700

FILE COPY
Surname:
Murphy
Released
Kelly
Aldridge
Johnson

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

NOV 19 1956

Mr. James E. Martin, President
Lucy Gray Gold Mining Company
Route 1 - Mill Creek Canyon Park
Mentone 7, California

Re: Docket No. DMEA-4383 (Tin, et al.)
Lucy Gray Group
Clark County, Nevada

Dear Mr. Martin:

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

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

Careful study of all our information indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 11-16-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Reg. II (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.S.

Docket
Murphy
Ellis

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4383

Commodity: Tin, uranium, rare earths, quartz crystals, chromium, lead, zinc, copper, antimony, and tungsten.

Applicant: Lucy Gray Gold Mining Company
Mr. James E. Martin, President
Route 1 - Mill Creek Canyon Park
Mentone 7, California

Property: Owner of 9 claims, the Lucy Gray Group, situated in secs. 32 and 33, T. 27 S., R. 60 E., M.D.B.M., Clark County, Nevada.

Amount of Application: $69,500.00, latter revised to $104,900.00.

Date of Application: July 9, 1956

More information requested: July 20, 1956

Referred to Region II: September 10, 1956

Field Examination made: October 12, 1956

Field Team Report received: November 9, 1956

Work Proposed:

No definite program was proposed. However, from the map submitted it would appear that the exploration work would consist of an open-cut about 1600 feet long and 1000 feet wide. The depth of the cut was not given.

Estimated Costs:

Labor, Supervision, Consultants	$25,000.00	
Operating Materials & Supplies	5,850.00	
Operating Equipment (purchase)	37,050.00	
Contingencies	37,000.00	
TOTAL		$104,900.00

Excerpts from the Field Team Report:

Gold and silver of possible supergene origin occur in fractures along shear zones in a steeply-plunging breccia zone in gneissic granite.

The Lucy Gray mine is developed by a 300-foot vertical shaft with 3,200 feet of drifts on three levels. Other workings include several shallow prospect shafts, adits, and prospect pits. Most of the workings are unsafe to enter because the property has been idle for many years. It is estimated that gold production from the mine amounted to $50,000.00 from approximately 4,000 tons of ore milled. It is reported that the grade of the material mined flucuated widely.

There are no indications that any of the ten commodities listed in the application occur in sufficient quantity, or are of high enough grade or quality, to be ore, either at the present time or in the foreseeable future. No tin minerals were seen in the prospect pit on the Sunrise claim where the Applicant stated tin ores occurred, and tin was not detected chemically in a sample taken.

The Field Team and field examiners recommend that the application be denied.

Commodity Member's Comments:

USBM, Abbot Renick, November 13, 1956:

Mr. Renick concurs in the Field Team's recommendation.

USGS, N. E. Nelson, November 14, 1956:

Mr. Nelson notes that the field examiners found no evidence of tin values aond concurs in the Field Team's recommendation that the application be denied.

Rare and Miscellaneous Metals Div., F. M. Murphy, November 16, 1956:

The work proposed by the Applicant might be considered as exploitation of an inferred body of ore. However, the field examiners could find no evidence that the strategic metals or minerals, named in the application, might occur on the property in sufficient quantity or quality to constitute an ore deposit.

Conclusion and Recommendation:

This Division concurs in the Field Team's recommendation that the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

11-15-56

IN REPLY REFER TO:

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

RECEIVED NOV 15 1956 D.M.E.A.

November 14, 1956

Re: DMEA 4383
Lucy Gray Mining Co.
Lucy Gray Group
Clark County, Nevada
$104,900.00 - Tin, et al.

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in rehabilitating an old gold mine in order to mine tin ore assumed to be present. No data were given in support of the assumption that tin is present.

The examiners found no evidence of tin values and with the Field Team recommend denial of the application.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

11-15-56

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

November 13, 1956

RECEIVED
NOV 14 1956
D.M.E.A.

Memorandum

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

From: Abbott Renick, Commodity Specialist, Branch of Base Metals

Subject: Review of field team report, Docket DMEA No. 4383 (Tin, et al), Lucy Gray Gold Mining Co., Lucy Gray Group, Clark County, Nevada

The informative report of the examiners supports their conclusions and the recommendation that Certification of Discovery be denied for this project. I concur with the recommendation of the field team.

Abbott Renick

Abbott Renick

Copy to Division of Minerals
Branch of Base Metals (2)
T.H. Kiilsgaard, Room 5224
F.D. Lamb, Room 3608
FILES

11-14-56

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

1605 Evans Avenue
Reno, Nevada

November 7, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Acting Executive Officer, DMEA Field Team,
Region II

Subject: Docket No. DMEA-4383 (Tin, et al)
Lucy Gray Gold Mining Company
Lucy Gray Group
Clark County, Nevada

Reference is made to y our letter of September 10, 1956, requesting a field investigation of the subject property.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines, and D. B. Tatlock, Geological Survey. The authors recommend that the application be denied because none of the ten commodities listed in the application occur in sufficient quantities to be ore.

Mr. Ricker and I concur in this recommendation.

Roscoe M. Smith

Roscoe M. Smith

Attachs.

Reviewed by
DMEA OPERATING COMMITTEE
11-14-56
(date)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4383 (Tin, et al.)
James Earl Martin, president
Lucy Gray Gold Mining Company
Lucy Gray mine
Clark County, Nevada

by

B. H. Sheahan
U. S. Bureau of Mines

D. B. Tatlock
U. S. Geological Survey

November 5, 1956

DMEA [illegible]
11-14-56
(date)

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ILLUSTRATIONS

Figure 1 . . . . . Location map

INTRODUCTION

Mr. and Mrs. James Earl Martin, Route 1, Mill Creek Canyon Park, Mentone 7, California, applied for Government assistance in a $69,500.00 program under the Defense Minerals Exploration Administration, docket DMEA-4383, to explore for tin, uranium, rare-earths, quartz crystals, chromium, lead, copper, zinc, antimony, and tungsten at the Lucy Gray mine, Clark County, Nevada. The application was later revised and the program increased to $104,900.00, plus $37,000.00 for contingencies.

A field examination was requested by the Operating Committee, and was made by B. H. Sheahan, U. S. Bureau of Mines, and D. B. Tatlock, U. S. Geological Survey, on October 12, 1956. The applicant was not represented and repeated efforts to contact him by telephone were unsuccessful.

CONCLUSIONS AND RECOMMENDATIONS

Gold and silver of possible supergene origin occur in fractures along shear zones in a steeply-plunging breccia zone in gneissic granite. There are no indications that any of the ten commodities listed in the application occur in sufficient quantity, or are of high enough grade or quality, to be ore either at the present time or in the foreseeable future. No tin minerals were seen and tin was not detected chemically. A spectrographic analysis

submitted by the applicant reveals traces of lead, copper, zinc, uranium, and manganese comparable to what one could expect to find in a selected sample of almost any intrusive rock. No tungsten, antimony, or chromium minerals were seen and the geologic setting is not suggestive of their occurrence.

