DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4478

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Box 431
Joplin, Missouri

RECEIVED
SEP 26 1956

Airmail

September 26, 1956

DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: DMEA Application
Helen H. Mining Company
Karcher mine, Picher Mining Field
Cherokee County, Kansas

Dear Sirs:

Forwarded herewith is the original of the cited Application received this morning. Two copies of it are forwarded by regular mail; one copy is retained by this Field Team office.

As you may know during recent years the Helen H. Mining Co. has been operated virtually as a subsidiary of the American Zinc Lead & Smelting Company whose district geologist in its Joplin office evidently prepared this Application.

I believe you will find some useful background data and pertinent bibliographical references in Bureau of Mines R. I. numbers 4415 and 4811.

Sincerely yours,

Clinton C. Knox

CCK/enn

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

encl.(1)
cc: DMEA Op.Com.(2) w/2 copies by reg.mail
Laurence, USGS,Knoxville
Harshman, USGS,Denver
Pend.Appl.file

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

RECEIVED SEP 23 1956

Not to be filled in by applicant

Docket No. 4478
Metal or Mineral Lead-Zinc
Date Received 9-28-56
Estimated Cost $20,763
Participation (Government %)

RECEIVED MINERALS TECHNOLOGY DIVISION SEP 26 1956 BUREAU OF MINES JOPLIN, MO.

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Helen H. Mining Company
P. O. Box 29
Baxter Springs, Kansas
(See attached report for following information data)

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you [illegible] to explore .....

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated September 26th, 1956

HELEN H. MINING COMPANY
(Applicant)

By Claud R. Jones Pres

President & General Manager

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

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

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MINERALS TECHNOLOGY
DIVISION

SEP 26 1956

BUREAU OF MINES
JOPLIN, MO.

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SEP 28 1956

HELEN H. MINING COMPANY
P. O. BOX 29
BAXTER SPRINGS, KANSAS

INFORMATION DATA TO ACCOMPANY APPLICATION
FORM NO. MF-103 FOR ZINC-LEAD EXPLORATION
PROJECT ON MARCHER-STEPHENS LEASES, CHEROKEE CO., KANSAS

1. The Applicant

(a) Name of Applicant -

Helen H. Mining Company
P. O. Box 29
Baxter Springs, Kansas

(b) The Helen H. Mining Company is a corporation organized under the laws of the State of Oklahoma in the year 1950, and is qualified to transact business in the State of Kansas.

(c) The names and addresses of the corporation officers are as follows:

Claud A. Jones, President and General Manager
101 N. St. "F.W."
Miami, Oklahoma

Richard Kennedy, Vice President
R. Kennedy & Company
Picher, Oklahoma

Gilbert F. Reynolds, Secretary & Treasurer
101 F St. N.W.
Miami, Oklahoma

- -

2. GENERAL

This application filed in quadruplicate with the Defense Minerals Exploration Administration, Department of Interior, Post Office Building, Joplin, Missouri.

- -

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[illegible] Co. [illegible], P. O. Box 25, [illegible], [illegible]

3. APPLICANT'S PROPERTY [illegible]

(a) The areas to be explored lie on the following contiguous tracts of land.

PROPERTY	DESCRIPTION
L.G. Karcher etal.	SW¼, Sec.34-T34S-R23E, Cherokee Co., Kansas
Giulvezan & Koenig	NW¼, Sec.3-T35S-R23E, Cherokee Co., Kansas

(b) Both of the above land parcels contain active mines. The mining operation on the Karcher et al. tract is known as the Karcher mine, and the operation on the Giulvezan and Koenig tract is known as the Stebbins mine.

(c) These tracts are held under mining lease agreements between the land owners and the Allen C. Mining Company. These leases are ten year contracts, with rights for renewal, and are both in good standing. A summary of the leases is as follows:

LESSOR	DATE	ROYALTY		ACRES
L. G. Karcher et al.	2/16/52	10%		160
Giulvezan & Koenig	5/14/45	12½%		160
			Total	320

(d) Copies of the Karcher, and Giulvezan and Koenig, leases are appended to this report.

(e) Not applicable.

(f) Not applicable.

[illegible] . MINING COMPANY, P. O. BOX 3, [illegible] SPRINGS, KANSAS

4. PHYSICAL DESCRIPTION

(a) HISTORY OF PROPERTY - - Mining operations on the Stebbins tract were first commenced during the late 1920's by the Underwriters Lead and Zinc Company. This organization mined a limited tonnage from the extreme southeastern portion of the tract. Mining activity was later carried on by the Consolidated Lead and Zinc Company, but all operations were suspended during the depression. The property remained idle from that time until March, 1942, when the C. M. & E. Mining Company of Joplin, Missouri acquired the Stebbins and Karcher leases, and resumed mining activity. The C. M. & E. Company commenced mining on the Stebbins lease and extended the mine workings northward on to the Karcher lease. They operated these properties successfully until March, 1952, when they sold these mines to the Helen M. Mining Company. The Helen M. Mining Company has carried on continuous mining and development work to the present time. During this period a very extensive underground development program has been followed, and a new shaft was sunk on the Karcher tract in order to expand production toward the north.

EXPLORATION AND DEVELOPMENT - - Exploratory drilling was begun in 1923 and has continued intermittently to the present time. During this period a total of 217 churn drill prospect holes have been drilled on the Stebbins tract, and 168 prospect holes have been drilled on the Karcher tract. The Stebbins drilling is largely confined to the eastern one-half of the property, and the Karcher drilling is chiefly on the south one-half of its area. Large areas of unexplored land remain to be prospected for future production possibilities. A table showing past prospect drilling is as follows:

DRILL HOLES STEBBINS TRACT

COMPANY	TRACT	DRILL HOLES	DATE
U. E. L.	Stebbins	10	1923-1924
U. E. L.	"	14	1926-1927
U. S. L.	"	10	1924-1931
?	"	180	1923- ?
C. M. & E.	"	2	1948-1948
Helen M.	"	1	1956
	TOTAL	217	

No. 4 Continued
HELEN H. MINING COMPANY, P. O. BOX 29, [illegible], KANSAS

DRILL HOLES KARCHER TRACT

COMPANY	TRACT	DRILL HOLES	DATE
?	Karcher	26	?
?	"	53	1925-1929
?	"	39	1925-1926
Eagle-Picher	"	23	1933-1934
Century Zinc	"	6	1937-1937
Peck	"	3	1939-1939
U.S. Bureau Mines	"	4	1947-1947
C.K. & E.	"	14	1947-1948
Helen H.	"	1	1955
	TOTAL	168	

In addition to the above churn drill prospect holes the Helen H. Mining Company has been conducting a very extensive underground prospecting program utilizing long-hole underground drills. This work was commenced in 1954 and has been continued to the present time with more than 175 drill holes being completed. As a result of the C. K. & E. churn drilling, plus the long-hole underground prospecting, sufficient ore reserves were found on the Karcher tract to justify the sinking of the Karcher shaft. This shaft was commenced in January, 1955, and was placed in operation in April, 1955.

DESCRIPTION OF MINE WORKINGS - - The mine workings extend in a north - south direction along the eastern side of the tracts under lease for a distance of more than three-quarters of a mile. Both properties, with the exception of the extreme northwestern portion of the Karcher mine, are completely mechanized and are equipped for truck haulage. The extreme northwestern portion of the Karcher mine is entirely in a development stage, and is being mined with drag loading utilizing a rope haulage system equipped with cars and cans for ore transportation to the shaft. This development area will be equipped for mechanized mining as soon as conditions warrant.

The Stebbins mine is presently equipped for a maximum monthly production of 10,000 tons. The Karcher mine is now undergoing a development period and is equipped to produce 4,000 tons per month. Equipment is available to increase the production at the Karcher shaft to 7,000 tons per month if additional working places can be delineated.

HELEN M. MINING COMPANY, P. O. Box 39, [illegible], KANSAS

Both the Stebbins and Karcher mines are fully accessible for examination purposes. Only one small area, located in the southwestern corner of the Karcher mine, is under water, and this area can be easily dewatered. Both of the mines have shafts completely equipped for hoisting purposes, the Stebbins shaft, located in the SE¼, NE¼, NW¼, Section 3, is 352 feet deep; and the Karcher shaft, located in the SE¼, NW¼, SW¼, Section 34, is 396 feet deep. These shafts are connected underground by mine workings, and provide adequate ventilation for the greater part of both mines.

Subsurface water is of no great concern with pumping facilities to handle a maximum discharge of 1500 gallons per minute being present on the property. Pumping requirements to keep the mines dewatered average approximately 300 gallons per minute.

(b) Production - - The Stebbins property was operated for a short time during the late 1920's by the Consolidated Lead and Zinc Company, and their production records are not presently available. Later in 1942 the Stebbins mine, and subsequently the Karcher mine, was reopened by the C. K. E. Company. This group operated these mines from March, 1943 to February, 1952, during which time they produced 336,398 tons of ore having a recoverable grade of 6.43% (60% Zn.) and 0.28% (80% Pb.). The C. K. & E. Company sold their interest in these properties to the Helen M. Mining Company in March, 1952, and they have been operated by the Helen M. organization to the present time. The production by the Helen M. Company for both the Stebbins and Karcher mines from March, 1952 to July, 1956 totals 170,068 tons of ore, having a recoverable grade of 5.75% (60% Zn.) and 0.16% (80% Pb.). A breakdown of this total production by properties and by months is shown in table below.

PRODUCTION STATISTICS

STEBBINS-KARCHER LEASES (COMMINGLED)
MARCH 1, 1952 - JANUARY, 1955

DATE	LEASE	TONS	RECOVERABLE GRADE 60% Zn.	80% Pb.
March, 1952	Stebbins-Karcher	1,257	3.79	0.53
April, 1952	" "	9,250	4.34	0.36
May, "	" "	9,758	4.97	0.23
June, "	" "	10,759	4.55	0.17
July, "	" "	10,511	3.75	0.17
Aug. "	" "	7,280	4.59	0.45
Sept. "	" "	6,565	3.39	0.44
Oct. "	" "	1,692	3.44	0.12
Nov. "	" "	2,955	3.71	1.13
Dec. "	" "	4,234	3.29	0.40
Jan. 1953	" "	1,160	3.13	0.17
Feb. "	" "	988	3.08	0.44
Oct. 1954	" "	2,633	3.61	1.15
Nov. "	" "	3,595	4.27	- -

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SEP 28 1956

[illegible] MINING COMPANY, P. O. [illegible], [illegible], [illegible]

PRODUCTION [illegible]
APRIL, 1955-MAY, 1956

DATE		MINE	TONS	RECOVERABLE GRADE 60% Zn.	30% Pb.
April,	1955	Karcher	1,330	11.31	No Lead
May,	"	"	1,456	7.47	" "
June,	"	"	3,059	7.98	" "
July,	"	"	3,026	9.26	" "
Aug.	"	"	3,317	6.05	" "
Sept.	"	"	3,947	6.11	" "
Oct.	"	"	3,352	5.62	" "
Nov.	"	"	3,918	5.33	" "
Dec.	"	"	3,680	5.36	" "
Jan.	1956	"	3,533	5.95	" "
Feb.	"	"	3,763	9.77	" "
Mar.	"	"	3,941	[illegible].37	" "
April,	"	"	4,725	14.38	" "
May,	"	"	3,370	12.27	" "
June,	"	"	3,040	8.24	" "
July,	"	"	3,736	9.67	" "
TOTALS			57,053	8.138	

TOTAL PROFIT [illegible] MINE-[illegible] IN [illegible]
[illegible] - [illegible] COMPANY
([illegible], 1937-[illegible], 1956, INCL.)

DATE	MINE	TONS	[illegible]	[illegible]
3/53-1/55	Stebbins & Karcher	11,073	.054	1.323
1/55-7/56	Stebbins	57,355	0.020	- -
3/55-7/56	Karcher	57,053	0.138	- -
TOTALS		176,068	1.765	0.164

ORE RESERVES - - The only measurable ore reserves consist of ore small, detached ore blocks along the Stebbins tract, both of which are situated 500 feet west of present mine workings. These ore blocks contain 22,000 tons and 5,000 tons respectively, and have an estimated recoverable grade of 2% (Zn. Pb.). However, due to their isolated positions, these ore blocks are not part of the present production plan, since development thereon would be prohibitive. These ore occurrences were revealed by scattered drilling in the areas lying west of the mine, and show the continuation of ore-bearing round in that direction.

(b) [illegible]

(c) [illegible]

(d) [illegible]

[illegible]

[illegible]

(e) [illegible]

[illegible]

[illegible] itself is [illegible] erratic and spotty in [illegible], but is associated with zones of [illegible] [illegible] or silicification, [illegible]. [illegible] of detailed geological studies [illegible] [illegible] [illegible] to narrow, sinuous runs of [illegible], or [illegible] [illegible] [illegible]. These mineral zones range from a few feet to 100 feet in width, from [illegible] to [illegible] feet in [illegible], and [illegible] thousand feet in length. They appear to trend [illegible], [illegible] [illegible] [illegible] were developed with little regard to the [illegible] regional structural pattern.

The outline of the [illegible], and their probable extensions is shown on the [illegible] map of these properties.

[illegible] -- The major portion of the mining on these tracts [illegible] [illegible] by the [illegible] Company, [illegible] Company. [illegible] in order to provide a sufficient number of ore-loading areas for the use of mining, [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] -- [illegible] [illegible] as (1) [illegible] of [illegible] alteration and (2) [illegible] [illegible]. [illegible] exploration. [illegible] have been prospected with [illegible] excellent results, however this type of prospecting is limited to a [illegible] [illegible] to [illegible] feet. In order to [illegible] mining [illegible] prospecting program is [illegible].

Surface prospecting of the [illegible] has been very limited [illegible] (1) [illegible] are [illegible], (2) lack of [illegible] water, and (3) the limited extent of [illegible] and occurrences. [illegible] these [illegible] have been largely [illegible] the development work [illegible] by the [illegible] through the [illegible] of [illegible] shaft, [illegible] the installation of [illegible] drilling facilities. [illegible] [illegible] the development [illegible] the geology of [illegible] [illegible] [illegible]

[illegible] U. S. [illegible], [illegible]

results of [illegible] long- [illegible] previously drilled [illegible] across [illegible]. As a result [illegible] [illegible] has been [illegible] [illegible] occurrence, [illegible] collections of [illegible] subsurface [illegible] have been obtained. These are [illegible] on the accompanying [illegible].

Several [illegible] are leases have [illegible] [illegible] past years [illegible] Discoveries have [illegible] previous [illegible] volumes of the Lawrence [illegible] and Royalty [illegible], [illegible] Lime Density. [illegible] additional [illegible] are [illegible] in these areas [illegible] U. S. [illegible], [illegible] described in the [illegible] by the Bureau, [illegible]. [illegible] are leases discovered [illegible] on the [illegible], situated one [illegible] of the [illegible] Lawrence [illegible]; [illegible] east lying on [illegible], [illegible], [illegible], [illegible], R. [illegible] Stover [illegible], [illegible] located approximately one and one-half miles northwest from the Lawrence [illegible] are occurrences. [illegible], are not of sufficient [illegible] warrant the expense necessary for [illegible] [illegible] [illegible] are leases to [illegible] rest of the [illegible], and will [illegible] further surface [illegible] is done.

The [illegible] is planned to [illegible] surface [illegible] zoological [illegible] of this [illegible] further [illegible] [illegible] [illegible].

(7) [illegible] are [illegible] by [illegible] [illegible] between the [illegible] situated [illegible] Kansas; [illegible] of these [illegible] The mine are from [illegible] the [illegible] Central Mill [illegible] Oklahoma. [illegible] Eagle-Picher [illegible] Mill.

[illegible]

(c) [illegible]

[illegible]

(e) [illegible]

(f) [illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	X

[illegible]

[illegible]

[illegible] . [illegible] & [illegible], [illegible], [illegible]

possible extension projects, and the tentative drill site locations for the proposed exploration projects. It will be noted that the outline of the altered rock areas has been extended into unprospected portions of tracts. This has been done in order to show possible connections with other known areas of alteration, and is not to be considered as being based on factual information.

(c) The exploration project will start within 30 days and will be completed within six months following the approval of our exploration contract. It is planned to utilize two drill rigs for the duration of the project, which should complete four drill holes, or [illegible] of drilling, each month.

(d) The proposed exploration project will be carried on by the Helen G. Mining Company, an organization that has been actively engaged in mining operations in the Tri-State district for the last six years. This company is under the direction of Mr. Claud A. Jones, who has operated mines in the Tri-State District for the last 35 years. Former companies of which Mr. Jones was President and General Manager, include the Davis Mining Company, Davis Mic Chief Mining Company, and the Larsha [illegible] Mining Company.

