike of different veins.

VALUE OF ORE:

No attempt is made by the writer to establish values of the ore exposed at this time, however, in the near future, a complete and detailed sampling program is in mind so as to determine proper development of possible commercial ores now in sight. However, the following are determinations as to values which have been taken from time to time, amd by several different persons.

Gold Ounces Per Ton	Silver Ounces Per Ton	Platinum Ounces Per Ton	Mercury Percent	Tellurium Percent	
.08	16.96				Mideloy Open Cut 20 ft wide
.08	12.80				" " " " " "
.32					Porphyry
1.10	16.				210 lb. sample 14 ft depth from discovery shaft
2.35					
.32					Bismark Vein down four feet
.96					" " " six "
.20					" " " talc
.33					" " " porphyry
1.44					
.70					
.026					Josephine Shaft (Original)
.052	.294	0.301	0.236	0.23	by Harrison Engineering Co.
.068	.172	0.481	0.224	0.19	
.013	.17	0.695	0.196	0.27	
.089	1.5	0.695	0.18		
.22					Ruth #2 Tunnel
1.95					" " "
.275	0.775				" " "
.64	6.25				" " " 15 ft.across face
.96	12.30				" " " 8 ft. " "
2.35	14.7				" " "
.11	3.15				" " " Talc Streak
.03	.11				Surface Mideloy
.05	.30				" "
.40	2.64				Josephine #1 Shaft 2 ft. Wide

.08		Josephine #1 Shaft down 3 ft. 2 ft. wide
.10		
1.44		Josephine #1, 10 ft down, 2 ft wide
.04		" " " " " " "
.70	16.	Mideloy
.04		Josephine
.20		"
1.96	7.4	Ruth #2 Tunnel Face of Tunnel
.00		"
.00		"
.52	1.28	" Face of Tunnel
1.01	16.10	Original Shaft on Josephine
.123		" " " "

TONNAGE OF ORE DEVELOPED:

Considerable ore has been developed as indicated by the above samples. However, a careful check will have to be made where and how best to attack it. There is no blocked ore to determine tonnage.

MILL SITES:

There are two proposed sites for a mill: one at the bottom of the property. This ground would have to be acquired, which is close to the river and would furnish ample water, also plenty of room for impounding tailings. Number two is on upper end of property, where at this time some small equipment is on the ground. Sufficient water might be a problem for a large tonnage during dry months. Two log buildings have been built on this site, one capable of housing twelve to fifteen men.

RECOMMENDATIONS:

A thorough exploration should be made at the sixty-five foot shaft on the Josephine to determine the quantity and grade of ore reported from there. Clean out and inspect the old

Bismark shaft. This would be cheaper than sinking a new one. Drive the Ruth #2 tunnel to intersection of cross veins which show on surface approximately 800 feet. This would give 500 feet of backs. A thorough test of the different ores to determine the method of Metallurgy required for extraction of the different metals.

CONCLUSION:

The general formation and history of this region indicate the possibility of large ore bodies. With this in mind, the recommendations stated above should be followed.

(signed) Clayton Kissell, E. M."

1941

Exhibit No. 5

RESEARCH CHEMISTS — METALLURGISTS

Rendering A Complete Mining Service

C
O
P
Y

HARRISON ENGINEERING CO.
(Harrison Chemical Process)
99%- Plus Gold Recovery

Head Office and Laboratory:
2222 Broadway
Denver, Colo.

Don I. Cameron
Canadian Representative
6th Floor Somerset Building
Winnipeg, Man.

October 20, 1937

GOLD RECOVERY REPORT

Sample Number	Amount of Ore Used	Amount of Gold Obtained	Oz. Per ton
Our # 71	1 lb.		
Your # 1	1 lb.	0.412 mg.	0.026 Oz.
Your # 2	1 lb.	0.82 mg.	0.052 Oz.
Your # 3	1 lb.	1.06 mg.	0.068 Oz.
Your # 4	1 lb.	0.21 mg.	0.013 Oz.
Your # 5	1 lb.	1.39 mg.	0.089 Oz.