As the probability of a discovery is poor, it is recommended that the application for Government assistance be denied.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The claims are in secs. 32 and 33, T. 27 S., R. 60 E., M.D.B.&M. (projected), Sunset mining district, Clark County, Nevada on the west flank of the Lucy Gray Range at an altitude of 3,800 feet.

To reach the mine from the Nipton, California, post office follow a county dirt road 4.8 miles northerly along the east side of the Union Pacific Railroad to Desert Siding, turn right and follow a rough, sandy road 3.8 miles easterly to an old camp site which is a few hundred yards south of the shaft.

HISTORY AND PRODUCTION

According to William O. Vanderburg[1/], the Lucy Gray

1/ Vanderburg, William O., 1937, USBM I.C.-6964, Reconnaissance of Mining Districts in Clark County, Nevada, p. 81.

_/ Lincoln, F. C. 1923, Mining Districts and Mineral Resources of Nevada, Sunset District, Clark County, Nevada, p. 27.

gold mine was discovered by Lee Bright in 1905. In 1910 a small cyanidation plant was constructed which consisted of an 8-foot, low-speed Chilean mill grinding unit and leach tanks. Vanderburg states that the property was last worked in 1920. Judging from the appearance of the mine very little work has been done since that time. He estimated that gold production amounted to $50,000 from approximately 4,000 tons of ore milled.

No recent workings were observed on the property.

PROPERTY AND OWNERSHIP

Thirteen unpatented mining claims are listed on a sketch map attached to the application. The claims are evidently owned by Mr. T. L. Bright. The applicant states that a 50 percent interest was purchased and that Mr. A. C. Sterner jumped the Lucy Gray claim in January 1956. Title appears cloudy but Mr. T. L. Bright is probably the rightful owner.

DEVELOPMENT

The Lucy Gray mine is developed by a 300-foot vertical shaft with 3,200 feet of drifts on three levels. Other workings include several shallow prospect shafts, adits, and prospect pits. Most of the workings are unsafe to enter because the property has been idle for many years.

There is practically no equipment on the claims. A list follows:

Item	Condition
1 8-ft. low-speed Chilean mill	Poor, antique value.
1 25-h.p. hoist	Wrecked.
1 16-cu.ft. bucket	Fair.
1 Headframe	Very poor.

GENERAL GEOLOGY

The Lucy Gray property is underlain by medium- to coarse-grained gneissic biotite granite of Precambrian age that has intruded dark gray quartz-biotite schist. The schist is thoroughly migmatized except in a few small scattered areas. In the vicinity of the Lucy Gray shaft the foliation of both the schist and the granite strikes N 40° - 70° E and dips 80° NW. A few hundred feet southwest of the shaft the foliation strikes N 30° - 40° W and dips 65° SW. Jointing in the granite and in the migmatized schist parallels the foliation. A weaker joint system parallels the strike of the foliation but dips 20° NE. Locally quartz pegmatite dikes and sills from a few inches to 3 feet thick intrude the schist and granite. In a few places the pegmatites are cut by a later phase of very coarse, dark, biotite granite.

Vesicular latite flows overlie the granite about a mile east of the mine area.

Two sets of high angle normal faults have been mapped in the mine area by Hewett[1/]. One set strikes N 65° W, southwest side down, and the other strikes N 35° E, southeast side down.

1/ Hewett, D. F., 1956: Geology and Mineral Resources of the Ivanpah Quadrangle California and Nevada, USGS Prof. Paper 275, pp. 19 and 128.

ORE DEPOSITS

High grade gold and some silver were recovered from a steeply-plunging oxidized breccia zone in granite gneiss. The gold was probably supergene in origin and was derived from narrow quartz veins that cement the breccia.

On the surface the breccia zone is confined to a northwest-trending elliptical area 150 by 200 feet within which the gneissic granite and small migmatized schist bodies are thoroughly broken into angular blocks, few exceeding 1 foot in diameter. These are cemented by veins of quartz from a fraction of an inch to 2 inches thick. The ore seems to have occurred along two sets of widely-spaced, vertical shear zones 2 to 6 feet wide and trending N 70° E and N 40° W in the breccia zone. Within the shears the cemented breccia is broken by post quartz fractures which are stained with iron and manganese oxides. The

best gold ore was in these fractures. It is reported that the grade of the material mined fluctuated widely.

There are several prospects within a mile south and west of the Lucy Gray mine but none has been developed. According to Vanderburg the only productive property in the area has been the Lucy Gray mine.

In the prospect pit on the Sunrise claim where tin is supposed to occur, a fracture in granite strikes N 40° W and dips 65° SW parallel to the foliation. The fracture is a joint into which clay and iron oxide, the products of surface weathering, have been deposited. A pegmatite dike cuts across the foliation in the granite at a low angle along the northeast side of the prospect pit. The concentration of dikes in the vicinity of the pit is the same as that in surrounding areas. Tin minerals could not be identified in the dike or fracture, and tin was not detected chemically in a sample.

SAMPLING

Samples were taken from the Sunrise and Lucy Gray claims where tin ore was reported by the applicant.

Sample No.	Description
S-545	Open prospect pit, Sunrise claim, granite-schist principally feldspar, quartz, biotite, amphibole, and magnetite.
S-546	Outcrop, Lucy Gray, nodule of magnetite with rusty clinging feldspar.

Tin was not detected chemically in these samples, but spectrographic trace amounts may be present. Nothing of possible economic value was noted.