The Helen G. Mining Company will also have the services of the American Zinc, Lead & Smelting Company's Tri-State District personnel for engineering and geological assistance in this project. The personnel under whose management the project will be supervised is as follows:

Name	Title
Claud A. Jones	President & General Manager, Helen G. Mining Co.
John Johnson	District Manager, American Zinc, Lead & Smelting Co.
Don R. Stewart	Engineer-Geologist " " " "
J. V. Metzelard	" " " " " "

[illegible] . [illegible] . [illegible] . [illegible]

6. ESTIMATED COST OF PROJECT

(a) Independent Contracts - -

Churn Drill Prospect Holes,
22 Drill Holes, Average Depth 400 feet.
8800 feet @ $11.95* $17,160.00

(b) Labor, Supervision, Consultants - -

Supervision,
Field Geologist, 1/3 time 6 months, 1,200.00
Taxes & Insurance (Payroll) [illegible]
Travel Expense 375.00

Sampling and Assaying,
Commercial Assaying,
440 Zinc-Lead Assays, @ $2.75 1,210.00

Engineering,
Monthly surveys and progress reps, @$50.00 100.00

(c) Operating Materials and Supplies - - None

(d) Operating Equipment - - None

(e) Rehabilitation and Repairs - - None

(f) New Buildings, Improvements, Installations - - None

(g) Miscellaneous - - None

(h) Contingencies - - 500.00

Total Cost of Project $20,7[illegible].00

Unit Cost Per Foot of Drilling 2.36

* Note * = Standard contract price of drilling companies in the Tri-State District

[illegible] [illegible], [illegible] [illegible], [illegible]

7. [illegible]

(a) The [illegible] Mining Company is prepared to pay [illegible] of the exploration costs, which in this case is a nine-foot [illegible], at a rate of 50 percent of the total allowable cost, in accordance with the regulations on Government participation (Sec. 7, MRA No. 1).

(b) The Company will furnish its share of the allowable costs in the form of money.

The [illegible] Mining Company is also prepared to assume all obligations of the lessors that may pertain to a lien over the land to secure the payment of the Government's percentage reality; and will enter into an agreement with the Government to cover this requirement if a certification of discovery is made.

[illegible] Mining Company
September 23, 1936

[illegible]

[illegible]

Stebbins Case

1. [illegible]

2. [illegible]

✓ 3. [illegible]

✓ 4. [illegible]

MINING LEASE

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This lease, made and entered into on this 16 day of February, 1952, by and between Isabel Giulvezan and George Giulvezan, her husband, of St. Louis, Missouri and Mary Koenig and Paul Koenig, her husband, of St. Louis, Missouri, as First Parties, hereinafter referred to as Lessors, and C. K. and E. Mining Company, a corporation, whose office and principal place of business is _____, as Second Party, hereinafter referred to as Lessee, Witnesseth:

1. The said Lessors, in consideration of the covenants and agreements hereinafter set out, to be kept and performed by the Lessee, its successors and assigns, and upon the compliance in good faith by Lessee of the conditions herein contained, does hereby lease unto said Lessee, its successors and assigns, for the mining of lead and zinc ores, for the term of ten (10) years, beginning on the 17th day of April, 1952 at the time of the expiration of the existing lease on said property, the following described land situate in Cherokee County, Kansas, to-wit:

The Northwest Quarter of Section 3,
Township 35 South, Range 23 East.

2. This lease is executed by Lessors and accepted by Lessee on condition that the Lessee shall commence in good faith the mining and milling of lead and zinc ores from said land and continue to operate same in a good and minerlike manner continuously except as hereinafter provided, and it is further agreed that if at the end of said ten-year period lead and zinc ores are being produced in paying quantities that then at that time said lease shall be extended so long as lead and zinc ores are produced in paying quantities in accordance with the other terms of this lease.

3. The Lessors give and grant unto Lessee for said term or terms, as herein provided, the exclusive right and license to prospect and mine said land for lead and zinc ores, together with the right and license to prepare for market either on or off said premises, as hereinafter provided, and

Mining Lease

remove and sell all lead and zinc concentrates produced from said ores, with the right to construct buildings or other structures and to make excavations, openings, stockpiles, dumps, ditches, drains, roads and other improvements upon said premises, including the use of water in said operations and to place such machinery thereon as Lessee may deem necessary for the efficient prospecting and mining of said land and treating the ores mined thereon, with the right in Lessee to remove all property so placed thereon at any time during the term hereof or within sixty (60) days after the termination of this lease or any extension thereof, or the termination of operations through the shaft on this land from adjoining lands, as herein provided, provided that if Lessee has a concentrating plant on said land at the termination hereof, as hereinabove provided, the Lessee shall have six months after the termination of this lease or any extension thereof to remove said concentrating plant.

4. If ores and minerals mined and raised on this land are milled on this land, Lessee shall place, maintain and operate upon said land sufficient machinery and equipment, including flotation plant, to efficiently mill all ores mined and raised, and prepare for market the concentrates recovered therefrom.

5. Lessee shall have the right to remove ores and minerals mined from this land and mill the same over a mill located on other land. If such mill is equipped with automatic wieghing and sampling device such ores shall be weighed, assayed, treated, handled and concentrates determined, sold and accounted for in the manner which is then or may be thereafter established as standard method and practice thereat, subject to the following provisions to be effective so long as ores are being mined and commingled from this and the Karcher land:

> Second party (Lessee) shall have the right and privilege of mixing and commingling said mine-run dirt from the land herein described with the mine-run dirt from the "Karcher" land fro the purpose of milling the same

over the mill of Helen M. Mining Company and the lead and zinc concentrates arising from the milling of said combined dirt shall be divided between the land herein described and the Karcher land in the proportion as set forth in the example hereinafter set forth.

The rock tonnage mined from each property shall be ascertained by Lessee in its underground operations and the recovery in the mixed feed (common milling unit) shall be proportioned in the ratio of recoveries as actually made from the mined rock from each property during the period of March, 1948 to December, 1948, inclusive, and by the formula set forth in the following example:

"For an example we will assume that for a period of one month a mixed tonnage was mined and milled as a unit.

This Lease (Stebbins)	2,000 rock tons
Karcher	3,000 rock tons
Combined	5,000 rock tons

Zn. Cts. Recovery	5.0%	250 tons Zn. Cts.
Pb. Cts. Recovery	0.50%	25 tons Pb. Cts.
Total Cts. Recovery	5.50%	275 tons cts.

"On the basis of the recovery which existed from March to December, inclusive, 1948, we have the following:

ZINC CONCENTRATES

This lease (Stebbins)	2,000 x 0.06591..	131.82..	37.71%
Karcher	3,000 x 0.07258..	217.74..	62.29%
Combined	5,000 x 0.06991xx	349.56..	100.00%

The divisions of concentrate based on 5,000 tons of rock combined from both leases and milled as a unit, having 5.0% Zn. concts., recovery as follows:

This lease	2,000 x 0.04714*...	94.275	(37.71% of 250 tons)
Karcher	3,000 x 0.05191**..	155.725	(62.29% of 250 tons)
Combined	5,000 x 0.05000....	250.000	(100.00% of 250 tons)

* 94.275 tons divided by 2,000 rock tons..4.714% recovery
**155.725 tons divided by 3,000 rock tons..5.191% recovery

Therefore the mixed tonnage is divided as follows:

	Rock tons	Rec. Zn. Cts.	Tons Zn. Cts.
This lease	2,000	4.714%	94.275
Karcher	3,000	5.191%	155.725
Combined	5,000	5.000%	250.000

LEAD CONCENTRATES

Using the same method of calculation for lead concentrates we have the following:

This lease	2,000 x 0.00197 ...	3.94	21.88%
Karcher	3,000 x 0.00469 ...	14.07	78.12%
Combined	5,000 x 0.00360 ...	18.01	100.00%

On the basis of recovery which existed from March to December, inclusive, 1948, we have the following:

This lease	2,000 x 0.00273* ..	5.47	(21.88% of 25 tons)
Karcher	3,000 x 0.00651** ..	19.53	(78.12% of 25 tons)
Combined	5,000 x 0.00500 ...	25.00	(100.00% of 25 tons)

* 5.47 tons divided by 2,000 rock tons.. 0.2735% recovery
**19.53 tons divided by 3,000 rock tons.. 0.6510% recovery

Therefore the mixed tonnage is divided as follows:

	Rock tons	%Rec. Pb. Cts.	Tons Pb. Cts.
This lease	2,000	0.2735%	5.47
Karcher	3,000	0.6510%	19.53
Combined	5,000	0.5000%	25.00

In future mining operations mine-run dirt from this land may be commingled with mine-run dirt from adjacent or other lands in which event the above formula for payment of royalty may be used if applicable or equitable. If such formula is not applicable or equitable the parties hereto will agree upon the basis for the determination of lead and zinc concentrates from the respective mining properties involved.

6. It is further agreed that in the event prospecting, development or mining operations are not being conducted on this lease, and ores are removed through the shaft on this land from the Karcher or other adjacent land, the Lessors shall be paid for the use of said shaft a one percent (1%) royalty for all concentrates which may be recovered from ores removed from said Karcher or other adjacent lands through the shaft on this land.

7. The Lessors release and relinquish to Lessee the title to all chats, tailings, sludge, slime and sand produced from milling operations on land other than leased herein, and in consideration for such release and relinquishment of title Lessee agrees to pay to Lessors monthly two cents (2¢) for each ton of chats, tailings, sludge, slime or sand produced from such milling operations, to be computed by deducting from the total tonnage of ores and minerals mined and removed from this land and milled, the total tonnage of concentrates recovered and sold therefrom. Each such settlement shall cover the preceding

calendar month, and shall be accompanied by statement showing the total tonnage of ores and minerals removed for milling and the total tonnage of concentrates recovered therefrom.

8. Lessee shall sell all concentrates produced and shall pay to Lessors a royalty of twelve and one-half percent (12½%) of the gross proceeds of all sums received for lead and zinc concentrates mined, produced and sold from said land. Settlements on sales of ore and concentrates shall be made to Lessors at the Baxter State Bank of Baxter Springs, Kansas, with duplicate sales and settlement sheets on all concentrates sold. If the concentrates sold are produced from milling operations wherein ore and minerals are not commingled before milling, all checks, cash, drafts or other credits for ores sold from this land shall be made payable and delivered to Baxter State Bank of Baxter Springs, Kansas and said bank shall make distribution thereof, paying to Lessors twelve and one-half percent (12½%) royalty hereinabove reserved. If the concentrates have been commingled, as hereinabove provided, then Lessee shall cause to be paid to the said Baxter State Bank of Baxter Springs, Kansas, Lessors' pro-rata share of all of said concentrates sold on the basis of 12½% royalty, as computed under paragraph 5 hereof.

9. Mining operations shall, after the date of taking effect of this lease, be carried on continuously and shall not be suspended at any time to exceed 30 days without the written consent of the Lessors, strikes, accidents and other conditions beyond the control of Lessee alone excepted. "Mining operations" within the meaning of the paragraph and this lease shall include the hoisting of mine-run dirt through the shaft located upon the within described premises for the Karcher and other lands.

10. The mining operations shall be carried on in a miner-like and workmanlike manner as the same are usually conducted in the Tri-State District.

11. The Lessors or their agent or agents shall have the right to enter upon said land, or upon any land where ores are taken from the land leased herein to be treated or milled, for the purpose of inspection and examination, not unnecessarily interfering with the operations of Lessee.

12. Lessee shall keep a correct record of all minerals mined, the rock tonnage, the kind and weights thereof, to whom sold, and the price received therefore, which books and accounts shall be open to the Lessors at all reasonable times, or Lessee agrees to furnish Lessors any such information on written demand.

13. Lessee shall have the right to mine and remove ores and minerals from other lands through underground drifts or workings on this land and raise said ores and minerals through the shaft or shafts on this land.

14. If upon the termination of this lease Lessee is mining upon land adjacent hereto and raising ores or minerals through the shaft or shafts on this land, for the use thereof Lessors shall have and receive one per cent (1%) of the gross proceeds from the sale of concentrates produced from the ores raised through the shaft or shafts on this land, payable out of and as and when distribution of such settlements are made, provided the privilege to use said shafts and underground workings shall continue after the termination of this lease so long as Lessee shall continue to raise ores through said shaft or shafts, but not beyond a period of ten (10) years from the termination of this lease.

15. Lessee shall pay all reasonable damages to the growing crops upon said land caused by the prospecting or drilling operations of Lessee.

16. Lessee shall have the right to use so much of the surface of the land as may be necessary to carry on prospecting or mining operations as herein contemplated; all other surface rights are reserved.

17. It is agreed that any notice required by this lease or by law to be given by either party to the other may be given by registered mail to the other party at the address hereinabove set out, or to such other person or persons or such other address as may be designated in writing by the party upon whom such notice is to be given.

18. In the event Lessee shall fail to fulfill or comply with any of the terms or conditions of this lease in good faith at any time, Lessor may give thirty (30) days written notice specifying particularly the violations complained of and if such default or violation is not removed or remedied within ninety (90) days thereafter the Lessors may at their option declare this lease forfeited and terminated.

19. Lessee may at any time, if Lessee desires so to do, pay all royalty then due, surrender and terminate this lease by giving seven (7) days' written notice of its intention so to do, provided that at said time it shall execute and deliver to Lessors a good and sufficient release thereof, and thereupon Lessee shall be released from all further obligations hereunder.

20. All the terms and conditions of this lease shall be binding upon and inure to the heirs, successors, legal representatives and assigns of the respective parties hereto.

21. It is represented and agreed that Lessors have the sole and exclusive title to the property herein leased and the right to lease same for the term and on the conditions herein set forth and that this lease shall not be considered as an extension, renewal or modification of any existing leases on said property.

IN WITNESS WHEREOF the parties hereto have executed this lease the day and year first above written.

(S) Isabel Giulvezan
Isabel Giulvezan

(S) George Giulvezan
George Giulvezan, her husband

(S) Mary Koenig
Mary Koenig

(S) Paul Koenig
Paul Koenig, her husband

LESSORS

C. K. and E. Mining Company

By (S) G. L. Childress
G. L. Childress Its President

Attest:

(S) F. W. Evans
Its Secretary

LESSEE

State of Missouri)
City of St. Louis) ss

Be it remembered, that on this 16 day of February, 1952, before me a Notary Public personally appeared Isabel Giulvezan and George Giulvezan, her husband, who are personally known to me and known to me to be the same persons who executed the foregoing instrument, and such persons duly acknowledged the execution of the same. In witness whereof, I have hereunto set my hand and affixed my official seal the day and year above written.

(S) Charles W. Hennesey ?
Notary Public

My commission expires: Nov. 7, 1955

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State of Missouri }
City of St. Louis } ss

Be it remembered, that on this 16 day of February, 1952, before me a Notary Public personally appeared Mary Koenig and Paul Koenig, her husband, who are personally known to me and known to me to be the same persons who executed the foregoing instrument, and such persons duly acknowledged the execution of the same. In witness whereof, I have hereunto set my hand and affixed my official seal the day and year above written.

(S) Charles W. Hennesey ?
Notary Public

My commission expires: Nov. 7, 1955

State of Missouri }
County of Jasper } ss

Be it remembered, that on this 18 day of February, 1952, before me a Notary Public personally appeared G. L. Childress, president of C. K. & E. Mining Company, a corporation of the State of Missouri who is personally known to me and known to me to be the president of said corporation, and the same person who executed the foregoing instrument, and he duly acknowledged the execution of the same, for and on behalf of and as the act and deed of said corporation. In witness whereof, I have hereunto set my hand and affixed my official seal the day and year above written.

(S) Rosa Wagner
Notary Public

My commission expires: February 13, 1954

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

That the C. K. & E. Mining Company, a corporation organized and existing under and by virtue of the laws of the State of Kansas, in consideration of the sum of One Dollar ($1.00) and other valuable considerations to it in hand paid, the receipt and sufficiency of which is hereby acknowledged, has and by these presents does grant, bargain, sell, assign and set over unto the Helen H. Mining Company, a corporation organized and existing under and by virtue of the laws of the State of Oklahoma, its successors and assigns, all the property and assets of every kind and character held and owned by the C. K. & E. Mining Company on the 6 day of March, 1952, and in particular, but not by way of limitation, does the C. K. & E. Mining Company grant, bargain, sell and assign and set over unto the Helen H. Mining Company, its successors and assigns, that certain mining lease dated the 2nd day of March, 1951, wherein Phillip Bulger and Jessie Bulger, his wife, of Joplin, Missouri, Robert E. Bulger and Goldie F. Bulger, his wife, of Cherokee County, Kansas, and Anne Scheidecker of Palo Alto, California, are lessors and C. K. & E. Mining Company its lessee and covering the following described land in the State of Kansas, County of Cherokee, to-wit:

A Southeast Quarter (SE¼) of Section Thirty-Four (34), Township Thirty-four (34) South, Range Twenty-three (23) East,

also, a certain mining lease dated the 16th day of February, 1952, wherein Isabel Giulvezan and George Giulvezan, her husband, of St. Louis, Missouri, and Mary Koenig and Paul Koenig, her husband, of St. Louis, Missouri, are parties of the first part, and the C. K. & E. Mining Company is party of the second part, and covering the following described land in Cherokee County, Kansas, to-wit:

Stebbins

B Northwest Quarter (NW¼) of Section Three (3) Township Thirty-five (35) South, Range Twenty-Three (23) East,

also, that certain mining sublease dated the 17th day of April, 1942, wherein Lester Stebbins is party of the first part, and K. L. Koelker is party of the second part, and covering the following described land in Cherokee County, Kansas, to-wit:

C East Half (½) of the Northwest Quarter (NW¼) of Section Three (3) in Township Thirty-Five (35) South, Range Twenty-three (23) East,

also, that certain mining lease dated May 14, 1945, wherein T. L. Robinson, G. E. Robinson and L. A. Wetzel are parties of the first part and C. K. & E. Mining Company is party of the second part, and covering the following described land in Cherokee County, Kansas, to-wit:

Kerscher

Southwest Quarter (SW¼) of Section Thirty-Four (34) in Township Thirty-Four (34) South, Range Twenty-Three (23) East of the 6th principal Meridian,

together with all amendments, modifications and supplements thereto to the end that the Helen H. Mining Company, assignee, shall enjoy all the rights and privileges and appurtenances thereunto belonging held and owned by the C. K. & E. Mining Company.