#71-#2	1 lb. used	0.301 oz. per ton PLATINUM
	1 lb. used	0.294 oz. per ton SILVER
	1 lb. used Recovered	0.236% MERCURY
	1 lb. used Recovered	0.23% TELLURIUM
#71-#3	1 lb. used	0.481 oz. per ton PLATINUM
	1 lb. used	0.172 oz. per ton SILVER
	1 lb. used Recovered	0.224% MERCURY
	1 lb. used Recovered	0.19% TELLURIUM
#71-#4	1 lb. used	0.695 oz. per ton PLATINUM
	1 lb. used	0.17 oz. per ton SILVER
	1 lb. used Recovered	0.196% MERCURY
	1 lb. used Recovered	0.27% TELLURIUM

Chemist

"Harrison Chemical Assays are representative of the gold or other metals that can be recovered under commercial operations with the
Harrison Chemical Process"

October 20, 1937

GOLD RECOVERY REPORT

Sample Number	Amount of ore used	Amount of Gold Obtained	Oz. per Ton
#71-#3	1 lb. used	0.695 oz. per ton PLATINUM	
	1 lb. used	1.5 oz. per ton SILVER	
	1 lb. used Recovered	0.18% MERCURY	
	1 lb. used Recovered	No BISMUTH	

cc Fred McNair
C. F. Colde
~~August 22, 1950~~

This is a true and correct copy
/s/ Dorothy Maxwell
Notary

(Signed) Geo. Harrison,
Chemist.

Taken from original Josephine Shaft.

EXHIBIT NO. 7

BOHN ALUMINUM & BRASS CORPORATION
Bohnalite & Bohnolloy Products
DETROIT, U. S. A.

February 10, 1942

Miss Josephine Justice (now Frost)
Box 392
Buena Vista, Colorado

Dear Madam:

Before going to Florida, our President, Mr. P. A. Markey turned over to me some correspondence with you regarding a mineral deposit containing Nickel and Cobalt.

We recently received two samples of ore Nos. 1 and 2 which were crushed, coned and quartered separately and analyzed as follows:

Spectographic analyses were made on the separate samples to determine the various elements present which were as follows:

Sample No. 1 - Copper, Silver, Nickel, Cobalt, Magnesium, Silicon, Iron, Aluminum and Calcium.

Sample No. 2 - Copper, Silver, Nickel, Cobalt, Magnesium, Silicon, Iron, Aluminum and Calcium.

Chemical analyses were then made of the two samples with the following results:

Sample No. 1-		Sample No. 2-
Trace	Copper Oxide	Trace
Trace	Calcium Oxide	9.50
5.97	Iron Oxide	9.22
26.05	Aluminum Oxide	19.95
Trace	Nickel Oxide	Trace
6.88	Magnesium Oxide	8.83
0.51	Cobalt Oxide	0.68
47.70	Silica	47.10

You will note that Nickel Oxide was present as "Trace" and did not exceed .005%. Copper was also present not exceeding .005%. The Cobalt content of the ore assayed as follows:

Cobalt Oxide - Sample No. 1 - 0.51% equivalent to 0.40% Metallic Cobalt
" " " " 2 - 0.68% " " 0.54% " "

After you have looked over the analyses I will be pleased to receive any comments you care to make.

Yours very truly,

W. E. McCullough
Chief Metallurgist

T C
R O
U P
E Y

Exhibit No.8

REPORT ON SPECTROGRAPHIC TEST, FROM:

"BOHN ALUMINUM & BRASS CORPORATION
METALLURGICAL DEPT.

Date Reported: December 17, 1945

SUBJECT: EXAMINATION OF MINERAL SPECIMENS
FURNISHED BY MISS JOSEPHINE JUSTICE

On December 10, 1945, Miss Justice brought to this office a few small fragments of rock, none exceeding two ounces in weight. At her request we made a spectrographic test on three different pieces to determine what elements were present. We have classified them in two groups.

A. Elements present in practically all rocks to some degree and of no mineral value in this case.

B. Elements of possible value if present in sufficient quantity to warrant expense of mining and treating.

We wish to make it clear that we have not determined the amount or values of any of the elements reported present in Class B for the following reasons:

1. We do not have the necessary spectrographic standards for these elements.
2. The samples were too small to justify any report.
3. The appraisal of ore values should only be made on large and representative quantities of ore selected by a qualified engineer.

Therefore, we can assume no responsibility beyond stating what elements were shown to be present in Class B to the extent of 0.001% or more.