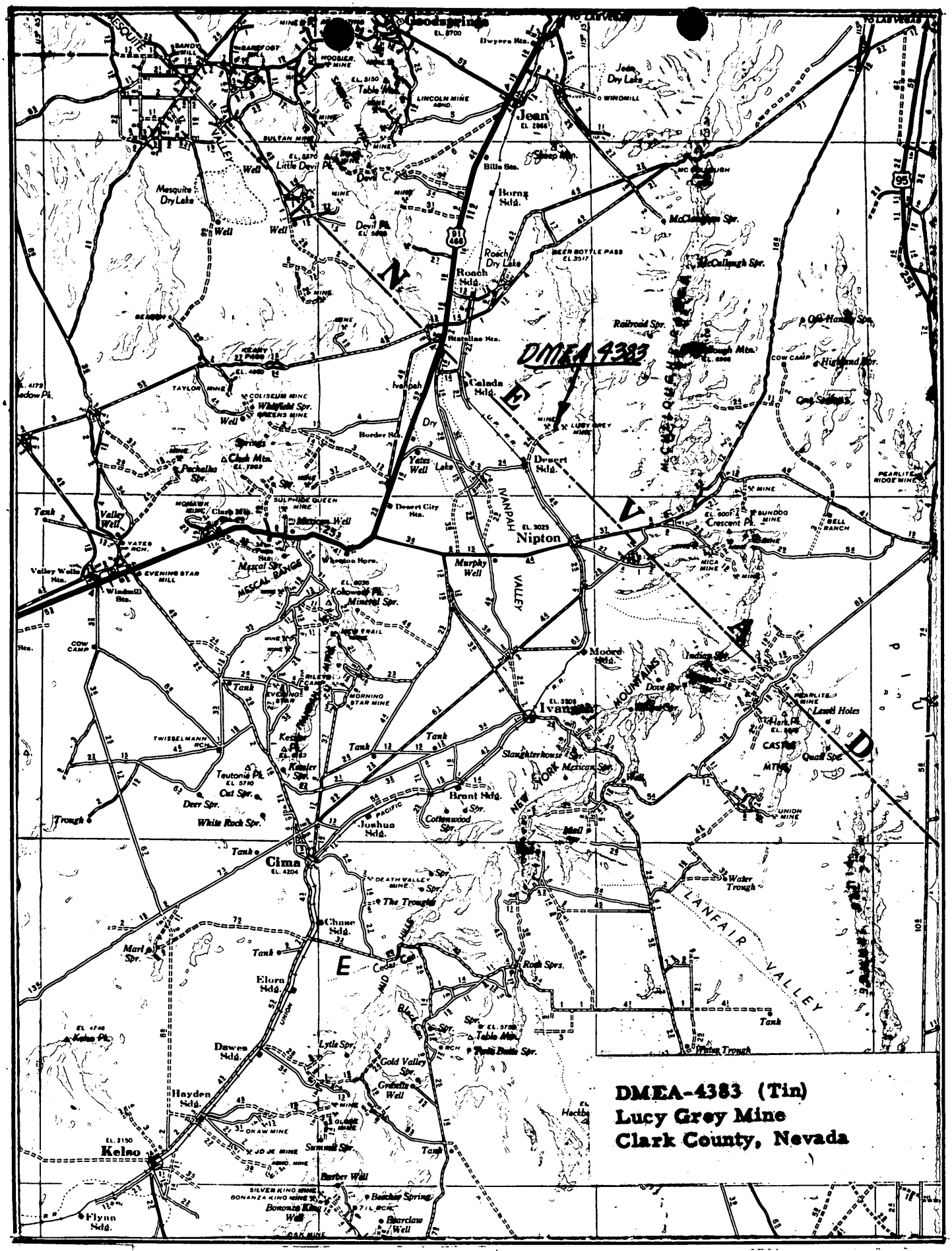

Figure 1 LOCATION MAP NEVADA

700

FILE COPY
Surname:
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Selledge

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

SEP 10 1956

Mr. James E. Martin, President
Lucy Gray Gold Mining Company
Route 1 - Mill Creek Canyon Park
Mentone 7, California

Re: Docket No. DMEA-4383 (Tin) et al.)
Lucy Gray Group
Clark County, Nevada

Dear Mr. Martin:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to:

Mr. Spangler Kicker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

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

Sincerely yours,

Fred E. Johnson

ACTING Administrator

FMMurphy/izm 9-7-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Reg. II (2)
M

R.C.K.

700

FILE COPY
Surname:

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

Mr. Spangler Richer
Executive Officer
DMEA Field Team, Region II
1695 Evans Avenue
Reno, Nevada

SEP 10 1956

Re: Docket No. DMEA-4383 (Tin)
Lucy Gray Gold Mining Company
Lucy Gray Group
Clark County, Nevada

Dear Mr. Richer:

The captioned application is referred to Region II Field Team for investigation, a field examination if deemed advisable, and recommendation.

In reply to Mr. Ellis' letter of July 20, 1956, the Applicant submitted the following exhibits (two copies each are enclosed):

1. An incomplete breakdown of costs;

2. A map showing the location of the claims and proposed open cut;

3. A letter, dated September 14, 1911, by Alex McLaren, E.M., relating to a mill and mine examination and tests;

4. A copy of a geologic report, dated 1910, by A.G. Millam;

5. An ARC Laboratories assay certificate, dated July 22, 1956; and

6. A Report of Chemical Test, dated November 9, 1955.

Also enclosed are memoranda, dated July 17, and August 17, 1956, by Abbott Renick, USBM, and N. E. Nelson, USGS, respectively, relating to the subject application.

You will note that Mr. Nelson's comments were made after reviewing the above-listed information. Mr. Renick reviewed the supplementary information and advised Mr. Ellis that in his opinion the application still lacks sufficient data to warrant a referral to field men.

R.C.S.

We agree with Mr. Renick, but feel that further requests for information would not result in our obtaining any more precise information that has been submitted.

You will note that the application includes a number of commodities other than tin. Data available here in Washington shows no evidence of the occurrence of tin in the Goodsprings District. However, with the thought that your office might have more recent information on the area, we are referring the application to the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

Frank D. Lamb

Member, Bureau of Mines (GCS)

Thor H. Kiilsgaard

Member, Geological Survey (GCS)

FMMurphy/izm 9-7-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
Messrs. ~~XXXXXXXXXXXXXXXXXXXXXXXX~~
THKiilsgaard, Rm. 5224
ARenick, Rm. 3624

8-20-56

IN REPLY REFER TO:

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

RECEIVED
AUG 17 1956

August 17, 1956

Re: DMEA 4383 (Tin)
James E. Martin and wife
Lucy Gray Group
Clark County, Nevada
Orig. - $69,500.00
Revised - $104,900.00

Memorandum

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

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

Subject: Review of supplemental information and revised application.

Apparently the applicants intend to rehabilitate an old gold mine, but no reason is given for expecting to find tin.

One sample (60 lbs.) from the Wabash lode is said to have shown:

eU_3O_8	cU_3O_8
.25%	.10%

The material appears to have come from a 20 ton dump.

One sample from the 200 level of the Lucy shaft is reported as containing 0.25% WO_3. No details are given concerning the sample.

A spectographic analysis reveals nothing of economic value in the sample tested.

The so-called reports give little worthwhile information.

No work program is outlined and the cost estimate at $104,900 and "Contingencies" at $37,000 is out of balance. A mining operation is hinted.

As before, I recommend referral of the application to the Field Team. I suspect a denial recommendation, without an examination, may be possible.

N. E. Nelson

N. E. Nelson

Interest only in Gold & Silver at this time

Copy of geological report by A.G.Hillen 1910, experienced Western Mining man.