Also, all of the mining machinery and equipment and personal property located on the above described leases or elsewhere, both above and below ground, and owned by the C. K. & E. Mining Company.

To Have and To Hold the same unto the Helen H. Mining Company, its successors and assigns, forever, free and clear of all liens and encumbrances of every kind and character.

IN WITNESS WHEREOF, the C. K. & E. Mining Company has caused this instrument to be executed this 6th day of March, 1952, by its proper officers being first hereunto duly authorized.

C. K. & E. MINING COMPANY

By (S) Claud R. Jones
President

ATTEST:

John E. King (S)
Secretary

STATE OF OKLAHOMA)
) SS
COUNTY OF OTTAWA)

Be it remembered, that on this 6th day of March, 1952, before me the undersigned Notary Public within and for said County and State, personally appeared Claud R. Jones, President of the C. K. & E. Mining Company, a corporation, who is personally known to me and known to me to be the President of said corporation, and the same person who executed the foregoing instrument and he duly acknowledged the execution of same for and on behalf of and as the act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

(S) Carl Shroyer
Notary Public

My commission expires:

Dec. 19, 1955

MINING LEASE

THIS LEASE, Made and entered into this 14th day of May, 1945, by and between H. G. Karcher of Kansas City, Missouri, and T. L. Robinson, C. F. Robinson and L. A. Wetzel of Miami, Oklahoma, hereinafter designated as lessors, and C. K. and E. Mining Company, a corporation, hereinafter designated as lessee;

WITNESSETH: That the lessors, in consideration of the sum of One Dollar ($1.00), paid by lessee, the receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained to be kept and performed by lessee, does hereby lease unto the lessee, for mining of lead and zinc concentrates, for the term of TEN YEARS from the date hereof, the following described land situated in Cherokee County, State of Kansas, to-wit:

The Southwest Quarter (SW¼) of Section Thirty-four (34) Township Thirty-four (34) of Range Twenty-three (23) East;

with the right to construct and maintain thereon all necessary or convenient buildings, structures, railroad tracks and roads, and to have and maintain in and upon said land all necessary or convenient machinery, appliances, equipment and improvements and to re-build and replace the same from time to time and to remove the same at any time during or within a reasonable time after the termination of this lease.

1. Lessee shall have the right to prospect said land by drilling, and in which event, lessee shall furnish lessors, on or before the 10th day of each calendar month, true and correct copy of the log records of all holes drilled during the preceding month, together with duplicate assayers certificates covering any cuttings taken therefrom and assayed by lessee. Lessee shall pay all reasonable damages to growing crops upon said land caused by the prospect drilling operations of the lessee.

2. Lessee shall have the right to raise the ore bearing material mined on the land herein described through the underground workings and shaft located on what is known as the "Stebbins Land" adjacent on the South to the land herein leased. Lessee shall commenence the driving of a drift from said underground workings on the Stebbins land to the ore bodies located on the land herein leased within TEN DAYS from the execution and delivery of this lease and such work together with all other work contemplated herein shall be carried on continuously in good faith; delays caused by accidents, strikes or other conditions beyond the control of lessee excepted.

3. All ores or minerals mined or raised on said land may be milled, cleaned and prepared for market thereon, or at the option of lessee herein, lessee shall have the right to remove ores and minerals mined from this land and mill the same over mill located on other land. If such mill is equipped with automatic weighing and sampling devices, such ores shall be weighed, assayed, treated, handled and concentrates determined, sold and accounted for in the manner which is then or may be thereafter established as standard method and practice thereat. If such ores shall not be milled over mill equipped with automatic wieghing and sampling devices then:

(a) No ores or ore-bearing material so removed for concentration and prepartion for market from this land shall be mixed, milled or commingled with materials mined or produced from other lands, except tailings produced therefrom may be commingled with the tailings produced from other ores or ore bearing materials.

(b) All concentrates recovered from ores removed from this land and treated at mill located on other lands shall be weighed, assayed, stored, sold and accounted for separately from concentrates recovered from ores brought from lands other than leased herein.

All milling and preparation of the recoverable concentrates from the ores mined hereunder shall be in conformity with best practice of this district, with a total tailing or refuse loss in mineral content of not to exceed two percent (2%) lead and zinc sulphide assay combined.

Lessee shall make such periodic test of the mineral contents and mining refuse as necessary to determine the mineral content loss in milling, which record shall be open to inspection of lessors or their agent at all reasonable times, and lessors or their agent shall have the right to go upon such premises and make such additional tests as desired of the mineral content of chats and other mining refuse.

4. Lessee shall sell all concentrates produced and shall pay to lessors a total royalty of Ten percent (10%) of the gross proceeds of all moneys received for lead and zinc concentrates mined, produced and sold from said land. Settlements of all sales of ores and concentrates sold shall be in the form of checks by the buyer, payable and delivered to the First National Bank of Miami, Oklahoma, hereby designated as agent to receive such settlements, or to such other bank in the Tri-State Mining District as may hereafter be designated in writing by lessors, and such bank shall, upon receipt thereof and collection duly made upon such checks, pay to H. G. Karcher Five percent (5%) thereof; to T. L. Robinson One and One Ninth percent (1-1/9th%) thereof; to C. F. Robinson One and One Ninth percent (1-1/9th%) thereof and to L. A. Wetzel Two and Seven Ninths percent (2-7/9ths%) thereof, as rent or royalty due at each sale of ores, and to pay lessee Ninty percent (90%) thereof. Lessee shall cause to be furnished to lessors on each settlement full and correct statements of all such sales, showing the weights, kind and character and price for the ores so sold. It is agreed that the royalty herein provided for shall also be paid to lessors on all moneys paid to lessee by the Metals Reserve Corporation or any other agency, as a subsidy by the United States Government on what is known as "A" quota; and shall be settled for in the month in which said bonus, premium or credits are received by lessee; such payment to be made by lessee to said bank, hereinbefore designated, and by it distributed to lessors in the proportions to which each is entitled as hereinbefore set forth.

It is further agreed that in the event, under governmental regulations, the land owners royalty is permitted or authorized to be paid on any other or additional subsidy, bonus, premium or credit, then in that event lessee shall pay to lessors the royalty herein provided for upon such additional subsidy, bonus, premium or credit.

5. The Lessors release and relinquish to lessee the title to all chats, tailing, sludge, slime, and sand produced from milling operations on land other than leased herein, and in consideration thereof, lessee agrees to pay to lessors monthly Two cents (.02cts) per each ton of chats, tailings, sludge, slime and sand produced from such milling operations to be computed by deducting from the total tonnage of ores and minerals mined and removed from this land for milling, the total tonnage of concentrates recovered and sold therefrom. Each such settlement shall cover the preceding month and shall be accompanied with statement showing the total tonnage of ores and minerals removed for milling and the total tonnage of concentrates recovered therefrom. Payment for said tailings, slime, chats, sludge and sand shall be made to the bank hereinbefore designated and by it distributed to lessors in the same proportion as is herein provided for the distribution of royalty.

6. Lessee shall use reasonable care to support the ground and to prevent the same from caving, by leaving of pillars in underground operations or by supporting the ground with timbers where deemed necessary; and, when necessary, shall have and maintain upon said land sufficient pumps and machinery to properly drain the land and to treat and prepare for market the ores mined therefrom.

7. Lessors herein or their agent shall have the right at all times to inspect any and all mines shafts, drifts or workings in and on said land and the adjoining land known as the Stebbins land, and may use the machinery of lessee herein at all reasonable times for such purpose.

8. All prospecting and mining operations shall be carried on in a minerlike and workmanlike manner, as the same are usually conducted in said locality.

9. Lessors shall have the right at all reasonable times to inspect and examine the property, milling and/or mining operations, milling equipment and methods used to recover and prepare for market concentrates from the ores mined, raised or removed from the lands covered by this lease.

10. Lessee shall keep a correct record of all minerals mined, the rock tonnage, the kind and weights thereof, to whom sold, and the price received therefor; which books and accounts shall be open to the lessors at all reasonable times, or lessee agrees to furnish lessors any such information upon written demand.

11. No wording or sentence in this lease shall be construed to permit lessee or others to move on, erect or build habitations or dwelling houses on said lands or conduct other business on said land other than proper and necessary for efficiently carrying on the operations herein conterplated. Lessee shall have the right to use so much of the surface of the land as may be necessary to carry on mining as herein conterplated; all other surface rights are reserved to lessors.

12. Lessors hereby warrant and agree to defend the title to the lands herein described, and agree that lessee shall have the right at any time to redeem for lessors, by payment, any mortgage, taxes or other liens on the above described lands in event of default of payment by lessors and be subrogated to the rights of the holder thereof.

13. This lease shall not be assigned nor the land herein described subleased without the written consent of lessors.

14. Lessee shall have the right at any time during the term hereof, upon payment of all rentals or royalty due to said date, to surrender possession of said premises and to deliver to Lessors proper instruments duly executed evidencing the surrender and cancellation of this lease, in such form that same may be placed of record, and shall thereupon be relieved of all further obligations and liabilities hereunder.

15. If lessee shall fail, neglect or refuse to faithfully keep and perform any of the terms and conditions of this lease, lessors shall give to said lessee thirty days written notice of the violations complained of, by depositing such notice in the United States mail, postage prepaid and registered, and addressed to lessee at "B & Main St., Joplin, Missouri, and if such default or violation is not removed or remddied within said thirty days then all of the rights and privileges of lessee shall cease, determine and be forfeited and revert to lessors, and lessee shall have no further rights to, in or upon said premises except to remove such property as the lessee shall have placed thereon. All buildings, structures, hoppers, derrikes and other property not removed within sixty days from the forfeiture or other termination of this lease shall attach to and become a part of the realty upon which the same is located and lessee shall have no further interest therein.

16. If, at the termination hereof, lessee shall be mining said land in good faith and shall have otherwise complied with the terms hereof, the term of this lease shall be extended so long as said lessee shall continue to carry on mining operations in accordance with the terms hereof, but, in no event, shall such extended term continue for more than ten years.

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17. The covenants, conditions and agreements herein contained, in so far as applicable, shall extend to the parties, their successors, heirs and assigns.

IN WITNESS WHEREOF, The parties hereto have hereunto set their hands the day and year first above written.

(S)H. G. Karcher

(S)T. L. Robinson

(S)C. F. Robinson

(S)L. E. Hetzel

LESSORS.

C. K. and E. Mining Company

By G. L. Childress
President

LESSEE.

Attest:

K. L. Koelker (S)
Secretary

ASSIGNMENT OF MINING LEASE AND AGREEMENT
[illegible]

THIS ASSIGNMENT, made and entered into this 6th day of March, 1952, by and between the G. K. & H. Mining Company, a corporation organized and existing under and by virtue of the laws of the State of Kansas, as party of the first part, and the Helen H. Mining Company, a corporation organized and existing under and by virtue of the laws of the State of Oklahoma, as party of the second part,

WITNESSETH: That,

The party of the first part in consideration of the sum of one dollar ($1.00) and other valuable considerations to it in hand paid, the receipt and sufficiency of which is hereby acknowledged, has and by these presents does grant, bargain, sell, assign and set-over unto party of the second part, a certain Mining Lease dated the 14th day of May, 1945, wherein T. L. Robinson, J. F. Robinson and L. A. Hetzel are parties of the first part, and the G. K. & H. Mining Company is party of the second part and covering the following described land in Cherokee County, Kansas, to-wit:

The Southwest Quarter (SW¼) of Section Thirty-Four (34) in Township Thirty-Four (34) South, Range Twenty-Two (22) East of the 6th principal Indian meridian,

together with all amendments, modifications and supplements thereto and in particular, but not by way of limitation, that certain agreement dated the 1st day of March, 1952, by and between H. G. Karcher, Alan G. Robinson, trustee of the estate of T. L. Robinson, deceased, Mary A. Fergus, Hugh F. Robinson, Clyde Robinson, heirs at law of Clyde Robinson, deceased, and L. A. Hetzel, are parties of the first part and G. K. & H. Mining Company, a Kansas corporation, as party of the second part, to the end that the said Helen H. Mining Company shall enjoy all the rights and privileges and appurtenances thereunto belonging, held and owned by the party of the assigning party.

In consideration of said assignment as aforesaid the Helen H. Mining Company hereby expressly agrees to keep and perform each and all the terms and conditions and obligations of said mining lease and contract of March 1, 1952, and all other amendments and supplements pertaining to said lease and in particular, but not by way of limitation, does hereby agree to keep and perform all the terms, conditions and obligations of the G. K. & H. Mining Company under said contract of March 1, 1952.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

G. K. & H. MINING COMPANY

By: [illegible]
President

ATTEST:
[illegible]
Secretary

HELEN H. MINING COMPANY

By: [illegible]
President

ATTEST:
[illegible]
Secretary

HELEN H. MINING COMPANY
P. O. BOX 347
BAXTER SPRINGS, KANSAS

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 25 1959

DATE	INITIALS	CODE
3/25	C	220
3/25	[illegible]	500

March 23, 1959

United States
Department of the Interior
Office of Minerals Exploration
Washington, 25, D. C.

Attention: Mr. Frank E. Johnson
Acting Director

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Johnson:

The Helen H. Mining Company wishes to acknowledge receipt of your letter of March 9th, 1959 concerning the reactivation of their DMEA Exploration Contract Application.

Mr. Claud R. Jones, President of the Helen H. Mining Company has instructed me to inform you that his Company is desirous to reactivate the DMEA Exploration Application, and that they are submitting to you a Supplemental Report in order to bring up to date the Application Report previously submitted. This report is presently being prepared, and will be in your hands as soon as it is completed.

Thanking you for past courtesies, I remain

Sincerely yours,

Dan R. Stewart

Dan R. Stewart

DRS/nr
cc - Claud R. Jones
Clinton C. Knox

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/6	Klugescheid	500
	Johnson	500
3/6	Selfridge	~~120~~
		~~110~~
		~~100~~
3/9	C	220
		500

MAR 9 1959

Mr. Claud R. Jones, President
Helen H. Mining Company
Post Office Box 347
Baxter Springs, Kansas

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

Reference is made to our letter of January 30, 1959, regarding action required to make your DMEA application eligible for consideration under the OME regulations.

We wish to cooperate with you in allowing ample time to complete such action, but, if we do not hear from you within 30 days from the date of this letter, we will assume that you are no longer interested in proceeding with your application, and we will consider it as having been withdrawn.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

WPKlugescheid/er 3/6/59
Copy to: Docket
Dr Read File
Region IV(2)
Chron.

43683

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 9 1959

DATE	INITIALS	CODE
2/9	C	320
		500

Box 431
Joplin, Missouri
February 4, 1959

Mr. Robert U. King
Alternate Executive Officer
OME Field Team, Region IV
U. S. Geological Survey
Building 25, Federal Center
Denver 2, Colorado

Re: New OME Regulation for reactivation of Applications DMEA-4478 and -5048

Dear Bob:

Attached are your copies of January 29, and 30, OME letters to applicants on reactivation of DMEA-4478 and DMEA-5048, respectively, which I believe you will find informative and self-explanatory. Evidently our copies of these letters erroneously were addressed to the Knoxville Office, and I received them from Bob Laurence this morning. Photocopies were made and also are being furnished for the information of Dewey Amos since this is the first indication as to how we can expect such matters to be handled by OME, and since this is the first indication that OME Regulations have been issued, although we yet have not received any for distribution by this office.