CLASS A

	No. 1	No. 2	No. 3
Silicon	Present	Present	Present
Magnesium	Present	Present	Present
Manganese	Present	Present	Present
Titanium	Present	Present	Trace
Sodium	Present	Present	Present
Potassium	Present	Present	Present
Iron	Present	Present	Present
Aluminum	Present	Present	Present
Calcium	Present	Present	Present

CLASS B

Uranium	Trace	Trace	Trace
Vanadium	Present	Present	Present
Gold	Trace	Trace	Trace
Silver	Present	Trace	Present
Cobalt	Trace	Trace	Trace
Nickel	Present	Present	Trace
Platinum	Trace	Trace	Trace
Copper	Present	Present	Present
Chromium	Present	Present	Present
Zinc	Present	Present	Present

Note: "Trace" denotes 0.001% to 0.01% range.

"Present" denotes a minimum of 0.001% - no determination made of extent present.

The sample had been heated.

(signed) Stanley M. Brandt
Spectrographer

Approved - (signed)
W. E. McCullough
Chief Metallurgist"

The foregoing report is not entered in the Prospectus to designate what the Josephine Lode Mining & Development Company deems final as to value of ore, but to show the elements that might prove valuable after the pilot plant is installed, which will determine the best method of treatment possible.

COPY

Exhibit No. 9

H. M. OCHS
CHEMIST & SPECTROGRAPHER
P. O. BOX 924
Denver, Colorado

Mrs. Josephine Frost
1232 North Nevada Street
Colorado Springs, Colorado

SAmple: No. 3

COMPLETE QUALITATIVE SPECTROGRAPHIC ANALYSIS

Figures are percentage estimates

----Antimony
----Arsenic
5---Aluminum
.2--Barium
---Boron
---Beryllium
---Bismuth
2--Calcium
---Columbium
---Cadmium
---Cerium
.1-Cobalt
.2-Chromium
---Caesium
.02 - Copper
---Dysprosium
---Erbium
---Europium
---Gallium
---Gadolinium
---Germanium
---Gold
---Hafnium
---Holmium
---Indium
10 - Iron
---Iridium
---Lanthanum
---Lead
.001 - Lithium
---Lutecium
10 - Manganese
---Mercury

-----Molybdenum
-----Neodymium
✓ 0.14-Nickel(Chemical determination)
-----Osmium
-----Palladium
.2---Potassium
-----Praseodymium
Platinum
-----Radium
-----Rubidium
-----Rhenium
-----Rhodium
-----Ruthenium
-----Scandium
Major --Silicon
-----Samarium
.01 -Strontium
-----Silver
.5--Sodium
-----Tantalum
-----Terbium
-----Thallium
-----Thulium
-----Thorium
-----Tin
1 ---Titanium
-----Tungsten
-----Uranium
.2---Vanadium
-----Yttrium
-----Ytterbium
-----Zinc
.001-Zirconium

CERTIFIED COPY
Dated: 4/20/50

/s/ Dorothy Maxwell
Notary

A 30 minute geiger counter test shows no radioactivity. Principal minerals: Hornblende, pyrite. Approximate value per ton: Nickel and Cobalt $4.

/s/ H. M. Ochs

P.S. "On Josephine property taken at 80' depth which is the 80' shaft mentioned in letter."

REPORT OF A. B. CROSLEY, MINERAL SURVEYOR AND MINING ENGINEER TO GO WITH THE ASSAY MAP OF SURVEY NO. 20,723 JOSEPHINE AND ALBERTSON LODES, IN GARFIELD COUNTY, COLORADO.

Description of the samples shown on the assay map of Survey No. 20,723 Josephine and Albertson Lodes in the Riverside Mining District, Garfield County, Colorado.

Sample No. 1, taken from a streak or vein of mineral bearing rock or ore, 6 inches wide in the left side of the breast of the short drift on the Albertson Tunnel (No. 2) drift in Tunnel. The dip of this streak or vein is 70° to the southeast and shows that this is the vein as is exposed in the Albertson Discovery cut (marked No. 1 Discovery cut on the map).

Sample No. 4, taken from a vein of mineral bearing rock or ore 3 feet wide across the face of the Albertson Discovery Cut (marked on the Map, No. 1 Discovery cut).

Sample No. 5 taken from a vein of mineral bearing rock or ore 3 feet wide across the north breast of the short drift in Josephine Discovery shaft, marked (No. 1) on assay map of the Josephine Lode claim.

