DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4090

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(Withdrawn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

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

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

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
✓ Interim Audit(s)
✓ Report of Review — 2/20/58.
Termination Notice or Agreement
Recision Notice
Assignment of Contract
✓ Contract Amendments (latest on top)
✓ Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓ Application and attachments
(3) Envelope for maps

Right Side

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

✓ Final Field Team Report (Tab) 4-58.
✓ Operator's Final Report - 1/27/58.
(2R) ✓ Interim Reports
(2R) ✓ Operator's monthly reports and all attachments (latest on top)
✓ On-site Exam Report(s) (Tab)
(4) Settlement Sheets

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

Left Side

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

Right Side

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

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

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

RECEIVED FEB 26 1958

DATE	INITIALS	CODE
2-26	JSC	800
3/3	CTM	100
"	JLA	110
3/4	[illegible]	120

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

LaSota-Jones Lead and Zinc Corporation
Metaline Falls, Washington

pertaining to Exploration Project Contract No. Idm-E991, Docket No. ~~DMEA-4090~~, dated August 13, 1956, including Amendments Nos. 1 to 3 inclusive, for the ~~[illegible]~~ months of September 1956 to November 1957 inclusive, covering a project for the exploration of Lead-Zinc on property known as the LaSota-Jones Property, located in Pend Oreille County, State of Washington.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Government representative who visited and examined the project, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

all of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of units of work actually completed.

The review disclosed the following facts in regard to the amounts paid or to be paid the contractor:

Total cost claimed by Operator	$11,304.80
Exceptions	None
Total accepted cost claimed	$11,304.80

The contract calls for a 50 percent participation of accepted costs. Therefore, payments as follows are valid and proper:

Amount payable on audited claim	$ 5,652.40
Amount reimbursed	5,502.40
Balance due Operator	$ 150.00

C. A. Turner, Auditor

February 20, 1958

Schedule of Work Completed

LaSota-Jones Lead and Zinc Corporation — Idm-E991 DMEA-4090

Fixed Unit Costs

Diamond Drilling	1500 ft.	@ $ 7.06 per ft.	$10,590.00
Engineer-Geologist	1 month	@ 500.00	500.00
Determinations (Assays)	358	@ $ .60 ea.	214.80
Total Accepted Costs			$11,304.80

C. A. Turner Auditor

February 20, 1958

Government's Copy

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
LaSOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

Amendment No. 3

It is agreed this 25th day of October, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and LaSota-Jones Lead and Zinc Corporation, that Exploration Project Contract Idm-E991, Docket No. DMEA-4090, dated August 13, 1956, as amended, is further amended as follows:

1. In Exhibit A, under the heading Description of the Work

A. The first paragraph is revised to read as follows:

"The purpose of the project is to explore for ores of lead and zinc by diamond drilling. Six holes shall be drilled. The depth of each hole may vary from approximately 200 feet to approximately 300 feet. The total footage of all drilling shall not exceed 1,500 feet. The holes shall be drilled with coring bits and core recovering equipment of EX size or larger."

B. The third paragraph is revised to read as follows:

"The location, direction, and inclination of all drill holes shall be subject to prior Government approval. The approximate locations of the first five holes are shown on the map entitled 'Sketch Map of Area, LaSota-Jones Property, Plate 3', attached hereto and made a part hereof."

2. The time fixed for completion of the work specified in Amendment No. 1 of the contract is extended from "15 months from the date of the contract" to "21 months from the date of the contract" or from November 13, 1957 to May 13, 1958.

3. The maximum period for royalty payments and lien to secure the payment thereof is extended from "eleven years" to "twelve years".

Long
Dunlap
Talbot
Selbridge
Johnson

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, or the fixed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. W. Mitteudorf
Administrator, Defense Minerals
Exploration Administration

LaSOTA-JONES LEAD AND
ZINC CORPORATION

By F. P. LaSota

Title President

Docket Copy

COPY

RECEIVED FEB 1 1957

DATE	INITIALS	CODE
2-1	C	220
		225

EXPLORATION PROJECT CONTRACT
LaSOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

Amendment No. 2

It is agreed this 18th day of January, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and LaSota-Jones Lead and Zinc Corporation, that Exploration Project Contract Idm-E991, Docket No. DMEA-4090, dated August 13, 1956, as amended, is further amended as follows:

1. In Exhibit A, under the heading Description of the Work, the second paragraph is revised to read as follows:

> "All significantly mineralized core shall be sampled and assayed for total lead, oxide lead, total zinc, oxide zinc, silver, and other elements, as the Government may authorize. Core samples for assay shall not represent in excess of five feet of core length." Sludge samples may also be assayed.

2. In Exhibit A, under the heading Fixed Unit Costs, the following item is deleted:

"40 samples to be assayed @ $5.50 $220.00"

and the following item is substituted:

"366 determinations @ $0.60 each $220.00 (rounded)"

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, or the fixed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Rudnitz 1/15/57
Lawyer

By C. W. Mitkevich
Administrator, Defense Minerals
Exploration Administration

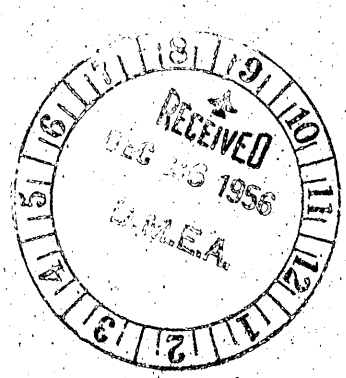
Hiswold
Chamberlain
Selfridge
G. E. Johnson

LaSOTA-JONES LEAD AND
ZINC CORPORATION

By F. P. LaSota

Title Pres

Docket Copy



Potter
Hoffman
Approved
Chandler
Selfridge
Johnson

EXPLORATION PROJECT CONTRACT
LaSOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

Amendment No. 1

It is agreed this 12th day of December, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and LaSota-Jones Lead and Zinc Corporation, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E991, Docket No. DMEA-4090, dated August 13, 1956, hereinafter called the "Contract," that:

1. (a) Work under the Contract shall be suspended during the period beginning November 1, 1956, and ending not later than June 1, 1957.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government, and the Government shall not contribute to any costs of rehabilitation or repair which, in its opinion, would not have occurred if there had been no suspension of the work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. In Article 3 of the Contract, the time fixed for the completion of the work is extended from "three months from the date of the Contract" to "fifteen months from the date of the Contract."

3. In Article 6 of the Contract, the maximum period for payment of the Government's royalty is extended from "ten years" to "eleven years."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the fixed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. F. Mitchenoy
Administrator, Defense Minerals
Exploration Administration

LaSOTA-JONES LEAD AND ZINC CORPORATION

By F. P. La Sota
President

Docket Copy

MF-200A
(Rev. April 1956)

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT
(Short Form)

RECEIVED
SEP 20 1956

DMEA No.	Commodity	Contract No. Idm-E	County	State
4090	Lead-Zinc	991	Pend Oreille	Washington

It is agreed August 13, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and LaSota-Jones Lead and Zinc Corporation, a State of Washington corporation

whose mailing address is Metaline Falls, Washington

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before October 1, 1956, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within three months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $11,310.00. The Government will contribute 50 percent of the fixed unit cost of the work performed, not exceeding $5,655.00, in accordance with the provisions of Articles 4 and 5.

(c) The Operator shall not transfer or assign this contract or any right or obligation thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's rights of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances: None

(b) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached, as follows: None

(c) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. The Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing

in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. *Performance of the work.*—(a) Operator's responsibility.—The work shall be performed diligently, efficiently, expertly, in a workmanlike manner, and in accordance with good mining standards and State regulations governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work, as specified in Article 1 (a).

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after certification of discovery or development, to inspect production operations and underground workings. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. *Contribution by the Government.*—The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5 (b); but all payments by the Government are provisional only, subject to audit, and until the account between the Operator and the Government is finally audited and settled and the Operator's final report has been rendered, the Government may withhold such sums as it sees fit but not in excess of 10 percent of the estimated total cost of the work. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government will not contribute to the cost of any work performed prior to the date of this contract. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) Operator's records.—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine all pertinent books, documents, papers, and records of the Operator.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 6. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered a sufficient final report (see Article 5), may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling, assaying, or transportation performed or paid by the Operator or by anyone other than the buyer are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent) after the lapse of six months from the date the ore was extracted from the ground remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this Article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 7. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 7 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and liens to secure the payment thereof, and such rights shall be fully preserved.

ARTICLE 8. *Notices to be given by the Government* may be delivered to the Operator or may be sent by registered mail addressed to the Operator at the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 10. *Changes and added provisions.*—

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Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

LaSOTA-JONES LEAD AND ZINC CORPORATION
(Operator)

By F. P. La Sota

Title Pres

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

Ruth Hoffland
"Appd. Sol. Off."
Winsted Talbert Martin

I, Dolly A. Rucker, certify that I am the recording secretary of the corporation named as Operator herein; that F. P. La Sota, who signed this contract on behalf of the Operator, was then President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Dolly A. Rucker, Sec.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE : 1956—O-383069

EXPLORATION PROJECT CONTRACT
LASOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

RECEIVED
SEP 20 1973

ANNEX I

The land referred to in Article 2 is owned by the Operator and consists of the following unpatented lode mining claims:

June Bug	Book 1	Page 287
Silver Star	Book 3	Page 104
Milwaukee	Book 3	Page 287
Grub Stake No. 1	Book 3	Page 258
Grub Stake No. 2	Book 3	Page 259
Grub Stake No. 3	Book 3	Page 260
Silvia	Book 1	Page 258
Silver Moon	Book 1	Page 259
Iron Cap	Book 1	Page 260
Iron Cap Fraction	Book 1	Page 286
Firecracker	Book 1	Page 254
4th of July	Book 3	Page 102

The notices of location of these claims are recorded in the courthouse of Pend Oreille County, at Newport, Washington. The claims are situated in secs. 14 and 15, T. 40 N., R. 44 E., W. M. and their locations are shown in blue shading on the attached map entitled "Upper Slate Creek, Pend Oreille County, Washington -- La Sota & Jones (Owners) - Plate 1."

EXPLORATION PROJECT CONTRACT
LaSOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore for ores of lead and zinc by diamond drilling. Five holes shall be drilled. The depth of each hole may vary from approximately 200 feet to approximately 300 feet. The total footage of all drilling shall not exceed 1,500 feet. The holes shall be drilled with coring bits and core recovering equipment of EX size or larger.

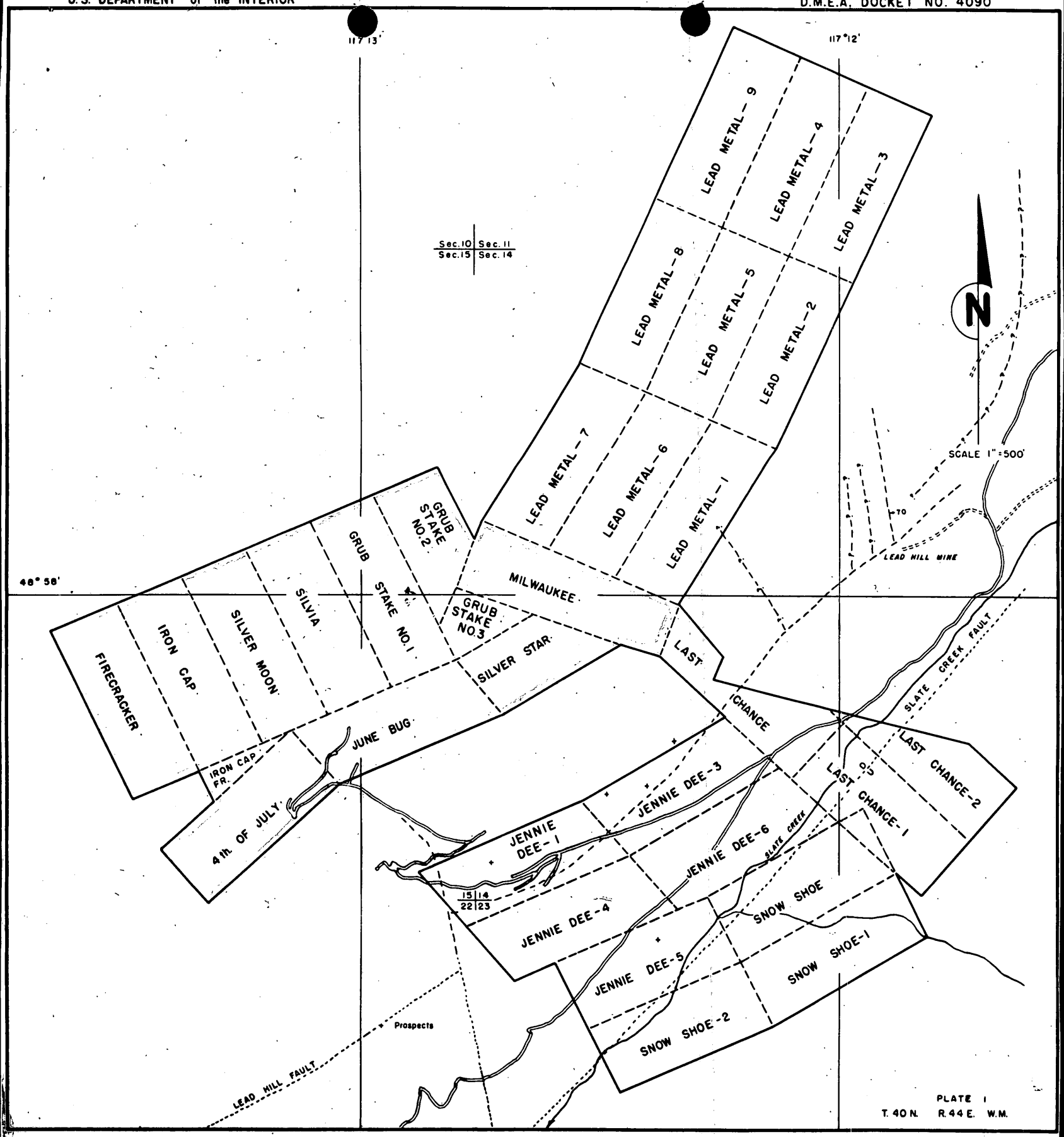
All significantly mineralized core shall be sampled and assayed for total lead and oxide lead, and for total zinc and oxide zinc. Core samples for assay shall not represent in excess of five feet of core length.

The location, direction, and inclination of all drill holes shall be subject to prior Government approval. The approximate locations of the five holes are shown on the map entitled "Sketch Map of Area, LaSota - Jones Property, Plate 3," attached hereto and made a part hereof.

Estimated Costs of Project

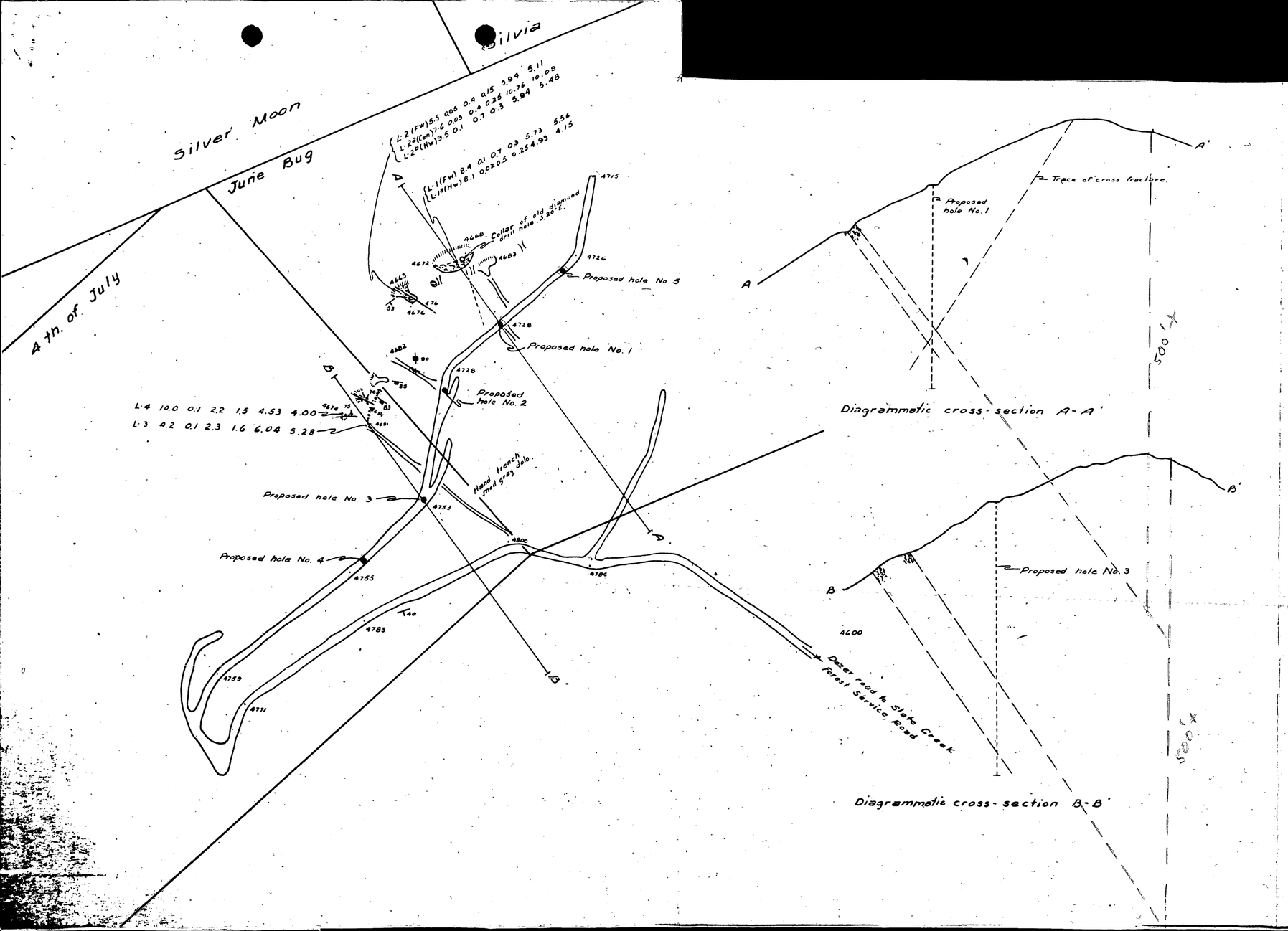
Fixed Unit Costs

1,500 feet of diamond drilling @ $7.06/ft.	$10,590.00	
(Includes all charges and costs incidental to the drilling, except as provided below)		
1 Engineer-geologist, 1 month @ $500.00/mo.	500.00	
40 Samples to be assayed @ $5.50	220.00	
Estimated Total Cost of Project		$11,310.00
Government Participation @ 50%		$ 5,655.00



UPPER SLATE CREEK, PEND OREILLE COUNTY, WASHINGTON — LA SOTA & JONES (Owners)

RECEIVED
SEP 20 1956



Sample No.	Width Feet	Ag oz	Pb %	Pb as oxide %	Zn. %	Zn as oxide %
L-1.(FW)	8.4	0.1	0.7	0.3	5.73	5.56

SKETCH MAP OF AREA — B

LA SOTA - JONES PROPERTY

PEND OREILLE COUNTY, WASHINGTON

SCALE 1" = 100'

DMEA 4090

PLATE 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC - 9 1955

December 6, 1955

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

Re: New Application (lead-zinc)
F. P. La Sota, et al.
La Sota-Jones Mine
Pend Oreille County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by F. P. La Sota, E. P. Jones, Dolly Ricker, Nick Mondich and P. J. Sullivan, partners in the La Sota-Jones mine near Metaline Falls, Washington.

We cannot predict when a surface examination of the property will be possible because of snow conditions.

Very truly yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosures

cc: USBM (2)
Kellum

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED

Form approved. Bureau No. 42-R1035.2.

RECEIVED DEC - 9 1955

DEC 5 1955
U. S. G. S.
SPOKANE, WASH

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. DMEA-4090
Metal or Mineral Lead - Zinc
Date Received 12-9-55
Estimated Cost $15,000.00
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: F. P. La Sota Metaline Falls, Wash. (51% owner)
E. P. Jones. Dolly Ricker. Nick Mondich. and P. J. Sullivan.
Partners. All of Metaline Falls, Wash.

(*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 See separate sheet

(*b*) State any mine name by which the property is known. La Sota and Jones

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

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

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

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

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. See separate sheet

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. none

(*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. see separate sheet

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

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

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore lead and zinc

(*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. see separate sheet

(*c*) The work will start within 30 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. see separate sheet

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.). none

(*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. see estimate of costs

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

(*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. equipment owned by operator

(*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. none

(*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. see estimate of costs

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper. personal work and supervision

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 Nov 21, 195__

F.P.La Sota. E.P.Jones. N.Mondich and P.J. Sullivan (Applicant)

By F.P. La Sota

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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DEC - 9 1955

3. (a) The property concerned is located 14 miles North East from Metaline Falls, Wash. In the upper Slate Creek area of the Metaline Mining District, to wit; The SE¼ of the SW¼ of Sec 11, the SW¼ of the SE¼ of Sec 11, the NW¼ of Sec 14, the SW¼ of Sec 14, the SE¼ of Sec 14, the NW¼ of Sec 23, the NE¼ of Sec 23, the SW¼ of SEC 15, the SE¼ of Sec 15, and the NE¼ of Sec 15. All in Township 40, North Range 43, E.W.M. 44?

3.(f)

	Book	Page		Book	Page
Lead Metal No 1,	3	105	Fire Cracker	1	254
" " " 2	3	106	Silvia	1	258
" " " 3	3	107	Silver Moon	1	259
" " " 4	3	108	Iron Cap	1	260
" " " 5	3	109	Iron Cap Fr	1	286
" " " 6	3	110	June Bug	1	287
" " " 7	3	111	4th of July	3	102
" " " 8	3	112	Silver Star	3	104
" " " 9	3	113	Grub Stake No 1	3	258
Milwaukee	3	287	" " " 2	3	259
Last Chance	4	94	" " " 3	3	260
" " " 1	4	95			
" " " 2	4	162			
Jenny Dee " 1	3	72			
" " " 3	3	73			
" " " 4	3	74			
" " " 5	3	75			
" " " 6	3	152			
Snow Shoe	3	186			
Snow Shoe " 1	3	187			
Snow Shoe " 2	3	188			

All 32 mining claims above are recorded at Newport Wash. County Seat.