Sincerely yours,

Clinton C. Knox

CCK/imd

encl. 2

cc: Amos,USGS,Carbondale w/c encls.
OME Op.Com.(2)
4478 file
5048 file
OME Reg.file

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/29	Klugesheid	500
	Hiawood	500
1/29	Selfridge	120
		~~110~~
		~~100~~
1/30	C	220
		500

JAN 30 1959

Mr. Claud R. Jones, President
Helen H. Mining Company
Post Office Box 29
Baxter Springs, Kansas

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

We refer to your letter, dated January 21, 1959.

Enclosed is a copy of the regulations for obtaining Federal assistance in financing mineral exploration under which the new Office of Minerals Exploration will operate. The Office of Minerals Exploration has replaced the Defense Minerals Exploration Administration.

If you wish that your partly processed DMEA application be considered under the OME regulations, please complete and return four of the copies of the attached application, MME Form 40.

Your attention is called especially to the certification which when signed declares that you would not ordinarily undertake the proposed exploration under current conditions and circumstances at your sole expense, and to item 1(a) - and 1(b) if applicable - which relates to information used to determine your financial eligibility under the new exploration program. Information that is included in your DMEA application need not be repeated in the OME application, but you can add new information if you so desire.

43683

It would be well to give proof that all the leases are still valid. The Karcher lease states:

> "13. This lease shall not be assigned nor the land herein described subleased without the written consent of the lessors."

Therefore, a written consent of the lessors to the assignment of the lease by the C. K. & E. Mining Company to the Helen H. Mining Company will be required.

Also enclosed are two sets of six copies each of the Lien and Subordination Agreements, MME Form 52, referred to in Item 2(c) of the application. Early submittal of five completed copies of the form for each lease will save time in case you apply for exploration assistance under the OME program and a contract is granted.

If the lessors should refuse to sign the Lien and Subordination Agreements, it will be necessary to obtain letters from them signifying their unwillingness to sign said agreements and then a Performance Bond in the amount of the Government's participation in the project, by the Helen H. Mining Company as principal and an indemnity company as surety may be submitted.

If you do not wish to participate in the OME program, we shall appreciate being so informed.

Sincerely yours,

Frank E. Johnson

Acting Director

Enclosures

WPKlugescheid/er 1/29/59
CC: Docket
Dir Read File
Region IV (2)
Chron.

HELEN H. MINING COMPANY
P. O. BOX 347
BAXTER SPRINGS, KANSAS

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 27 1959

DATE	INITIALS	CODE
1-27	C	220
1-27	[illegible]	500

January 21, 1959

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4478 (Lead-Zinc)
Karcher & Stebbins Mines
Cherokee County, Kansas

Dear Mr. Mittendorf:

With reference to your letter to me concerning the cited application, we now desire to proceed with such an exploration project since the outlook for lead-zinc mining appears to be brightening.

Therefore, it would be appreciated if we still can take advantage of your offer to reactivate and give full consideration to my above cited application of September 26th, 1956.

We will be most happy to bring this application up to date with respect to the more recent information regarding production, exploratory drilling, and underground workings.

Please advise.

Very truly yours,

Claud R. Jones

Claud R. Jones, President
Helen H. Mining Company

CRJ:nr

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/22	Klugescheid	500
7/22		200

July 22, 1957

Memorandum

To: Director, Division of Operation Control and Statistics

From: Withdrawal of Application, Docket No. DMEA-4478,
Helen H. Mining Company
Karcher & Stebbins Mines
Cherokee County, Kansas

Please consider the cited application as having been withdrawn.

W. R. Griswold

W. R. Griswold

WPKlugescheid/er
Copy to: Docket
Admr R File
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/22	Klugescheid	5 00
	Shaw	5 00
7/22	Jones	1 10
22	Mittendorf	1 00
		2 25

JUL 22 1957

Mr. Claud R. Jones
Helen H Mining Company
Post Office Box 29
Baxter Springs, Kansas

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher & Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

With reference to the cited application, we have been advised by Mr. Clinton C. Knox, Executive Officer, DMEA Field Team, Region IV, that you have requested that your application be withdrawn.

We are therefore, considering your application as having been withdrawn and are placing it in the inactive file. Nevertheless, please be assured that we would be glad to give full consideration to your application at any time when you might desire to proceed with the project.

Please refer to the cited docket number in any future correspondence.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 7/22/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region IV (2)
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
Box 431
Joplin, Missouri

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 10 1957

DATE	INITIALS	CODE
6-10	C	220
6/10	WPK	500

June 4, 1957

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: DMEA-4478(lead-zinc)
Helen H. Mining Company
Karcher-Stebbins Mines
Cherokee County, Kansas

Dear Mr. Selfridge:

With reference to your March 1 letter on the cited application, a letter was received today from the Applicant's representative requesting temporary withdrawal of this application. Copies of the letter are attached for your files.

Sincerely yours,

Clinton C. Knox

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

Encl. 2

cc: DMEA Op.Com.
Amos,USGS,Knoxville
4478 file

C O P Y - DMEA-4478

HELEN H. MINING COMPANY
P. O. Box 29
Baxter Springs, Kansas

May 29, 1957

OFFICIAL FILE COPY
D M E A
RECEIVED JUN 10 1957
DATE | NUMBER | CODE

Mr. Clinton C. Knox
Executive Officer
D.M.E.A. Field Team
Region 4
P. O. Building
Joplin, Missouri

Dear Mr. Knox:

This is to advise you that due to the recent decline in both the zinc and lead markets that our company wishes to temporarily with-draw our D M E A exploration application on the Karcher and Stebbins leases. In the event that the zinc and lead markets improve sufficiently, we would like at that time for you to re-consider our application for exploration aid.

Very truly yours,

/s/Claud R. Jones
/t/Claud R. Jones

EXPLORATION PROJECT CONTRACT
HELEN H. MINING COMPANY
DOCKET NO.DMEA-4478

ANNEX I

The land referred to in Article 2 of the contract consists of a single tract of land, privately owned, held by the Operator under a lease agreement, which permits it to engage in mineral exploration and the mining of lead and zinc ores. This lease is dated May 14, 1945 and is between H. G. Karcher et al and the C. K. & E Mining Company. Duration of lease is for ten years and renewable for not in excess of another period of ten years. An agreement, dated March 6, 1952, between the C. K. & E. Mining Company and the Helen H. Mining Company assigned the lease to the present Operator.

The tract is described in the lease as follows:

> The Southwest Quarter (SW$\frac{1}{4}$) of Section Thirty-four (34) Township Thirty-four (34) South of Range Twenty-three (23) East, Cherokee County, Kansas. Land area is 160 acres.

EXPLORATION PROJECT CONTRACT
HELEN H. MINING COMPANY
DOCKET NO. DMEA 4478

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore for ores of lead and zinc by churn-drilling. The holes to be initially drilled pursuant to the contract are roughly indicated on the attached map entitled: "Figure 3- Helen H. Mining Company, Karcher Mine."

The mineralization in the district consists generally of relatively small, disconnected, high grade lenses, separated by barren ground.

The planned exploratory churn-drilling is expected to indicate sufficient adjacent reserves in other characteristic pod-like deposits favorably inferred on the Karcher tract along the indicated zones of alteration.

The project is to be divided into two stages:

Stage I

To consist of 14 holes as roughly indicated on the map, in three sites indicated as K-1, K-2, , and K-3. These holes will be approximately 400 feet in depth. These holes will be roughly 100 feet apart due to the smallness or narrowness of the ore bodies.

Stage II

Further Order Exhibit A Accepted

Estimated Costs of the Project.

Stage I

Actual Costs

Category (1) Independent Contracts

Churn-drilling to approximately 400 foot depth, 5,600 feet @ $1.95 per foot	$10,920.00	~~$10,920.00~~
The above rates cover charges for water supply, casing, changing of location, and all other charges which may be incurred by the churn drill contractor. 1/		
Categories (2) through (7) None.	_____	$10,920.00

Fixed Unit Costs (see Article 13)

Incidental allowance for each foot of drilling completed 5,600 feet @ $0.23/ft.	1,288.00	
300 samples of drillings to be assayed for zinc and lead @ $2.00 each sample	600.00	1,888.00
Total Cost of Stage I		$12,808.00

Stage II

Actual Costs

Category (1) Independent Contracts

Churn-drilling to approximately 400 foot depth 3,200 feet @ $1.95 per foot	$ 6,240.00	
The above rates cover charges for water supply, casing, changing of location, and all other charges which may be incurred by the churn drill contractor. 1/		
Categories (2) through (7) None	_____	6,240.00

Fixed Unit Costs (see Article 13)

Incidental allowance for each foot of drilling completed 3,200 feet @ $0.23/ft.	$ 736.00	
175 samples ofdrillings to be assayed for zinc and lead @ $2.00 each sample	350.00	$ 1,086.00
Total Cost of Stage II		$ 7,326.00
Estimated Total Cost of the Project		$20,134.00
Government's Participation @ 50%		$10,067.00

1/ Neither the cost nor value of casing left in drill holes at option of the Operator will be accepted as a charge under the contract.

APRIL						1956
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

SUNDAY

22

APRIL

113

253

Guaranty from American Surety Co & Sterling in lieu of Consents to liens or a surety bond, Consent of Lessors to assignment.

Estimate of Cost

Helena H. Mining Company

Stage I

Independent contracts.

5,600' of churn drilling @ $1.95/ft — $10,920.00

Incidental expenses per foot of hole drilled.

5,600' @ $0.23/ft. — 1,288.00

300 samples to be assayed for Pb. & Zn.

@ $2.00 each. — 600.00

$12,808.00

Stage II.

Independent contracts

3,200' of churn drilling @ $1.95/ft. — $6,240.00

Incidental expenses per foot of hole drilled

3,200' @ $0.23/ft. — 736.00

175 samples to be assayed for Pb. & Zn.

@ $2.00 ea — 350.00

$7,326.00

Grand Total $20,134.00

Government Participation @ 50% $10,067.00

800
200
184
80
5600 | 1264

6240
736
250
14 7,326
131.25
7,457.25

.023
5600
13800
115
15800

14
400
5600

175
2.75
875
1225
350
481.25
350
131.25

640
320
160

20
100

Annex I

What is agreement of March 1, 1952 with Karcher people?

Karcher Leases

by H. G. Karcher, T. L. Robinson, C. F. Robinson and L. A. Wetzel to C. K. + E. Mining Co.
SW 1/4 of Sec. 34 Township 34
Range 23E
dated,
Cherokee County, Kansas.
~~Dated~~ May 14, 1945 for period of 10 years for mining lead & zinc, right to prospect,
lease renewable up to 10 years beyond 1st Period,

lease assigned by C. K. + E. Mining Co. to Helen H. Mining Co. dated March 6, 1952

Assignment agreed to by Karcher et al dated ____?

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

March 19, 1957

Memorandum for the Files

From: W. P. Klugescheid, Base Metals Division

Subject: Phone Conversation on Docket No. DMEA-4478, Helen H. Mining Company, Karcher and Stebbins Mines, Cherokee County, Kansas, (Lead-Zinc)

On this date, undersigned spoke to Mr. Knox, Executive Officer, DMEA Field Team, Region IV, concerning the missing papers for this project mentioned in letter to the field, dated March 1, 1957.

Mr. Knox says that the company has done some drilling and has found some additional ore and at present is trying to decide what to do about the contract. The company still plans to get the Consents to Lien from the owners but there is considerable doubt as to whether they can be obtained. If they decide to go ahead and cannot obtain the Consents to Lien, American Zinc, Lead and Smelting Company will give a guarantee.

Further information will be awaited from the Field Team on this matter.

This conversation was in connection with a call made to Mr. Knox by Mr. Griswold.

W. P. Klugescheid

W. P. Klugescheid

WPK/er
Copy to: Docket
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Box 431
Joplin, Missouri

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 18 1957

DATE	INITIALS	CODE
3/18	C	220
3/18	WPK	500

March 14, 1957

Mr. Claud R. Jones, President
Helen H. Mining Company
Post Office Box 29
Baxter Springs, Kansas

Re: Docket No. DMEA-4478(lead-zinc)
Helen H. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

Following my conference with you and Mr. John J. Inman, District Manager, American Zinc, Lead & Smelting Company, in his Joplin office March 5, it is my understanding that the lessors of mining property included in the subject application likely will not furnish the Consents to Lien and Subordination Agreements ordinarily required by DMEA.

If that becomes the case, and you wish to furnish another form of guaranty, you should obtain for the Washington Office of DMEA a signed document from those lessors stating that they do not wish to give those Consents to Lien. A sample copy of the Form MF-205 Consent to Lien and Subordination Agreement is attached herewith for your ready reference.

Having obtained the above-mentioned statement, you could then decide which of the two following forms of guaranty you would wish to furnish, and advise accordingly:

(a) A Guaranty Agreement by the American Zinc, Lead and Smelting Company to secure the payment of the Government's percentage royalty(possibly somewhat like that furnished under its DMA Exploration Project Contract No. Idm-E158), or

(b) A Performance Bond by the Helen H. Mining Company as principal and an indemnity company as surety, in the amount of approximately $10,000 which is estimated would be the Government's participation in the project costs. This would be executed on Standard Form 25 (sample copy attached herewith for your ready reference).

Also, the written consent of the lessors to the Assignment of the Karcher Mining Lease and Contract by the C.K.&E. Mining Company to the Helen H. Mining Company will be required. As you pointed out that document is in existence but, I believe, inadvertently copies were omitted from your DMEA application.

I am aware that since submitting your Application on September 26, 1956, some recent exploration you have done, and plan to continue, may have indicated ore reserves from which substantial production now is being realized. To prevent the Government's percentage royalty becoming payable thereon from the effective date under any exploration project contract which might be offered, I understand that you may wish to revise item 9(a) of your Application to particularly describe the part of the land on which ore reserves now are known, developed or in production to be excluded under the desired project contract. I also am aware that the exploration work you are doing may not reach a conclusive point yet for another month which would seem to justify such a delay in making all the foregoing suggested decisions.

With best personal wishes for the utmost success on your new exploration work, I am,

Sincerely yours,

CCK/jb

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

encl. 2

cc: DMEA Op.Com.(2)
Mr. John J. Inman(2) w/form
MF-205 and -25
MFR File

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/27	Klugscheid	500
	Hiamold	500
3/1	Selfridge	190
"	Johnson	110
"	Whitenday	100
3/4	C	225

500

500.

MAR - 1 1957

Mr. Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV
Post Office Box 431
Joplin, Missouri

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher & Stebbins Mines
Cherokee County, Kansas

Dear Mr. Knox:

We have discussed the cited application with the Legal Division, and they have informed us that the following procedure must be complied with before we continue the processing thereof.

Apparently the Applicant either does not wish to, or is unable to, obtain the Consents to Lien and Subordination Agreements from the lessors and wishes to furnish another form of guaranty. This may be done as follows:

A signed document must be obtained from the lessors stating that they do not wish to give the Consents to Lien and Subordination Agreements.

Having obtained the above-mentioned statement, the Applicant must then decide which of the two following guaranties it wishes to use, and advise us accordingly.

(a) A Guaranty Agreement by the American Zinc, Lead and Smelting Company to secure the payment of the Government's percentage royalty, or

(b) a Performance Bond, in the amount of approximately $10,000.00, which would be the Government's participation in the project, by the Helen H. Mining Company as principal and an indemnity company as surety. This would be executed on Standard Form 25,

8623

five copies of which are enclosed. Only two copies would have to be executed, one for the Washington Office and the other would be for the Fiscal Officer in your district.

The Karcher lease states:

"13. This lease shall not be assigned nor the land herein described subleased without the written consent of lessors."

Therefore, a written consent of the lessors to the assignment of the lease by the C. K. & E. Mining Company to the Helen H. Mining Company will be required. There may be some such document in existence but it is not in our possession.

We will hold further processing of this application in abeyance until we hear from you.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JLB)

Enclosures

APPROVED:

Frank D. Lamb (JLB)

Member, Bureau of Mines

N. E. Nelson

(JLB)

Member, Geological Survey

WPKlugescheid/er 2/25 & 27/57

Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/25	Klingerscheid	500
	Kiewel	500
		130
		110
		105
		225

500

500.

Mr. Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV
Post Office Box 431
Joplin, Missouri

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen H. Mining Company
Karcher Mine
Cherokee County, Kansas

Dear Mr. Knox:

We have discussed the cited application with the Legal Division, and they have informed us that the following procedure must be complied with before we can continue to process the cited application.

Apparently the Applicant either does not wish to, or is unable to obtain the Consents to Lien and Subordination Agreements from the Lessors and wishes to furnish another form of guaranty. This may be done in either of the following ways:

(1) A Guaranty Agreement by the American Zinc, Lead and Smelting Company to secure the payment of the Government's percentage royalty, or

(2) A Performance Bond, in the amount of approximately $10,000.00, which would be Government's participation in the project, by the Helen H. Mining Company, as principal, and an Indemnity Company, as surety. This would be executed on Standard Form 25, should the Applicant wish to make use of this method.

8623

The Karcher lease states:

"13. This lease shall not be assigned nor the land herein described subleased without the written consent of lessors."