Samples Nos. 10 and 11, taken Shaft (No. 3) on the Josephine main shaft. This shaft is now partly under water, so a sample could not be obtained on the bottom of the shaft. Nos. 10 and 11 are grab samples from the dump which is on the surface, near the main shaft. Sample No. 10 taken from a pile of green rock lying next to the large dump.

Sample No. 17, taken from a vein of mineral bearing rock or ore 3 feet wide exposed in a cut 8 feet below the surface, near shaft (No. 2) on the Josephine Claim. Shaft No. 2 is caved and samples could not be taken in bottom until shaft is repaired.

NOTE:

Numbers in the parenthesis refer to improvements shown on the assay map and the approved plat.

Dated this 30th day of June 1950

/s/ A. B. CROSLEY

A. B. Crosley

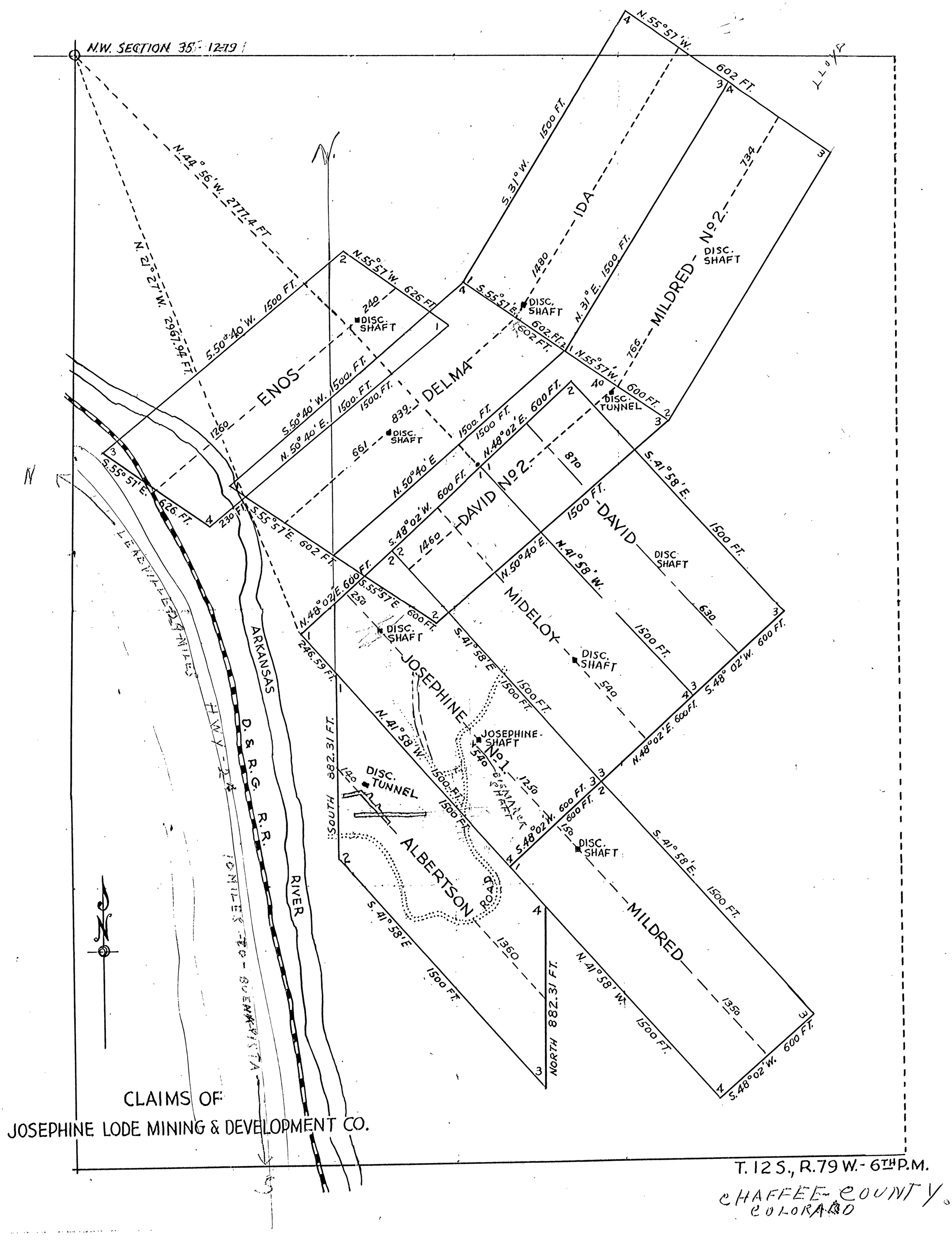
/s/s HILDRETH FROST

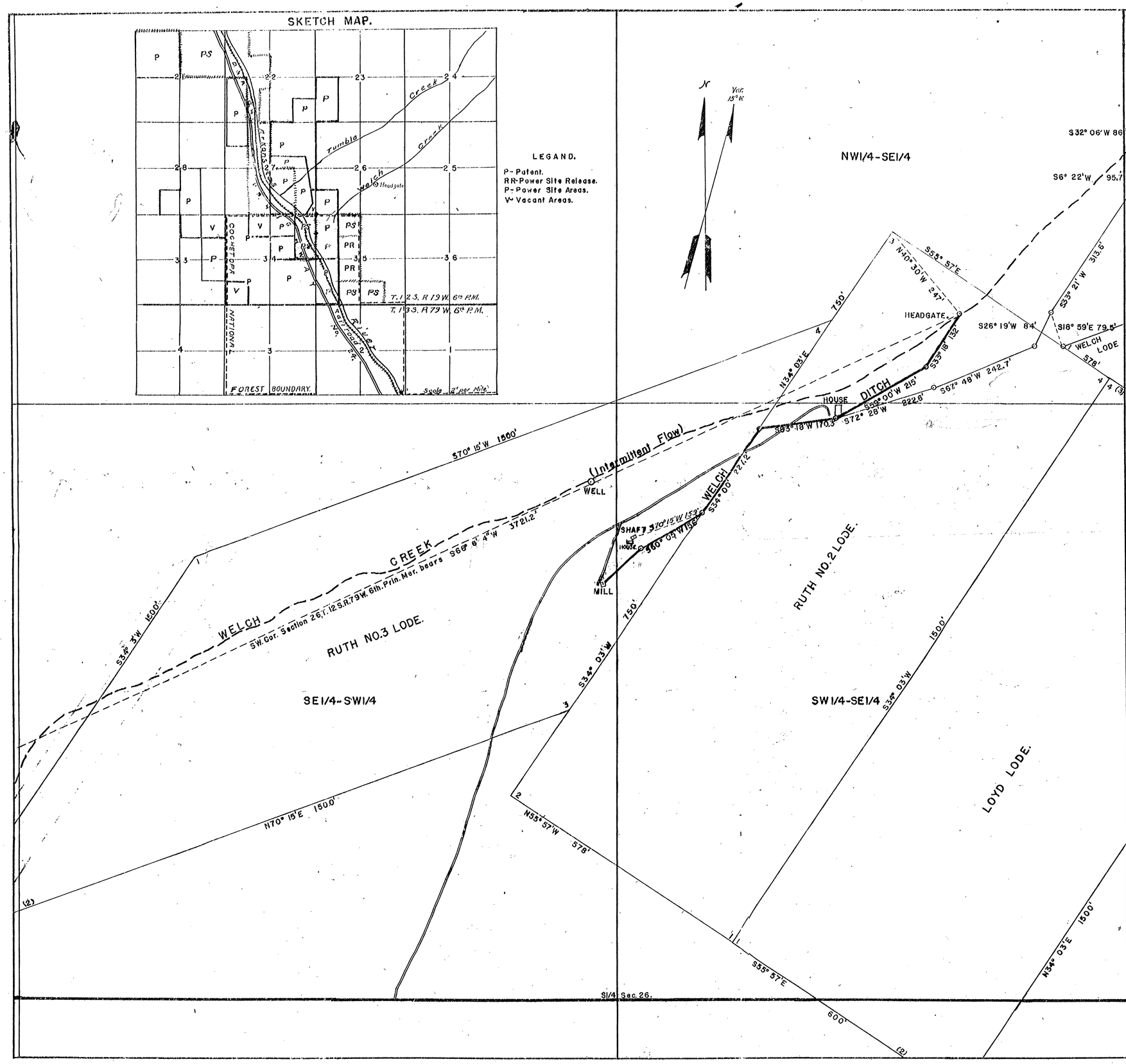
Hildreth Frost

This is a true and certified copy of of the original statement.
Dated: July 31, 1950

Dorothy Mapnell
Notary

(SEAL)