4. (a)
All exploration to date was centered on the Jenny Dee No 1 claim, at approximate center of said claim, such as dozer stripping, trenching and about 800 feet of diamond drilling, also access roads build to all proposed work. All work was performed by my self or my supervision.

4.(c)
The ore is a bedded lead and zinc diposit in dolomite and jasperoid formation, It is the best and most promissing surface showing in the Metaline area today, and my wish for a DMEA loan is to explore the extent of the two diposits shown in accompanying map.

4.(d)
Shipping point would be Metaline Falls, Wash. 14 miles distance 7 miles highway balance fair graveled road.

5.(b)
The two ore bearing beds I wish to explore by diamond drill are shown in accompanying map, one on the North West side of June Bug claim, located in the SE¼ of Sec 15, on which I want to put down four or five holes or a total of 1250 ft.
The other ore bearing diposit I want to further explore is in approximate center of the Jenny Dee No 1 claim located in the SW¼ of Sec 14, I wish to drill ~~I want to drill~~ three or four holes there or a total of 750 ft.

5(c)
The work will start somn as contract is awarded or weather permits in the spring, and completed within 24 months from date of contract.

5(d)
I had several years of diamond drill experience and own my own diamond drill and equipment, and will oporate and supervise the operation

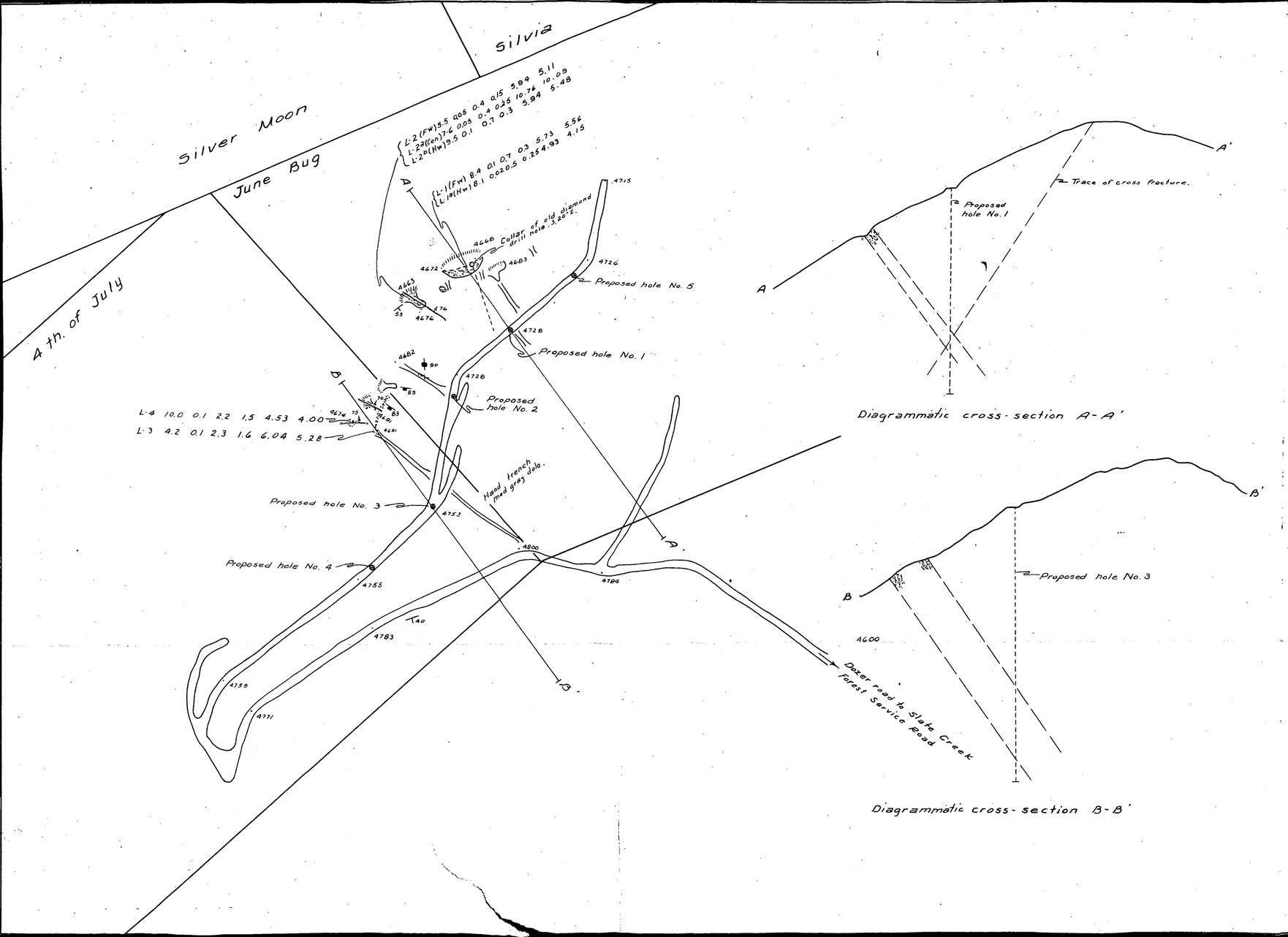
6.

Estimate of costs; In general the area is dificult to drill mostly due to hard rock and breaciated areas resulting in short blocks and fast diamond bit wear. past experience show the following detailed per foot costs.

Accounting, Med aid, Ind Ins, and Social sec,	45¢	per	foot	
diamond bit wear	1.10	"	"	
Gas and oil	68	"	"	
water pumping and installation	33	"	"	
repair and replacement	25	"	"	
assaying and engineering	37	"	"	
Moving and installations	32	"	"	
operating labor	4.00	"	"	
	7.50	"	"	
2000 feet @ $7.50 per foot total				$15.000.

6.(d)

Operating equipment owened by applicant	present value
one diamond drill capacity 1000 feet	$1800.
800 feet of Ex and AX rods and cassings	1200.
1 gas pump and 1 air pump	600.
1000 feet of pipe and fittings	400.
diamond bits core barrels tools and miscellaneous	1200.
1 air compressor cap 310 cub ft	2500.
	$7700.



Diagrammatic cross-section A-A'

Diagrammatic cross-section B-B'

EXPLANATION

Metaline limestone

Disseminated zinc and lead minerals in med. gray dolomite

Shear planes

Beds

Joints

Survey station showing elevation

Pits and trenches

Diamond drill hole

Proposed diamond drill hole

Sample No.	Width Feet	Ag oz	Pb %	Pb as oxide %	Zn. %	Zn as oxide %
L-1 (FW)	8.4	0.1	0.7	0.3	5.73	5.56

SKETCH MAP OF AREA — B

LA SOTA - JONES PROPERTY

PEND OREILLE COUNTY, WASHINGTON

SCALE 1" = 100'

DMEA 4090

PLATE 3

NAME OR TITL

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2. Void previous block.
3. Write clearly.

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DMEA Form 7
(12-56)

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Date	Surname	Code

PROJECT SUMMARY REPORT

By: J. W. Alt July 22, 1958

1. Docket No. DMEA-4090 (Lead-Zinc)
Contract No. Idm-E991
Property: LaSota-Jones Property
Pend Oreille County, Washington

Operator: LaSota-Jones Lead and Zinc Corporation
Metaline Falls, Washington

Operator's Property Rights: Owner

2. Contract dated October 1, 1956. To complete - 3 months.

Work Authorized (Short Form Contract)

The purpose of the project is to explore for ores of lead and zinc by diamond drilling. Five holes shall be drilled. The depth of each hole may vary from approximately 200 feet to approximately 300 feet. The total footage of all drilling shall not exceed 1,500 feet.

Estimated Costs of Project (Fixed Unit Costs)

1,500 feet of diamond drilling @ $7.06/ft. (Includes all costs of drilling, except as provided below)	$10,590.00
1 Engineer - geologist, 1 month @ $500/month	500.00
40 samples to be assayed @ $5.50/each	220.00
Estimated Total Cost of Project	$11,310.00
Government Participation @ 50%	$ 5,635.00

8623

Amendments

No. 1 Agreed December 12, 1956.

Suspends work from November 1, 1956 to June 1, 1957.
Extends completion time from 3 months to 15 months.
Royalty payment period increased from 10 years to 11 years.

No. 2 Agreed January 18, 1957.

Change in description of sampling.
Change in costs for samples to determinations.

No. 3 Agreed October 25, 1957.

Change in the description of the work.
Extends completion time from 15 months to 21 months or to May 13, 1958.
Royalty payment period increased from 11 years to 12 years.

Work Completed

6 diamond drill holes, total drilling 1,500 feet @ $7.06/ft.	$10,590.00
Engineer-geologist, 1 month @ $500/month	500.00
Chemical determinations, 358 @ $.60/each	214.80
Total Cost	$11,304.80

Drilling was commenced early in September, 1956 and was completed in November, 1957.

3. Report of Review dated February 20, 1958.

Total cost claimed by Operator	$11,304.80
Exceptions	0.00
Total Accepted Cost Claimed	$11,304.80
Government Participation @ 50%	$ 5,652.40

Operator's final report dated January 27, 1958.
Field team final report dated April, 1958.

4. Certification date: No Certification of Discovery or Development made as no extensions of ore nor new discoveries were made.

5. Comments

The Operator carried out the prescribed work in a business-like manner and was very cooperative with the Government representatives. The Operator at his own cost completed 141 feet of drilling.

The results of drilling were not encouraging. Only one of the drill cores showed more than a trace of lead and cores from only 2 holes showed more than 1 percent zinc. DDH1 cut 10 feet of material that averaged 1.39% zinc including 1.09% of oxidized zinc. DDH2 cut 5 feet of material that assayed 1.25% zinc including 1.13% of oxidized zinc. These thicknesses of zinc-bearing core are approximately down dip from outcrops that average 7.18% combined lead and zinc over an average width of 7.47 feet. The drilling showed that the ore in the outcrop does not continue to depth.

There are not enough exposures on surface nor holes cutting the mineralized zone at depth to estimate an ore reserve. The best that could be inferred is a few thousand tons of suboregrade material.

On April 29, 1958, the LaSota-Jones Lead Zinc Corporation applied for additional aid to explore their property for lead and zinc ore. This application was denied.

Further exploration with Government funds is not recommended.

J. W. Alt

J. W. Alt

JWAlt/ss 7/14/58
Copy to: Docket
Chron.

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(12-56)

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Date	Surname	Code
7/28	[illegible]	500
7-28	Chambers	800
	Oil Leave	~~120~~
7/29	[illegible]	110
7/30	[illegible]	100
7/30	C D	220
		500

JUL 29 1958

Mr. F. P. LaSota, President
LaSota-Jones Lead and Zinc Corporation
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
F. P. LaSota et al.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. idm-E991

Dear Mr. LaSota:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WRGriswold/dl
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. I (2)
Mr. Bishop, USBM
T. H. Kiilsgaard, USGS
Mr. Chambers

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
6/26	[illegible]	500
6/30	Selbredge	130
6/30	McMahon	130
6/30	Kiilsgaard	130
"	Johnson	110
"	Mittendorf	100
6/30	C	220
		500

JUN 30 1958

Mr. F. P. LaSota, President
LaSota-Jones Lead and Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. LaSota:

Your application for additional aid for an exploration project and other data available to us in Washington concerning your application 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, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/er 6/26/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region (2)
Chron.

8623

June 26, 1958

Memorandum for the Docket

From: Director, Division of Base Metals

Subject: Justification for Denial of application for additional work on Docket No. DMEA-4090, La-Sota-Jones Lead and Zinc Corporation, LaSota-Jones Property, Pend Oreille County, Washington, Contract No. Idm-E991, Lead-Zinc.

The previous project under this docket (in the Metaline Area) showed nothing. The Applicant now requests work on a different part of their property.

The Field Team recommends favorably but Kiilsgaard in two memorandums, May 9 and June 4, 1958, is strongly opposed, for geologic reasons which appears logical and convincing. Bishop likewise, favors denial.

The Base Metals Division concurs with the denials of the commodity members. Little can be added to the Kiilsgaard memorandums, structural and stratigraphic data are vague, any ores would be deep, and 3 holes, at best, could prove little.

W. R. Griswold

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

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JUN 25 1958
CODE
C 220
C/25 Corrs. 500

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

June 25, 1958

Re: DMEA 4090; Lead-Zinc
$31,500
LaSota-Jones Lead Zinc Corp.
Upper Slate Creek Property
Pend Oreille, Washington

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of the Field Team's appraisal of reference application. Memorandum dated May 23 and received Washington June 2, 1958.

The Field Team recommends three deep vertical holes in the graben bounded by the Lead Hill and Slate Creek faults to test the Josephine horizon beneath the Ledbetter slate. Justification is based on general considerations of favorability of the Josephine horizon in the Metaline Falls district and on the occurrence of mineralization in the outcropping beds northwest of the Lead Hill fault.

Inadequacies noted in the application are also apparent in the Field Team's memorandum. The 500-scale sketch map (the only one presented) does not show geologic features discussed in the text. Attitude of the beds is neither recorded on the map or discussed in the text. Yet, the strike and dip of the Josephine outside the graben is a critical factor in evaluating the degree to which erosion has removed the favorable zone.

Past drilling programs have indicated no ore in the Josephine horizon northwest of the fault. For this reason there seems little hope for ore in the Josephine within the graben at still greater depths and distances from points of known mineralization. There are contradictory implications that the outcropping mineralization is not in the Josephine, yet strength of mineralization in the same outcrop is sited to support the hopes for ore in the down-faulted block.

I recommend denial without prejudice.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Callaway
F I L E S

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RECEIVED JUN 5 1958

IN REPLY REFER TO:

DATE	INITIAL	CODE
6/5	C	220
6/6	Corp.	500

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

June 4, 1958

Memorandum

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team Report, DMEA Docket 4090 (Lead-Zinc) LaSota-Jones Property, Pend Oreille County, Washington

The Field Team has recommended a contract for the cited property, the work to consist of 3 deep drill holes, the cost of which is estimated at $34,483. The work is to be in two stages. Stage I would consist of one diamond drill hole, to be drilled to the Ledbetter-Metalline contract or 1,000 feet, whichever is less. Stage II would drill an additional 200 feet in the first hole and drill two more holes into the Metalline limestone.

I recommended denial of this application in a review dated May 9, 1958. There is nothing in the present report to indicate that recommendation should be revised. Reasons for denying the application are clearly stated in the report. The facts are that the outcrop of Josephine limestone on the property is weak. The horizon could be better mineralized under the Ledbetter but might not be. Elsewhere in the district, the Josephine horizon is not always mineralized, as has been proven by much exploration. In fact, DMEA had a contract with American Zinc (Docket 2388) on the Bluebird property only a short distance away from the LaSota-Jones property. There, 17 holes were put down through the Ledbetter in an area measuring 3,600 by 1,000 feet. All of them explored the Josephine horizon along the Lead Hill fault, the same fault we are now concerned with. Traces of lead-zinc were found but not in quantities to be significant. No discovery was certified.

In the present instance, DMEA would be drilling deep holes in a fault block where the location of the faults is not clearly known (See Plate 2 of Final Report on previous project). No one is sure of the offset on the Lead Hill fault. If it is 2,000 feet, as has been postulated, the holes would need to be much deeper than is now planned. The holes are almost certain to wander to the northwest, and, if they pass through the Lead Hill

fault, they will bottom well below the Josephine horizon. Furthermore, 3 holes will hardly give the area a good look, and, if negative, could do more harm to the property than good. Even if ore is found at a depth of 1,000 feet, the chances are it will be many years before it is mined. In view of the average grade of ore in the Metalline district, such deep mining would be expensive.

All things considered, I believe the chances of making a significant discovery are remote. The chances of the property being brought into production are even more remote. I therefore recommend that DMEA deny this application.

T. H. Kiilsgaard

T. H. Kiilsgaard

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6/5 C 220
6/5 WPB 500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

So. 157 Howard Street
Spokane 4, Washington

May 28, 1958

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead & Zinc Corp.
Jenny Dee Group
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum by Howard F. Albee and A. E. Weissenborn, Geologists, U. S. Geological Survey, and G. G. Waddell, Mining Engineer, U. S. Bureau of Mines, evaluating the referenced application.

The applicant proposes to explore in two different environments. He proposes four drill holes northwest of the Lead Hill fault in the lower part of the ore-bearing beds of the Metaline limestone and three drill holes southeast of the Lead Hill fault, collaring in Ledbetter slate which overlies the Metaline limestone. These latter three holes will be in a graben between the Lead Hill and Slate Creek faults in an area 1,200 feet wide and 3,000 feet long. In this area it is highly probable that the ore-bearing beds of the Metaline limestone are present.

Albee, Weissenborn and Waddell conclude that the chance of making a significant discovery in the area northwest of the fault is poor but that in the area southeast of the fault the chance is good. Because of a number of uncertainties, they recommend that a cautious two-stage program of drilling in the block of ground between the Lead Hill and Slate Creek faults be approved.

We concur with these conclusions and recommendations.

Reviewed by
DMEA OPERATING COMMITTEE
6-4-58
(date)

By Field Team, Region I

A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wilg G. Agnew
Wilg G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USGS (SRO)
Albee

DMEA

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DATE | INITIAL | NUMBER
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

May 23, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: Howard F. Albee and A. E. Weissenborn, Geologists, U. S. Geological Survey, and G. C. Waddell, Mining Engineer, U. S. Bureau of Mines

Subject: Evaluation of application for more work, LaSota-Jones Lead Zinc Corporation, Docket No. DMEA-4090 (Lead-Zinc), Jenny Dee Group, Pend Oreille County, Washington, Contract No. Idm-E991.

INTRODUCTION

LaSota-Jones Lead Zinc Corporation, Metaline Falls, Washington, applied on April 29, 1958, for aid to explore for lead and zinc on part of their property in the Slate Creek Mining District, Pend Oreille County, Washington. The applicant completed a DMEA drilling program on part of the property in 1957 at a total cost of $11,304.80. The new application, estimated by F. P. LaSota to cost $31,500, is for drilling on part of 11 unpatented lode mining claims, known as the Jenny Dee group, plate 1. These claims were not included in the prior contract.

Sufficient data are available in the Field Team files so that a report could be prepared without a field examination.

SUMMARY

The LaSota-Jones property consists of 32 unpatented lode mining claims in the Upper Slate Creek area of the Metaline Mining District. The program completed by the applicant was in an area approximately 1,800 feet northwest of the Jenny Dee group and the Lead Hill fault.

The mineralized outcrops in the area of the applicant's previous program as well as those near the north side of the Jenny Dee No. 1 claim are thought to be remnants of ore bodies in the lower part of the ore-bearing beds of the Metaline limestone, that is, in the lower part of the so-called "Josephine horizon." The

Reviewed by
DMEA OPERATING COMMITTEE
6-4-58
(date)

upper part of these beds has been eroded. The southeastern extension of the mineralized beds is dropped down by the Lead Hill fault and is overlain by possibly as much as 1,100 feet of Ledbetter slate. Presumably, the entire thickness of the Josephine horizon remains below the Ledbetter slate southeast of the Lead Hill fault.

The applicant proposes to core drill four holes near the outcrop on the Jenny Dee No. 1 claim and three holes southeast of the Lead Hill fault on the Jenny Dee No. 3, 4, and 6 claims, using noncore bits through the Ledbetter slate and coring in the underlying Metaline limestone.

RECOMMENDATIONS

The applicant has already drilled seven holes in an unsuccessful attempt to find ore at shallow depth in the Metaline limestone west of the Lead Hill fault (Area A of the previous application). A request for exploration in this area was previously denied; there is no justification to reverse this decision.

The three deep holes east of the Lead Hill fault are intended to test the Metaline limestone under a cover of Ledbetter slate lying between the Lead Hill and the Slate Creek faults. This is a separate and distinct target unrelated to the target in Area A. The potential for discovery is good, but because of a number of uncertainties the examiners recommend a cautious two-stage program. Stage I would consist of drilling 1 vertical diamond drill hole to the Ledbetter slate-Metaline limestone contact or to a maximum depth of 1,000 feet. If the Ledbetter-Metaline contact is reached in 1,000 feet or less, Stage II would be undertaken. Stage II will consist of extending the hole approximately 200 feet into the Metaline limestone and drilling 2 more holes through the Ledbetter and approximately 200 feet into the Metaline limestone. If the Stage I hole does not reach the Ledbetter-Metaline contact in 1,000 feet or less, the project shall be abandoned and the Government shall not contribute to the costs of Stage II. The cost of the project is estimated at $34,483, of which the Government's share would be $17,241.50. Stage I would amount to a little less than one-third or approximately $8,468, of which the Government's contribution would be $4,234.

LOCATION AND ACCESSIBILITY

The LaSota-Jones property lies about 10 miles northeast of Metaline Falls, Washington, in the Upper Slate Creek area of the Metaline Mining District (pl. 1). The claims are in parts of secs. 11, 14, 15, 22, and 23, T. 40 N., R. 44 E. Willamette meridian, Pend Oreille County, Washington.

A road log to the property, beginning at Metaline Falls, reads: north on Washington State Highway 6 for 7.4 miles to a point 0.2 of a mile beyond the Slate Creek bridge, turn right on the Slate Creek road and travel 7 miles, keeping along the creek for about 5 miles then take the left fork that climbs rapidly above the creek for 2 miles. From here turn sharp left on a side road similar to a switchback (the main road continues straight ahead), and follow this road a short distance to the property. The snowfall is heavy and the road is not kept open during the winter. The area is typically mountainous, though not precipitous, and the slopes are brushy and largely covered by timber. Altitude of the property ranges from 4,000 to 5,000 feet.

PROPERTY

The applicant's property consists of 32 unpatented lode mining claims. Under the completed contract 12 claims about 1,800 feet northwest of the Jenny Dee group were subordinated. Under the present application the applicant proposes to explore on the Jenny Dee group of 11 claims. The 11 claims, as recorded at the Pend Oreille County Courthouse in Newport, Washington, are listed below:

Claim	Book	Page
Last Chance	4	94
Last Chance 1	4	95
Last Chance 2	4	162
Jenny Dee 1	3	72
Jenny Dee 3	3	73
Jenny Dee 4	3	74
Jenny Dee 5	3	75
Jenny Dee 6	3	152
Snow Shoe	3	186
Snow Shoe 1	3	187
Snow Shoe 2	2	188

There are no buildings or underground workings on the claims. Past work has consisted of road building and drilling. Seven diamond drill holes have been drilled on the Jenny Dee No. 1 claim.