Therefore, a written consent of the lessors to the assignment of the lease by the C. K. & E. Mining Company to the Helen H. Mining Company will be required. There may be some such document in existence but it is not in our possession.

We will hold further processing of this application in abeyance until we hear from you.

Sincerely yours,

Chairman, Operating Committee

Enclosure.

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

P. S. Should the Applicant choose to execute a Performance Bond, only one copy would be required for the Washington Office. We are enclosing five copies of Form 25. We would advise you of the amount of the bond so as not to delay the execution of the proposed contract once it has been approved.

WPKlugesheid/er 2/25/57
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

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

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 19 1957

DATE	INITIALS	CODE
2/19	C	220
2/19	WPW	500

Memorandum

February 18, 1957

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of field examination report, DMEA 4478, Helen H. Mining Company (American Zinc Company), Karcher-Stebbins mines, Picher field, Cherokee County, Kansas (lead-zinc).

After field examination the examining team report that part of the applicant's proposed exploration project represents exploration work that would lend itself well to DMEA participation in expenditures involved. Approval of a DMEA contract is recommended providing for a total of 5,600 feet of churn drilling on the Karcher tract only at a total estimated cost of $20,463.

The Karcher-Stebbins mines represent the northwest extremity of the Picher field where the Picher field 'tails out' into what might be decreasingly mineralized ground.

The proposed drilling will have the effect of filling in undrilled areas, at sites K-2 and K-3, between stope faces and drilled areas. At site K-1 the undrilled area exists between a stope face and a line 200 feet south of the lease boundary. The undrilled areas are not exceptionally large. The maximum combined length of possible ore 'runs' at the three locations cannot be more than 1,500 feet. If the runs are assumed to be 50 feet wide and 10 feet thick (which are liberal estimates), the runs will contain a total of 60,000 tons of ore. At a grade of 5 percent zinc and 0.5 percent lead, and assuming 70 percent recovery, at present concentrate prices the lead-zinc concentrates will have a gross value of $218,400. The Government's royalty of 5 percent on such a gross value would amount to $10,920 - slightly more than the Government's share in exploration costs.

The above figures are subject to many considerations and are, admittedly, the roughest kind of estimate. They are merely intended to demonstrate that large, significant discoveries easily repaying the costs of exploration, mining, and milling probably will not result from the proposed work if the "m" bed alone is considered.

There are other factors, however, which offer justification for the project. They are:

1) Unknown ore bodies below the "m" horizon could increase the above estimates.

2) The life of the Karcher-Stebbins mines would undoubtedly be extended by the drilling.

3) There is a good chance that the Picher field will be extended northward, thus stimulating exploration into heretofore relatively unexplored areas.

From an over-all standpoint I agree with the findings of the Field Team and concur with their recommendations for approval of the application.

W. P. Williams

W. P. Williams

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2.5	Rly.	500

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

~~January~~ 4, 1957

Re: DMEA 4478; Pb-Zn; $20,463
Helen H. Mining Company
Karcher Mine, Picher Area
Cherokee County, Kansas

Memorandum

To: ~~W. R. Griswold, DMEA~~

From: O. M. Bishop, Branch of Base Metals

Subject: Review of Field Team Report dated January 24, 1957, received January 30, 1957

The Field Team after examining the mine and discussing the facts of the application with company representatives, concluded that the 2-stage drilling program recommended for the Karcher tract in the Field Team report is properly considered exploration and is well advised; they do not, however, consider Government aid on the Stebbins exploration warranted.

In justification of this opinion, the Field Team states that the ore of the Karcher-Stebbins area occurs as small, disconnected, high grade lenses. The larger ones contained up to 50,000 tons of zinc ore but were laterally separated from one another by several hundred feet of barren or near-barren ground. They write that at present, there is no evidence at the mine faces nearest the proposed lines of churn-drill holes which warrants development openings. Inasmuch as each of the 3 fences of holes designated K-1, K-2, and K-3 cross a projected zone in which there is significant subsurface rock alteration, the field team considers the drilling to be well-justified exploration with respect to the Karcher tract.

They recommend Stage 1 to consist of 14 holes to explore 3 areas and Stage 2 consisting of 8 holes to be used as deemed wise, within certain limits, if Stage 1 proves successful..

In reviewing the evidence, I conclude the Field Team is correct in their views that the work outlined is properly exploration.

I recommend that a 2 stage unit cost exploration contract be written in conformance with the field recommendation.

O. M. Bishop

O. M. Bishop
Commodity Specialist
Branch of Base Metals

Copy to: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Branch of Base Metals
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Box 431
Joplin, Missouri

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DATE	INITIALS	CODE
1-28	C	220
		130
1-31	C	220
	January 24, 1957	
1-31	WPK	500

Memorandum

To: DMEA Operating Committee, Department of the Interior
Washington 25, D. C.

From: DMEA Field Team, Region IV

Subject: Joint Field Team Examination Report, DMEA-4478(Zinc-Lead)
Helen H. Mining Co., Karcher-Stebbins Mines, Cherokee
County, Kansas

Transmitted herewith are the original and three copies of the subject report with recommendations for approval of the Application concurred in by the Field Team Members.

Three copies of bids obtained by the Applicant from each of three reliable churn drilling contractors also are enclosed herewith.

Clinton C. Knox
Clinton C. Knox
Executive Officer

Encl. 13

cc: DMEA Op.Com.(3)
Amos,USGS,Carbondale,Ill.,
w/c of report
Laurence,USGS,Knoxville,
w/c of report
4478 file(2),w/2 c of report

Reviewed by
DMEA OPERATING COMMITTEE
1-30-57
(Date)

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MINERALS TECHNOLOGY
DIVISION

DEC 5 1956

BUREAU OF MINES
JOPLIN, MO.

EARL J. VAUGHT, DRILLING CONTRACTOR
1414 Military Avenue
Phone 180
Baxter Springs, Kansas

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE
		130
		220

December 4, 1956

HELEN H. MINING COMPANY
Baxter Springs, Kansas

ATTENTION: MR. CLAUDE JONES

My dear Claude:

In accordance with your request, I hereby submit my price and terms for drill~~ing in the~~ STUBBINS and KARCHER leases. Hole size to be 6¼ inches, and if necessary to finish the hole, 4 7/8 inches.

Drilling by the foot: $1.95 per foot

I will furnish machines, tools, and casing--any casing left in a hole by request, will be billed at the current price.

To continue the custom of this area, I will carry Public Liability and Property Damage on my men, in addition to Workman's Compensation.

Thank you for the opportunity to quote my price and terms, and I will be very happy to do your work if this bid is accepted.

Respectfully submitted:

EARL J. VAUGHT,
Drilling Contractor
Earl J. Vaught

Reviewed by
DMEA OPERATIONS COMMITTEE
1-30-57
(8020)

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MINERALS TECHNOLOGY
DIVISION

DEC 5 1956

BUREAU OF MINES
JOPLIN, MO.

SIERRA DRLG. & EXPLOR. COMPANY
1041 UNIVERSITY AVE.
BOISE, IDAHO

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 28 1957

DATE	INITIALS	CODE
		130
		220

Golden Kinking Co.
Castor Springs, Texas

Attn: Mr. Claude Jones

Dear Claude:

In accordance with your request, we are quoting our price and terms for drilling in the Cochise and Morehor Counties. Hole also to be 6 3/4 inches, and if necessary to finish the hole, 4 7/8 inches.

Drilling by the foot $1.95 Per Foot

We will furnish machines, tools, and casing - any casing left in a hole by request, will be billed at the current price.

To continue the custom of this area, we will carry Public Liability and Property Damage on our company, in addition to Workmans Compensation.

Thank you for the opportunity to quote our price and terms, and we will be pleased to do your work, if our equipment is available.

Yours very truly,
SIERRA DRLG. & EXPLOR. CO.

By C. R. Shows

Reviewed by
DMEA OPERATING COMMITTEE
1-30-57
(date)

PHIL CULBERTSON DRILLING COMPANY

WATER, GAS AND OIL WELLS—MINERAL PROSPECTING

TELEPHONE 3005 MA 4-1051

2517 N. Turk ~~522 NORTH SERGEANT~~

JOPLIN, MISSOURI

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MINERALS TECHNOLOGY
DIVISION
DEC 5 1956
BUREAU OF MINES
JOPLIN, MO.

December 4, 1956.

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DATE	INITIALS	CODE
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Helen H. Mining Co.,
Box 29,
Baxter Springs, Kansas.

Gentlemen:

Understanding that you intend to let a contract for some 8800 feet of cable tool drilling on the Helen H. Mining Company's lease, the holes not to exceed approximately 400 feet, I wish to submit a bid of $2.00 per foot, covering this work of which I am very familiar.

Thanking you, I am

Yours truly,
Phil Culbertson

Reviewed by
DMEA OPERATING COMMITTEE
1-30-57
(date)

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DATE	INITIALS	CODE
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on-site Report

FIELD TEAM EXAMINATION REPORT

on

Karcher and Stebbins Mining Properties
Cherokee County, Kansas

by

Dewey Amos, Geologist, U. S. Geological Survey

and

Clinton Knox, Mining Engineer, U. S. Bureau of Mines

Application Docket DMEA-4478 (Zinc-Lead)
Helen H. Mining Co.
Box 29
Baxter Springs, Kansas

December 5, 1956

Summary and Conclusions

No known reserves remain on the Applicant's properties which appear to justify any development work but additional irregular large pod-like deposits expected to be relatively rich in zinc-lead ore, are inferred along partly outlined alteration zones which appear to warrant further programs of conservative well-balanced surface churn drilling and underground exploration. The properties are on the edge zone believed most favorable for extension of the Picher mining field of the Tri-State zinc-lead district.

Reviewed by
DMEA [illegible]
1-30-57

A provisional two-stage program with D.M.E.A. assistance on surface exploratory churn drilling of a maximum 8,800 feet or 22 holes at an estimated over all cost of $20,500, reasonably can be expected to indicate sufficient ore reserves on the Applicant's Karcher mining tract to justify immediate underground delineation, development, and production entirely by the Applicant. It is qualified to carry out the very worthwhile-appearing exploration project recommended in this Field Team report, and is capable of accomplishing the difficult underground exploration, development, and drainage operations expected to follow.

Recommendations

Approval of the Application is recommended on the Karcher tract only, for a DMEA project contract covering churn drill exploration to be carried out in two stages as may be justifiable and as detailed on closing pages of this report. Surface churn drilling of a maximum of 22 holes averaging about 400 feet in depth from the surface is expected to indicate and reasonably delineate and sample the inferred deposits, to the very minimum extent that would be required for a discovery certification. The Applicant, entirely at its own expense expects to do the follow up underground exploration which would be necessary to clearly indicate reserves and plan development in these unusual type deposits which are found on this northwestern edge of the Picher zinc-lead mining district.

Introduction and Recent Events

Review of factual data and discussions with the Applicant's representatives during preparation of the Application seemed to confirm that no known or indicated commercial ore remained to be developed in the area of the Karcher and Stebbins mines. The clean up and mining of some roof and pillar ore in progress obviously would deplete all the developed reserves so the Application proposal definitely was considered as proper for submittal to DMEA. The proposed search for additional ore reserves along the geologically inferred favorable-appearing trends extending from the depleted pod-like ore bodies was not construed as a possible development proposal.

With regard to the October 11 letter from Washington referring the Application to the Field Team, primarily to ascertain if any part of the Application proposal therefore properly should be construed as other than justifiable exploratory work, Amos (USGS, Champaign, Ill.) and Knox (USBM, Joplin, Mo.) jointly examined the properties on October 22, accompanied by Mr. Claud R. Jones, Managing President for the Applicant. The factual data and the exploration proposal were discussed more thoroughly that afternoon in Joplin with Mr. J. J. Inman, Manager, and Mr. W. F. Netzeband, Engineer-Geologist of the American Zinc, Lead & Smelting Co., which had assumed technical supervision of all the Applicant's mining operations.

Due to the urgency to find new ore reserves which would forestall the impending disbandment of all Karcher-Stebbins mining and drainage operations, and which would foster longer-range planning and development for lower-cost mining, the Applicant's program of long-hole prospect Jackdrilling was being continued from the obviously barren stope walls and faces.

After submitting the Application, some sphalerite was discovered in drilling one of the prospect holes from the southwest face of the northernmost Karcher stope (toward Site K-2 as designated in the Application). By the time of the Field Team examination the top heading of that stope face had been extended as an exploratory drift exposing the sphalerite-bearing material in the face which appeared to be sub-commercial and related to a faint fracture system. On the strength of that find, surface churn drilling of hole No. HH-3 was started the day of the Field examination. Projecting the apparent trend of the newly indicated fractures, that hole was spotted to explore the inferred new pod-like deposit at Site K-2 mentioned in the Application. In support of that inference, copies of the log and assays, following October 31 completion of that hole HH-3, were furnished the Field Team and are appended with this report.

The exploratory drift was widened since to permit mechanized mining and recently was extended to that highly indicative hole primarily for temporary compliance with a ventilation requisite for mining continuation which had been recommended by Mr. S. S. Clarke, Deputy State Mine

Inspector of Kansas. Copies of new Karcher and Stebbins maps from a survey by the Applicant's Consulting Engineer on November 28, 1956, also were furnished the Field Team (Fig. 3 and 4).

Thus, while the Field Team was convinced that the application proposal all properly could have been construed as necessary exploration work because no ore was known as of the date of the Application to justify any development work, the Field Team and the Applicant agreed that results of the recent exploration work make modification of the project proposal necessary. At the request of the local officials of the American Zinc, Lead & Smelting Co., representing the Applicant, completion of the Field Team report and recommendations, however, was held in abeyance pending discussions in St. Louis on whether withdrawal of the Application should be requested. Recently the Applicant's representatives indicated that they now are anxious for DMEA approval of the exploration plan endorsed by this Field Team report.

That planned exploratory churn drilling program is expected to reasonably delineate and sample the good ore recently found in hole HH-3 and likewise indicate sufficient adjacent reserves in other characteristic pod-like deposits favorably inferred on the Karcher tract along the indicated zones of alteration to justify necessary development work planned for lower-cost mining. Relatively large reserves would have to be indicated to warrant the most essential step for such developments. In that step the enlargement of the haulage crosscuts to the Karcher shaft is planned for adequate ventilation and to permit replacing the existing antiquated system of underground rope line "can" haulage with

modern diesel ore trucks as used now in most Tri-State mines.

On the other hand, a bold pattern of surface exploratory churn drilling as applicable in most other areas of the Tri-State mining district, undoubtedly would fail to prove very practical on the Karcher and Stebbins. Traditionally the ultraconservative well-balanced programs of surface churn drilling and underground exploration and geologic mapping have been profitable on the relatively small pod-like Stebbins-Karcher ore deposits. Although their average zinc-lead contents have been much higher than the other types of deposits being mined in the rest of the district, the Karcher-Stebbins deposits generally have presented comparatively small exploration targets completely isolated laterally by over 100 feet of barren rock without discernible connecting trends of mineralization or fracturing. Unless underground prospect drilling or drifting by the Applicant indicates a more significant-appearing exploration target than now presented on the Stebbins tract, the Field Team does not consider that Government assistance on surface churn drilling is warranted on that tract.