RECEIVED
AUG 13 1956

Year 1910

I inspected the various working and spent several hours underground and in the Lucy Gray mine.(Partialquotes): The Wabash shaft being sunk for water, is down 240 feet, following a vein on its dip 45 deg. to the 200 and pitching 65 deg.below the 200 point. I did not sample this vein, though I saw some of the ore "horned" which had been sorted in a separate pile and a string of colors was shown in the pan. This vein is reported by Mr.W.C.Bright to carry values from $6 to $12 per ton. A point in regard to this vein, which may be noted, is that I went over much of the ground on a nearly straight line between the Wabash shaft and the main Lucy Gray working, a distance of approximately 500 feet, and picked up pieces of "float"propably emanating from this fissure, which will be referred to later.

In the Lucy shaft working I estimate there has been close to 3,000 feet of work done, the greater portion of which is undoubtedly within the zone of mineralization. In this mineralized area intrusive sheets and dikes of foreign matter appear, particularly on the 200 and 240 levels. It should, however, be possible to reach the original source of mineralization by underground survey and carefully planned development work. This view is based largely on the evidences of contact or fissuring at the end of the long drift on the 100 level. As this drift runs under the apex of the outcrop on the surface and gives a vertical depth of nearly 200feet, an upraise to the surface in this shoot could be made in ore, and a winze sunk from this point, as well as drifts along the fissure could be run at depth in or to the ore.

West of the Lucy shaft 250 feet or thereabouts, both on the surface and underground, there is evidence of faulting at right angles to the strike of the fissure, while in the south drift at the 240 level, at the time ofmy visit , the face of the drift was showing mineralization and a soft gouge or "slickensides" was coming in. In a complex proposition of this character, the difficulty is not so much to find ore, as to discover the vein or ledge in place. There are two theories acceptable under these conditions: That the vein was originally in place in or near the fissure referred to, and was subsequently broken up and shot through the area partially developed by the Lucy workings, or that the ore was deposited by ascending solutions in a zone of softer material, fractures or crevices and by replacement of the country rock. I incline to the former view, and the opinion that a well-defined fissure will be found below the crushed and broken area exposed in the present workings. If it is correct that the "fault" displaced the original deposit or vein, it will no doubt be found on one side or the other of the faulted area. In the present workings, this "fault" and the fissure referred to form a V-shaped zone, the fissure running from northwest to southeast, and the fault crossing this at nearly right angles. Both at the head of the long drift on the 100-leveland in the face of the drift on the 240 level, running southwest, ore is being found, and on both levels in these localities, in considerable quantity.

U308 + WO3 scheelite head-

On the 200 level there is a body of sulphide ore about twenty feet wide, having an apparent downward pitch, which might be either a shoot from the main ore body or vein, or a portion of the vein displaced from its original position, which it would be well to follow downward as well as laterally.

There is little segregation apparent, which is strong characterisitic of Nevada mines, and this would indicate that the deposition of the ore was through fissuring of the country rocks, in my opinion. I saw little evidence of metamorphic action, the primary granite and gneiss sustaining but little alteration through the subsequent fissuring or "faults" the latter propably having been induced by lateral pressure or strain, Extending the drift to the s.west on the 240 should encounter a dike, mineralized, possibly. Ore in bunches, kidneys, stringers and lenses carrying a variety of mineral,gold dominant. Assays are $150 to$200 per ton gold.

A.G.Hillen, Las Vegas, Nev.

This should give an idea of possibilities although the proposed operations are not primarily for gold.

Los Angeles, Calif., Sept. 14th, 1911.

Board of Directors,
Lucy Gray Mining Co.,
Desert, Calif.

BMEA - 4383

RECEIVED
AUG 13 1956

Gentlemen:-

At the request of your Mr. John Bright, I made a recent visit to the Lucy Gray Mine for the purpose of making a thorough examination of the Mill and Mine as well as to conduct a series of laboratory and mill tests and herewith present facts, figures and results obtained therefrom.

THE MILL:

The mill installed, a Lane Slow Speed Chilian, was started and the crushing capacity estimated at rate of twenty tons per mill day of twenty-four hours. Of the reduced product fully 85% passed a 100-mesh screen. The values were found to exist in a state wholly unadapted for amalgamation, as the resultant assays showed an extraction of 9%, and that portion caught and retained altogether in the mill, none perceptible coming onto the plates. From the plates the pulp flowed by gravity onto a "New Standard Concentrator" of the reciprocating, bump, type. As the ore carried little or no sulphides the values were presumably contained in the hematite, limonite, and cerrusite or lead carbonate. Of the foregoing a concentrate was made ranging in value from $80.00 to $180.00 according to the amount of gangue or silica allowed to enter into the table product. It is an established fact that it is absolutely impossible to concentrate with any degree of efficiency carbonate ores and the use of the concentrator in question with the most careful adjustment only showed a saving of $0.20 per ton of ore treated. These tests went to show that the present equipment was inadequate and that it would be necessary to resort to other means or processes, both mechanical and chemical, to perfect the extraction of values, and with this in view a series of cyanide tests were made.

CYANIDE TESTS:

A portion of the mill pulp or tailings was taken and agitated in a cyanide solution for a period of six hours, at the end of which time the solution was decanted and tested for strength, and a loss in cyanide to the amount of two pounds per ton was shown, the pulp residue was assayed and yielded a trace in gold or an extraction of over 90%. A similar sample was run for twelve hours and showed a great increase in cyanide consumption after six hours treatment, all of which went to show conclusively that an almost complete extraction could be accomplished in six hours by agitation. A test was then made by taking a sample from the dumps, crushing in the laboratory by hand, and passing through a 60-mesh screen; a sample taken from this was agitated in cyanide solution for six hours and resulted in an extraction of 82.2% of the gold values at a loss of three pounds of cyanide solution per ton. This goes to show that the pulp was insufficiently ground as 85% of the Lane Mill product on which the best extraction was made would pass a 100-mesh screen. Other tests went to prove the ore to be of an acid nature and that by rendering the pulp slightly alkaline a high extraction could be obtained at a much

smaller consumption of cyanide by neutralizing the soluble sulphides and sulphates and sulphides present due to the partially oxydized sulphides in ore; hence from the foregoing it is beyond a doubt a purely crushing and cyanide proposition and evident that the mill you have installed is one of the best procurable for the preparation of the ore for such subsequent treatment as cyaniding.

ORE:

By measurement of the ore dumps at the various openings of the mine an estimate of 920 tons was arrived at, and conservative sampling and assaying showed an average of $7.60. Being mined and in such shape as to be readily dumped into the mill bin, a net profit of $4.60 per ton can be made in forty-six days on what is safely your lowest grade material, owing to being mixed with an excessive quantity of waste and barren material which by careful mining can be eliminated and keep the grade of milling ore up to from $10.00 to $24.00 per ton.

ORE IN MINE:

In the upper tunnels chutes of ore in place were sampled showing widths up to four feet that sampled up to $21.00. Similar bodies were encountered on the 100 foot level of the main shaft. On the 200 foot level averages taken from ore chute across four foot widths showed an average of $35.00 in gold and silver values.