On the claim map accompanying the application the Jenny Dee claims are shown as the Jennie Dee claims. This apparently is an error. The correct name is Jenny Dee.

GEOLOGY

The geology of the Metaline district is described by C. F. Park, Jr., and R. S. Cannon, Sr., in U. S. Geological Survey Professional Paper 202, "Geology and Ore Deposits of the Metaline Quadrangle", 1953. A series of later open-file maps by Dings of the U. S. Geological Survey and his associates shows the geology of the district in greater detail. One of these (Dings, M. G., Nelson, V. E., Gladstone, Irving, and Pabst, Adolph, "Geologic map of parts of the Metaline and Slate Creek districts, Pend Oreille County, Washington", U. S. Geol. Survey Open File Report, 1953) shows the geology of the district including the area of the Jenny Dee group of claims on a scale of 1 inch equals 500 feet. The geology shown on figure 1 has been taken from this map. The geology of the entire district is also shown on a scale of 3 inches equals 5,000 feet by M. G. Dings, D. H. Whitebread, R. G. Yates, and V. E. Nelson, "Geologic maps of the Metaline District, Pend Oreille, County, Washington", U. S. Geol. Survey Open File Report, December 1956.

Broadly speaking, in the Metaline district the chief structural feature is an anticline of Cambrian and Ordovician rock which plunges to the north in the southern part of the district and rises again as it is followed north to the Canadian boundary. The anticline is bounded on the east by the Slate Creek fault and is complexly cut by numerous high- and low-angle faults which have in places developed grabenlike structures. The important ore deposits are found as large replacement bodies in brecciated and dolomitized portions of the Cambrian Metaline limestone and are all in the so-called Josephine horizon, that is, they are all within 200 feet of the overlying Ordovician Ledbetter slate. The distribution, extent, and size of these bodies is shown in a most impressive fashion by Dings in a "Preliminary structure contour mapand sections of part of the Metaline district, Pend Oreille County, Washington", U. S. Geol. Survey Open File Report, October 29, 1956. The ore bodies are large, the mines are highly mechanized, and the district is an important one. Almost all of Washington's 1957 production of 12,300 tons of lead metal and 23,100 tons of zinc metal was derived from 2 mines in the Metaline district.

The Josephine horizon is exposed in only a few places in the district. Therefore, places where the Metaline limestone, by reason of faulting or folding lies under a cover of Ledbetter slate, are regarded as good areas for exploration. Exploration technique is to drill through the Ledbetter slate and to continue the hole about 200 feet into the Metaline limestone. No attempt is made to block out ore bodies in detail. According to Lynn C. Kinney, manager of the Pend Oreille Mining and Milling Co., if drilling demonstrates that an area is mineralized at all, experience has shown that it will produce 1 ton of ore per square foot of surface area of the Ledbetter slate. Kinney reports that drilling some 5,000 feet to the north of the Pend Oreille mine shows a thickening of the replaced beds so that to the north the factor may be actually as high as 2 tons per square foot.

The Jenny Dee claims are traversed by the Lead Hill and the Slate Creek faults. Near the Lead Hill mine the Lead Hill fault dips 80° SE. The dip of the Slate Creek fault is somewhat uncertain; judging from its straight course in the area under consideration it must also have a steep dip (fig. 1). Metaline limestone is exposed north of the Lead Hill fault and lead-zinc minerals can be found in some of the outcrops. However, seven holes were drilled by the applicant in the area without finding significant amounts of ore. Drilling to the northwest in and near the June Bug and 4th of July claims under the prior DMEA contract found only low-grade mineralization. Albee and Waddell, in a final report on this project, concluded that the exposures are stratigraphically too low in the Metaline limestone and that most of the Josephine horizon has been eroded away. This was also the conclusion of Park and Cannon in describing the Lead Hill mine (U. S. Geol. Survey Prof. Paper 202, p. 63) and is confirmed by H. L. James (personal communication). This, plus the small area available for exploration north of the Lead Hill fault, are compelling reasons for reaffirming the recommendation for denial made by Quinlan in considering this area in a previous application.

Between the Lead Hill and Slate Creek faults a graben 1,200 feet wide is underlain by Ledbetter slate. Thus the typical conditions exist which are favorable for exploration in the Metaline district; the cover of Ledbetter slate in the down-dropped block between the Lead Hill and Slate Creek faults has protected the Josephine horizon from erosion. Furthermore, although the favorable ground is believed to have been mostly removed by erosion, remnants of ore north of the Lead Hill fault suggest strongly that the Josephine horizon was ore-bearing at this locality, and consequently is very likely to be ore-bearing in the graben block.

The important question is the depth that it would be necessary to drill to reach the Metaline limestone. Opinions on this unfortunately differ. H. L. James and J. P. Albers in a U. S. Geological Survey open file report dated 1944 and titled, "Zinc-Lead Deposits of the Lead Hill Area on Slate Creek, Metaline District, Pend Oreille, County, Washington", postulate a vertical displacement on the fault of over 2,000 feet. They state that the fault has brought a quartzite member in the Ledbetter slate into contact with the Metaline limestone. They are not sure of the stratigraphic position of the quartzite within the Ledbetter slate, but from evidence elsewhere they believe it is at least 1,100 feet above the base of the formation. On this basis it would be necessary to drill a minimum of 1,100 feet to reach the Metaline limestone.

However, stratigraphic markers are unreliable in the Metaline district and can be used only locally and with much caution. Consequently not all geologists are in agreement. Roy Anderson, Chief Geologist, Pend Oreille Mines and Metals Company, who has had much experience in the district, believes that on the Jenny Dee claims the depth to the Metaline-Ledbetter contact in the Lead Hill-Slate Creek fault graben is not over 1,000 feet and may be much less. Robert Stebbins, formerly chief geologist for Pend Oreille Mines, believes that the contact may not be over 200 feet deep. The situation is further complicated by tight folding of the beds between the faults bounding the graben block.

The graben area within LaSota's claim boundaries is approximately 1,200 feet wide by 3,000 feet long on the surface, and thus comprises an area of 3,600,000 square feet. If the same factor be applied as has been true elsewhere in the district, the ore potential is in the neighborhood of 3,000,000 tons. The possibility of making a significant discovery on the Jenny Dee group, therefore, is good. If exploration were successful, a much greater length of graben would be open for prospecting.

THE APPLICANT

F. P. LaSota, Metaline Falls, Washington, is president and manager of the corporation. In a former DMEA contract, Idm-E991, he used his own small drill and cored EX size to a depth of 385 feet. The core recovery was adequate and the exploration program was completed as specified in the contract.

Some doubt was entertained as to whether Mr. LaSota would be able to do the deep drilling required, and particularly whether his equipment would be adequate. On inquiry it was found that for the proposed program Mr. LaSota intends to borrow from Pend Oreille Mines a large drill rig capable of drilling to a depth of 3,000 feet. He intends to do the drilling himself, but Pend Oreille Mines is interested in the project and will cooperate and advise the Operator about anticipated drilling trouble. Mr. LaSota has drilled

for Pend Oreille before and should be a competent driller and capable of doing the proposed drilling. Mr. LaSota assured Zoldok in a telephone conversation that he had sufficient funds to pay his share of the costs. Materials, equipment, supplies and manpower are available at Metaline Falls. Sufficient water for drilling purposes is available on the property. The nearest source of electrical power is approximately 8 miles distant.

PROPERTY RIGHTS

Originally the Jenny Dee claim group and the other claims that comprise the 32 mining claims held by the applicant were owned by individuals. In August 1956 they formed the LaSota-Jones Lead and Zinc Corporation and turned their respective claim holdings over to the corporation. The claim assignments were checked by the DMEA attorneys prior to the last contract.

DISCUSSION OF APPLICANT'S PROPOSAL

The field representatives are in agreement that the four shallow holes north of the Lead Hill fault should not be drilled. There is also agreement that the Lead Hill-Slate Creek fault graben is a favorable place for exploration. There are some misgivings, however, concerning the deep drilling and of the feasibility of the project. Arguments pro and con are summarized below.

Factors against the deep drilling project

(1) Uncertainty as to depth to the Metaline-Ledbetter contact.

Stebbins believes that it may be as shallow as 200 feet; Anderson believes that it will be under 1,100 feet and may be much less; James and Albers think it may be 1,100 feet or more.

(2) Drifting of drill holes.

Experience at Metaline, including DMEA drilling on the American Zinc Mineral Right, shows that the holes drift badly. It is possible that the holes may be deflected and cross one of the boundaries of the graben fault, or for some other reason never reach the desired stratigraphic horizon.

(3) Economy of mining from depth.

Both Pend Oreille Mines and Metals and American Zinc are mining from depth but they followed the ore down from near-surface ore.

(4) Three holes are insufficient to test the area.

Should the holes yield unfavorable results the potential of the area would remain unproven and the lack of positive information might be a deterent to future exploration.

(5) Even if a discovery were made, with large, developed reserves in the district, mining might not start in time to repay the Government for its participation in the project.

Factors in favor of deep drilling

(1) Uncertainties concerning depth to the Metaline-Ledbetter contact can never be resolved except by actual test. One drill hole would be worth a thousand speculations.

(2) If the area is mineralized and is within range of drill holes, a very large potential tonnage could be found on this and adjacent properties.

(3) Three holes are admittedly insufficient to test the area adequately, but if even one of them intersects ore, the companies in the district will undoubtedly undertake further exploration. Even if all should be barren, if the drilling proved that the Metaline-Ledbetter contact is within reach of surface drill holes, it is likely that the mining companies would be encouraged to attempt further exploration of the graben block. The proposed work might lay the groundwork, therefore, for a more extensive project, with or without Government assistance.

(4) The holes undoubtedly will drift, but if located near the middle of the graben block, are unlikely to drift out of the block. The drift will tend to divert the hole from vertical to more normal to the bedding, which may actually shorten the distance to the contact.

(5) LaSota probably would be unable to mine deep ore, but if a discovery were made, one or the other of the two companies operating in the district would almost certainly be interested in developing the property. If the ore bodies are similar in size to those mined elsewhere in the district, depth would not be an insurmountable obstacle.

(6) DMEA likes to see the projects repay the Government's share completely, but repayment within the specified time is not a criterion for passing on the merits of a project.

After considering the above factors, it seems reasonable to risk one hole to a depth of 1,000 feet. If the hole fails to find the Metaline limestone by this depth, the project should be abandoned. If the hole hits the Metaline limestone in 1,000 feet or less, it should be continued approximately 200 feet into the Metaline and two more holes should be drilled, also 200 feet into the Metaline.

APPLICANT'S PROPOSAL

The applicant proposes to drill 3 holes 1,000 feet each and 4 holes that average 300 feet each, totaling 4,200 feet at a cost of $7.50 per foot for a total of $31,500. His breakdown of costs based on the former contract, Idm-E991, are as follows:

"Estimate total and unit cost closely based on DMEA contract completed last year.

	Cost	Unit cost
Administration, F.I.C.A. Employment Security Industrial Insurance and Medical Aid	$ 2,436	$ .58
Fuel for power	1,386	.33
Diamond bit ware and replacement	1,854	.44
Replacement and repair drill and pump	756	.18
Core box material and labor	504	.12
Transportation and hauling	1,344	.32
Assays	420	.10
Geologist Engineer 1½ months	750	.18
Drill operation labor cost	19,656	4.68
Water installation moving piping and dozing for set up	2,394	.57
	$31,500	$7.50

The above is average per foot cost taking in consideration of drilling with a noncoring bit to the limestone. The slate sometime gives us trouble, caves, sand pockets which require reaming and casing of the limestones."

ESTIMATED COST OF PROJECT

The cost estimate is based on former DMEA drilling in the area -- American Zinc (Contracts Idm-E76 and Idm-E301) and the LaSota-Jones (Contract Idm-E991). In lieu of the greater depth of the holes to be drilled than drilled by the applicant in his former contract the following breakdown of costs is recommended to protect the drilling project as well as the Operator:

Stage I - drill 1 hole 1,000 feet deep

Dozing of all 3 drill sites (cost would be no more than to transport dozer out and back for 1 site)	$ 136.00
Drill 1,000 feet noncore and core drilling with associated allowances	8,332.00
Estimated cost - Stage I	$8,468.00
Government participation at 50 percent	$4,234.00

Stage II

3,200 feet noncore and core drilling in completing hole No. 1 and in drilling holes No. 2 and 3 including associated allowances	$26,015.00
Government participation at 50 percent	$13,007.50

ESTIMATED COST OF PROJECT

2,250 feet noncore drilling
1,950 feet core drilling

1. Independent Contracts

Bulldozer work (preparation of drill sites) D-6 cat. or equiv. - 8 hours at $12/hr.	$ 96.00	
Transportation of dozer to and from area -- approximately 20 miles round trip at minimum haulage fee	40.00	
Noncore drilling to depth of 750 feet -- total 2,250 feet EX size with no reaming allowance $6.10/ft.	13,725.00	
or		
Noncore drilling 2,250 feet AX size (may necessitate reaming) at $5.10/ft.		
Core drilling AX and larger depth 750 - 1,000 -- total 750 feet at $7.60/ft.	5,700.00	
depth 1,000 and above -- total 1,200 feet at $8.10/ft.	9,720.00	
Driving standpipe, 100 feet Noncore price plus additional $3.90 per ft.	390.00	
Reaming and casing or cementing drilling out 1,000 feet at $3/ft.	3,000.00	
Stand-by and set-up time 24 hours at $7.50/hr.	180.00	
		$32,851.00

2. Supervision, Labor, Consultants, etc.

Engineer-Geologist, 1½ mos. at $600/mo.	900.00

3. Operating Materials and Supplies		
Gasoline 100 gal./mo. for 6 mos. for water haul and transportation, 600 gal. at $0.36/gal.	$216.00	
Oil and lubrication	44.00	
50 core boxes at $4 each	200.00	
		$ 460.00
4. Operating Equipment		
Jeep 105 truck 6 mos. at $33.33/mo.		200.00
5. Initial Rehabilitation and Repairs		none
6. New Buildings, etc.		none
7. Miscellaneous		
Sample analysis - 120 at $0.60 per determination		72.00
Total		$34,483.00
Government participation at 50 percent		$17,241.50

Overall maximum per foot

4,200 feet at $34,483.00 = $8.21

SUMMARY OF PROJECT COSTS

Bulldozer work (preparation of drill sites) D-6 cat. or equiv. - 8 hours at $12/hr.	$ 96.00	
Transportation of dozer to and from area -- approximately 20 miles round trip at minimum haulage fee	40.00	
Noncore drilling to depth of 750 feet -- total 2,250 feet EX size with no reaming allowance $6.10/ft.	13,725.00	
or		
Noncore drilling 2,250 feet AX size (may necessitate reaming) at $5.10/ft.		
Core drilling AX and larger depth 750 - 1,000 -- total 750 feet at $7.60 per ft.	5,700.00	
depth 1,000 and above -- total 1,200 feet at $8.10/ft.	9,720.00	
Driving standpipe, 100 feet Noncore price plus additional $3.90/ft.	390.00	
Reaming and casing or cementing drilling out 1,000 feet at $3/ft.	3,000.00	
Engineer-Geologist, 1½ mos. at $600/mo.	900.00	
Incidental costs (includes set-ups, delays, water haulage and transportation, core boxes and all costs not otherwise covered) 20 cents per foot	840.00	
Sample analysis - 120 at $0.60 per determination	72.00	
Total cost		$34,483.00
Government participation at 50 percent		$17,241.50

Enclosures
Distribution:
DMEA(3) USGS(SRO) Albee
USBM(5) Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION (More work)

DOCKET NO. DMEA 4090

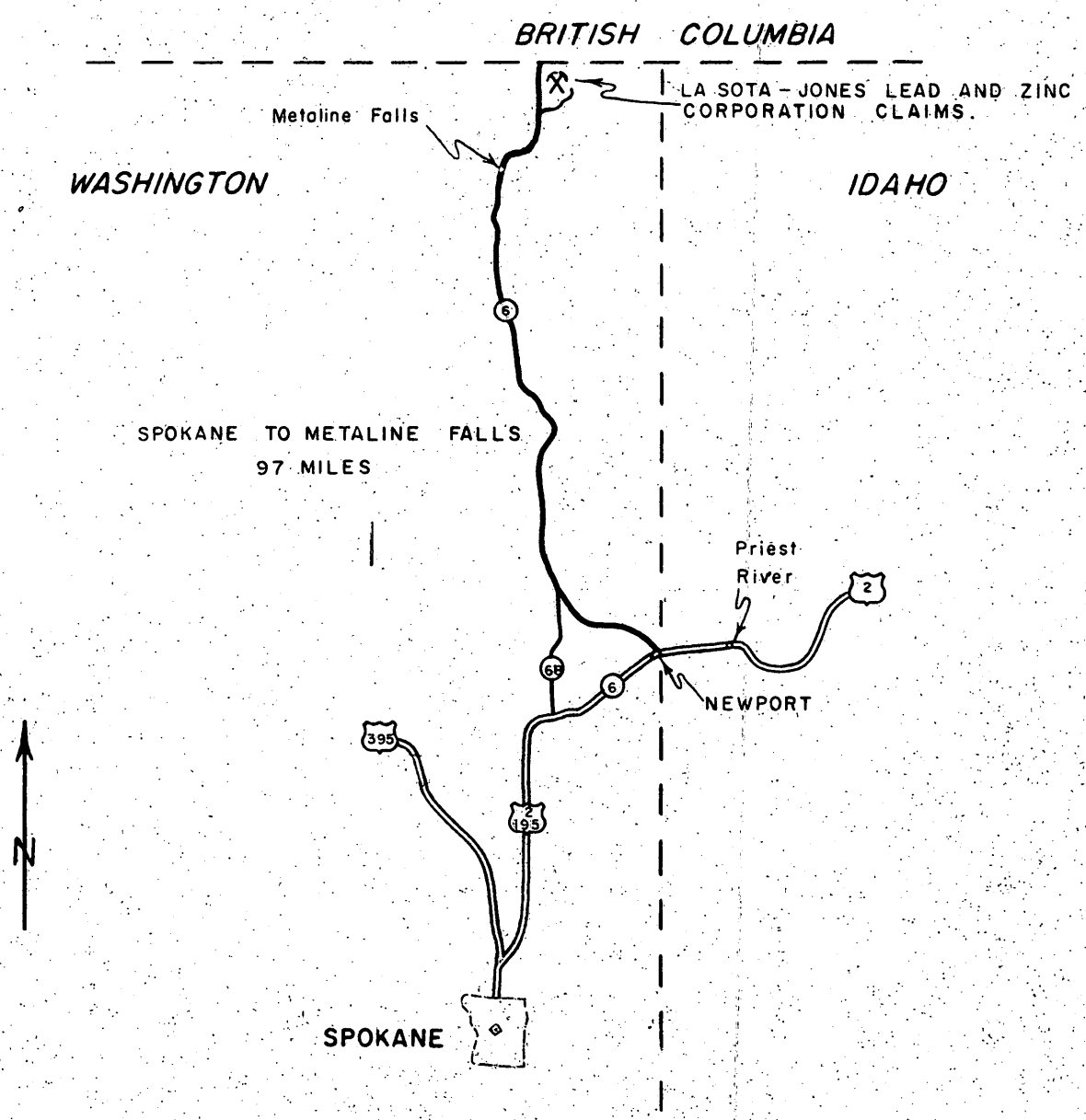

Figure 1. Location Map, La Sota-Jones Lead and Zinc Corporation Claims
PEND OREILLE COUNTY, WASHINGTON

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CODE

DATE	INITIALS	CODE

Maps for
Hilton Report of Examination
for additional copies
5/28/58.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/16	Griswold	500
5/16	GCS	130
"	Johnson	110
	Whitehead	100
5/19	C	220
		500

500

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

Reference is made to the Field Team's letter of april 30, 1958, which states that a report will be rendered as soon as possible on the cited property, based upon data in your files.

We will, therefore, hold this application in abeyance until the report and recommendations are received.

Enclosed are copies of memoranda, dated May 9, 1958, from T. H. Kiilsgaard, Geological Survey, and O. M. Bishop, Bureau of Mines, and one extra copy of the application for the Field Team use.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WRGriswold/er 5/15/ & 16/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

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DMEA Form 7
(12-56)

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Date	Surname	Code
5/15	Griswold	500
		130
		110
		100
		220
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Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Application for more work
Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead Zinc Corp.
Upper Slate Creek Property
Pend Oreille, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

Reference is made to the Field Team's letter of April 30, 1958, which states that a report will be rendered as soon as possible on the cited property, based upon data in your files.

We will, therefore, hold this application in abeyance until the report and recommendations are received.

Enclosed are copies of memoranda, dated May 9, 1958, from T. H. Kiilsgaard, Geological Survey, and O. A. Bishop, Bureau of Mines, and one extra copy of the application for the Field Team use.

Sincerely yours,

Chairman, Operating Committee
WRGriswold/er 5/15/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

Enclosures

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

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DMEA Form 7
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MAY 16 1958

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Date	Surname	Code
5/16	Griswold	500
5/16	Schedig	130
5/16	Lahnt	130
5/16	Kiilsgaard	130
"	Johnson	110
"	Mittendorf	100
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Mr. F. P. LaSota, President
LaSota-Jones Lead and Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. LaSota:

The application for assistance in exploring the subject property under the captioned docket number has been reviewed by the Division of Base Metals.

The DMEA Field Team, Region I, Mr. A. E. Weissenborn, Executive Officer, South 157 Howard Street, Spokane 4, Washington, will make a report of your property in the near future.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/er 5/15 & 16/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
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Mr. F. P. LaSota
LaSota-Jones Lead/Zinc Corp.
Metaline Falls, Washington

Re: Application for more work
Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead Zinc Corp.
Upper Slate Creek Property
Pend Oreille, Washington
Contract No. Idm-E991

(this)?