Location

The areas of proposed exploration (Fig. 1) are in Cherokee County, Kansas on the following contiguous tracts:

(1) H. G. Karcher, et. al. SW$\frac{1}{4}$, Sec. 34, T. 34 S., R. 23 E. (Fig. 3)

(2) Giulvezan and Koenig, NW$\frac{1}{4}$, Sec. 3, T. 35 S., R. 23 E. (Fig. 4)

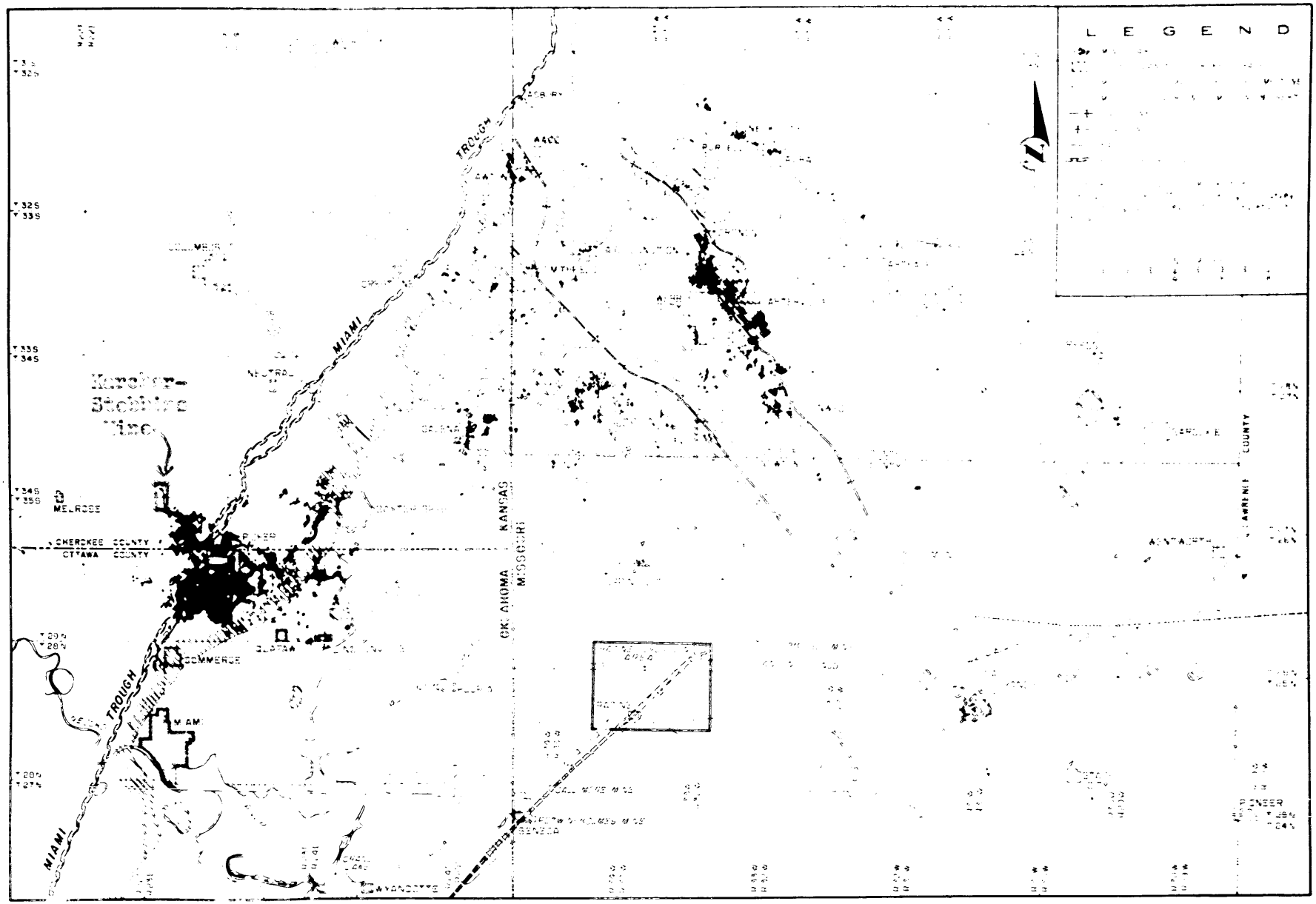

Figure 2. - Location Map, Tri-State Zinc-Lead Mining District

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An operating mine, known as the Karcher mine, is on the Karcher tract and the currently intermittent activities in the so-called Stebbins mine are on the Giulvezan and Koenig tract.

Access

Access is by paved U. S. Highway 166 which divides the properties along the township line. The tracts are level farm land and all easily accessible to drilling equipment.

Availability of Manpower, Supplies, Etc.

Experienced labor, equipment and supplies are locally available. A high-tension electric power line crosses the properties. Nearby mills do custom work. Copies of bids from three reliable independent churn drilling contractors were obtained by the Applicant and are attached herewith.

Applicant's Property Rights

Both tracts of land are held under ten year mining leases with ten-year renewal options. The landowner's royalty is 10 percent on the Karcher tract and 12½ percent on the Stebbins (Giulvezan and Loenig) tract.

The Applicant will enter into a Guaranty Agreement with the Government as may be required in lieu of an Owner's Consent to Lien.

In respect to funds for the previous Karcher shaft sinking and development work understood to have been advanced during the past 3 years by the American Zinc, Lead & Smelting Co., the latter virtually has been accorded top-level management of the Applicant company, and assumed all technical supervision.

Management, the Applicant, and the operating personnel mentioned in the Application, are known to Knox of the Field Team who is confident of this concern's financial responsibility and the competency of its designated operating personnel with regard to carrying out any obligations that may be incurred as a result of the Application proposal.

Past Work on the Properties

Past production from the two mines is given in the application and the underground workings and exploratory drill hole locations are shown on the maps (Figs. 3 and 4) accompanying this report. Logs of most of the holes are on file in the office of the U. S. Bureau of Mines, Joplin, Missouri. Logs of the remainder were made available to the field examiners by the Applicant. Pertinent data from logs of some churn drill holes nearest the proposed areas of exploration are appended hereto.

During the last few years the Applicant has conducted an extensive program of underground horizontal long-hole drilling of which all platted details and results also were made available for the study of the Field Team examiners.

The property, facilities, and mines were adequately described in the Application and on the attached maps.

Applicant's Proposal

The Applicant proposed drilling a total of 22 churn drill holes in four different areas on the properties. Three of the areas of proposed work are on the Karcher tract and the fourth is on the Stebbins. It is estimated that the holes would average 400 feet in depth.

The Applicant has indicated accord, however, with the Field Team's suggested alternative sites for some of the holes in the three Karcher areas, and the Field Team explained that recommendations for any drilling on the Stebbins area would be held in abeyance pending results of possible further underground exploration work which might indicate a worthwhile target.

Geology

The Karcher and Stebbins mines are along the northwesterly trending Bendelari trough on the northwestern edge of the Picher zinc-lead mining district (Fig. 1). The geology of the Picher district is given in numerous publications. Bibliographical references and data on this northwest part of the Picher area also are given in U. S. Bureau of Mines Reports of Investigations 4415 and 4811.

A generalized stratigraphic section for the vicinity of the Karcher and Stebbins mines is as follows:

System	Formation	Lithology	Thickness in feet
Recent	--	alluvium	5-20
Pennsylvanian	Cherokee	shale	200-250
	(unconformity		
	(Chester (Carterville)	limestone	20-40
	(unconformity		
	((B)		
	((C)		
	((D)		
	(Warsaw(E beds)	limestone and	90-100
	((F)	chert	
Mississi-	((G)		
ppian	((H)		
	((J)		
	(unconformity		
	((K bed)		
	((L bed)	limestone and	50-60
	((Short Creek)	chert	
	((oolite)		
	(Keokuk (M bed)		
	(((N bed)		
	((Grand(O bed)		
	((Falls(P bed)	chert	40-50
	(((Q bed)		
	(Reeds Spring	limestone	120-130
	(unconformity?	and chert	
	(Fern Glen	limestone	?

The combined Keokuk and Reeds Spring is known as the Burlington and the Warsaw, Keokuk, Reeds Spring and Fern Glen collectively is called the Boone group.

Mineralization in the area of proposed work occurs as small, disconnected, high--grade lenses. The larger ones contain up to 50,000 tons of predominately zinc ore and were separated laterally from one another by several hundred feet of barren or sporadically mineralized

ground. The ore is stratigraphically confined chiefly to the M bed of the Keokuk formation; minor deposits occur in the overlying K bed and in the upper strata of the underlying Grand Falls chert (N, O, P, and Q beds).

The ore is associated with areas of subsurface brecciation. Country rock within and adjacent to these areas of brecciation exhibits various degrees of alteration. This alteration is readily discernable in drill cuttings and is the best guide to ore in the area. The indicated and inferred zones of alteration are shown on the maps(Figs. 3 and 4) this report.

The Karcher mine is the most northwestern operation along the so-called Bendelari trough of the Picher mining district(Fig. 1) Small ore reserve blocks have been indicated by churn drilling on the J. M. Roper, J. B. Goodrich, and the D. W. Goodrich properties which are somewhat deeper and 1 to 2 miles northwest of the Karcher mine. Results of this drilling are given in U.S.B.M. Report of Investigation 4811. Records are available on 12 holes drilled on the 40-acre Frank Turrel tract immediately north of the Karcher. One hole encountered ore and five revealed indicative non-commercial mineralization. The sketch map (Fig. 2) indicates the locations and results of churn drill holes in adjacent areas to the north and west of the Karcher.

Suggested DMEA Project Contract

Only the Karcher tract in toto as described in the copy of

the lease attached with the Application, need be included in the recommended Project Contract.

The project work is expected to start within 30 days after date of the Contract, and be completed within 2 years(actual drilling time estimated to be 6 months).

The work shall consist of a maximum of 22 holes or 8,800 feet of churn drill exploration for zinc-lead ore deposits in two stages, all of the first to be completed unless agreed otherwise by the Government in writing, and as much of the work in the second stage shall be performed as the Government approves in writing.

STAGE I:

Churn drill 14 holes, each approximately 400 feet in depth, on tentative locations as shown in three exploration sites on the attached map of the Karcher tract (Fig. 3). Specific locations and depths of those holes, however, are to be subject to modification, or some may be eliminated entirely, with the written approval of the Government as drilling results are obtained to the extent necessary to achieve the project objectives. The tentative objectives at each of the three sites are as follows:

Site K-1, five holes about 100 feet apart to be drilled on a west-trending fence between holes P-20 and 8-CKE.

Site K-2, five holes about 100 feet apart to be drilled on a north-trending fence from hole 77 north along the centerline of the Karcher tract.

Site K-3, the remaining four Stage I holes to be drilled about 100 feet apart on a northeasterly trending fence about 250 feet northwest of the south stope of the Karcher mine.

STAGE II:

The balance of the allowable maximum drilling on locations justified by the Operator on the basis of the results of the Stage I work, and as approved by the Government in writing, may be expended on additional churn drill explorations. That additional drilling is to be done in an estimated eight holes interspersed as may be necessary on the Stage I fences of holes, and/or on additional fences of holes at 100 to 200-foot intervals along projections of inferred ore-bearing trends, to achieve reasonable delineation and sampling of any indicated ore discoveries.

Estimated Project Costs

Stage I:	Unit cost/ft.	Total
(a) Independent oontracts 5,600 feet churn drilling	$1.95	$10,920
(b) Supervision and Consultants 1/3 time of Project Geologist-Sampler 4 mos.	0.14	800
Consl. Engineering and Surveying 4 mo. at $50	0.04	200
(c) None		
(d) Car expenses of Supervisors 4 mo. at $46	0.03	184
(e) None		

Estimated Project Costs-cont'd

Stage I:(cont'd)	Unit cost/ft.	Total
(f) None		
(g) Miscellaneous		
300 samples analyses for zinc and lead at $2.75	$0.15	$ 825
Payroll taxes and Ins.	0.02	80
Total Stage I	$2.33	$13,009
Stage II:		
3,200 feet of additional churn drill exploration	$2.33	$ 7,454
Estimated total cost	$2.33	$20,463
Estimated Government participation at 50 percent		$10,231

*****

APPENDIX I

Field Team Examination Report
DMEA-4478

Pertinent Drill Hole Data

Karcher Tract (SW¼ Sec. 34)(South Part)

Hole No.	Total Depth	Base of Penn. Cherokee Shale	Mississippian-Boone "J" Bed	Mississippian-Boone "M" Bed	Ore Horizon
6	402	198	320-325	330-375?	None
7	400	203	320-334	343-?	334-343 Zn. & Pb. Shines
8	420	207	315-340	344-395	385-390 Zn. Shines
11	405	214		?-382	None
13	399		335-340	360-?	362-365 Zn. Shines
16	420	212			380-385 Zn. Shines
21	427	200		335-?	None
22	409	195		?-400	None
25	418	205		?-390	None
26	425	203	320-330		390-392½ 0.07 Zn - 0.18 Pb
					392½-397½ - 0.23 Pb
					397½-410 0.20 Zn - 0.18 Pb
					410-414 - - 0.18 Pb
27	419	200	315-335	?-415	None
30	417	210	335-340	?-400	366-370 0.50 Zn - 0.55 Pb
					370-377½ 0.80 Zn - 0.36 Pb
					377½-380 0.60 Zn - 0.37 Pb
					380-390 0.75 Zn - 0.32 Pb
					390-395 0.40 Zn - 0.64 Pb
38	395	245	320-?	335-?	330-335 Zn. Shines
39	420	220			330-335 Zn. & Pb. Shines
40	417	212		?-390	None
41	400	215	325-?		375-380 Zn. Shines
42	417	205		345-385	None
43	420	220		?-400	335-345 0.50 Zn - 0.65 Pb
					395-400 0.21 Zn - 0.32 Pb
44	405	217			335-345 Pb. Shines
					385-389 Pb. & Zn. Shines
45	415	218	335-?		339-344 - 8.90 Pb
					344-346½ - 2.45 Pb
					346½-349 - 0.95 Pb

Karcher Tract (SW¼ Sec. 34)(South Part)

Hole No.	Total Depth	Base of Penn. Cherokee Shale	Mississippian-Boone "J" Bed	Mississippian-Boone "M" Bed	Ore Horizon		
46	422	245		?-395	363-366	0.15 Zn	0.06 Pb
					370-375	0.80 Zn	0.09 Pb
					375-387½	0.45 Zn	0.09 Pb
					387½-392½	0.65 Zn	0.09 Pb
47	413	216	340-?	?-395	375-395	Zn	
48	410	216	340-345	?-395	345-350	0.15 Zn	0.63 Pb
					350-352½	0.12 Zn	0.28 Pb
					355-357½	0.25 Zn	1.10 Pb
					357½-360	0.45 Zn	1.25 Pb
55	407	209		?-395	None		
56	413	210		?-390	None		
57	405	240			None		
58	400	200	340-?		None		
60	407	235		?-395	None		
66	428	205	315-?	?-390	None		
73	408	214	320-325	?-395	None		
C-8	415	220		?-385?	370-390	Zn & Pb Shines	
C-21	408	218		350-?	None		
C-24	408	203			None		
C-26	410	201	325-?		None		
C-28	406	205		340-?	None		
C-31	427	203	335-?		None		
C-32	425	207	320-325		None		
C-33	425	215		?-400	365-370	Zn Shines	
					375-380	Zn Shines	
C-34	392	221			360-365	Zn Shines	
					370-392	Zn Shines	
C-35	407	209	320-325	345-?	None		
C-36	426	250		?-402	360-365	Pb Shines	
					380-396	0.10 Zn	0.40 Pb
					396-397½	0.10 Zn	3.10 Pb
					397½-408	-	0.40 Pb
C-37	407	212	320-325	?-390?	None		
C-38	386	230			None		
C-39	400	235	325-?		375-380	1.20 Zn	
					380-382½	0.65 Zn	
					382½-385	0.55 Zn	
					385-390	0.35 Zn	
					390-392½	0.15 Zn	
P-14	403	205	330-338		None		
P-15	405	208		338-?	None		
Stebbins Tract(NW¼ Sec. 3)							
8-UNL	400	203		330-?	None		
10-UNL	400	205		340-?	None		
12-UNL	390	212		340-385	None		

Hole No.	Total Depth	Base of Penn. Cherokee Shale	Mississippian-Boone "J" Bed	"M" Bed	Ore Horizon	
Karcher Tract(SW¼ Sec. 34)(North Part)						
74	402	210	320-336	?-390	350-355	0.35 Pb
					355-357½	0.24 Pb
					357½-360	0.08 Pb
75	407	209	325-340	?-395	350-357½	Zn. & Pb.
77	411	210	330-335	342½-388	335-340	Zn. Sh. & Pb. Sh.
2-AB	407	204		?-385	280-285	Pb. Tr.
					330-335	Zn. Sh.
					380-385	Pb. Tr.
					385-390	Zn. Tr.
					397½-400	2.85 Pb
					400-402½	Pb. Sh.
BM-9	430	200 (See R.I. 4415)		350-?	395-405	Pb. Tr.
BM-11	405	200 (" " ")		355-?	320-325	0.72 Zn 0.02 Pb
					385-390	Pb. Tr.
Parmenter Tract(SE¼ NE¼ Sec 33)						
8A	435	225			420-425	1.80 Zn
					425-427½	2.20 Zn
Frank Turrel Tract(SW¼ NW¼ Sec 34)						
1					395-415	Zn. Tr.
2					None	
3					370-390	Good Zn. Sh.
4					None	
5					None	
6					None	
7					None	
8					350-360	Good Zn. & Pb. Sh.
					360-365	7.10 Zn. 0.45 Pb
					365-370	1.25% Zn. 1.10 Pb
					370-375	Zn. Sh.
9					340-380	Pb. Sh.
10					370-375	Zn. Sh.
11					370-375	Zn. Sh.
12					None	

Hole No.	Total Depth	Base of Penn. Cherokee Shale	Mississippian-Boone "J" Bed	Mississippian-Boone "M" Bed	Ore Horizon
Karcher Tract (SW¼ Sec. 34)(North Part)					
4-CKE	408	193		345-390	325-330 Zn. Tr.
					340-342½ Zn. Sh.
7-CKE	407	200		345-390	400-405 Pb. Tr.
8-CKE	407	185		340-385	310-315 Zn. Tr.
					335-340 Zn. Tr.
9-CKE	400	195		345-?	320-325 Zn. Tr.
10-CKE	410	192		335-?	None
11-CKE	400	198			270-280 Zn. Tr.
					280-287½ Zn. Sh.
					287½-292½ Fair Zn.
					292½-295 Zn. Sh.
					295-297½ Zn. Tr.
12-CKE	400	197			265-270 Zn. Tr.
					280-285 Zn. Tr.
					295-300 Zn. & Pb. Sh.
					300-305 Zn. Tr.
13-CKE	405	192			227½-232½ Zn. Tr.
					265-267½ Zn. Sh.
					300-305 Zn. Tr.
					390-395 Zn. Tr.
P-17	404	205			330-345 Pb. Tr.
					365-400 Zn. Tr.
P-18	398	202			None
P-20	402	201			385-395 Pb. Tr.
					395-402 Pb. Sh.
P-22	401	201			None
P-23	411	200		350-380?	320-330 Zn. Tr.
49	425	212			395-400 Zn. Tr.
					345-350 0.09ZnS 0.13 PbS
					350-352½ 0.18ZnS 0.29 PbS
					352½-355 0.09ZnS 0.11 PbS
59	402	220			369-370 Ore Reported
67	414	212	330-335		335-340 Zn. Sh.
					340-345 1.00Pb(Est.)
					345-347½ Pb. Sh.
68	421	210		360-390?	335-340 Pb. Sh.
					360-390 Zinc
69	Log missing				
70	380	215	314-?		310-314 Pb. Tr.
					365-375 Zinc
71	440	215		?-402	365-372½ Zinc
					397-402 Zinc
72	425	208	325-335	?-395	335-340 Pb. Sh.
					350-355 Pb.