In a number of places throughout the property "vuggs" or pockets of very high grade ore are noticeable in small quantities running in value to over $2000.00 per ton and from which a miner could extract up to a sack (90 pounds) per day. These, however, are not regular but still when encountered should be saved separate and with care for shipment to smelter.

SUMMARY:

From the foregoing it is evident that the experiments and tests made have outlined the proper method of treatment, viz: cyanide, and investigation of mine shows sufficient ore to run a twenty-ton plant at a profit for a long time to come and at the same time continued development of mine will doubtless uncover other large and good valued bodies of ore.

Hence I would recommend the immediate installation of a cyanide plant equipped for agitation and of twenty tons capacity and further would recommend the Hendryx equipments as being the most feasible for small tonnage unit.

Trusting that the foregoing is clear in every way, I am

Yours truly,

ALEX McLAREN, E. M.

Subscribed and sworn to before me this 11th day of September, 1911.

GEO. WAGGONER,

(SEAL) Notary Public.

PRODUCT DEVELOPMENT APPLIED RESEARCH

ARC LABORATORIES

Division of Arizona Research Consultants Inc.
917 W. HATCHER ROAD PHOENIX, ARIZONA WINDSOR 3-3573

RECEIVED AUG 13 1956

FOR: Mrs. J. E. Martin
Rt. # 1
Mill Creek Canyon Park
Mentone, Calif.

DATE July 22, 1956
LAB No. 2367

RESULTS

Sample # XL, Lucy Gray Lode
Lucy Gray Mines, Clark Co. Nevada

0.10 % U_3O_8 Chem.

trace Gold

0.20 oz/ton Silver

Respectfully submitted,

ARC Laboratories

John T. Long Jr

John T. Long, Jr.

As a mutual protection to clients, the public and this corporation, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this corporation.

LOS ANGELES TESTING LABORATORY
ENGINEERS CHEMISTS
CONSULTING, TESTING, INSPECTING
AFFILIATIONS AT ALL INDUSTRIAL CENTERS
1300-8 SOUTH LOS ANGELES ST.
TELEPHONE PROSPECT 6407
LOS ANGELES 15
CALIFORNIA

November 9, 1955

REPORT OF CHEMICAL TEST

Laboratory Number	126691
Entered for Record	September 28, 1955
Submitted by	Mrs. Jas. E. Martin Rte 1, Mill Creek Canyon Park Mentone 7, California
Identification	Samples FROM 200' level, Lucy Shaft.
MARKED:	Complete Evaluation of Ore samples sent by Lucy Gray Mine Manager, Nevada.

MINERAL ANALYSIS:

The specimen shows vein quartz with Limonite and Manganese stains. Small amounts of Galena are present. Scheelite is the inferred mineral form of the Tungsten.

EVALUATION OF ASSAYS AND INSPECTIONS:

The values present in the material are marginal at the best. Further prospecting is indicated for Tungsten and possibly Lead.

The Tungsten present (0.25%) is low by ordinary commercial standards. This low concentration is further complicated by the complete lack of criteria indicating favorable recovery possibilities.

Further prospecting should be done under competent advice and only after careful consideration of economic factors involved. This specimen indicates a probable origin in the footwall of the deposit. Normal prospecting is indicated best in the direction of the hanging wall, toward the contact zone.

Prospecting for the Wolframite type of Tungsten minerals, Wolframite, Ferberite, Hubnerite, is speculative, in this region. There is no positive evidence in this sample to indicate either their presence or absence.

CHEMICAL ANALYSIS:

Gold	.04 ounces per ton $1.40 value per ton
Silver	Trace
Tungstic Oxide (WO_3)	0.25%

Continued - 1

LOS ANGELES TESTING LABORATORY

Mrs. Jas. E. Martin
Lab.No. 126691
November 9, 1955
Page 2

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SPECTROGRAPHIC ANALYSIS:

Element	Not less than	Not more than
Silicon	Major Constituent	
Iron	3.0%	30.0%
Aluminum	0.5%	5.0%
Magnesium	0.3%	3.0%
Calcium	0.1%	1.0%
Potassium	0.1%	1.0%
Tungsten	0.1%	1.0%
Lead	0.05%	0.5%
Titanium	0.05%	0.5%
Sodium	0.03%	0.3%
Barium	0.03%	0.3%
Copper	0.03%	0.3%
Zinc	0.03%	0.3%
Manganese	0.01%	0.1%
Bismuth	0.003%	0.03%
Yttrium	0.003%	0.03%
Silver	0.0005%	0.005%

Uranium is absent or less than 0.01%.

Drifts closer to Wabash show better ore.

Respectfully submitted,

LOS ANGELES TESTING LABORATORY

By Noel W. Stone

Reports to:
4-Mrs. Jas. E. Martin

Concluded - 2

assays - Sample Report sent to
Salt Lake City P.O. Box 2196 -
by Stafford C. Happ - Chief Geological
Br. & Exploration Div.
U308e - .25% - no. 43895 - July 6/56 -
WABASH - Lode

RECEIVED
AUG 13 1956

by Arco Lab, U308 - Sl7eM - .10% - no. 2367 July 22/56
A.E.C. Umpires -
PHOENIX, ARIZ.

60 lbs. of approximately 20 tons mined ore of same as U308 previously assayed above sent to Arco Lab. for analysis. (Umpire) 25 lbs. to be sent for remedial test.
Sample marked (P.S. no. 1 -)
from Lucy Gray N. + W. DRIFTS
S. + W.

If you do not receive the report on this assay notify me if you wish it.
The D.M.E.A. field team can readily take samples on tin & tungsten themselves.

Judge Taylor presiding Judge for unlawful detainer action against A.C. Sterner by Martin's Lucy Gray M. Co. has taken ill expect to go to trial in Sept. Hope this will not be a block to this application.

Re: Docket No. DMEA-4383(Tin)
Lucy Gray Group
Clark County, Nevada-

James E.Martin,Pres.
Lucy Gray Gold Mining Co.
Rt.1(Mill Creek Can-

Detailed Estimate of Costs.

RECEIVED
AUG 13 1956

Outside contracts.

(a) None-

(b) Labor,Supervision, Consultants.
Assayer-1-$600.00 monthly
Mgr.&Gen.asst. supervisors-$700.monthly.
OfficeMgr.Acct.etc. general-$400.
Laborers and one working foreman 5 equipment experienced-Approx.$25,000

Operating materials and supplies.

(c) Dynamite and caps----------$1,200.
Picks, shovels, barrows, general hand tools-------- 150.
Cable and lines---------- 475.
Water coolers---------- 25.00
Fuel and oil(also road oil)---------- 4,000.00
total---$5,850.00

(d) Operating equipment.
1-heavy duty compressor(mobile)---------- 2,500.
2-portable drills---------- 2,000.
Bitts,air pipe and couplings---------- 1,000.
Payloader----------$10,000.
Bull dozer-D-8 ---------- 12,000.
5 yd. dump truck---------- 8,000.
Water tender(4 wheel trailer)---------- 200.
Generator, wiring and connections---------- 1,000.
Welding and cutting torch and equipment---------- 350.