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The DMEA Field Team, Region I, Mr. A. E. Weissenborn, Executive Officer, South 157 Howard Street, Spokane 4, Washington, will make a report of your property in the near future.

Sincerely yours,

Administrator

WRGriswold/er 5/15/58
Copy to; Docket
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Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

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

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IN REPLY REFER TO:
RECEIVED MAY 12 1958

DATE	INITIALS	CODE
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5/12	WRG.	500

May 9, 1958

Memorandum

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application for more work, DMEA Docket 4090, LaSota-Jones Property, Pend Oreille, Washington

The applicant proposes to further explore his property by three 1,000-foot diamond drill holes, and by 1,200 feet of shallow drilling. Estimated cost of the work is $31,500.00. The Executive Officer implies in his covering letter that the shallow holes may not be justified but that the deep holes may be recommended for approval.

DMEA recently completed a contract on the LaSota-Jones property. The work consisted of six diamond drill holes put down from the surface on the 4th of July and June Bug claims. This exploration was fruitless; no Certification of Discovery was recommended, nor was Government participation in further exploration.

The presently proposed work is in Area A, in the Jennie Dee claims, about 3,000 feet southeast from the previous drilling. This area was described by Quinlan and Parsons in their report on the previous application, dated July 9, 1956. They note the A area had been previously explored by seven diamond drill holes, only two of which found any lead-zinc mineralization; in both of these holes the showings were insignificant. They describe the outcrop as unimpressive, giving considerable information to substantiate their reasons. Finally, they recommend against participating in work in Area A, even though the applicant had requested it, because the ore showings are small, erratic, unimpressive, and because replacement bodies within the area would be limited.

I concur with Quinlan. I can see no justification for work in the applicant's Area A. As shown on Plate 2 of Quinlan's and Parson's report, the three proposed deep holes would collar in glaciofluvial valley fill. The depth of this fill probably is unknown but it could be deep. Elsewhere in the district this material has proven very difficult to drill. The exact location

of both the Lead Hill and Slate Creek faults is concealed near the drilling sites. These faults definitely limit the dip-length extension of the "Josephine horizon". If these faults are closer together than shown, the target area becomes even smaller than Quinlan considered it to be.

Still another bad feature of the proposed project is the attitude of the Metaline limestone with respect to the drill sites. The "Josephine" outcrop is weak in Area A, as previously noted. The applicant hopes, however, that it will improve at depth, under the Ledbetter slate. Both the slate and Metaline limestone "Josephine" are dipping southeast, towards the drill sites. Vertical drilling in the district previously has had a strong tendency to curve toward and become normal to the dip of the rocks. Assuming this would happen here, a 1,000-foot hole would flatten to the northwest and could pass through the Lead Hill fault into limestone well below the "Josephine" horizon. This possibility is all the more likely because the Lead Hill fault could be closer to the drill sites than shown on the map. Even if the holes stay in the hanging wall of the Lead Hill fault and get through the Ledbetter into the underlying "Josephine horizon", there is no apparent reason to expect the horizon there to differ from that part that crops out along the northern edge of Area A, and which has been described as unimpressive.

I recommend this application be denied. The target is poor at the outcrop and there is no apparent reason to expect it to improve with depth. It is also limited in extent. There is no reason to expect a significant discovery to be made with the proposed three deep holes.

T. H. Kiilsgaard

T. H. Kiilsgaard

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

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RECEIVED MAY 12 1958

DATE	INITIAL	CODE
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5/13	WRG	500

May 9, 1958

Re: DMEA 4090; Lead-Zinc
$31,500
LaSota-Jones Lead Zinc Corp.
Upper Slate Creek Property
Pend Oreille, Washington

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of application dated April 29 and received Washington May 2, 1958

The applicant requests DMEA assistance to drill five holes totaling an estimated 4,200 feet in order to explore for possible commercial extensions of an ore outcrop. The favored zone is believed to be the upper Metaline limestone immediately beneath the capping Ledbetter slate. The plan calls for three holes totaling about 3,000 feet. In addition, two low-angle inclined holes and 2 nearly horizontal holes are proposed to determine the extent of mineralization in the vicinity of the outcrop on the Jennie Dee No. 1 claim.

No detail maps accompany the application. The 500-scale sketch map is incomplete insomuch as it does not show geologic features discussed in the text. Though recognizing these lacks, I am inclined to believe the property warrants some sound exploratory work.

I recommend the application be referred to the field team for appraisal and recommendations, in the light of their specific knowledge of the area and the applicant.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Callaway
F I L E S

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

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April 30, 1958

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

Re: Application for more work
Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead Zinc Corp.
Upper Slate Creek Property,
Pend Oreille, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for additional work on the LaSota-Jones property.

The applicant proposes to explore the upper portion of the Metaline limestone by diamond drilling three holes totaling 3,000 feet through the Ledbetter slate. He also proposes to drill four shallow holes totaling 1,200 feet in the vicinity of Area A described in the examination report, Docket No. DMEA-4090. The estimated total cost of the proposed project is $31,500.

We believe there is sufficient data in our files to prepare a report justifying the three deep holes. The shallow holes are in an area that has already been tested by the applicant and probably cannot be justified.

A report will be prepared as soon as possible.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
Albee

Form MF-103
Revised Oct. 195

UNITED STATES
DEPARTMENT OF THE INTERIOR

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

DEFENSE MINERALS EXPLORATION ADMINISTRATION

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

La Sota-Jones Lead Zinc Corp

Metaline Falls Washington

RECEIVED
APR 29 1958
U. S. G. S.
SPOKANE, WASH.

APPLICANT NOT TO USE THIS BLOCK
Docket Number
Date Received
Government Participation %
Region
Division Code

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: Wash

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
F. P. La Sota	Metaline Falls, Wash.	Pres
E. P. Jones	Metaline Falls, Wash.	Vice Pres
Dolly Ricker	Metaline Falls, Wash.	Sec Treas

Mineral(s) for which you wish to explore: Lead Zinc

Estimated Cost of Project: $ 31,500

LOCATION OF PROPERTY

Name	County	State
Upper Slate Creek	Pend Oreille	Wash

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

April 29 1958
Dated

F. P. La Sota
BY *(Signature)*

President
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

La Sota-Jones Lead Zinc Corp, Metaline Falls, Wash.

1. Applicant's Property Rights,

(a) Located in upper area of Slate Creek 14 miles NE of Metaline Falls, Wash. 7miles of State highway and 7 miles of fair graveled road, located in Sec 14 and Sec 15 Township 40. North Range 43 E.W.M. in Metaline mining district, Pend Oreille County.
Recorded claim locations

		Book	Page
Jenny Dee	No 1.	3	72
" "	" 3	3	73
" "	" 4	3	74
" "	" 5	3	75
" "	" 6	3	152
Snowshoe		3	186
"	" 1	3	187
"	" 2	3	188
Last Chance	" 1	4	94
"	" 2	4	95
"	" 3	4	162

All above mining claims recorded at Newport, Wash. Pend Oreille Co

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(b) The Jenny Dee group and the La Sota-Jones Lead Zinc.
(c) owner
(d) none

2. Physical Description.
(a) See maps and two Geologist reports
(b) President of La sota-Jones Lead Zinc Corp
(c) no production
(d) Ore reserves not known see Geologist report
(e) See Geologist report
((f) Same charactor of rock and formations as Pend Oreille and Grandview mines.
(g) Geologist reports and maps inclosed

3. Accessibility of project.

(a) F. P. La Sota Metaline Falls, Wash.
(b) Metaline Falls, Wash. distance 14 miles

4. The Exploration project.

(a) See Geologist Anderson report
(b) None
(c) Will start operation soon as approved and complete in about one year. progress depends on rock, average from 10ft to 20ft per shift.

5. Experience.

have years of drilling experience and will operate one shift personely, also supervise work.

La Sota-Jones Lead Zinc Corp, Metaline Falls, Wash.

(6) Estimate of costs,

(a) none

(b) Personal services. Engineer Geologist services, for field work logging core, ,mapping and compiling monthly narrative, about one and one half months @ $ 500. per month $750.
labor, driller $2.75 per hr helper @ $2.20 per hr all additional @ $2.20 per hr. all available. for period of ten to twelve months.

(c) Operating materials and supplies.

Applicant owns all material needed such as diamond bits rods cassing pipe pumps tanks and tools value about $3000.

(d) Operating Equipment.

Applicant owns all operating equipment and if additional is needed applicant will provide same, diamond drill value about $3000.

(e) None

(f) None

(g) Miscellaneous.

Estimate total and unit cost closely based on D.M.E.A. contract completed last year.

Administration, F.I.C.A. Employment Security. Industrial Insurance and Medical Aid	cost	$2.436	Unit	cost	$ .58
Fuel for power	"	1.386	"	"	.33
Diamond bit ware and replacement	"	1.854	"	"	.44
Replacement and repair drill & pump		756	"	"	.18
Core box material and labor	"	504	"	"	.12
Transportation and hauling	"	1.344	"	"	.32
Assays	"	420	"	"	.10
Geologist Engneer 1½ months	"	750	"	"	.18
Drill oporation labor cost	"	19.656	"	"	4.68
Water instalation moving piping and dozing for set up	"	2.394	"	"	.57
		31.500			7.50

The above is average per foot cost taking in consideration of drilling with a none -coring bit to the limestone The Slate sometime gives us trouble, caves, sand pockets which requier reaming and cassing to the limestones,

7.

(a) yes

(b) By personaly operating drill use of my equipment and providing necessary money.

Metaline Falls, Washington
November 16, 1957

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Mr. Phillip La Sota , President
La Sota Jones Lead Zinc Corporation
Metaline Falls, Washington

FURTHER EXPLORATION, SLATE CREEK AREA

Upon completion of the D.M.E.A. Contract No. 4090 which consisted of 1500 ft. of diamond drilling on the 4th of July claim, I believe that application should be made to the D.M.E.A. to drill the possible extension of the ore outcrop on the Jennie Dee No. 1 claim. The Jennie Dee outcrop is more characteristic of the typical "Josephine" ore which is now being mined extensively in both the Pend Oreille and the Grandview mines.

The "Josephine" type ore is recognized geologically to occur in the upper portion of the Metaline limestone directly underlying the contact with the Ledbetter slate. It is also known to be very widespread blanket-like occurrence. Parts or all of the following claims have Ledbetter slate cover underneath which possible ore exists:

Jennie Dee 1, 3, 4, 5, and 6; Snowshoe and Snowshoe No. 2; Last Chance, Last Chance No. 2 and No. 3

At least three holes should be drilled to search for the "Josephine" horizon underlying the shale at the locations indicated on the accompanying sketch. Each of these holes may be approximately 1000 ft. deep, and may be drilled with a non-coring bit to the limestone contact after which the holes would be cored.

Besides the holes drilled through the Ledbetter slate, the ore

Further Exploration

outcrop on the Jennie Dee No. 1 claim should be further explored by drilling at least two flat holes toward the northwest for a depth of 300 ft. into the outcrop. These holes could be drilled from the same set-up and about 30° apart. At least two holes should be drilled at 60° from the horizontal in the same directions. as the two horizontal holes. This program would serve to determine the extent of the mineralization in this outcrop.

A summary of costs of this program is as follows:

3 non-core holes through the Ledbetter slate to limestone, then coring the limestone 3000 ft. @ $7.50	$22,500
4 core holes in outcrop, 1200 ft. @$7.50	$ 9,000
	$31,500

This program is highly recommended in that the "Josephine" horizon is the most highly mineralized of any of the recognized horizons in the Metaline mining district and its existence in the area of your claims is indicated by the cherty nature of the Jennie Dee outcrop. The depth to the slate-limestone contact is probably less than 1000 ft. and the amount of drilling will probably be less than that indicated above.

Respectfully submitted

Roy A Anderson

Roy A. Anderson
Geologist

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Report of Reconnaissance Geology at
LaSota-Jones Mining Claims.

Letter of Transmittal

Mr. Lynn M. Kinney, General Superintendent
Pend Oreille Mines and Metals Company
Metaline Falls, Washington.

Dear Mr. Kinney

The attached report is a summary of the results of a geological reconnaissance of the LaSota-Jones Mining Claims. Included in the report are recommendations which, if carried out, should result in sufficient additional information to better determine the true merit of the property.

Respectfully submitted,

Robert H. Stebbins,
Chief Geologist.

August 29, 1952.

Date of investigation, August 1952
Field Party, John J. Fritts and Robert H. Stebbins.
Location of Property,- Parts of Sec. 14, 15, 22, 23, T 40 N, R 44 EWM in Slate Creek Mining District Pend Oreille County, Washington.
Number of Claims 33.

Description of Property,-
Access - The property may be reached by following Washington State Highway 6 north from Metaline Falls to the Slate Creek road. Follow the Slate Creek road to a point approximately two miles beyond Styx Creek. At this point follow a road which leads southwest to the discovery outcrop. (See Fig 1 and geologic map.)

Surface Features - Most of the property straddles the ridge which forms the south side of Slate Creek Mountain. The remainder extends down into the deep valley formed by Slate Creek. The property includes scattered timber on the ridge and heavy timber in the valley. A diamond drill hole, located half way up the ridge, is running water at the rate of approximately 20 gallons per minute. Slate Creek has abundant water the year round with adequate head available for power purposes. There are no surface improvements other than two roads, one of which is a rough jeep road.

Geology- It must be stated that on the basis of the limited mapping two possible interpretations seem most probable. Of the two, the writer prefers the interpretation which included the Lead Hill fault, but two sets of sections are presented, each set representing one interpretation.

In essence, the difference between the two interpretations may be summarized as relatively flat dipping sediments cut by a fault versus relatively steep dipping sediments not cut by a fault. Also, considerable weight has been put on the lack of argillite float and the abundance

of dolomite float immediately west of Slate Creek. It is from this observation that the projected attitude of the buried sediments in the east part of the map area was determined and incorporated into the fault interpretation picture. The other interpretation disregards these observations.

RECOMMENDATIONS

1. That at least two diamond drill holes be drilled at the proposed locations to prove or disprove ore and the geologic interpretation based on the reconnaissance mapping (See Plates 11, 111, V, 1V and geologic map).

2. That additional reconnaissance mapping should not be done, but that additional detailed mapping with plane table and telescopic alidade would be beneficial in establishing a truer structural picture.

COST- On the basis of the fault interpretation, two holes, No.1 400 feet deep. No.2, 350 deep, totalling 750 feet at $5.00 per foot, would cost $3,750. On the basis of the steep dip interpretation, two holes, No.1 750 feet deep, No.2 700 feet deep, totalling 1,450 at $5. per foot would cost $7,250.

DESCRIPTION. A total of four days were spent at the property. The time was divided equally between reconnaissance geologic mapping land brunton and tape surveys to establish limited control.

Three rock formations were recognized, they being Ledbetter Slate, Josephine dolomite and gray massive limestone. This nomenclature is taken from the Pend Oreille mine where similar units are recognized and represent the hangingwall, ore zone and footwall respectively.

The lithology of these units at the LaSota-Jones Property is as follows.- Ledbetter slate is a black, fine grained, pyritic argelite with well-defined cleavage. This formation also includes a dark, blue-gray, medium grained, jointed quartzite composed of rounded quartz grains cemented with silica.

The Josephine varies from a gray, fine to medium grained siliceous massive dolomite with abundant dark quartz stringers throughout at the mineralized discovery outcrop to a creamy-gray, medium grained recrystallized massive dolomite often siliceous and containing chert nodules most everywhere else.

The Gray Massive Limestone is a light to medium gray, lithographic, massive limestone with masses of coarsely crystalline calcite abundant at the dolomite contact.

Because there is a sharp break in the lithology at LaSota-Jones discovery outcrop, a fault was hypethesized. (See geologic map and plates 1, 11, 111.) This theory was substantiated considerably upon referring to the United States Geological Survey's "open file" report of the Lead Hill area in which diamond drilling intersected a fault

with a strike similar to that hypothesized at LaSota-Jones property. (See Plate Vll and geologic map). The U S G S nomenclature is used and the fault is called the Lead Hill Fault. It is estimated to have approximately 200 feet displacement on it at the discovery outcrop. Also the alternation from dolomite to shale in diamond drill hole No. 3 is additional substantiation of fault. (See Plate X).

The topographic high of the ridge on the property appears to be formed by a northerly plunging anticline (See geologic Map). The Gray Massive Limestone could not be found along the jeep road which winds up onto the ridge top, while the creamy-gray dolomite float was found in abundance. It is for this reason the anticline is thought to be plunging northward at a shallow angle. Gray Massive Lime and Josephine were traced southward along the ridge with aerial distribution as shown on the gologic map.

On the flanks of the anticline are exposed Ledbetter and Josephine type rocks. The hypothesized projections of these rocks are shown in Plates 1, 11, 111. At the east side of the map area abundant dolomite float was found directly west of Slate Creek. Argillite float was found farther west on the east side of the Slate Creek road. Argillite outcropped on the east side of Slate Creek. It is because of these observations the interpretation of relatively flat lying sediments cut by erosions east of the road and a fault in Slate Creek is made.

Ore mineralized rock was noted at two places on the property. The better showing occurs at the discovery outcrop where two channel samples across the face gave assays of 5% + and 7% + lead and no zinc. The other occurance was at an old Bunker Hill and Sullivan diamond drill setup on the west flank of the ridge. A chip sample ran 1.70% lead and 1.70% zinc.

A piece of steel galena float was found on the west bank which assayed 74.6% lead and 0.40% zinc, but no effort was made to trace the float farther.

Diamond drilling was done by the property owers at the discovery outcrop. The core from these holes was logged by John J. Fritts and is listed in Plates Vlll, lX and X. A fourth hole is being drilled at the present time and shows lower Josephine dolomite down to 65 feet.

The tonnage estimated based on a 10 foot thickness of mineralized zone along a strike of 3,000 feet over a width of 1200 feet would be 3,600,000 tons.

Diamond Drill Hole No. 1

Dip 34

0 10 Josephine SILICIFIED DOLOMITE
Very high SiO_2, remnant light gray, medium-grained dolomite, cut by fine black stringers of dark material 8-10-decreasing SiO_2

10 34 Josephine SILICEOUS DOLOMITE
Medium to light gray, medium grained.
Paligorshite-filled fractures are abundant.
@ 20½-3" shale inclusion.
21-24-Sampled by R. C. Wilmot
(Pb and runs in core box)
24-34-Banding in dolomite.
Creamy medium to fine-grained dolomite alternating with darker gray, fine-grained siliceous material.

The End.

Diamond Drill Hole No. 2

Dip 41

0 25 Josephine CHERT AND SILICEOUS DOLOMITE
Where cherty, fine-grained, dark gray. Dolomite is light gray, medium grained. Frequent fractures filled with paligorshite.
21½-22½ Coarse white calcite @ 22½. Trace Zn in dark gray to black, highly siliceous rock.

25 161 Josephine SILICEOUS DOLOMITE
Light gray to creamy, fine to coarse-grained. Low degree of silicifidation. Occasionally fractured, with apparently introduced dark dolomitic material. Otherwise quite homogeneous.
@ 62 - banding in fine-grained dark gray dolomite at 45° to core axis - minor pyrite.

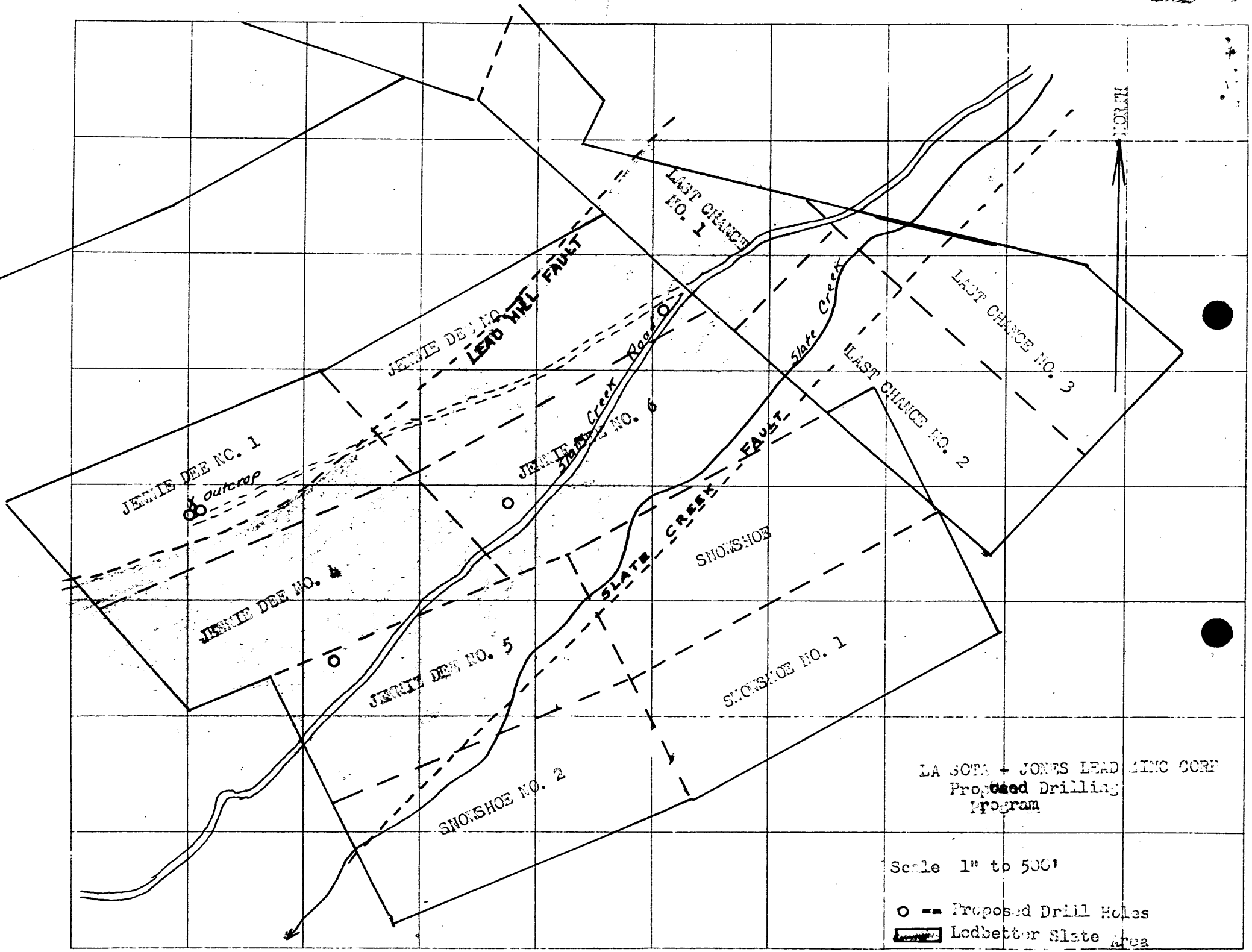
Distinct zones of light reddish brown fine-grained material in calcite vein @ 57, and in dolomite @ 64, 73 and 84.
101 - 100 Breviation zone - dark gray, fine-grained matrix containing angular fragments of light gray, creamy dolomite.
@ 119½ - 6" zone of dolomite gouge with trace Pb
123-133 - small spots of fine-grained light gray, medium to coarse grained dolomite.
Several small angular fragments of black, fine-grained shale.