HELEN H. MINING COMPANY
P. O. BOX 29
BAXTER SPRINGS, KANSAS

DRILL HOLE RECORD

PROPERTY Karcher HOLE NO. HH-3

LOCATION 157' North and 138' East from Southwest Corner, NE¼-SW¼ Sec. 34, Twp. 34S, Range 23E, Cherokee County, Kansas

HOLE COMMENCED: 10/22/56 STRUCK WATER AT 170-385 ft
HOLE FINISHED: 10/31/56 WATER STANDS AT 385 ft
DRILLMAN: W. Shouse
CONTRACTOR: Shouse Browthers Drilling Co.

Depths		Formation	Feet
0	22	Soil and clay	
22	150	Shale	
150	170	Gray Sandstone	
170	203	Gray sandy shale	
203	205	Gray lime, heavy marcasite & chalcapyrite	
205	210	Gray lime, mottled blue and gray flint	
210	220	Gray lime, white flint, heavy tar	
220	225	White lime, some pale gray flint	
225	245	Cotton rock	
245	260	Dense gray lime, some light blue flint	
260	275	Light gray lime, little light gray flint	
275	290	Light gray lime	
290	295	Light gray lime, little blue flint	
295	320	Dense light brown lime, blue and gray flint	GH
320	325	Dense brown lime, dark gray flint	GH
325	335	Dense, flaky, dark gray lime, glauconite	J
335	340	Same with 1/4" rhombs of calcite, lead traces	J
340	345	Tan and gray leached jasperoid, calcite, lead & zinc shines	K
345	347½	Medium gray and brown flint, little tan jasperoid, zinc shines, lead traces	K
347½	355	Translucent gray flint	L
335	360	same good zinc shines	L
360	365	same zinc ore	L
365	367½	Translucent gray flint, tan sandy jasperoid, fair zinc	M?
367½	372½	Gray, blue & white flint, tan sandy jasperoid, fair zinc	M
372½	375	Translucent light gray flint, zinc shines	M
375	380	Mottled gray flint, sandy jasperoid, zinc ore	M
380	382½	Sandy jasperoid, dark gray flint, good zinc ore	M
382½	385	Sandy jasperoid, black jasperoid, mottled flint, tiff, cavey? good zinc ore	M
385	392½	White & gray flint, sandy jasperoid, good zinc ore	M
392½	395	Pale gray & white flint, lead traces, zinc falling	N
395	400	Dark gray flint	N

Left 51 ft. of 6¼" Casing in hole

ASSAYS ATTACHED -

HELEN H. MINING COMPANY
P. O. BOX 29
BAXTER SPRINGS, KANSAS

PROPERTY - Karcher

HOLE NO. HH-3

ASSAYS

Footage		Zinc	Lead
340	345	2.20	0.39
345	347½	1.18	0.19
355	360	2.68	
360	362½	4.66	
362½	365	7.02	
365	367½	3.60	
367½	370	3.68	
370	372½	2.60	
372½	375	1.96	
375	380	4.34	
380	382½	14.54	
382½	385	19.20	
385	387½	11.82	
387½	390	8.22	
390	392½	5.50	

Kingsbacher
Betty

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON, D.C.~~
Box 431
Joplin, Missouri

RECEIVED
OCT 22 1956

October 18, 1956

Mr. Claud R. Jones, President
Helen H. Mining Company
Post Office Box 29
Baxter Springs, Kansas

Docket

Re: Docket No. DMEA-4478 (lead-zinc)
Helen H. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

Your application for Government exploration assistance on the cited property has been referred to me for examination.

Tentative arrangements have been made for Dewey Amos, USGS, Knoxville, Tennessee, and I to make that examination and discuss the application proposal with you Monday October 22. Therefore, we would appreciate having you or your representative accompany us on the underground examination that morning.

I will contact Mr. Dan R. Stewart or Mr. John J. Inman today with regard to the location of your office where we will plan to meet you about 8:00 A.M. next Monday.

Sincerely yours,

CCK/enn

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

cc: DMEA Op.Com.(2)
Amos,USGS,Champaign
Laurence,USGS,Knoxville
4478 file

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON, D.C.~~
Box 431
Joplin, Missouri

RECEIVED
OCT 1 3 1956

October 10, 1956

Mr. Robert A. Laurence, Executive Officer
DMEA Field Team, Region V
U. S. Geological Survey
Room 13, Post Office Building
Knoxville 2, Tennessee

Re: DMEA-4478 (lead-zinc)
Helen H. Mining Co.
Karcher mine
Cherokee County, Kansas

Dear Bob:

Referring to your penned note of October 4, I was glad to learn that the Survey's part in Picher field examinations will be handled by your office.

On the assumption that Field Team referral of the cited application will be forthcoming from Washington soon, I tentatively agreed to examine the pertinent underground workings with Mr. Claud R. Jones, President of the Applicant Company, Monday October 22.

Because this presents a good opportunity for Dewey Amos, or whoever you might have available, to see such a mine in the Picher field with us, you are hereby informed of my plan.

I will mention this to Dewey when I meet him for the St. Joe (DMEA-4443) examination and the National Lead (DMEA-1371) project inspection next Monday, October 15, on the chance that he might be able to arrange to come to Joplin for the following Monday.

If that suggested joint Field Team examination of the Helen H. properties on October 22 would not be timely, or convenient for anyone in your organization, no doubt Mr. Jones would be pleased to conduct your man on a geologic examination at any later date, or I will prepare the complete Field Team examination report and recommendations as best I can.

Sincerely,

Clinton C. Knox

CCK/enn

cc: DMEA Op.Com.(2)
Amos, USGS, Champaign
4478 file

File Copy
Surname
Klugescheid
Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

OCT 11 1956

Mr. Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV
Post Office Box 431
Joplin, Missouri

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen M. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Knox:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

Unfortunately, most of the drilling proposed in this application is development work rather than exploration.

On the Stebbins tract none of the proposed holes marked S-1 are much more than 100 feet in advance of the stope outlines and no appreciable reserves can be developed by this drilling. This particular phase of the work would therefore be unacceptable as an exploration project. Since the inception of the mining operations of the Applicant only one churn drill hole has been drilled from the surface on this tract. It may be that, by a field examination or by checking the results obtained in the drill holes, it would be possible to discover a legitimate target for drilling that would promise some hope of appreciable future reserves.

On the Karcher tract the series of holes marked K-1 and K-3 are again only a relatively short distance ahead of the stope faces. The K-2 series might possibly be, at least partly, exploration or it may be only an effort to fill in information in this area, depending upon the results that were obtained in the considerable number of holes which were drilled in the upper right hand corner of the southwest quarter of the tract. Here again it may be possible to unearth some more acceptable plan of attack.

R.C.S.

If a revised project is favorably considered by the Field Team, three bids must be submitted for the drilling and Consents to Lien must be obtained from the lessors.

Copies of memoranda dated October 2 and 3, 1956, by W. P. Williams, Geological Survey and O. N. Bishop, Bureau of Mines, respectively, relating to the project are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Enclosures

APPROVED:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

WPKlugescheid/er 10/10/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

1 set to Region IV
1 set to Region V (HB)

File Copy
Surname
Klugescheid,
Lamb
Kiilsgaard
Selfridge

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

OCT 11 1956

Mr. Claud R. Jones, President
Helen M. Mining Company
Post Office Box 29
Baxter Springs, Kansas

Re: Docket No. DMEA-4478 (Lead-Zinc)
Helen M. Mining Company
Karcher and Stebbins Mines
Cherokee County, Kansas

Dear Mr. Jones:

Your application for Government assistance to explore the cited property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration and has been referred to:

Mr. Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV
Post Office Box 431
Joplin, Missouri

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 10/10/56
Copy to: Docket
Admr R File
Oper. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region IV (2)
Chron.
Region V (1)

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

RECEIVED
OCT - 3 1956

October 3, 1956

Re: DMEA 4478; Zinc-Lead;
$20,763
Helen H. Mining Company
Karcher mine & Stebbins
Cherokee County, Kansas

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, Branch of Base Metals

Subject: Application for exploration assistance dated September 26, 1956, received September 28, 1956.

The applicant companys holds 10-year, renewable leases on the contiguous Karcher and Stebbins mining properties which form an equipped mechanized mining operation. Production from March 1952 to July 1956 totals 170,000 tons of ore assaying about 3.8% zinc and 0.14% lead. The known orebody, with the exception of 34,000 tons of isolated ore in two blocks about 600 feet of the stoping area, is mined out.

The applicant proposes 22 churn drill holes totaling 8,800 feet to seek out possible orebodies in zones of subsurface rock alteration.

The 4 holes proposed in the group S-1 explore the southwest ore trend 100 feet beyond a stope on the Stebbins land and the series K-1, K-2, and K-3 similarly explore projections beyond stope faces in probable zones of rock alteration on the Karcher land.

I am not impressed with the exploration proposed as a field for DMEA work. Certainly the hole placement is logical method to provide data on projections that might yield some small ore tonnage, but the application does not appear to have a target beyond a clean-up operation.

O. M. Bishop

O. M. Bishop

Copy to: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Bishop
Files

IN REPLY REFER TO:

Abeyanted

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

RECEIVED
OCT - 2 1956

October 2, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of application, DMEA 4478, Helen H. Mining Company, Stebbins and Karcher tracts, Tri-State district, Cherokee County, Kansas (lead-zinc).

The applicant proposes to explore for new extensions of previously known and mined lead-zinc deposits. The proposed work would consist entirely of churn drilling. Four sites, located about a hundred feet from the ends of underground workings, have been chosen as places to do the drilling. Presumably, the headings have run out of ore; however, that should be verified by mine examination.

A discrepancy exists on page 11 of the application where the applicant lists 16 hole locations, and four follow-up locations, for a total of 22 proposed holes.

It may be argued that the proposed drill holes, so close to mine openings, represent mine development and preparation for mining rather than exploration for new ore deposits.

From what information is available in the application, it appears that the proposed drilling would have a good chance of finding extensions of the known deposits.

If the proposed project falls within DMEA's purposes and objectives, I recommend that the application be referred to the Field Team for field examination and report.

W. P. Williams

W. P. Williams

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

September 28, 1956

Helen H. Mining Company
P. O. Box 29
Baxter Springs, Kansas

Subject: DMEA-4478
Re: Exploration Assistance
Karcher Mine

Gentlemen

Your application for exploration assistance, dated September 26, 1956 submitted to our office at Joplin, has been assigned Docket Number DMEA-4478 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

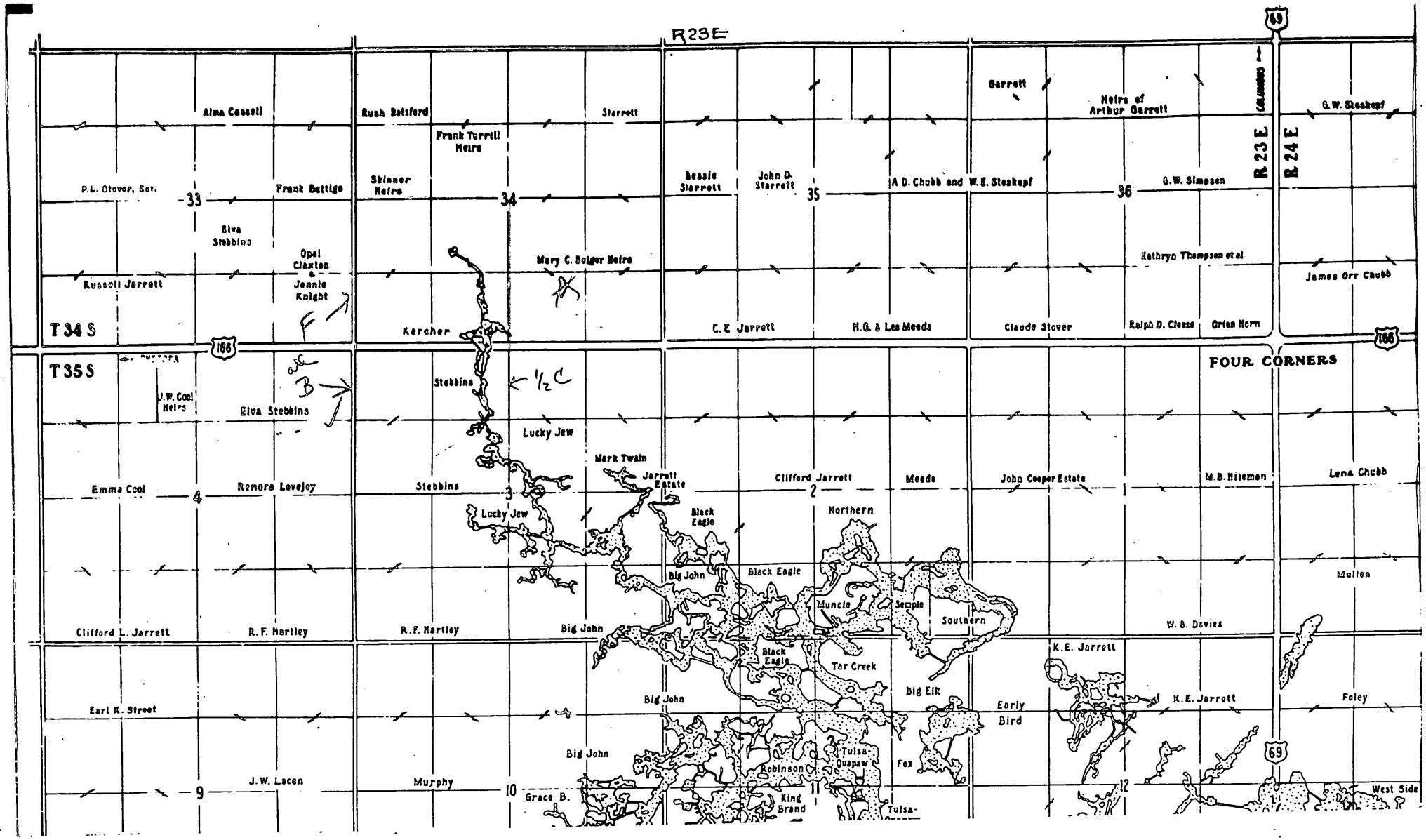
Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