N.W. SECTION 35 - 12-79
N. 44° 56' W. 2777.4 FT.
N. 21° 27' W. 2967.94 FT.
N. 55° 57' W. 626 FT.
S. 50° 40' W. 1500 FT.
240
DISC. SHAFT
ENOS
S. 50° 40' W. 1500 FT.
N. 50° 40' E. 1500 FT.
1260
839
661
DISC. SHAFT
DELMA
S. 31° W. 1500 FT.
N. 55° 57' W. 602 FT.
IDA
1480
S. 55° 57' E. 602 FT.
DISC. SHAFT
N. 31° E. 1500 FT.
MILDRED No. 2
DISC. SHAFT
734
766
N. 55° 57' W. 600 FT.
DISC. TUNNEL
40
N. 50° 40' E
N. 48° 02' E. 600 FT.
870
S. 41° 58' E. 1500 FT.
S. 55° 57' E. 626 FT.
230 FT.
S. 55° 57' E. 602 FT.
S. 48° 02' W. 600 FT.
1460
DAVID No. 2
1500 FT.
DAVID
DISC. SHAFT
630
N. 50° 40' E.
N. 41° 58' W.
N. 48° 02' E. 600 FT.
S. 55° 57' E. 600 FT.
250
DISC. SHAFT
MIDELOY
DISC. SHAFT
540
1500 FT.
S. 41° 58' E
246.59 FT.
JOSEPHINE
N. 41° 58' W. 1500 FT.
JOSEPHINE SHAFT
No. 1
1250
540
DISC. TUNNEL
140
SOUTH 882.31 FT.
ALBERTSON ROAD
S. 48° 02' W. 600 FT.
150
DISC. SHAFT
S. 41° 58' E.
S. 41° 58' E
1500 FT.
1360
NORTH 882.31 FT.
N. 41° 58' W. 1500 FT.
MILDRED
1350
S. 48° 02' W. 600 FT.
ARKANSAS RIVER
D. & R. G. R. R.
LEADVILLE 24 MILES
HWY - 24
TOMICHI - BONANZA
CLAIMS OF
JOSEPHINE LODE MINING & DEVELOPMENT CO.
T. 12 S., R. 79 W. - 6TH P.M.
CHAFFEE COUNTY
COLORADO



MAP OF
WELCH DITCH
CHAFFEE COUNTY,
COLORADO.

IRRIGATION DIVISION NO. 2. WATER DISTRICT NO. 11.

COURSE TRUE. MAGNETIC VAR. 15°E. SCALE 100' PER INCH.

DITCH STATEMENT.

KNOW ALL MEN BY THESE PRESENCE: That the undersigned JOSEPHINE JUSTICE, claimant, whose postoffice address is BUENA VISTA, CHAFFEE COUNTY, COLORADO has caused to be located the WELCH DITCH, as hereinafter mentioned, has made these several statements relative thereto, and filed the same in compliance with the laws of the STATE OF COLORADO. The accompanying map shows the location of said ditch, and forms a part of this filing.

FIRST: The headgate is located at at a point on the south bank of WELCH CREEK from which it derives its supply of water, whence the SW Corner Section 26, Twp. 12 S. R. 79 W. 6th. Prin. Mer. bears S66° 06' 04" W 3721.2 feet.

SECOND:
The depth of said ditch at highwater line is 1 foot.
The width of said ditch at highwater line is 2 feet.
The bottom of said ditch is 1 foot.
The grade of said ditch is 5.28 feet per 1000 feet.
The length of said ditch is 900.5 feet.

THIRD: The carrying capacity of said is 4.3 cubic feet per second of time, for which claim is hereby made for domestic and mining purposes.

FOURTH: The estimated cost is $50.00.

FIFTH: Work was commenced by survey on the 1st, day of August 1940.

Josephine Justice
(Claimant.)

STATE OF COLORADO,
COUNTY OF CHAFFEE, } ss

JOSEPH M. CUENIN, being duly sworn on his oath, deposes and says that he is the engineer of the WELCH DITCH, that the survey of same and the map thereof were made by him and that such survey is accurately represented upon this map; that he has read the statements thereon, and that the same are true of his own knowledge.

Joseph M. Cuenin
(Surveyor.)

Subscribed and sworn to before me this 3rd day of September A.D. 1940.

My Commission Expires July 13, 1942.

Leon H. Webster
(Notary Public.)

Accepted for filing in the office of the State Engineer of Colorado on the 11th of OCTOBER 1940.