Diamond Drill Hole No. 3

Dip 43

0	5	Josephine	CHERT Dark gray, fine-grained.
5	11	Josephine	SILICEOUS DOLOMITE Medium gray medium grained with small calcite stringers. Several small gougey zones.
11	22	Ledbetter	SHALE Light gray to black, fine-grained, gray material is swirled and soft Black is harder, with well-defined shaley parting.
22	36	Josephine	SILICEOUS DOLOMITE Dark gray, fine to medium-grained with many paligorshite-filled fractures.
36	45	Ledbetter	SHALE Black, fine-grained, with well-defined shaley parting. Many fractures stained with Fe - oxides.
45	55	Josephine	SILICEOUS DOLOMITE Medium gray, medium-grained, with dark gray material in fractures.
55	60	Ledbetter	SHALE Light gray to black, fine-grained, as above.

28 August JJF



Nov. 16, 1957 RA.

"ALBANENE" NO. 1888 KALCO., N.Y. REG. U.S. PAT. OFF.
J. A. Gendron Co., Spokane

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

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4/30	[illegible]	130
4/30	C	220
5/2	[illegible]	500

April 25, 1958

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are three copies of a Field Team final report on this project.

The purpose of the project was to explore for lead and zinc ore by diamond drilling 6 holes totaling 1,641 feet in the vicinity of surface trenches. Work started in August and was completed in November 1957, at a total cost of $11,304.80 to which the Government contributed $5,652.40. The results were discouraging as none of the holes penetrated any ore-grade material.

It is recommended that no Certification of Discovery or Development be made and that no further Government funds be spent in the explored area.

By Field Team, Region I

A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew
Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USGS (SRO)
Albee

Reviewed by
DMEA OPERATING COMMITTEE
4-30-58
(date)

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DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD TEAM, REGION I

FINAL REPORT

Contract Idm-E991

Final Fld Tm Report

G. G. Waddell
Mining Engineer
U. S. Bureau of Mines

Howard F. Albee
Geologist
U. S. Geological Survey

LASOTA-JONES LEAD AND ZINC CORPORATION

Metaline Falls, Washington

Docket No.:	DMEA-4090
Commodity:	Lead-Zinc
Contract date:	August 13, 1956
Completion date:	November 1957

LASOTA-JONES PROPERTY
Slate Creek Area
Metaline Mining District
Pend Oreille County, Washington

Reviewed by
DMEA OPERATING COMMITTEE
4-30-58
(date)

Spokane, Washington

April 1958

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(In pocket)

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FINAL REPORT

LASOTA-JONES LEAD AND ZINC CORPORATION
LaSota-Jones Property
Slate Creek Area
Metaline Mining District
Pend Oreille County, Washington

Contract Idm-E991

* * * *

INTRODUCTION

This report describes an exploration project conducted jointly by the LaSota-Jones Lead and Zinc Corporation and the Defense Minerals Exploration Administration to explore for zinc and lead ores at the LaSota-Jones property, Pend Oreille County, Washington.

The property was examined on May 31 and June 1, 1956, by E. W. Parsons, U. S. Bureau of Mines, and James J. Quinlan, U. S. Geological Survey. A modified exploration program was recommended and Exploration Project Contract No. Idm-E991 was entered into on August 13, 1956. The estimated total cost of the project was $11,310 with the Government's participation at 50 percent to be $5,655.

Summary

The purpose of the project was to explore the favorable showings of lead and zinc on the Silver Moon, Silvia, June Bug, and 4th of July claims, for which 12 unpatented claims were subordinated. Five diamond drill holes not to exceed a total of 1,500 feet were authorized. A sixth drill hole was authorized later to test for an extension of lead and zinc down dip of the strata from the two best previously drilled holes. Core from DDH's 1 and 2 contained the best showings of mineral and DDH 6 therefore was drilled to test the strata down dip from these two holes. A total of 1,641 feet were drilled with the Operator drilling 141 feet at his own expense.

The results of drilling were not encouraging. Only one of the drill cores showed more than a trace of lead and cores from only 2 holes showed more than 1 percent zinc. DDH 1 cut 10 feet of material that averaged 1.39 percent zinc including 1.09 percent of oxidized zinc. DDH 2 cut 5 feet of material that assayed 1.25 percent zinc including 1.13 percent of oxidized zinc. These thicknesses of zinc-bearing core are approximately down dip from outcrops that average 7.18 percent combined lead and zinc over an average width of 7.47 feet. The drilling showed that the ore in the outcrop does not continue to depth. The total cost of the project was $11,304.80 and the Government's share, $5,652.40.

Recommendations

A Certification of Discovery or Development is not recommended as no extensions of ore nor new discoveries were made. Further exploration with Government funds is not recommended.

LOCATION AND ACCESSIBILITY

The LaSota-Jones property lies about 10 miles northeast of Metaline Falls, Washington, in the Upper Slate Creek area of the Metaline Mining District (fig. 1). The claims are in parts of secs. 11, 14, 15, 22, and 23, T. 40 N., R. 44 E. Willamette meridian, Pend Oreille County, Washington.

A road log to the property, beginning at Metaline Falls, reads: north on Washington State Highway No. 6 for 7.4 miles to a point 0.2 of a mile beyond the Slate Creek bridge, turn right on the Slate Creek road and travel about 7 miles, keeping on the road along the creek for about 5 miles then take the left fork that climbs rapidly above the creek. At about 7 miles turn sharp left, similar to a switchback (the main road continues straight ahead), and follow this road a short distance to the property. The snowfall is heavy and the road is not kept open in the winter.

The area is typically mountainous, though not precipitous and the slopes are brushy and largely covered by timber. Altitude at the property ranges from 4,000 to 5,000 feet.

PROPERTY

Mr. LaSota owns 32 unpatented quartz lode mining claims in the Upper Slate Creek area by right of location; however, only 12 of the group are subordinated to the DMEA contract. The notices of location of these claims are recorded in the courthouse of Pend Oreille County at Newport, Washington, as follows:

Claim	Book	Page
June Bug	1	287
Silver Star	3	104
Milwaukee	3	287
Grub Stake No. 1	3	258
Grub Stake No. 2	3	259
Grub Stake No. 3	3	260
Silvia	1	258
Silver Moon	1	259
Iron Cap	1	260
Iron Cap Fraction	1	286
Firecracker	1	254
4th of July	3	102

History

The deposits of the Upper Slate Creek area have been known for many years, but little interest was shown in them until the early 1930's. The Bunker Hill Company of Kellogg, Idaho, undertook a moderate size exploration and development program at the Lead Hill property in 1931 and 1932, but no ore was produced as a result of this program.

Mr. LaSota, the Operator, became interested in the Upper Slate area in the early 1930's and it was at that time he located the first claims which now are a part of the LaSota-Jones property.

There are no buildings or underground workings on the property. Work prior to the DMEA contract consisted of digging pits and trenches and diamond drilling about 1,100 feet of holes to test favorable outcrops. In all, eight diamond drill holes have been drilled -- seven on the Jennie Dee No. 1 claim and one on the June Bug claim (pl. 1).

GEOLOGY

Regional Geology

The geology of the Metaline district is described by C. F. Park, Jr., and R. S. Cannon, Jr., in U. S. Geological Survey Professional Paper 202, Geology and Ore Deposits of the Metaline Quadrangle, Washington, 1953.

Precambrian rocks crop out over a large area in the east-central part of the quadrangle. The rocks include the complex Priest River group, unconformably overlain by about 5,000 feet of conglomerate and about 5,000 feet of volcanics. Immediately overlying the Precambrian rocks is 20,000 feet of early Paleozoic rocks that include schist, pebbly sandstone, limestone, quartzite, phyllite, dolomite, and slate.

The complex structure of the rocks has a prevailing northeastward trend. Folding, which passed into low-angle faulting, was the earliest recognized deformation. This was followed by steeply dipping northeastward-striking thrust and normal faults and later by northwestward-trending normal faults that may have been caused by intrusive forces.

Three principal types of ore deposits are recognized: (1) replacement deposits in carbonate rocks; (2) replacement deposits in igneous metamorphic rocks; and (3) lodes, mined chiefly for silver.

The principal replacement deposits are in the dolomitic Metaline limestone of Cambrian age in the Pend Oreille and tributary valleys and are the only type of deposit of interest to this report. The ores mostly are in the hanging-wall blocks of large normal faults. The replacement ore deposits are generally along minor breaks and in crackle breccia zones. So far as is known, ore of this type is confined to the upper part of the Metaline limestone, less than 500 feet below the overlying Ledbetter slate of Ordovician age. Sphalerite and galena are the common ore minerals. Oxidation of the ore is shallow and in many places sulfides are on or within a few feet of the surface.

Local Geology

The area of the LaSota-Jones property and the neighboring Lead Hill property has been mapped as part of a project by the U. S. Geological Survey and the map has been released as Washington Open File No. 20 (M. G. Dings, V. E. Nelson, Irving Gladstone, and Adolph Pabst: Geologic map of parts of the Metaline and Slate Creek districts, Pend Oreille County, Washington, 1953). Plate 2 has been adapted from the open-file map and shows the geology of the Operator's property.

The property is on a wide exposure of carbonate rocks and slate that lies between Slate Creek and the Pend Oreille River. Considered as a unit, this area is a faulted anticline of Metaline dolomite that plunges southwestward. The dolomite is overlain by a strongly sheared and contorted band of Ledbetter slate along the west side of the Slate Creek fault (pl. 2).

The known ore occurrences at the Lead Hill and LaSota-Jones properties are in the dolomitic rocks of the upper part of the Metaline limestone in the upthrown (northwest) block of the Lead Hill fault (pl. 2). The Lead Hill fault strikes about N. 45° E. and dips 80° SE. The Ledbetter slate crops out on the southeast side of the fault and the reported minimum vertical displacement on the fault is over 2,000 feet. The fault is thus the southeastern boundary of the area in which drilling for the replacement ore deposits in the Metaline limestone is practicable.

Dings and others distinguish two types of altered dolomitic rock associated with the replacement-type ore deposits: one is a strongly silicified jasperoidal dolomite, the other is a medium- to dark-gray dolomite. Plate 2 shows that much of the Metaline limestone in the vicinity of the Lead Hill and LaSota-Jones properties is of these types. The dolomitization is not as widespread on the LaSota-Jones property as it is at the Lead Hill property and the LaSota-Jones property may be considred as being on the margin of the large dolomitized area that contains the Lead Hill deposit.

There are only two known areas on the LaSota-Jones property in which lead-zinc showings crop out; these are designated as Areas A and B on plate 2.

In Area A lenses of galena and sphalerite occur in dark-gray strongly silicified dolomitic rocks. The silicification is of limited extent. The unsilicified dolomitic rocks are widespread and are similar to the gray dolomite in which ore deposits are found elsewhere in the district. The ore lenses in the outcrop of silicified dolomitic rock are small, erratic, and not numerous. The lenses appear to be controlled by small fractures of random orientation.

A sample 2.7 feet long across the largest and best lens, 2.7 by 9 feet, assayed 0.3 ounce of silver; 11.7 percent lead, which includes 2.9 percent oxidized lead; and 1.0 percent zinc, which includes 0.6 percent oxidized zinc. LaSota-Jones has drilled seven diamond drill holes in the outcrop. Two of the holes encountered lead and zinc minerals; however, the showings in these two holes were insignificant.

No work under the contract was done in Area A, partly because of the apparent lack of lead and zinc minerals at depth and partly because of the limited area favorable for ore deposits on this part of the property.

In Area B disseminated lead and zinc minerals are found in a number of outcrops and trenches for a distance of about 250 feet along the strike of a thick, gray dolomite unit. On the basis of available information it is difficult to determine if the ore deposit is a tabular body or a series of lenses; however, from the discouraging results obtained from drilling, the mineral-bearing outcrops may represent the lower part of an eroded ore deposit.

Seven samples were taken during the initial examination of Area B. The sample locations are shown on plate 3 and tabulated below.

Sample No.	Width (feet)	Silver oz./t.	Lead %	Oxidized lead %	Zinc %	Oxidized zinc %
L-1 (FW of outcrop)	8.4	0.1	0.7	0.3	5.73	5.56
L-1a (HW of outcrop)	8.4	0.02	0.5	0.25	4.93	4.15
L-2 (FW of outcrop)	5.6	0.05	0.4	0.15	5.94	5.11
L-2a (Center zone)	7.6	0.05	0.4	0.25	10.67	10.09
L-2b (HW of outcrop)	9.5	0.1	0.7	0.3	5.94	5.48
L-3	4.2	0.1	2.3	1.6	6.04	5.28
L-4	10.0	0.1	2.2	1.5	4.53	4.0

The location of drill holes behind the sampled outcrops are shown on plate 3. DDH's 1 through 5 were drilled first, then DDH 6 was drilled about 240 feet southeast of DDH's 1 and 2. DDH 6 was drilled to penetrate, down dip and below the zone of oxidation, the mineral-bearing beds found in DDH's 1 and 2. Following is a tabulation showing the results of drill core assays:

Drill Hole	Depth (feet)	Intercept (feet)	Lead %	Oxidized lead %	Zinc %	Oxidized zinc %	Silver oz./t.
1	204	103-108	Tr	--	0.18	--	Tr
		108-113	0.19	--	0.65	--	Tr
		113-118	0.49	0.28	0.70	--	Tr
		118-123	0.05	--	1.48	1.28	Tr
		123-128	Tr	--	1.30	0.90	Tr
2	243	62-67	--	--	0.50	--	Tr
		78-81	--	--	--	--	Tr
		90-95	Tr	--	0.28	--	Tr
		95-100	Tr	--	1.25	1.13	Tr
		100-105	Tr	--	0.65	--	Tr
		105-110	0.07	--	Tr	--	Tr
		110-115	Tr	--	Tr	--	Tr
		115-120	Tr	--	Tr	--	Tr
3	303	-	--	--	--	--	--
4	304	-	--	--	--	--	--
5	202	-	Tr	--	Tr	--	Tr
6	385	-	--	--	--	--	--

Core recovery was 90 percent or better and was sufficient to give a representative sample of the mineral-bearing parts of the core. The core from DDH's 1, 2, and 5 consisted largely of pink to gray, highly fractured dolomitic limestone; from DDH's 3 and 4 it consisted mostly of light- to dark-gray dolomitic limestone, and from DDH 6 the core was largely cream-colored dolomitic limestone. Core from each hole contained gouge and breccia zones and some thin partings of shale.

THE PROJECT

The applicant's original proposal called for the drilling of 3 or 4 inclined diamond drill holes totaling 750 feet on the Jennie Dee No. 1 claim (Area A, pl. 2) and 4 or 5 holes totaling 1,250 feet on the June Bug claim (Area B, pl. 2) at an estimated total cost of $15,000.

It was the DMEA field examiners' opinion that the ore showings in Area A were small, erratic, and not impressive. Also, the extent of dolomitic rocks favorable for replacement ore bodies within the applicant's claims in Area A is limited. Previous drilling by the applicant in this area has proved discouraging.

The ore outcropping in the "B" zone of the LaSota-Jones property occurs as a replacement in the dolomite of the Upper Metaline Limestone Series. In the Metaline District the major ore occurrences have all been confined to this horizon. Mapping and sampling indicated the possibility of a significant zinc-lead deposit which warranted the limited drilling project proposed by the applicant. The purpose of the drilling was to intersect the down-dip projection of the beds containing ore at the outcrops.

A modified program was recommended which called for 5 vertical drill holes (EX core or larger) to be drilled to a depth of 200-300 feet. The total drilling footage was not to exceed 1,500 feet. All of the drilling was proposed for the "B" area. The estimated cost was $11,310, of which the Government was to participate at the rate of 50 percent or $5,655.

The effective date of the contract was August 13, 1956, and the completion date was November 13, 1956.

There were three amendments to the contract. Amendment No. 1, dated December 12, 1956, recessed the work during the period beginning November 1, 1956, and ending not later than June 1, 1957. The period for completion of the work was extended from 3 months from the date of the contract to 15 months and the maximum period for the payment of the Government's royalty was extended from 10 to 11 years.

Amendment No. 2, dated January 18, 1957, changed the method of claiming reimbursement for chemical analysis.

Amendment No. 3, dated October 25, 1957, approved the drilling of a sixth diamond drill hole without increasing the total footage of the contract. Also, the completion date of the contract was extended to May 13, 1958, and the period for royalty payments was extended from 11 to 12 years.

The Operator completed six holes as prescribed by the contract and amendments. The total footage drilled was 1,641 feet, of which 1,500 feet was under the terms of the DMEA contract.

DDH 1 cut a 25-foot wide mineralized zone 100 feet below the outcrop. However, the best assay across 10 feet was 1.39 percent zinc. DDH 2 cut a 15-foot wide mineralized zone 50 feet below the outcrop. The best core assay was 1.25 percent zinc over a width of 5 feet. DDH's 3, 4, and 5 were designed to extend the mineralized zone laterally, but only an insignificant amount of mineralization was encountered. DDH 6 was drilled to intercept the structures indicated in DDH's 1 and 2 at a depth of about 350 feet. No trace of mineralization was found in this hole.

There are not enough exposures on the surface nor holes cutting the mineralized zone at depth to estimate an ore reserve. The best that could be inferred is a few thousand tons of subore-grade material.

Summary of Factual Data

Fixed unit costs were used for all contract work. The work items authorized and completed were:

	Units authorized	Units completed	Unit cost	Total
Diamond drilling, AX and EX (includes all costs incidental to drilling)	1,500 ft.	1,641 ft.	$ 7.06/ft.	$10,590.00
Engineer-geologist	1 mo.	1 mo.	500.00/mo.	500.00
Chemical determinations	366 ea.	358 ea.	0.60 ea.	214.80
Total cost				$11,304.80

Total amount of contract	$11,310.00
Government's share at 50 percent	5,655.00
Total contract amount expended	$11,304.80
Government participation	5,652.40
Total amount unexpended	$ 5.20
Government's share unexpended	2.60
Royalty received to date	none

No equipment, materials, or supplies were purchased with Government participation and there was no production during the term of the contract.

Operator's Costs

The Operator did his own drilling and either had his wife as a helper or hired a man part time. The actual time the Operator spent drilling is unknown because he had irregular work days. Mr. LaSota was satisfied with the amount allowed for the drilling and the progress was satisfactory.

Mr. LaSota submitted his costs for 1,641 feet of diamond drilling in his final report. The breakdown is as follows:

	Total cost	Unit cost/ft.
Labor		
Drilling (driller and helper)	$6,869.81	
Moving and setting up - 2 men	864.00	
Water haulage - 1 man	700.00	
	$8,433.81	$5.14
Overhead		
Administrative	$ 150.00	
F.I.C.A.	165.18	
Empl. Sec. Dept.	202.51	
Ind. Ins. and Med.	357.21	
	$ 874.90	$0.53
Materials and Supplies		
Gas and oil for drill and pump	$ 255.00	$0.15
Diamond bit wear and repl.	540.00	0.33
Core box material	180.00	0.11
Replacements and lost barrel and rods	270.00	0.165
Replacements and repair drill and pump	270.00	0.165
Gas, oil and truckwear for water haul	180.00	0.11
	$1,695.00	$1.03
Miscellaneous		
Transportation (to and from work)	$ 480.00	$0.29
Engineer-geologist	500.00	0.31
Assays	214.80	0.13
	$1,194.80	$0.73

Total cost of drilling 1,641 feet $12,198.51

Cost/ft. - everything included $ 7.43

Discussion of Project

Many drilling difficulties were encountered in the project. The costs above include the cost of losing one hole, but the lost footage was not included in the total footage. Water was hauled from the Jennie Dee No. 1 claim about 1 mile away. Practically all of the Operator's drilling was done with size EX core. It probably would have been possible to make longer runs had the core been AX or BX size. However, as a result of careful drilling over 90 percent core recovery was obtained. Sludge samples were taken at regular intervals which permitted assays to be taken even where the core was lost. The Operator carried out the prescribed work in a businesslike manner and was very cooperative with the Government representatives.

No new geologic guides to ore targets were discovered. The geologic setting was typical for a replacement ore body for the Metaline Mining District. The outcrop apparently represents the lower part of an ore body that has largely been eroded. It was the purpose of the exploration contract to determine the grade and extent of mineralization and this was accomplished. The drilling showed that ore-grade mineralization is extremely shallow.