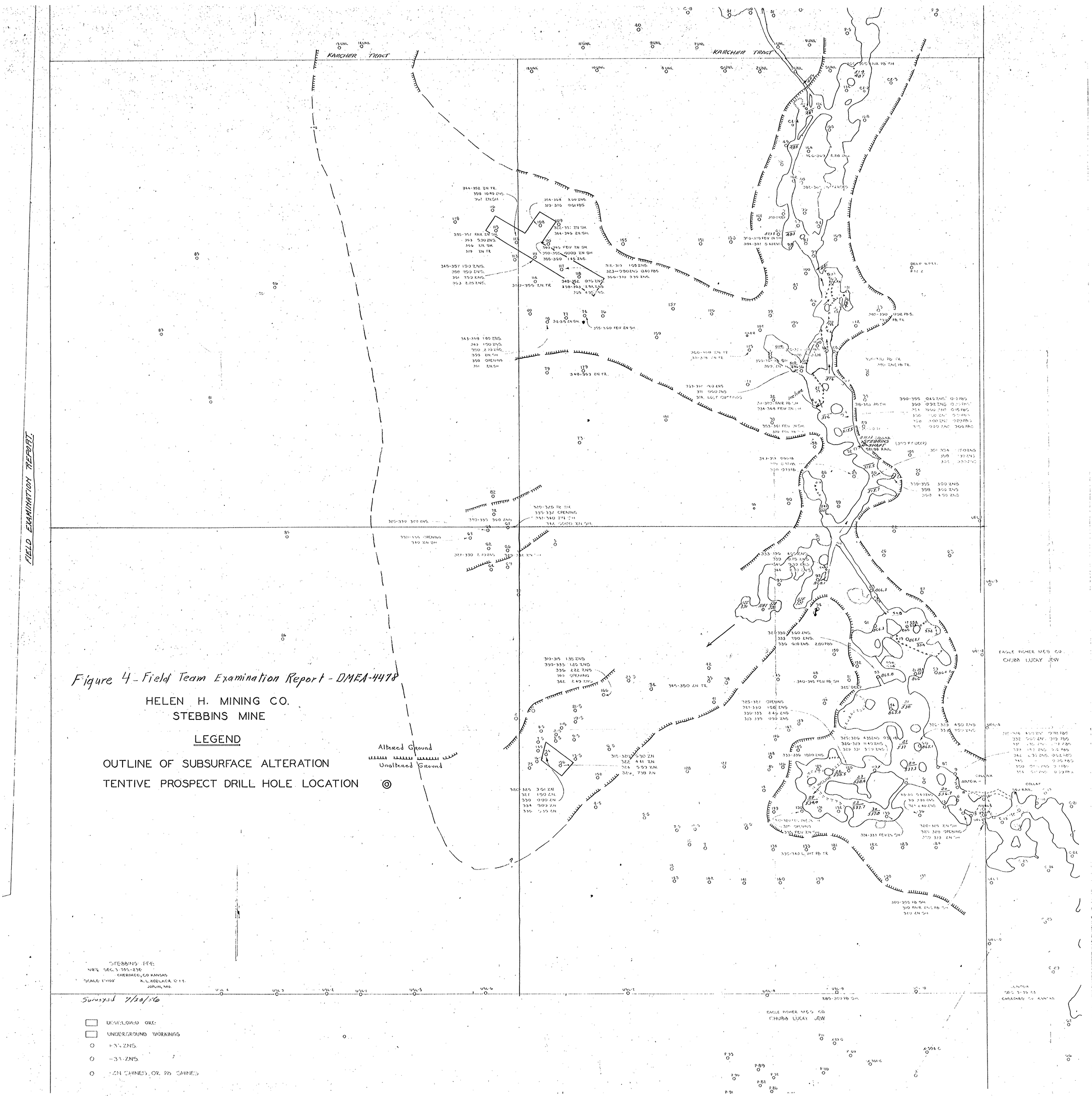
Copy to:

Region IV. Joplin, Missouri
Code 500

3571



INDEX MAP SHOWING LOCATION OF STEBBINS AND KARCHER MINES


FIELD EXAMINATION REPORT
KARCHER TRACT
KARCHER TRACT
Figure 4 - Field Team Examination Report - DMEA-4478
HELEN H. MINING CO.
STEBBINS MINE
LEGEND
OUTLINE OF SUBSURFACE ALTERATION
TENTIVE PROSPECT DRILL HOLE LOCATION
Altered Ground
Unaltered Ground
STEBBINS PROP.
NW¼ SEC. 3 35S-23E
CHEROKEE, CO KANSAS
SCALE: 1"=100'
K.L. KOBLAER & ASS.
JOPLIN, MO.
Surveyed 7/22/56
DEVELOPED ORE
UNDERGROUND WORKINGS
EAGLE PICHER M&S CO.
CHUBB LUCKY JEW
EAGLE PICHER M&S CO.
CHUBB LUCKY JEW
CHEROKEE CO. KANSAS

FIELD EXAMINATION REPORT

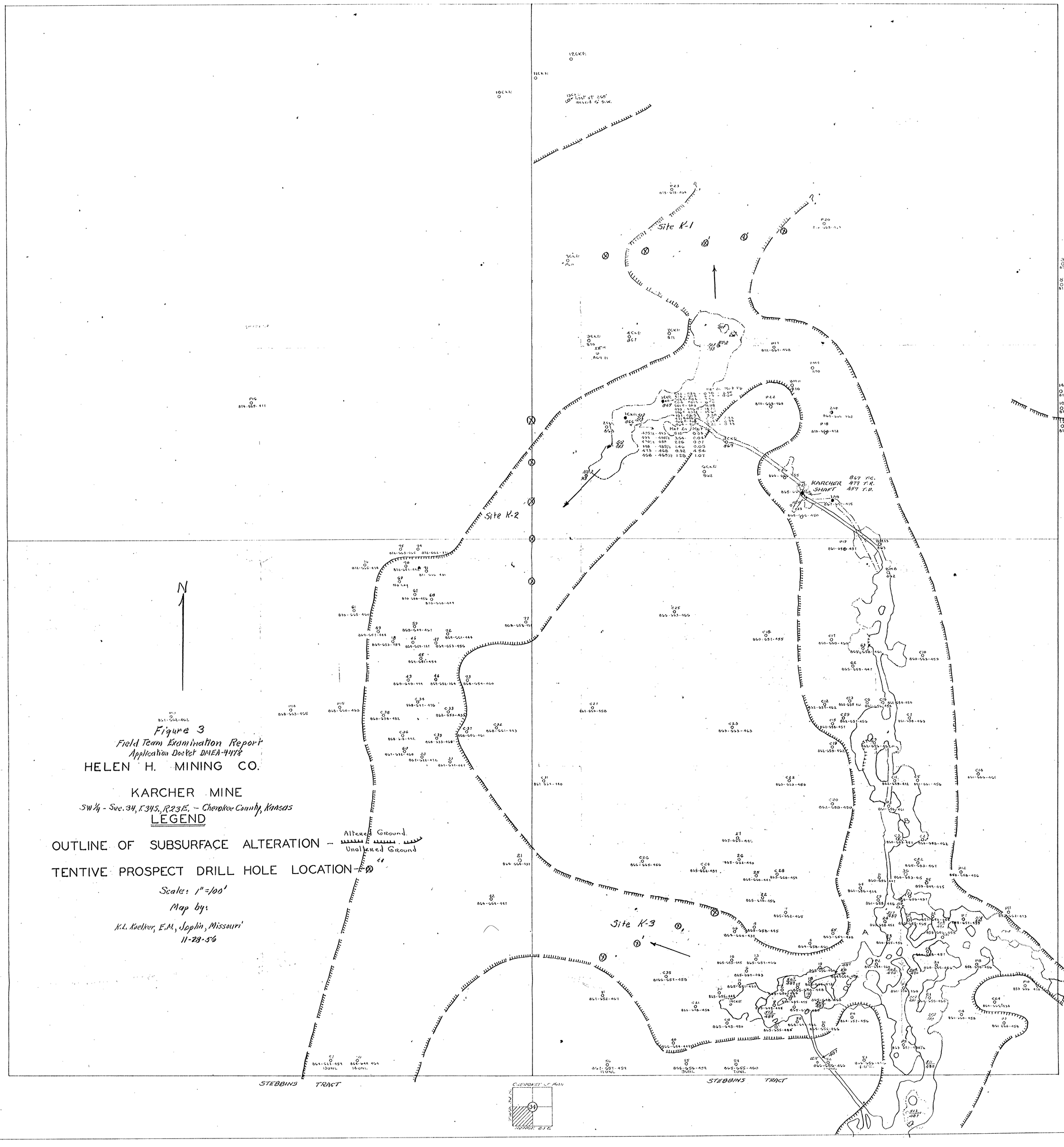


Figure 3
Field Team Examination Report
Application Docket DMEA-4478

HELEN H. MINING CO.

KARCHER MINE

SW 1/4 - Sec. 34, T.34S., R23E. - Cherokee County, Kansas

LEGEND

OUTLINE OF SUBSURFACE ALTERATION - Altered Ground / Unaltered Ground

TENTIVE PROSPECT DRILL HOLE LOCATION - ⊗

Scale: 1" = 100'

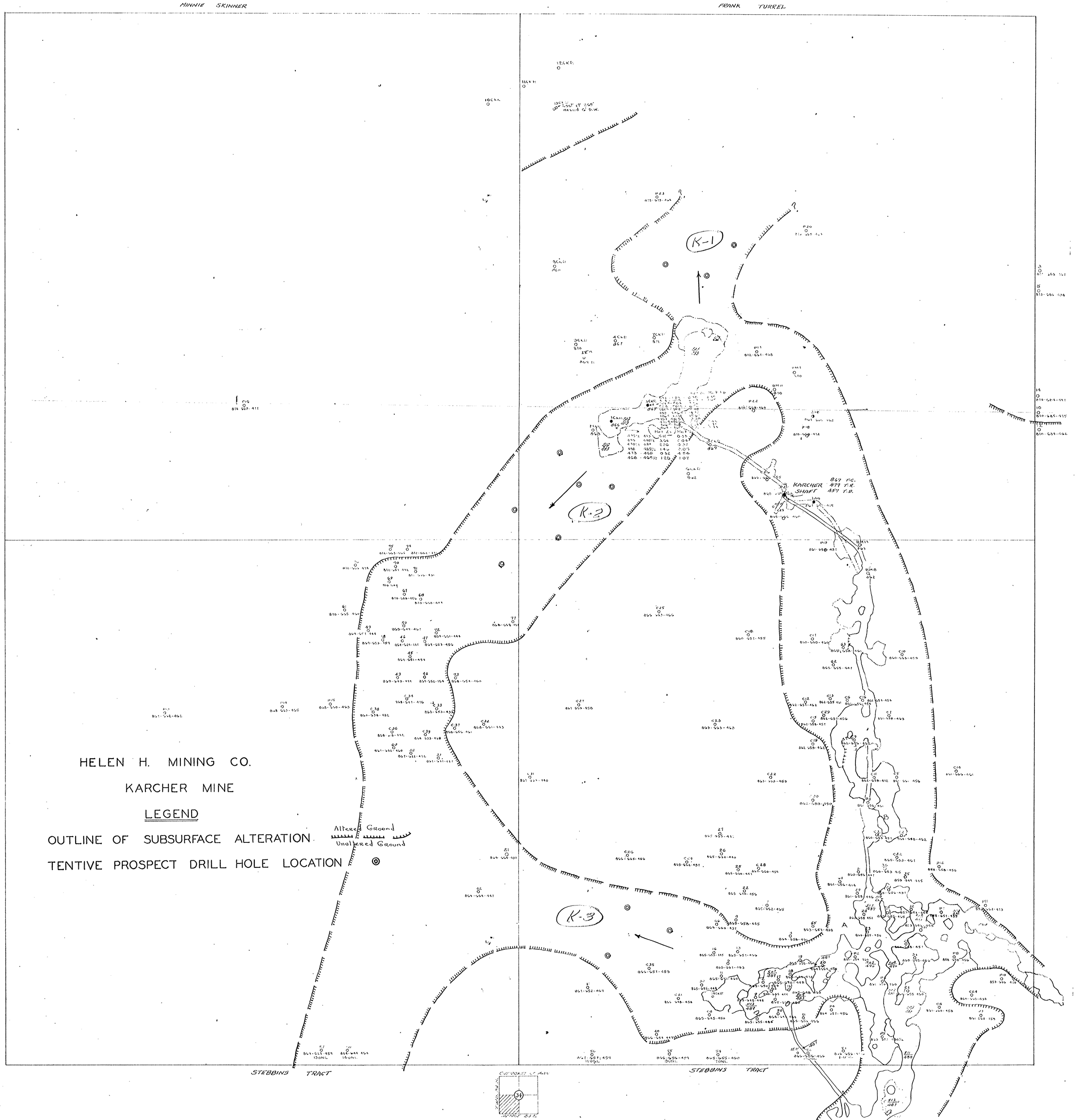
Map by:

K.L. Koelker, E.M., Joplin, Missouri

11-28-56

MINNIE SKINNER

FRANK TURREL



HELEN H. MINING CO.

KARCHER MINE

LEGEND

OUTLINE OF SUBSURFACE ALTERATION

TENTIVE PROSPECT DRILL HOLE LOCATION

O - + 3 Zns - Pbs

O - - 3 Zns - Pbs

O - Zns. Shines

O - Pbs Shines

880-665-470 — 880 - Surface Sea Level Elevation; 665 - Bottom of Shale; 470 - Bottom of Hole

+530 to -451 (Silt) (Flint) (Silicification) (Sea Level)

L. + F. - Lime + Flint

- Flint (Silicified Area)

- Lime + Flint

- Developed Ore Body

- Mined Area

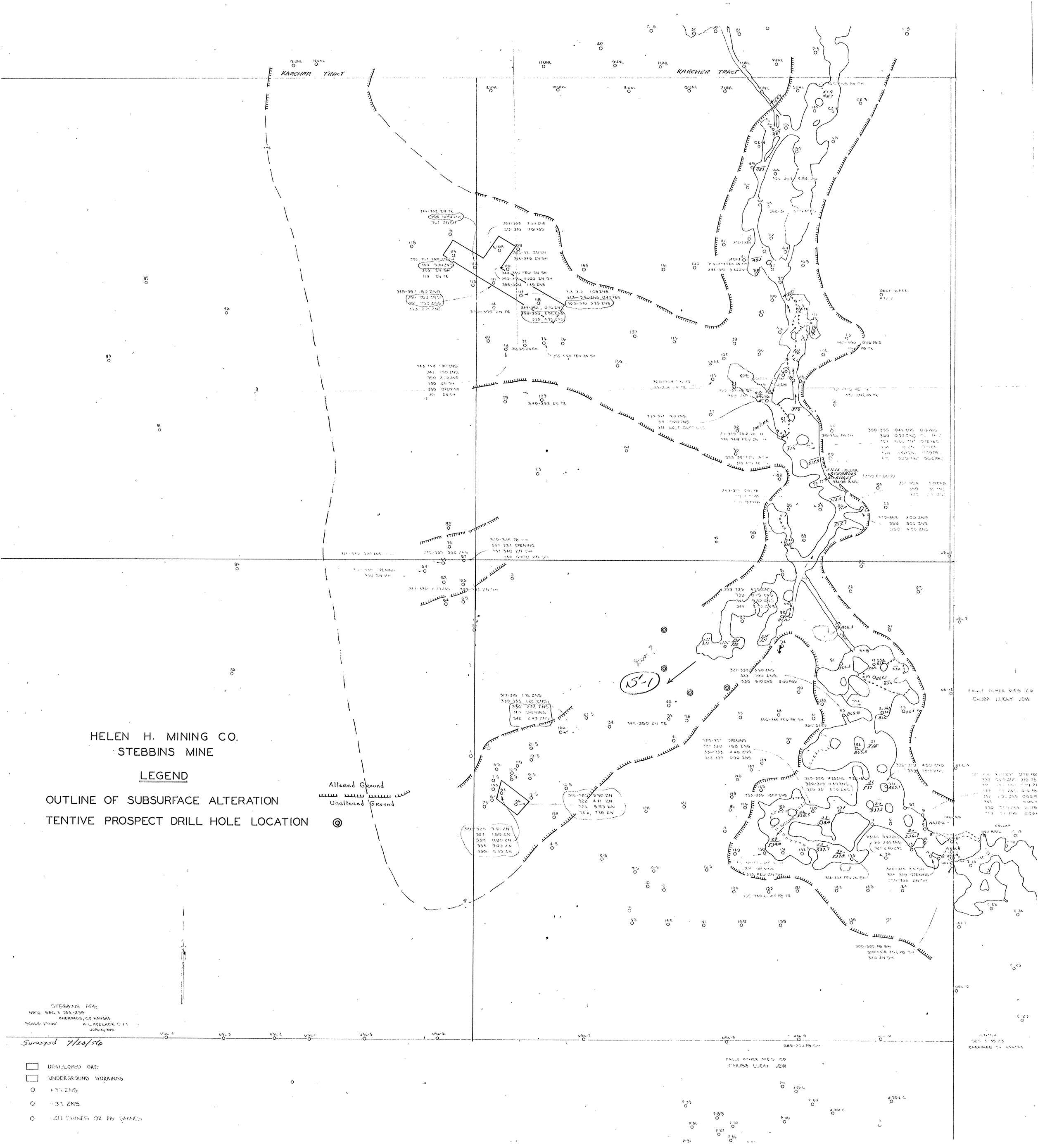
KARCHER LAND

S.W. 1/4 Sec. 34-34S-23E. Cherokee Co Kans.

Scale: 1 in. = 100 ft.

Date: 7-23 56

K. KOELKER E.M.
JOPLIN, MISSOURI.


HELEN H. MINING CO.
STEBBINS MINE
LEGEND
OUTLINE OF SUBSURFACE ALTERATION
TENTIVE PROSPECT DRILL HOLE LOCATION
Altered Ground
Unaltered Ground
KARCHER TRACT
KARCHER TRACT
STEBBINS SHAFT
FAULT
INCLINE
COLLAR
WATER
FAULT
CHUBB LUCKY JEW
FAULT
CHUBB LUCKY JEW
DEVELOPED ORE
UNDERGROUND WORKINGS