(c) Sanitation buildings from used material on property Total-
Compensation and insurance figured in wages------ $37,050.00

Contingencies not allowed for handled in general management. (Wages controlled)-- 37,000.00
Total cost $79,900.00
26,000
104,900

Estimated cost 1st year.
If production not certified as possible in 16 months it may be necessary to ask for additional capital however, we believe the certification will come by that time.

Work proposed opencut gravity operations on Lucy Gray, Natash, Central, Lucky & portion of Sunrise, gladstone & Victor
Also necessary road grading & drainage.

TRENCHING
DRIFTING - SHAFTS
8000' - TOTAL.

● MONUMENTS
⇧ SHAFTS -
α TUNNELS - DRIFTS - ▭
α

"-TRENCHING

Lucy Gray Group

U308 - INDICATED ON WOB
ALL-CLAIMS - 12 Tunnels
on Lucy -
WABASH - 1500'

(Bell-shaped cone of ore on Lucy

TO INDICATE PROPOSED WORKINGS. OPEN CUT GRAVITY OPERATION - ALL CENTRAL CLAIMS ON ORE BODIES -

DAY LIGHT
TH + J. BRIGHT
NOW LUCY HOLDINGS.

BELLEMOUNT

UNCLE SAM

GLADSTONE

LUCY GRAY
VEIN
SHAFT
700'
100'
50'
300' SHAFT.
STOPE
MILL WORKS

VICTOR
1100' W
400' E

COPPER.

DENVER

CENTRAL WABASH

JOHN BRIGHT
T. L. BRIGHTS.
NOW LUCY HOLDINGS
LUCY CLAIMED.

750'
750'

MARTIN RESIDENCE

250' SHAFT.

LUCKY PLACER

ROAD UP MINING MAIN

WATER RIGHTS -
16 C.F.S.
Lucy Gray Springs -
Sec. 26 -
McCullough. R.
R. 59 E.
T. 28 S.
alt. 5000.

WASH

Road - All.
Lucy Right
OF WAY since
1905 -

3 1/2 Miles -
EASTERLY FROM DESERT U.P.R.R. CAMP.

ROAD

N. & L. AYPORT - CLAIM
worked by
Lucy

R. 59 E.
T. 28 S.
Sect. 33 -
alt. 4000 ft.

Tunnel

LUCKY
SUNRISE

COPPER.

COPPER

50' shaft.
Tunnel 100'

tunnel
100'

LONE STAR
PIGGINGS

WASH

N
W
E

CLARK
COUNTY - NOW -
GOODSPRINGS DIST.
PROPERTIES - OF -
LUCY GRAY GOLD -
MINING CO.

CLAIMS - ORIGINALLY
LOCATED by T. L. BRIGHT
+ J. W. SEIDERS -
SEPT. 1905 - Pioche, LINCOLN CO. NEVADA. SUNSET DIST.
INC. 1908 by them - CORP. REINSTATED 1956 by MARTINS - PRINCIPALS
COMMERCIAL TO WORLD WAR II. SOLD TO - + BRIGHTS - PARTNERS -
R. N. + J. BRIGHT 1912 -
(L. GRAY - MRS. R. N. BRIGHT) Louise)
+ Louise

RECEIVED
AUG 13 1956

James E. Martin, Pres.
Lucy Gray Group
Lucy Gray Gold Mining Co. Clark County, Nevada-
Rt.1(Mill Creek Can- Detailed Estimate of Costs.

James E. Martin Pres.

RECEIVED

RE Docketing. (TIN) DMEA-4383

AUG 13 1956

Outside contracts.

(a) None-

(b) Labor, Supervision, Consultants.

Assayer-1-$600.00 monthly

Mgr.&Gen.asst. supervisors-$700.monthly.

OfficeMgr.Acct.etc. general-$400.

Laborers and one working foreman 5 equipment experienced-Approx.$25,000

Operating materials and supplies.

(c) Dynamite and caps----------$1,200.

Picks, shovels, barrows, general hand tools-------- 150.

Cable and lines---------- 475.

Water coolers---------- 25.00

Fuel and oil(also road oil)---------- 4,000.00

total---$5,850.00

(d) Operating equipment.

1-heavy duty compressor(mobile)---------- 2,500.

2-portable drills---------- 2,000.

Bitts,air pipe and couplings---------- 1,000.

Payloader----------$10,000.

Bull dozer-D-8 ---------- 12,000.

5 yd. dump truck---------- 8,000.

Water tender(4 wheel trailer)---------- 200.

Generator, wiring and connections---------- 1,000.

Welding and cutting torch and equipment---------- 350.

(e) Sanitation buildings from used material on property Total-

Compensation and insurance figured in wages------ $37,050.00

Contingencies not allowed for handled in general management. (Wages controlled)-- 37,000.00

Total cost ~~$74,900.00~~

Cost Estimated for 1st year. Expect certification of possible production in 16 months. If not additional capital may be needed.

Work proposed open cut gravity operations on Lucy Gray Lode- Wabash, Central, Lucky and portion of Sunrise, Gladstone & Victor.