Enclosures
Distribution:
DMEA(3)
USBM(5)
USGS(SRO)
Docket
Albee

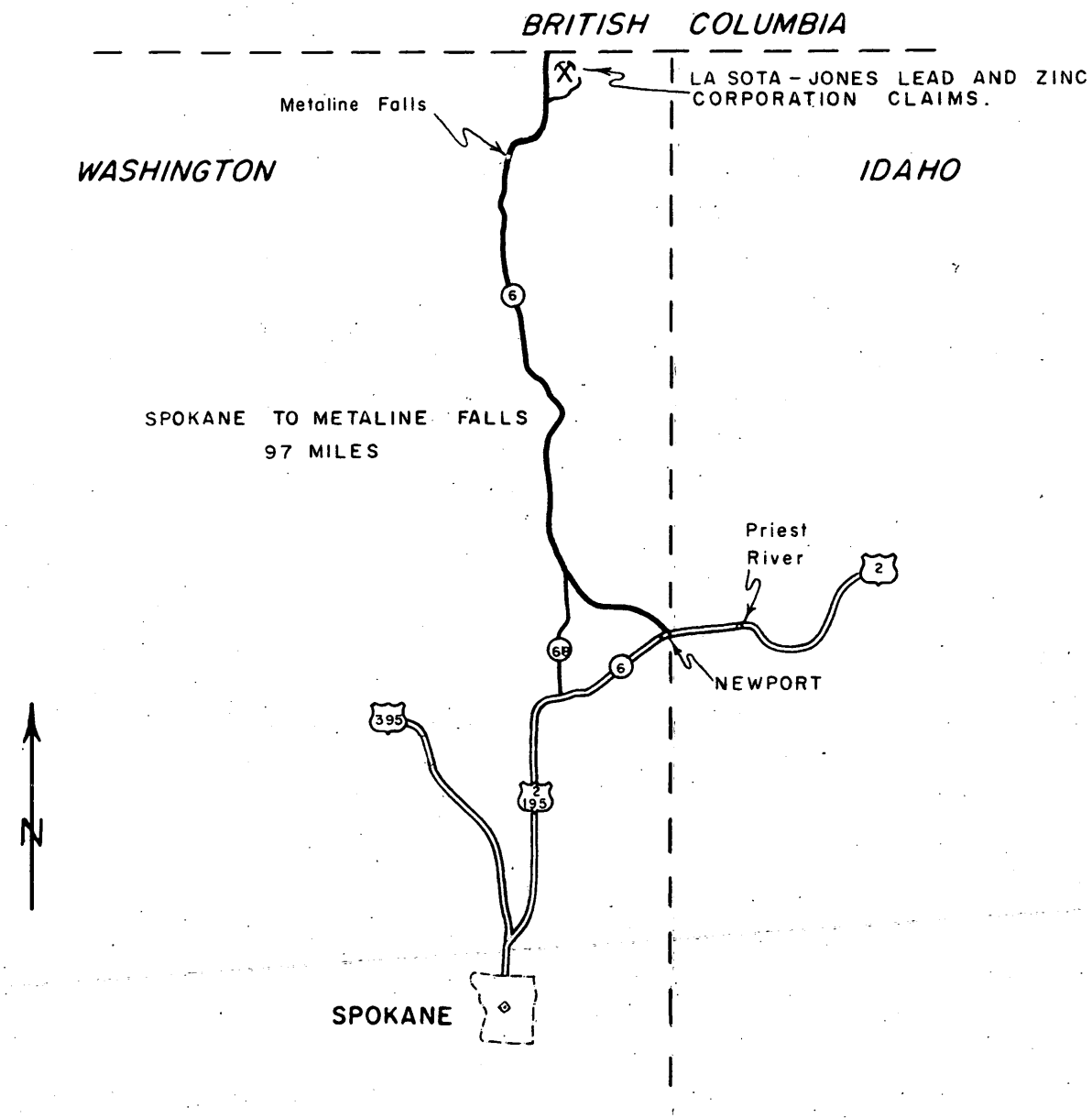

Figure I. Location Map, La Sota-Jones Lead and Zinc Corporation Claims
PEND OREILLE COUNTY, WASHINGTON

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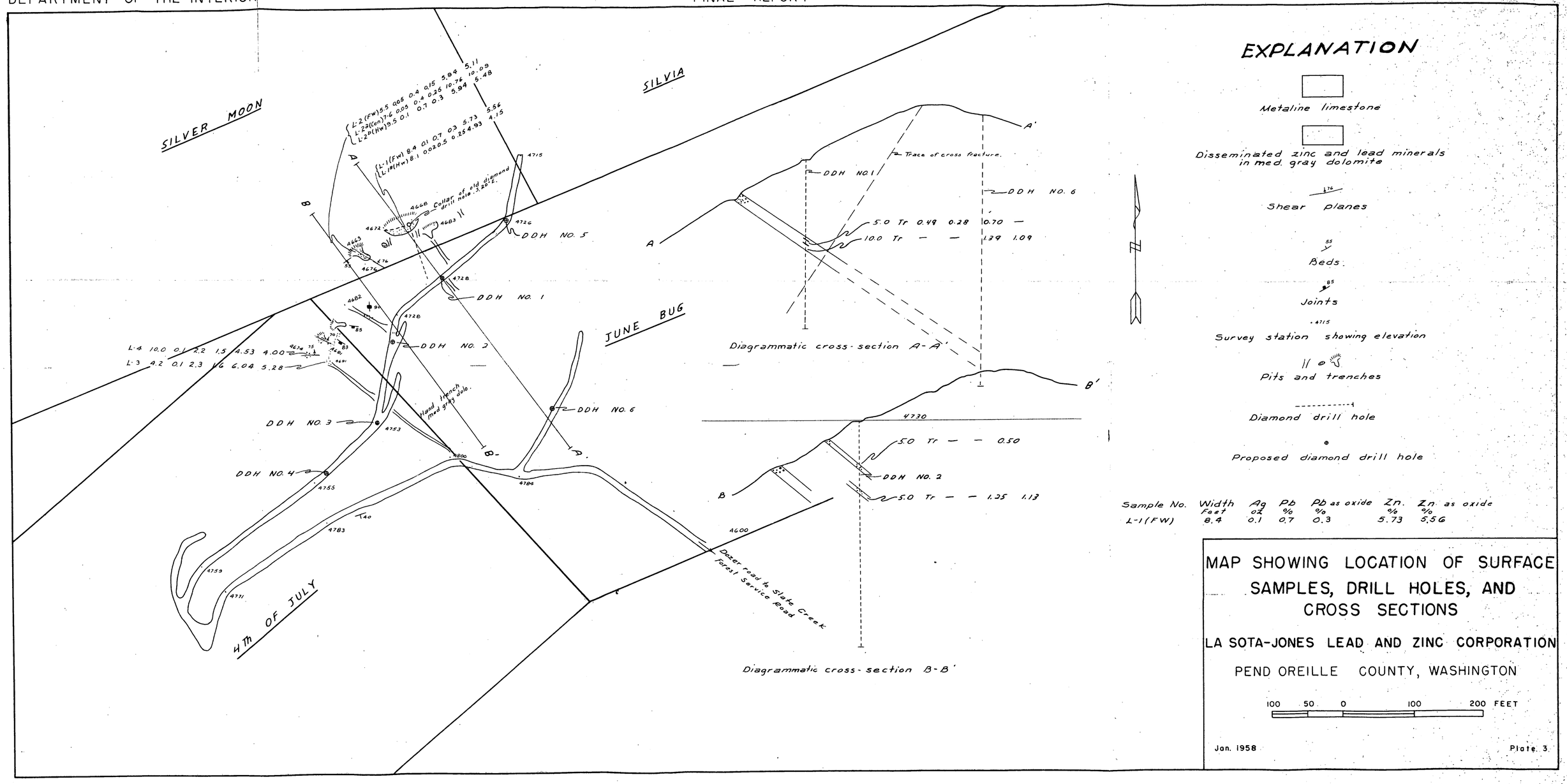
DMEA
RECEIVED APR 28 1958

DATE	INITIAL	CODE


SILVER MOON
SILVIA
JUNE BUG
4TH OF JULY
L-2 (FW) 5.5 0.05 0.4 0.15 5.94 5.11
L-2a (Cen) 7.6 0.05 0.4 0.25 10.75 10.09
L-2b (HW) 5.5 0.1 0.1 0.3 5.94 5.48
L-1 (FW) 8.4 0.1 0.7 0.3 5.73 5.56
L-1a (HW) 8.1 0.02 0.5 0.25 4.93 4.15
Collar of old diamond drill hole 5.25' E.
DDH NO. 5
DDH NO. 1
DDH NO. 2
DDH NO. 3
DDH NO. 4
DDH NO. 6
L-4 10.0 0.1 2.2 1.5 4.53 4.00
L-3 4.2 0.1 2.3 1.6 6.04 5.28
Hand trench med gray dolo.
Dozer road to Slate Creek Forest Service Road
Trace of cross fracture.
DDH NO. 1
DDH NO. 6
5.0 Tr 0.49 0.28 0.70 —
10.0 Tr — — 1.39 1.09
Diagrammatic cross-section A-A'
4730
5.0 Tr — — 0.50
DDH NO. 2
5.0 Tr — — 1.35 1.13
Diagrammatic cross-section B-B'
EXPLANATION
Metaline limestone
Disseminated zinc and lead minerals in med. gray dolomite
Shear planes
Beds
Joints
Survey station showing elevation
Pits and trenches
Diamond drill hole
Proposed diamond drill hole
Sample No. Width Feet Ag oz Pb % Pb as oxide % Zn % Zn as oxide %
L-1 (FW) 8.4 0.1 0.7 0.3 5.73 5.56
MAP SHOWING LOCATION OF SURFACE SAMPLES, DRILL HOLES, AND CROSS SECTIONS
LA SOTA-JONES LEAD AND ZINC CORPORATION
PEND OREILLE COUNTY, WASHINGTON
100 50 0 100 200 FEET
Jan. 1958
Plate 3

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RECEIVED APR 28 1958

DATE	INITIAL	CODE

Maps of the
Feral Field Team
Report - dated
april 1958

ORIGINAL FILE OF DMEA
RECEIVED MAR 17 1958
DATE | INITIALS | AMOUNT
3/17 | C | 220
3/18 | [illegible] | 800
3/18 | [illegible] | 500

So. 157 Howard Street
Spokane 4, Washington

March 13, 1958

LaSota-Jones Lead and Zinc Corporation
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-3991

Gentlemen:

Enclosed for your information and files is a copy of the Report of Review dated February 20, 1958, by C. A. Turner, DMEA Auditor. This Report of Review covers the period of September 1956 to November 1957, inclusive.

This report shows a balance due the LaSota-Jones Lead and Zinc Corporation as $150. This money was scheduled for release March 5, 1958, and you no doubt have received payment by now.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region 1

Enclosure

cc: DMEA (3)
USBM (2)
USBM (AD)
Turner

1201 N. Division St.
Spokane 2, Washington

March 4, 1958

3/10 C 220
3/10 400 800
3/10 ~~to pb 500~~

Mrs. Dorothy Long, Certifying Officer
DMEA Field Team, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-4090 (lead-zinc)
LaSota-Jones Lead-Zinc Corporation
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mrs. Long:

The project work under the referenced contract was completed in November 1957. All the work performed was done to the satisfaction of the Government.

The Government has no equity in equipment or supplies used on the project.

A Certification of Discovery or Development will not be recommended.

A final Report of Review dated February 20, 1958 by DMEA Auditor C. A. Turner has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region I

cc: DMEA (2)
USGS (2)

Standard Form No. 1034—Revised
Form prescribed by
Comptroller General, U.S.
September 7, 1950
(Gen. Reg. No. 51, Supp. No. 11)

U.S. MAR 10 1958

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. .....

Bu. Vou. No. 2130

U.S. .....
(Department, bureau, or establishment)

Voucher prepared at Spokane, Washington 3/5/58
(Give place and date)

THE UNITED STATES, Dr., Payee's Account No Idm-E991

To LaSota-Jones Lead-Zinc Corporation
(Payee)

..... Metaline Falls Washington
(Address) (City) (State)

PAID BY

(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary) Discount Terms	QUANTITY	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
	November 1957	Amount withheld when paying Voucher No. 2078, dated December 2, 1957				150	00
		FINAL PAYMENT					
		Use continuation sheet(s) if necessary					

PAYMENT:
Complete ☐
Partial ☐
Final ☐

Shipped from to Weight Government B/L No. Total 150 00

I certify that the above bill is correct and just and that payment therefor has not been received.

(Sign original only)

Date ..... *Payee .....
(This certificate not required when a like certificate is made by payee on attached bill or bills)

Per ..... Title .....

(Payee must NOT use this space)

Differences .....

Account verified; correct for 150 00

(Signature or initials) A. L.

Contract No. Date Req. No. Date Invoice Rec'd.

Pursuant to authority vested in me, I certify that this account is correct and proper for payment.

† Approved for $ .....

By .....

Title .....

SIGN ORIGINAL ONLY

† .....
(Authorized Certifying Officer)

Title .....

Date .....

THE REVERSE OF THIS FORM MUST BE EXECUTED WHEN PURCHASES ARE MADE OR SERVICES SECURED WITHOUT WRITTEN AGREEMENT IN ANY FORM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n. or Proj't. Amount	Appropriation Amount

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT Symbol	COST ACCOUNT Amount	OBJECTIVE CLASSIFICATION Symbol	OBJECTIVE CLASSIFICATION Amount

Paid by { Check No. ..... dated ....., 19....., for $..... } on Treasurer of the United States in favor of payee named above.
{ Cash, $....., on ....., 19..... Payee .....
(Sign original only)

Per .....

Title .....

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign on the line below "Approved for $.....", and over his official title.

16—22900-3

METHOD OF OR ABSENCE OF ADVERTISING

METHOD OF ADVERTISING

1. Advertising in newspapers Yes ☐ No ☐
2. (*a*) Advertising by circular letters sent to ..... dealers.
   (*b*) And by notices posted in public places Yes ☐ No ☐.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made below.)

ABSENCE OF ADVERTISING

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

.....

.....

.....

.....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4).

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, as amended.)

16—22900-2 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950—O-75806

7

OFFICIAL FILE COPY

Date	Surname	Code
2-26	Chambers	800
2/27	C	220
2/27	wsp	500

FEB 27 1958

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: DMEA-2123, Idm-E228
Pacific Northwest Mining Co.

DMEA-4090, Idm-E991
LaSota-Jones Lead and Zinc Corp.

DMEA-4543, Idm-E1072
New Wellington Mines, Ltd.

Dear Mr. Turner:

Your Reports of Review covering the above-cited projects are acceptable. You are authorized to make normal distribution.

Sincerely yours,

Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/wb
February 26, 1958

Copy to: Docket (3)
Admr. Reading File
Mr. Chambers

8623

1201 N. Division St.
Spokane 2, Washington

February 11, 1958

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

Mr. G. A. Turner
DMEA Auditor, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-1090 (lead-zinc)
LaRoche-Jones Lead Zinc Corporation
Pend Oreille County, Washington
Contract No. Idm-2991

Dear Mr. Turner:

The project work under the referenced contract was completed in November 1957. All the work performed was done to the satisfaction of the Government.

A final inspection report on the completed work was submitted by G. G. Waddell on November 25, 1957.

The Operator's final engineering and geological report was received on February 7, 1958. It is considered as having met the requirements of Article 5(e) of the contract.

The Government has no equity in equipment or supplies used on the project.

The Field Team final report will not recommend a Certification of Discovery or Development.

Work units completed within the terms of the contract are:

	Authorized	Completed
Diamond drilling	1500 feet	1641 feet
Engineer-geologist	$900.00	$500.00
Assays (determinations)	366	358

It is now in order for you to issue your Report of Review.

By Field Team, Region I

Wing G. Agnew, Member
U. S. Bureau of Mines

A. R. Weinzenhorn, Exec. Officer
U. S. Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 17 1958

DATE		AMOUNT
2/18	C	220
2/20		800
2/20		500

Operators Final Rpt.

February 10, 1958

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
La-Sota-Jones Lead Zinc Corp.
La Sota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are the original and one copy of the Operator's final report dated January 27, 1958. This report is acceptable to the Field Team as of February 7, the date maps were received.

The Field Team final report now in preparation will not recommend that a Certification of Discovery or Development be issued.

By Field Team, Region I

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USBM (AD)
Albee
Turner

Metaline Falls, Wash.
Jan 27 1958

Re.Docket No DMEA-4090 Lead Zinc
La Sota-Jones Lead Zinc Corp
Pend Oreille County, Washington
Contract No E991

Defense Miniral Exploration Administration
South 157 Howard Street
Spokane, Wash.

Getlemen;

Report of Operation cost
La Sota-Jones Lead Zinc Corp

Drilling operation costs	$6869.81				
Moving and setting up cost	864.00				
Water haulage labor cost	700.00				
total labor cost		$8433.81	unit cost		$5.62
Administration	150.00				
F.I.C.A.	165.18				
Employment Security Dept	202.51				
Industrial Ins & med aid	357.21				
		874.90	"	"	.58
Gas and oil for drill & pump		255.00	"	"	.17
Diamond bit wear & replacement		540.00	"	"	.36
Core box material		180.00	"	"	.12
Replacement and loss barrel & rods		270.00	"	"	.18
Replacement & repair Drill & pump		270.00	"	"	.18
Gas oil & truck wear for water hauling		180.00	"	"	.12
Transportation cost to & from work		480.00	"	"	.32
Eng Geologist		500.00	"	"	.33
Assays		214.80	"	"	.14
Taxal cost		12,198.51	unit cost		8.12

La Sota-Jones Lead Zinc Corp

F. P. La Sota

F. P. La Sota Pres

RECEIVED
JAN 29 1958
U. S. G. S.
SPOKANE, WASH.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 17 1958

DATE		CODE

DMEA

Metaline Falls, Washington
January 27, 1958

Mr. F.P. La Sota
President
La Sota-Jones Lead Zinc Corporation
Metaline Falls, Washington

FINAL REPORT ON D.M.E.A. CONTRACT Idm - E991
DOCKET NO. 4090

The purpose of the project is to explore for ores of lead and zinc by diamond drilling. Six holes was to be drilled. The depth of each hole may vary from approximately 200 ft. to approximately 300 ft. The total footage of all drilling not to exceed 1,500 ft. The holes shall be drilled with coring bits and core recovering equipment of EX size or larger.

As requested, six holes were drilled at the approved locations which involved 1641 ft. of drilling of which 1500 ft. was applied to the above contract.

Following is a tabulation of the holes drilled with data on the mineralized sections:

Hole No. 1	25 ft. of mineralization from 103 to 128 ft. Sludge samples indicated and average of a trace of lead and 1.1% zinc. Core samples indicated an average of 0.15% lead and 0.86% zinc.	Depth 204 ft.
Hole No. 2	5 ft. of mineralization from 62 to 67 ft. and 15 ft. of mineralization from 90 to 105 ft. Core samples indicated values of no lead and 0.50% Zn from 62 to 67 ft. and a trace of Pb and 0.72% Zn from 90 to 105 ft.	Depth 243 ft.

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JAN 29 1958
U.S.G.S.
SPOKANE, WASH.

Hole No. 3	No mineralization	Depth 303 ft.
Hole No. 4	No mineralization	Depth 304 ft.
Hole No. 5	Traces of lead, zinc, and silver found from 8 to 13 ft., 38 to 43 ft., 88 to 93 ft., and from 158 to 163 ft.	Depth 202 ft.
Hole No. 6	No mineralization	Depth 385 ft.
	Total Drilled	1641 ft.

Due to the fact that no commercial mineralization was found by the present project, no ore reserves may be tabulated as a result of the drilling program.

Core from the drill holes consisted of broken gray to pinkish dolomite containing small amounts of brownish-yellow limonite and ocaasional thin layers of red shale. Visible mineralization consisted of a few small fragments of galena in Hole No. 2. Zinc values were represented by oxides and carbonates rather than sulfides as indicated by the assays. The lead-zinc mineralizationexposed in the outcrops to the northwest of the drill holes is apparently not continuous into the area drilled.

Drilling was commenced in early September of 1956 and was suspended on October 24th due to snow. During this time Hole No. 1 was finished to a depth of 204 ft., Hole No. 2 to 243 ft. and Hole No. 5 to a depth of 202 ft.

Drilling was resumed the following summer during which time Hole No. 3 was drilled to 303 ft., Hole No. 4 to 304 ft., and Hole No. 6 to a depth of 385 ft.

Difficulties were encountered during the drilling program in that it involved a difficult water haul from the Jennie Dee No. 1 claims about a mile away. Furthermore the broken nature of the ground caused water loss and made it nearly impossible to obtain full runs of core. However, as a result of careful drilling over 85% core recovery wasobtained.

Assay data, maps, and unit cost information is attached herewith.