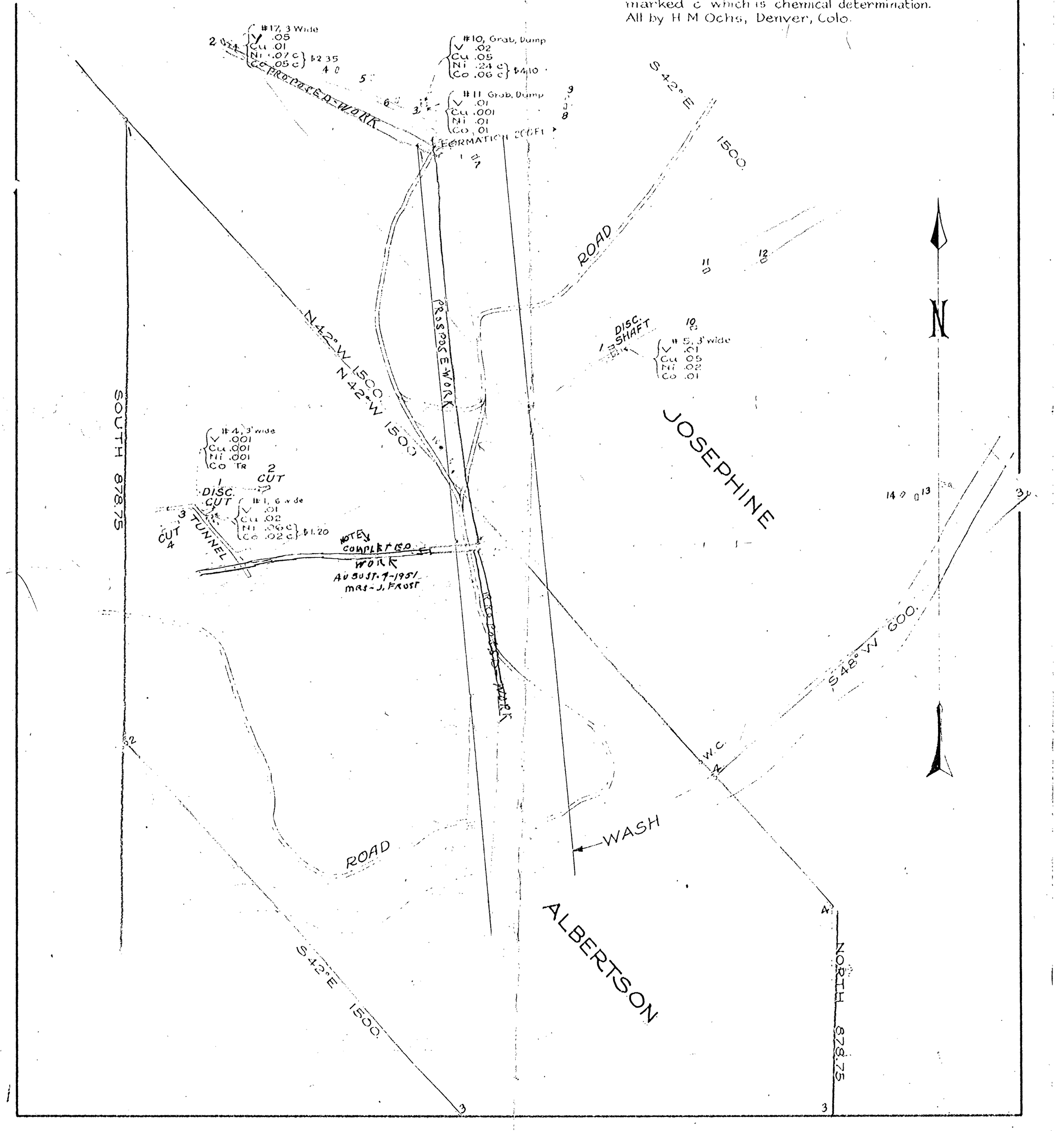
M. C. Hinderlider
(State Engineer.)

By C. C. Kennebeck
(Deputy.)

16864

ASSAY MAP
SURVEY No. 20723
JOSEPHINE & ALBERTSON LODES
CHAFFEE COUNTY, COLORADO

A.B. CROSLEY, MINERAL SURVEYOR

SCALE, 1 IN = 100 FT. JUNE, 1950

Qualitative spectrographic analysis unless marked c which is chemical determination. All by H M Ochs, Denver, Colo.