also necessary road grading & drainage

TRENCHING
DRIFTING - SHAFTS
8000' - TOTAL

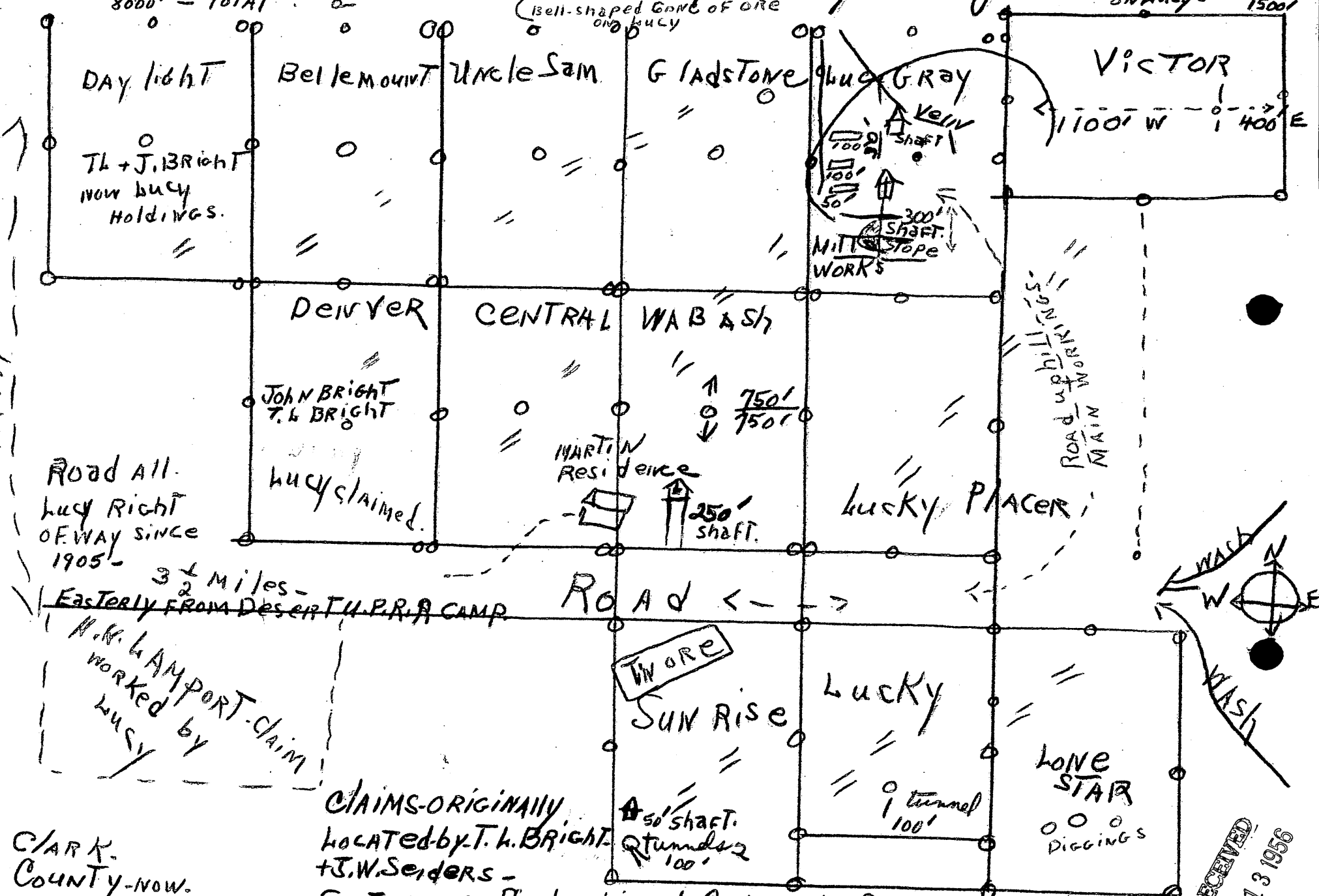
⊙ MONUMENTS
⇧ SHAFTS -
⌒ TUNNELS - DRIFTS - ⊟

-- TRENCHING

Lucy Gray Group -

4308 - INDICATED ON WOS
ALL-CLAIMS - 12 TUNNELS
ON LUCY - 1500'

(Bell-shaped Gone of ore on Lucy



CLAIMS-ORIGINALLY
LOCATED-by-T. L. BRIGHT
+ J. W. Seiders -
Sept. 1905 - Pioche, Lincoln Co. Nevada. Sunset Dist.
INC. 1908 by them - CORP. Reinstated 1956 by MARTINS - PRINCIPALS
COMMERCIAL TO WORLD WAR I. Sold To + BRIGHTS - PARTNERS -
K.N. + J. BRIGHT 1912 - (L. GRAY - MRS. K.N. BRIGHT.) Louise)

CLARK
COUNTY - NOW.
Good springs Dist.
PROPERTIES - OF -
LUCY GRAY Gold.
MINING CO.
(+ Louise

RECEIVED
AUG 13 1956

Surname copy

700

Ellis
J. Johnson

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

20 JUL 1956

Mr. James E. Martin, President
Lucy Gray Gold Mining Co.
Rt. 1 - Mill Creek Canyon Park
Mentone 7, California

Re: Docket No. DMEA-4383 (Tin)
Lucy Gray Group
Clark County, Nevada

Dear Mr. Martin:

An examination of your above-docketed application for Government aid in an exploration project discloses that essential information which would enable us to process said application is lacking.

However, it is noted that former production reports, assays, and geological reports necessary for evidence in a law suit, will be forwarded at a later date. In addition to furnishing such information (in quadruplicate) we will require the following:

1. A map or sketch, drawn to scale, whereon the following should be shown:

   (a) all the claims held by your Company;

   (b) as much of the present mine workings as you are able to show;

   (c) location and values of any samples that have been procured by you on the property; and

   (d) show on the map just where you propose to explore and the extent thereof.

2. A narrative report containing the following information:

   (a) an itemized estimate of the cost of the project in accordance with Article 6 of the application Form MF-103, a copy of which is enclosed for your guidance;

R.G.

(b) a justification for the work you propose, the geological report which you will furnish later may be the answer to this.

Kindly furnish four copies of all the above information.

Your application mentions milling. Please note that DMEA funds are not available for development or production. An enclosed booklet will answer some of the questions which might arise in regard to the program.

Upon receipt of all the above we will continue with the processing of your application.

Sincerely yours,

Ernest W. Ellis, Chief
Rare and Miscellaneous
Metals Division

EWEllis/ai
7-20-56
cc to: Docket
Admr. Reading File
Code 700
Mr. Ellis
DMEA Field Team, Region II (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

7-19-56

IN REPLY REFER TO:

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

July 18, 1956

Re: DMEA 4383
Jas. E. Martin and wife
Lucy Gray Group
Clark Co., Nevada
$69,500.00 - Tin

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in doing unnamed work in a mine possessing 7,000 feet of openings.

The property is presently in litigation and the applicant is withholding production records, assays, geologic reports, etc., pending a settlement.

I have no information on the property, but as the Field Team may have, I recommend referral of the application to the Field Team. I suspect a denial without an examination may be possible.

N. E. Nelson

N. E. Nelson

RECEIVED
JUL 1 9 1956

7-17-56

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

July 17, 1956

Memorandum

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

From: Abbott Renick, Branch of Base Metals

Subject: Review of application DMEA 4383 (Tin), Mrs. Jas. E. Martin, Lucy Gray Gold Mining Co., Clark County, Nevada

In a very sketchy application the applicant proposes to explore for tin at an estimated cost of $69,500.

The applicant states: "Refer also to IC 6964 W.O. Vanderburg-Reconnaissance of Minings Dist., Clark County, Nev. 1937."

As a matter of information IC 6964 refers to only one tin deposit which is located in Clark County. This reference, which appears on page 57, follows:

> "In 1936 tin was reported to have been found about 13 miles southeast of Moapa, Nev. The Cosmo Mining Co. acquired a large group of claims and some stock was sold. Pieces of sandstone stained with manganese, said to contain tin, were taken by the writer. A composite sample of the material was analysed by the Mackay School of Mines laboratory at Reno, Nev., but no tin was found."

Additional information about the prospect and applicant is required before any consideration is given to a referral to field men.