Roy A. Anderson
Roy A. Anderson
GEOLOGIST

Assay Data -- D.M.E.A. Contract Idm - E991 Docket No. 4090

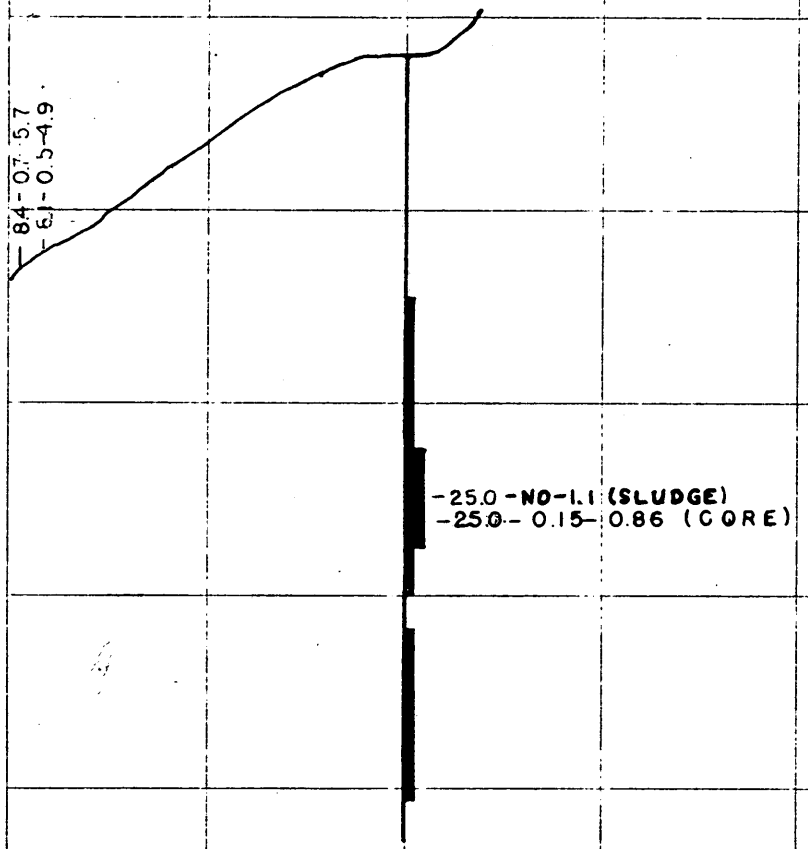
	Depths	% Pb	% Zn	% PbO	% ZnO	Ag
Hole No. 1 core						
	103-108	tr.	0.18			tr.
	108-113	0.19	0.65			tr.
	113-118	0.49	0.70	0.28		tr.
	118-123	0.05	1.48		1.28	tr.
	123-128	tr.	1.30		0.90	tr.
Hole No. 1 sludge						
	8- 13	no	tr.			
	13- 18	no	no			
	18- 23	no	no			
	23- 28	no	no			
	28- 33	no	no			
	33- 38	no	no			
	38- 43	no	no			
	43- 48	no	no			
	48- 53	no	no			
	53- 58	no	no			
	58- 63	no	no			
	63- 68	no	0.10			
	68- 73	no	tr.			
	73- 78	no	tr.			
	78- 83	no	tr.			
	83- 88	no	0.05			
	88- 93	no	tr.			
	93- 98	no	0.10			
	98-103	no	0.15			
	103-108	no	0.38			
	108-113	0.13	0.43			
	113-118	tr.	0.75			
	118-123	no	2.25		2.00	
	123-128	no	1.60		1.50	
	128-133	no	o.10			
	133-138	no	0.10			
	138-143	no	0.20			
	143-148	no	tr.			
	148-153	no	0.05			
	153-158	no	0.10			
	158-163	no	tr.			
	163-168	no	0.10			
	168-173	no	tr.			
	173-178	no	tr.			
	178-183	no	tr.			
	183-188	no	tr.			
	188-193	no	tr.			
	193-198	no	no			
	198-204	no	no			

Assay Data -- D.M.E.A. Contract Idm - Docket No. 4090

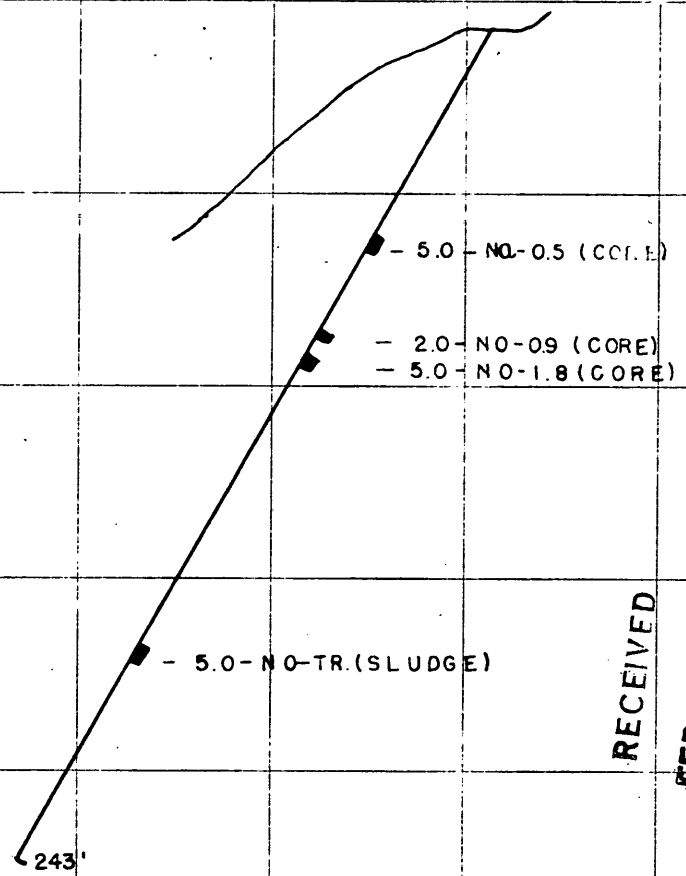
	Depths	% Pb	% Zn	%PbO	%ZnO	Ag
Hole No. 2 core						
	62- 67	no	o.50			
	78- 81	no	no			
	90- 92	no	0.90			
	97-102	no	1.80		1.30	
	160-163	no	no			
	90-95	tr.	0.28			tr.
	95-100	tr.	1.25		1.13	tr.
	100-105	tr.	0.65			tr.
	105-110	0.07	tr.			tr.
	110-115	tr.	tr.			tr.
	115-120	tr.	tr.			tr.
	120-125	no	no			tr.
	125-130	no	no			tr.
Hole No. 2 sludge	175-180	no	no			
	180-185	no	no			
	185-190	no	tr.			
	190-195	no	tr.			
	195-200	no	no			
	200-205	no	no			
	205-210	no	no			
Hole No. 5 core	8- 13	tr.	tr.			tr.
	38- 43	tr.	tr.			tr.
	88- 93	tr.	tr.			tr.
	158-163	tr.	no			tr.
Hole No. 5 sludge	8- 13	no	0.13			
	13- 18	no	no			
	18- 23	no	no			
	23- 28	no	no			
	28- 33	no	no			
	33- 38	no	no			
	38- 43	tr.	tr.			
	43- 48	no	no			
	48- 53	no	tr.			
	53- 58	no	tr.			
	58- 63	no	tr.			
	63- 68	no	no			
	68- 73	no	no			
	73- 78	no	no			
	78- 83	no	no			
	83- 88	no	no			
	88- 93	no	0.10			
	93- 98	no	tr.			
	98-103	no	no			
	103-108	no	no			
	108-113	no	no			
	113-118	no	no			

Assay Data -- D.M.E.A. Contract Idm - Docket No. 4090

	Depths	%Pb	%Zn	%PbO	%ZnO	Ag
Hole No. 5 ~~xxxx~~ sludge (cont)	118-123	no	no			
	123-128	no	no			
	128-133	no	no			
	133-138	no	tr.			
	138-143	no	tr.			
	143-148	no	tr.			
	148-153	no	no			
	153-158	no	0.15			
	158-163	no	tr.			
	163-168	no	no			
	168-173	no	no			
	173-178	no	no			
	178-183	no	no			
	183-188	no	no			
	188-193	no	no			
	193-196	no	no			
	196-202	no	no			
Hole No. 3 sludge	complete	no	no			
Hole No. 4 sludge	not sampled, no visible mineralization					
Hole No. 6 sludge	not sampled, no visible mineralization					



SECTION - HOLE NO. 1



SECTION - HOLE NO. 2

RECEIVED
FEB 7 1958
U. S. G. S.
SPOKANE, WASH.

LA SOTA - JONES PROPERTY

PEND OREILLE COUNTY, WASHINGTON

SCALE 1" = 50'

VALUES SHOWN AS - WIDTH FT. - % Pb - % Zn

DMEA 4090

RA.

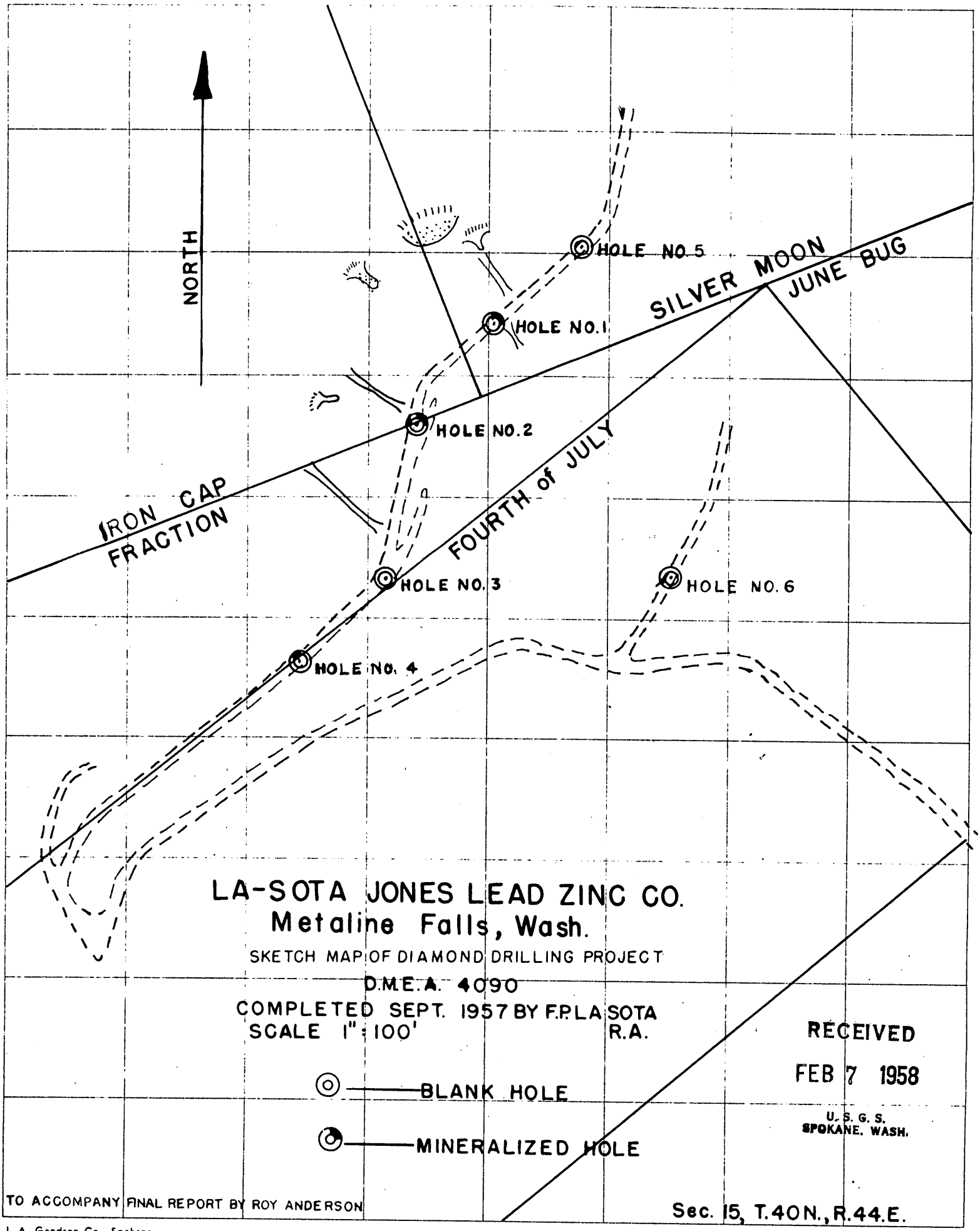
Nov. 18, 1956

TO ACCOMPANY FINAL REPORT BY ROY ANDERSON

"ALBANENE" No. 166W. A.E.L. CO., N.Y. REG. U.S. PAT. OFF.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 17 1958

DATE		


NORTH
HOLE NO. 5
HOLE NO. 1
HOLE NO. 2
HOLE NO. 3
HOLE NO. 4
HOLE NO. 6
SILVER MOON
JUNE BUG
IRON CAP FRACTION
FOURTH of JULY
LA-SOTA JONES LEAD ZINC CO.
Metaline Falls, Wash.
SKETCH MAP OF DIAMOND DRILLING PROJECT
D.M.E.A. 4090
COMPLETED SEPT. 1957 BY F.P. LA SOTA
SCALE 1" = 100'
R.A.
BLANK HOLE
MINERALIZED HOLE
RECEIVED
FEB 7 1958
U. S. G. S.
SPOKANE, WASH.
TO ACCOMPANY FINAL REPORT BY ROY ANDERSON
Sec. 15, T.40N., R.44.E.
J. A. Gendron Co., Spokane
"ALBANENE" NO. 198M K&E CO., N.Y.
REG. U.S. PAT. OFF

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 17 1966
DATE

DATE		CODE
2/3	95	220
2/3	4209	800
		~~500~~

So. 157 Howard Street
Spokane 4, Washington

January 29, 1958

Mr. F. P. LaSota, President
LaSota-Jones Lead Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. LaSota:

This will acknowledge your letter of January 28, 1958 with which you enclosed five copies of an Operator's Final Report on the referenced DMEA project.

Maps should be a part of such a report and since you have a map we would appreciate receiving five prints of it to go with the copies of your report.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2) w/2 copies of incoming
USBM (2)
USBM (AD)
Albee

RECEIVED
BUREAU OF MINES
JAN 29 1958
SPOKANE, WASH.

Metaline Falls, Wash.
Jan 28 1958

Re, Docket No DMEA-4090 (lead zinc)
La Sota-Jones Lead Zinc Corp
Pend Oreille County, Washington
Contract No E991

U.S. Bureau of Mines
1201 N. Division Street
Spokane 2, Wash.

Gentlemen,

Inclosing actual unit cost and Geologist report I am sorry I did not understand your letter of Dec 5th 1957, we were thinking that the final report was all that was neccessary, should a map be required please advise,

Respectfully,

La Sota-Jones Lead Zinc Corp

F. P. La Sota Pres

1201 N. Division St.
Spokane 2, Washington

January 21, 1958

Mr. F. P. LaSota, President
LaSota-Jones Lead & Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (lead-zinc)
LaSota-Jones Property
Pend Oreille County, Wash.
Contract No. Idm-H991

Dear Mr. LaSota:

On December 5, 1957 we called your attention to the requirement of submitting a final engineering and geologic report on the completed exploration project contract, in accordance with Article 5(c) of the contract.

We are desirous of closing this account and again urge you to submit this report as soon as possible.

By Field Team, Region I

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)
USBM (AD)

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 6 1957

DATE	INITIALS	CODE
12/6	C	220
12/6	[illegible]	800
12/6	[illegible]	500

1201 N. Division St.
Spokane 2, Washington

December 2, 1957

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Company
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (lead-zinc)
Contract No. Idm-E991
Monthly operating report for
November 1957

Dear Mr. LaSota:

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

We are withholding an amount of $150 pending receipt of a final audit by a representative of the Contract Administration and Audit Division of Defense Minerals Exploration Administration. This is the customary procedure and is applicable to all contracts.

By Field Team, Region I

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 10 1957

DATE	INITIALS	CODE
12/10	gb	220
12/10	[illegible]	800
1/10	copy	500

1201 N. Division St.
Spokane 2, Washington

December 5, 1957

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Company
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (lead-zinc)
LaSota-Jones Property
Pend Oreille County, Wash.
Contract No. Idm-2991

Dear Mr. LaSota:

The amount of $150.00 is being withheld from your November 1957 voucher pending receipt of your final report and a final audit of your contract.

The withholding of funds due an Operator for work done is normal procedure on all completed contracts and such withholding is authorized under Article 4 of the contract.

The requirement for a final report is stated under Article 5(c) of the contract. As soon as we receive your final report we can audit your account and release the balance due you.

By Field Team, Region I

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (3)
USGS (2)
USBM (AD)
Turner

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE DMEA RECEIVED NOV 18 1957		
DATE	INITIALS	CODE
11/18	gf	220
11/18	[illegible]	500

November 13, 1957

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota Jones Lead & Zinc Corp.
LaSota-Jones
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are the Government and Audit copies of Amendment No. 3 to the contract.

Other copies of the amendment have already been distributed.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
USBM (AD)
Albee

Amendment

[illegible]

[illegible]

[illegible]

[illegible] Street
[illegible] Washington

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

Enclosed [illegible] was drilled in the [illegible] [illegible] was approved [illegible]

[illegible] the time element left [illegible] [illegible] last [illegible] [illegible] the results of same [illegible] report together [illegible] [illegible] earliest [illegible]

In case that you [illegible] to check [illegible] set [illegible] some real soon, [illegible] that elevation the [illegible] make it impossible.

Respectfully [illegible]

[illegible] P. La Sota Pres

CENTRAL FILE COPY
DMEA
RECEIVED DEC 2 1957

DATE	INITIALS	CODE
12/2	C	220
12/3	[illegible]	800
12/3	[illegible]	500

So. 157 Howard Street
Spokane 4, Washington

November 6, 1957

11/12 C 220
11/12 800
11/12 500

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Company
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones property
Pend Oreille County, Wash.
Contract No. Idm-E991

Dear Mr. LaSota:

In accordance with your request of June 3, 1957, our Washington office has prepared the enclosed original and four copies of Amendment No. 3 which provides for the drilling of a sixth hole.

If this amendment meets with your approval, please sign all copies, keep that copy marked "Operator's Copy" and return the rest to this office. If it does not meet with your approval, please return all copies with your comments.

Sincerely yours,

Donald R. MacLaren
For: Wing G. Agnew
Acting Executive Officer
DMEA Field Team Region I

Enclosure as above

cc: DMEA (2)
USBM (2)
USBM(AD)
Albee

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/25	Greene	500
10/25	Talbot	800
10/25	Selfridge	130
10/25	[illegible]	110
		~~100~~
		~~HB~~
10/25	C	225
		500

500

OCT 28 1957

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

With reference to your letter of September 3, we are enclosing the original and four copies of a proposed Amendment No. 3 (two pages), to the cited contract, which have been signed by the Administrator, for the Government.

If the amendment meets with your approval, please present it to the Operator for approval and signature and, when completed, distribute all copies in the usual manner. Otherwise, and if any proposed change should lie beyond your delegated authority, please return all copies to us, with your recommendations.

Two extra copies of the amendment are enclosed for use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Enclosures

WRGriswold/er 10/25/57

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

APPROVED:

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

W. P. Williams (HB)
Member, Geological Survey

8623

OFFICIAL FILE COPY

Date	Surname	Code

500

October 14, 1957

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Director, Division of Base Metals

Subject: Preparation of Amendment No. 3 for Docket No. IMEA-4090, LaSota-Jones Lead and Zinc Corporation, LaSota-Jones Property, Pend Oreille County, Washington, Contract No. Idm-E991 (Lead-Zinc).

Five holes have been drilled under this Contract, as specified in Exhibit "A". However, 244 feet remain unconsumed and we recommend that a sixth hole be allowed to provide for such unused footage.

It seems that this can be accomplished if, by amendment, we revise the first paragraph of Exhibit "A" to say:

"Six holes shall be drilled", etc.

Also, the third paragraph should be revised to say:

"The approximate locations of the first five holes", etc.

W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Docket
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 19 1957
IN REPLY REFER TO:

DATE	INITIALS	CODE
9/19	C	220
9/19	WRG	500

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

September 18, 1957

Re: DMEA 4090 Idm-E991
LaSota-Jones Lead & Zinc Corp.
LaSota-Jones Mine
Pend Oreille County, Washington
Lead-Zinc

Memorandum

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

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

Subject: Review of memorandum of Field Team re using remaining drilling footage on part of a hole

The contract approved the drilling of 1,500 feet in five holes.

The five holes totalling 1,256 feet have been completed with unfavorable and inconclusive results. The operator requests permission to use the remaining 244 feet in a sixth hole. If the target is not reached, the operator will complete the hole.

The Field Team recommends that the request for an amendment be granted.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

September 18, 1957

Re: DMEA 4090; IDM-E991
La Sota-Jones Lead and Zinc Corp.
La Sota-Jones Property
Pend Oreille County, Wash.

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Requested amendment asking authorization for a sixth hole and favorable report thereon by field team, 9/3/57

In reviewing the evidence, I am impressed with the liklihood that the oxide outcrops trenched at the surface and cut at shallow depths by Holes 1 and 2 may exist at greater depth as a sulfide ore body. There is considerable reason to believe that the sulfide zone will contain a higher percentage of zinc than did the oxide zone and certainly the exploration will be but partly done if this potential of the 6th hole is not explored.

I recommend that the applicant be allowed the remaining authorized footage to complete drill Hole 6.

O. M. Bishop

O M. Bishop

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

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 18 1957

DATE	INITIALS	CODE
9/19	C	220
9/19	WRG	500

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE
9-6	C	220
9/6	[illegible]	800
9/6	WRS.	500

No. 157 Howard Street
Spokane 4, Washington

September 3, 1957

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Company
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. 1dm-8991

Dear Mr. LaSota:

This will acknowledge receipt of your letter of August 22, 1957, in which you again request authorization to use the balance of the drilling set up in the contract for partially drilling a sixth hole.

We are forwarding your letter to Washington for the consideration of the DMEA.

We had hoped that Mr. Anderson would give us more details that would help us to justify recommending additional funds to drill the entire hole.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2)
USBM (2)
USBM (AD)
Albee

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIAL	CODE
9-6	C	220
9/3	WRR	130
		500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

September 3, 1957

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

In a letter dated June 3, 1957, Mr. F. P. LaSota requested authorization to use any footage remaining after completion of the five holes stipulated in the contract to drill a sixth hole. Copies of this letter and our reply dated June 6, 1957, have been forwarded to you.

On August 13, 1957, we received the last of the drilling data and wrote to Mr. LaSota August 16, 1957, summarizing for him, the reasons why we find it difficult on geologic grounds to justify another hole. Copies of this letter were also sent to you. Enclosed are two copies of Mr. LaSota's reply dated August 22, 1957.

Mr. Roy A. Anderson, the operator's consulting geologist, believes that a sixth hole about 200 feet east of holes 1 and 2, drilled to a depth of about 400 feet may cut a sulfide zone down dip from the oxides indicated in holes 1 and 2.

Zinc mineralized

Hole 1 cut 10 feet of material averaging 1.92 percent zinc, mostly zinc oxide and hole 2 cut 5 feet of material averaging 1.8 percent zinc, mostly zinc oxide. There was no lead in either. Other samples from hole 1 indicate nine 5-foot segments containing 0.05 to 0.76 percent zinc, one 5-foot segment containing 1.6 percent zinc, and one 5-foot segment containing 2.25 percent zinc. Other samples from hole 2 indicate one 5-foot segment containing 0.5 percent zinc, one 2-foot segment containing 0.9 percent zinc, and one 5-foot segment containing 1.8 percent zinc.

There remain 244 feet of the 1,500 authorized in the contract, and the operator has said he is willing to complete the hole at his own expense; in fact he will drill the entire hole if necessary.

We feel that if the Government is justified in contributing to the cost of drilling this hole, it should contribute to the entire cost. In view of the results of the five holes already drilled, we do not feel that there is sufficient encouragement to recommend additional funds for the balance of a 400-foot hole. However, we appreciate the judgment of Mr. Anderson and acknowledge that his hope of finding a sulfide body might be realized.

We therefore recommend that the operator be authorized to use the balance of the footage remaining in the contract in partially drilling a sixth hole.