Abbott Renick

Copy to Division of Minerals
Branch of Base Metals (2)
Mr. Geehan
Mr. Kiilsgaard, Rm. 5224
FILES

July 16, 1956

Mr. James Earl Martin
Rt. 1-Mill Creek Canyon Park
Mentone 7, California

Subject: DMEA-4383
Re: Exploration Assistance
Lucy Gray Group

Dear Mr. Martin

The receipt of your application dated July 9, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4383 and referred to the Rare & Misc. Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

July 16, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA
-4383 Mr. James Earl Martin & Mrs. Jas E. Martin

Lucy Gray Group

Robert E. Adams
Chief, Operation's Control
and Statistics Division

DMEA

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

RECEIVED
JUL 16 1956

1605 Evans Avenue
Reno, Nevada

July 12, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tin et al)
James Earl Martin & Mrs. James E. Martin
Lucy Gray Group
Clark County, Nevada

Attached are three sets of MF-103, Application for Aid forms concerning above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL 16 1956

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

Not to be filled in by applicant

Docket No. 4383
Metal or Mineral Tin
Date Received 7/16/56
Estimated Cost $69,500.00
Participation (Government %)

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: James Earl Martin & Mrs.Jas.E.Martin (Mrs.Martin,legal mgr.)
Rt.1-Mill Creek Canyon Park (V.Pres. Sec.Treas.
Mentone 7, California. President,James E. Martin.
Lucy Gray Bright (Partnership Stockholder Majority. Nevada,Corp.
(Louise)

(*b*) If not an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized. Corp. re-instated. 3 members to be in Nevada.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. Louise McGuire 1342 Melville Drive

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Res agent. director Las Vegas Nevada.

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 The Lucy Gray Group comprises nine claims
One of the nine is in Litigation by action instituted by Mr.&Mrs.J.E.
Martin on their behalf and stockholders of Lucy Gray Corp. by Att.H.
Morse.Las Vegas Nev. against A.C.Sterner(claimjumper) Claim jumper has

(*b*) State any title you have to the land, or any other property rights you have in the land, or any other property rights you have in the land under contract to be acquired. paper title on the Lucy Gray Claim,re-named Arco.) Property located

(*c*) State the name and address of the owner of the land under contract to be acquired. 3½ miles East of Union Pacific Railroad camp of Desert MARTINS purchasers of
equitable interest of 50% of Brights' original locators. Recorded

(*d*) If you are not the owner, state the name and address of the owner of the land under contract to be acquired, and the nature of the document under which you control the property. Originally Pioche,Nev. Present records at Las Vegas,Nev.
Unlawful detainer action should be over by Aug.18/56—

(*e*) If you own the land, describe any liens or encumbrances on it Title clearly in Stockholders.
This property was U.S.Govt.patent surveyed but not recorded.

(*f*) If the land consists of unpatented mining claims, in addition to the description above, the book and page numbers for each recorded location notice. & not patented. I have certified copies of these but the Attorney H.Morse has them.
Refer also:Mining Deed from T.L.Bright&J.W.Seiders to Lucy Gray Corp.

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. Doc.13239 Vol."Z"Page 76.

(*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. 3½ miles to shipping,water accessible,vested right3½ mi.East.Gravity.

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

16—66551-1

Capable of gold&silver production. Approx.20,000ton on ground in tails.
Referred by S.C.Mapp Geo. Dr. Exploration Chief tin,mang.lead,zinc,sheelite,copper,quartz.
to Salt Lake Office ED:WBK.Reference Pocio mill assay 1308%.25 Samples 43895- crystals
Plan on original locator going over mine
also Reno,Bureau of Mines. Thatcher Bright(orig.locator)

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore ~~Tin (Cassiterite)~~ Uranium, rare-earths, quartz cyrstals, chrom, lead, zinc, copper, ~~antimony~~, Scheelite (tungsten).

(*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 20 days and be completed within 24 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.

J. E. Martin Mgr. Doyle Chev. Parts dept. All experienced help.

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?

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

Explain in detail on acompanying paper.

Production, stock sales, Bank financing or sale of real estate if needed. Have approx. $30,000 value R.E. other than mines

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 July 9, 1956

Lucy Gray Gold Mining Co. (Nevada)

(Legal-Manager, Partner, owner. Mrs. Jas. E. Martin.)

Mrs. Jas. E. Martin
(Applicant)
Vice Pres. Sec. Treas.

By Mrs. Jas. E. Martin

Residence at Mine in Nevada also.

Rt. 1 - Mill Creek Canyon Park
Mentone P.O. 7, California

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

Mrs.James E.Martin
Rt.1-Mill Creek Canyon Park
Mentone 7, Calif.

RECEIVED
JUL 16 1956

July 9,1956

Att: S.Ricker
Executive Officer
DMEA Field Team, Region II

Dear Mr.Ricker:
We have been held up with this application because of interference by a claim jumper. In the interest of possibly saving time I am making the application. He is no longer on the claim since we have instituted an unlawful detainer action against him. Our attorney Harold Morse, Las Vegas, Nevada says that all he can see in his actions is a nuisance. This should be over and with every reason in our favor by Aug.18-56.

Due to general world conditions and decease of principals of the Corp. this valuable property was unable to condition itself to the continuance of commercial operations. In the interest of the shown possibilities of strategics production, exploration should be first. There has been an ore body of tin assayed 50%. This mine could be a credit to Nevada if worked on modern day methods. Machinery of present days has never been used on the properties. There has been over 7000ft. of openings which will facilitate the taking of samples by your field team.

There is a good mill at Searchlight, Nevada which is owned by our attorney. We can possibly rehabilitate our own former mill.

I have some former production reports and assays and geological reports which I wish to use if necessary in trial court soon. If you do not have available which I believe you do have sufficient reports and maps on this property I shall send you these at a later date. I know there are maps and reports that are available to your dept. by State and Federal agencies. Refer also to IC 6964 W.O.Vanderburg-Reconnaissance of Minings Dist. Clark County, Nev. 1937.
The present workings seem to be in safe condition. I will have the State check them this fall.

Estimate of costs based on 2yrs.
Portable compressor, 2 wagon drills, 2 electric generators (1 Portable)--------$2,500.00
2 Trucks 2 to 3 ton (1 dump,1 changeover Flat bed)------- 10,000.
1 D 8 catterpillar, grader ---------- 12,000.
Labor, insurance, and miscellaneous equipment----------40,000.
$64,500.00

Laborers, experiences equipment miners-----5
general superintendant, mgr. and asst.-----2
General working foreman---- 1
Office Mgr., bookkeeper---- 1
Assayer------- 1

5,000. as pipeline rotodel drills
$69,500
amt. applied for

Possibilities of used equipment to cut down expenses depending on condition and availability. Production also will cut down expense.

Available on property. Some machinery. 4 wheel jeep.pickup truck. Molybdenum mine at Mt.Pass close will get help from gen.mgr. G.Bailey and John Martin foreman who are friends.