By Field Team, Region I

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing A. Agnew

Wing A. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USBM (AD)
Albee

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE

Metaline Falls, Washington
August 22, 1957.

fense Minerals Exploration Administration
o 157 Howard St.,
Spokane 4, Washington

Re: Docket No. DMEA-4090
LaSota-Jones Lead-Zinc Co
Pend Oreille County
Contract No. IDa-E991

Gentlemen:

We have your letter of August 16 regarding amendment authorizing a sixth hole. From your letter we take it that you do not think it justifiable. You also state that you would consider any justification our geologist may make for drilling this additional hole. We wish to call to your attention the geologist's narrative report of August 10 which was enclosed with our July report.

In regard to the sludge and core assays obtained, we think that Holes No. 1 and 2 were sufficiently mineralized for some 30 feet or more to justify the additional hole on the hill to the East. We also wish to mention that due to the oxide minerals encountered the true values would be lost, by grinding and washing away, andwe think that hole 6 may contain sulfide ore.

We are hoping that the balance of footage left in the contract will be allowed for this additional hole. The hole will have to be about 400 feet or more and as the season is getting late we are going down with it.

Hoping that you will grant our request, we are

Respectfully,

LaSota-Jones Lead-Zinc Co.,
F. P. LaSota, Pres.

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 23 1957

DATE		CODE
8/26	Q	220
8/26	[illegible]	800
8/26	[illegible]	500

So. 157 Howard Street
Spokane 4, Washington

August 16, 1957

Mr. F. P. La Sota, President
La Sota-Jones Lead and Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
La Sota-Jones Propety
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. La Sota:

This is in further reference to your letter of June 3, 1957, in which you request an amendment authorizing a sixth diamond drill hole and to our reply of June 6, 1957.

During an inspection by Donald C. Kellum, geologist of the Geological Survey, you stated that the purpose of this hole is to test the mineralized zone further down dip from the present holes. We have received the drill logs and assay data on the five completed holes. These holes were drilled down dip from several surface outcrops and trenches from which the assays of samples showed a combined lead-zinc grade ranging from 5.45 to 11.16 percent. An analysis of the assays of samples from the drill holes show a combined lead-zinc content ranging from a trace to 2.25 percent. Of the five holes drilled, assays of samples from holes 3 and 4 showed no lead or zinc; those from hole 5 showed no better than a trace; those from hole 2 included one 5-foot segment containing 0.5 percent zinc, one 2-foot segment containing 0.9 percent zinc, and one 5-foot segment containing 1.8 percent zinc; and those from hole 1 included nine 5-foot segments containing 0.05 to 0.76 percent zinc, one 5-foot segment containing 1.6 percent zinc, and one 5-foot segment containing 2.25 percent zinc. To summarize, from five holes drilled, hole 1 cut 10 feet of material averaging 1.92 percent zinc and no lead while hole 2 cut 5 feet of material averaging 1.80 percent zinc and no lead. These intercepts are approximately down dip from surface assays averaging 7.18 percent combined lead and zinc over an average width of 7.47 feet.

In view of the above facts, we find it difficult on geologic grounds to justify any more drilling with Government funds.

However, we would be glad to consider any justification for this hole that your geologist might care to make.

By Field Team, Region I

Wing G. Agnew, Acting Executive Officer
U. S. Bureau of Mines

Donald R. Maclaren, Acting Member
U. S. Geological Survey

cc: DMEA(2)
USBM(2)
USGS(AD)
Albee

Metaline Falls, Washington
August 12, 1957

Defense Minerals Exploration
Administration
So 157 Howard St.,
Spokane 4, Washington

Re: Docket DMEA 4090
LaSota-Jones Lead-Zinc
Pend Oreille County,
Wash. Contract No. Idm-
E991

Gentlemen:

In reply to your letter of August 2, regarding reports on Holes No. 3 and 4, I was just able to get the assay returns, which were delayed due to a backlog of work at the assay laboratory.

Hope you will be able to give us some help on Hole No. 6.

Respectfully,

LaSota-Jones Lead-Zinc Co.
F. P. LaSota, Pres.

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 5 1957

DATE		CODE
8/5	P.K.	220
8/5		800
8/6		500

So. 157 Howard Street
Spokane 4, Washington

August 2, 1957

Mr. F. P. LaSota
LaSota-Jones Lead-Zinc Co.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-8991

Dear Mr. LaSota:

This is in reply to your letter of July 12, 1957, and in further reference to our letter of June 6, 1957.

We are most anxious to consider your request for a sixth hole, but, as we stated in our letter of June 6, 1957, we cannot start processing your application until we receive the logs and assays of holes 3 and 4.

As soon as we receive this information, we will be able to make our recommendations which we must then forward to Washington with the results of the five holes.

We have delayed acknowledging your letter of July 12, 1957, expecting to receive this information.

By Field Team, Region I

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2) w/2 copies of incoming
USBM (2)
USBM (AD)
Albee

Metaline Falls, Washington
July 12, 1957

Defense Minerals Exploration Administration
So 157 Howard St.,
Spokane, Washington

Re: Docket No.DMEA-4090
LaSota-Jones Lead-Zinc Co
Pend Oreille Co., Wash.
Contract No. Idm E991

Gentlemen:

This is to inform you that Hole No.4 will be completed about Monday July 15, and hope the balance of footage left will be allowed for an additional hole on the hill about 200 feet East of the best results obtained. We will stand the cost of additional footage necessary to complete the hole.

Respectfully,

LaSota-Jones Lead-Zinc Co.
by F. P. LaSota
/s/ F. P. LaSota

DABEY

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 5 1957

DATE	INITIALS	CODE

RECEIVED
JUL 15 1957
U. S. G. S.
SPOKANE WASH

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/10	Klugescheid	500
	[illegible]	~~500~~
7/10	GCS	130
7/10	Johnson	110
10	[illegible]	[illegible]
7/11	C	215
		500

JUL 10 1957

WRGriswold/er Rm 4444, Ext. 3669

DMEA - Division of Base Metals

14X4401(01) Revolving Fund,
Defense Production Act, Interior,
(Transfer to Office of Secy.)

TELETYPE

[illegible]

Date:

To: Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Spokane, Washington

Re: Docket DMEA-4090, LaSota-Jones Lead and Zinc Corp., Interim Inspection Report, dated June 12, 1957. A sixth hole would require an amendment to the contract.

George C. Selfridge

Chairman, Operating Committee (248)

WPKlugescheid/er 7/10/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.
Confirmation Copy

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/9	Swinnerd	500
		130
		119
		180
		225
		500

500

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
~~Northwest District~~
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

We have our copy of the Interim Inspection Report by Donald F. Kellum, dated June 12, 1957, covering the cited property.

Regarding the possibility of a sixth hole being drilled, please note that this would require an amendment to the contract.

Sincerely yours,

Chairman, Operating Committee
XXXXX/er 7/9/57
WRGriswold
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 10 1957

DATE	INITIALS	CODE
6/10	JWD	220
6/10	[illegible]	800
6/11	[illegible]	500

So. 157 Howard Street
Spokane 4, Washington

June 6, 1957

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Ida-8991

Dear Mr. LaSota:

This is in reply to your letter of June 3, 1957 in which you ask whether your contract could be amended to put down an additional hole if the authorized 1,500 feet total is not used up in the first five holes.

While it is possible that such an amendment could be obtained, we would first have to know how much footage remained, the results of holes 3 and 4, and where you propose to drill the extra hole. Until we have this information we cannot give you any assurance that such an amendment will be made.

We suggest that, as soon as you know the results of holes 3 and 4, the amount of footage that will remain, and where you wish to drill an extra hole, you so advise us by telephone. We will then be better able to give you a satisfactory answer.

By Field Team, Region I, NW Dist.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2) w/2 copies of incoming
USBM (2)
USBM (AD)
Kellum

Metaline Falls, Washington

June 3, 1957

DMEA

Defense Minerals Exploration Administration
So 157 Howard St.,
Spokane 4, Washington.

Re: Docket No. DMEA-4090
LaSota-Jones Lead-Zinc Corp.,
Metaline Falls, Wash.

Gentlemen:

We are ready to start drilling and are set up on hole No. 3.

The five holes stipulated in the contract may not absorb the 1500 feet allowed in the contract and am wondering if the contract could be amended to put down an additional hole.

Respectfully,

F. P. LaSota, President.

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 10 1957

DATE	INITIALS	CODE

JUN 4 1957
SPOKANE WASH

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 1 1957

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

January 28, 1957

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead-Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are the Government, Docket, and Division copies of Amendment No. 2 to the contract.

Other copies of the amendment have already been distributed.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: Finance Office
USBM (2)
Kellum

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 28 1957

DATE	INITIALS	CODE
1-28	C	220
1/28	[illegible]	800
		225

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

January 23, 1957

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Corporation
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. LaSota:

Our Washington, D. C. office has prepared Amendment No. 2, the original and five copies of which are enclosed. If this amendment meets with your approval, would you please sign all copies and return all but the copy marked for the Operator.

If the amendment does not meet with your approval, please return all copies with your comments.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Kellum

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Griswold	500
1-18	Chamberlin	800
1/18	Selfridge	130
1-18	Fox	110
"	Matheusoy	100
		~~110~~
1-22	C	~~100~~ 225

500

JAN 18 1957

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

As requested in your letter to us of December 18, 1956, we have prepared a proposed Amendment No. 2 to the cited contract pertaining to the assaying. Two extra copies are also enclosed for use of the Field Team.

If it meets with your approval, please present it to the Operator for signature and, when completed, distribute all copies in the usual manner. In the event that you do not approve of any of the amendment provisions, and a proposed change should lie beyond your delegated authority, all copies should be returned with your recommendations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GHB)

Enclosures

WRGriswold/er 1/18/57

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

APPROVED:

O. M. Bishop (GHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (GHB)
Member, Geological Survey

R. C. L.

8623

OFFICIAL FILE COPY

Date	Surname	Code

500

January 11, 1957

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Preparation of Amendment No. 2 for Docket No. DMEA-4090, LaSota-Jones Lead and Zinc Corp., LaSota-Jones Property, Pend Oreille County, Washington, Contract No. Idm-E991, Lead-Zinc.

Will you kindly prepare an Amendment No. 2 to the cited contract which will provide as follows:

In Exhibit "A", under Description of the Work, the second paragraph should be deleted and the following substituted:

"All significantly mineralized core shall be sampled and assayed for total lead, oxide lead, total zinc, oxide zinc, silver and such other elements as the Government may authorize. Core samples for assay shall not represent in excess of five feet of core length."

Also, in Exhibit "A", under Fixed Unit Costs, please delete "40 samples to be assayed @ $5.50 $200.00"

In its place, substitute:

366 determinations @ $0.60 each $220.00

W. R. Griswold

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC 23 1956
D.M.E.A.

December 20, 1956

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are the Government, Docket, and Division copies of Amendment No. 1 to the contract.

By copy of this letter, other copies of the amendment are being distributed.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: Finance Office w/encl.
USBM (2)
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED DEC 20 1956 D.M.E.A.

December 18, 1956

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

The referenced contract authorizes 40 samples to be assayed @ $5.50 each or $220.00 total, stating that "all significantly mineralized core shall be sampled and assayed for total lead and oxide lead, and total zinc and oxide zinc."

All mineralized core has been assayed for total lead and zinc but the Operator has not assayed all samples for oxide lead and zinc, and in those instances where the lead and zinc values are low, it would appear unnecessary for him to do so. Nevertheless, under the terms of the contract, unless the four specified determinations are made, we are unable to authorize payment for the assaying. Furthermore, the agreed on costs have worked out to be more than liberal; we understand that Pend Oreille Mine and Metals Company is doing the assaying at a cost of $0.60 per determination. This favorable arrangement was not contemplated when the costs were estimated.

We recommend that an amendment be written substituting for 40 samples @ $5.50 each, 366 determinations for total lead, oxide lead, total zinc, oxide zinc, silver, and such other elements as the Field Team may authorize at $0.60 per determination. This will be to the Government's advantage as, if required, more assaying can be done for the same money.

Nothing in the contract would appear to prevent paying for analyses of sludge samples, although only core samples are mentioned

specifically. This should be cleared up if there is any doubt for it will be desirable to make some analyses of the sludge.

By Field Team, Region I, NW Dist.

A E Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: USBM (2)
USBM (AD)
Kellum

RECEIVED
DEC 21 1956
D.M.E.A.

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 17, 1956

Mr. F. P. LaSota, President
LaSota-Jones Lead-Zinc Corp.
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-8991

Dear Mr. LaSota:

As requested in your letter of October 27, 1956, our Washington office has prepared Amendment No. 1, the original and six copies of which are enclosed. If this amendment meets with your approval, would you please sign all copies and return all but the copy marked for the Operator.

If the amendment does not meet with your approval, please return all copies with your comments.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Kellum

File Copy
Surname

Chambers
Griswold
Selfridge
Johnson
Montgomery

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

DEC 13 1956

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
LaSota-Jones Property
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Weissenborn:

With reference to the cited project, we are enclosing the original and five copies of Amendment No. 1 to the contract. Two extra copies are also enclosed for the use of the Field Team.

If the amendment meets with your approval, kindly present it to the Operator for signature and, when completed, distribute the copies in the usual manner. Otherwise, and if any proposed change should lie beyond your delegated authority, all copies should be re-turned to us with your recommendations.

We note the suggestion in your November 7 letter, that no extension be made of the repayment period. Undoubtedly there are certain conditions herewhich are not ordinarily encountered, but we are reluctant to establish a precedent and depart from established procedure.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GLB)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (GLB)
Member, Geological Survey

WRGriswold/er 11/27/56
rewritten 12/11/56

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

R.S.

DOCKET COPY

Robert Sawyer

"Appr. con. offer"

Financial Talbert

EXPLORATION PROJECT CONTRACT
LaSOTA-JONES LEAD AND ZINC CORPORATION
DOCKET NO. DMEA-4090

Amendment No. 1

It is agreed this _____ day of _____, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and LaSota-Jones Lead and Zinc Corporation, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E991, Docket No. DMEA-4090, dated August 13, 1956, hereinafter called the "Contract," that:

1. (a) Work under the Contract shall be suspended during the period beginning November 1, 1956, and ending not later than June 1, 1957.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government, and the Government shall not contribute to any costs of rehabilitation or repair which, in its opinion, would not have occurred if there had been no suspension of the work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. In Article 3 of the Contract the time fixed for the completion of the work is extended from "three months from the date of the contract" to "fifteen months from the date of the contract."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the fixed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

LaSOTA-JONES LEAD AND ZINC
CORPORATION

By _____

_____

File Copy
Surname

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

December 4, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Rewrite of Amendment No. 1 for Docket No. DMEA-4090, LaSota-Jones Lead and Zinc Corp., Pend Oreille County, Washington, Contract No. Idm-E991

Will you kindly rewrite the attached amendment to extend the repayment period to eleven years.

Also please note the notation of the Audit Division on the November 27 routing slip.

W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Docket
Admr R File
Base Metals
Chron.

File Copy
Surname

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

500

November 21, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Preparation of Amendment No. 1 for Docket No. DMEA-4090, LaBota-Jones Lead and Zinc Corp., Pend Oreille County, Washington, Contract No. Idm-E991

Will you kindly prepare an Amendment No. 1 to the cited contract which will provide for a work recess from November 1, 1956 to June 1, 1957. Also, extend the completion date from "three months from date of contract" to fifteen months from date of contract.

W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Docket
Base Metals
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED NOV 13 1956 D.M.E.A.

November 7, 1956

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

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
Pend Oreille County, Washington
Contract No. Idm-E991

Dear Mr. Selfridge:

Enclosed are two copies of a letter dated October 27, 1956, from Mr. F. P. LaSota, president of the company, requesting an amendment to the contract to permit a period of recess for the winter and to extend the date of completion of the project. Climatic conditions in the area make drilling from the surface extremely difficult if not impossible.

We recommend that the project be recessed from November 1, 1956 to June 1, 1957, and that the completion date be extended to November 1, 1957. 8 mos + 8 1/2 mo.

The operator has drilled three of five holes specified in the contract. 1 5 months work total

We wish to point out that according to Memorandum No. 32 extension of the termination date would require adding a year to the repay period. However, to some degree this may be unfair to the Operator. The Operator first received the contract in August but the contract had to be returned for adjustment because the applicant had incorporated while awaiting receipt of the contract. Consequently, he was unable to begin work until October. As mentioned above, the Operator completed three of five holes but was unable to complete the remaining two. The duration of the contract is only three months. Recessing the contract over the winter will obviously require more time but the Operator still should be able to complete this well within the period of one year. It would seem that in this case adding an extra year to the repay period would be unwarranted.

By Field Team Region I, NW Dist.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

~~Wing G. Agnew, Member~~
U. S. Bureau of Mines

Enclosure

cc: USBM (2)
USBM(AD)
Kellum

RECEIVED
BUREAU OF MINES
OCT 2 1956
SPOKANE, WASH

Metaline Falls, Washington
October 27, 1956

RECEIVED
NOV 13 1956
D.M.E.A.

Defense Minerals Exploration
Administration,
1201 N Division St.,
Spokane 2, Washington

Re: Docket No. 4090
Contract No. Idm 991

Gentlemen:

Due to snow, freezing weather and hazardous road travel we were obliged to terminate drilling operation for this season. We wish to ask to recess the work until next June, and would like to have until next November to finish.

We finished Hole No.1 to a depth of 204 feet and Hole No. 5 to a depth of 202 feet, since our last report.

If your engineer wishes to inspect the core we have it here in town, after which we will take it to the Pend Oreille laboratory for assaying.

Trusting you will grant the recess asked for,

Respectfully,

LaSota-Jones Lead-Zinc Corp.

F. P. La Sota President

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
SEP 20 1956

September 17, 1956

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

Re: Docket No. DMEA-4090 (Zinc-Lead)
LaSota-Jones Lead & Zinc Corp.
LaSota-Jones property
Pend Oreille County, Washington
Contract No. Idm-E991.

Dear Mr. Selfridge:

Enclosed are the Government, Docket, and Division copies of the above-referenced contract.

By copy of this letter other copies of the contract are being distributed.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Attachments

cc: Finance Office w/encl.
USBM (2)
Kellum

Metaline Falls, Washington
September 13, 1956

RECEIVED
SEP 20 1956

Defense Minerals
Exploration Administration
So. 157 Howard St.,
Spokane 4, Washington

Re: Docket No.DMEA-4090 (Zinc-Lead)
LaSota-Jones Lead & Zinc Corp.
LaSota-Jones property
Pend Oreille Co. Washington

q

Gentlemen:

Enclosed please find contract, signed as requested.

Drilling is in progress and will report at end of month.

Respectfully,

RECEIVED

SEP 14 1956

[redacted]

Betty

xxxxxxxxxxxxxxxx

So. 157 Howard Street
Spokane 4, Washington

Docket

September 11, 1956

Mr. F. P. La Sota
Metaline Falls
Washington

Re: Docket No. DMEA-4090 (Zinc-Lead)
LaSota-Jones Lead & Zinc Corp.
LaSota-Jones property
Pend Oreille County, Washington

Dear Mr. La Sota:

In accordance with your request, our Washington office has rewritten that portion of the contract pertaining to the name of the operating company. If it now meets with your approval, would you please sign all copies (original and five), retain that copy marked for the operator, and return the rest to this office.

Article 1 provides that work is to begin on or before October 1, 1956 and shall be completed within three months from the date of the contract, August 13, 1956, or by November 13, 1956. Please inform us when you expect to commence work.

Your attention is called particularly to Article 6 of the contract which deals with repayment by the operator from royalty on production. Any production from the land described in the contract is subject to the royalty provisions of the contract whether or not the ore was known to exist prior to the date of the contract or it is discovered or developed by the work under the contract. This applies to all production during the period in which the Government may certify or, if the project is certified, to all production during the repayment period specified in the contract.

In a few days we will send you the Monthly Report forms and instructions for their preparation.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosures as above

cc: DMEA (2)
USBM (2)
USBM(AD) Kellum

File Copy
Surname
Griswold
Talbot
Martin
Selfridge
Johnson

500

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

SEP - 4 1956

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
LaSota-Jones Lead and Zinc Corp.
La Sota-Jones Property
Pend Oreille County, Washington

Dear Mr. Weissenborn:

As recommended in your letter of August 22, regarding the cited project, we are enclosing the original and five copies of a rewritten contract covering the work of exploration on the referenced property. The contract, which has been signed by the Government, consists of Form MF-200A, Annex I (one page), Exhibit "A" (one page), and two maps.

Aside from the change of the Operator's name, the contract is similar in all respects to the one which you returned and which we understand met with your approval. Will you therefore present the contract for signature and then distribute the copies in the usual manner.

Two extra copies of Annex I and Exhibit "A" are enclosed for use of the Field Team. We presume you have the extra map copies, which were sent with our letter of August 13.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

WRGriswold/er 8/30/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

Frank D. Lamb
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

P.C.

File Copy
Surname

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

August 28, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Preparation of Contract on Docket No. DMEA-4090, F. P. LaSota et al., LaSota-Jones Property, Pend Oreille County, Washington, Zinc-Lead.

Will you kindly have a new contract prepared, using the new name. Also will you kindly see if the legal papers are in order.

Please note requested dates in last paragraph of Mr. Weissenborn's letter.

W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Docket
Base Metals
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

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

August 22, 1956

Air Mail

Re: Docket No. DMEA-4090 (Zinc-Lead)
F. P. LaSota et al.
LaSota-Jones Property
Pend Oreille County, Washington

Dear Mr. Selfridge:

Mr. F. P. LaSota has called at the Spokane office to return all (original and five) copies of the enclosed contract, unsigned. The terms of the contract are entirely acceptable to the partners, but since filing their application for DMEA assistance they have formed a corporation called the LaSota-Jones Lead and Zinc Corporation of which Mr. LaSota is president.

The partners have turned their respective claim holdings over to the Corporation and therefore could not sign the contract as it is now made out. The Executive Officer called Mr. C. O. Mittendorf yesterday to find out if we could make the changes in designation here, but as it will be necessary for the lawyers to go over the claim assignments, Mr. Mittendorf told us to return all copies of the contract and three copies each of three mining deeds, which are enclosed. Also enclosed are three copies of a power of attorney giving Mr. LaSota authority to sign for Patrick J. Sullivan.

As the LaSota-Jones Lead and Zinc Corporation is most anxious to start work so as to get as much as possible of the drilling completed before the snow flies, will you please keep the date of the contract as August 13, 1956, and the starting date as "on or before October 1, 1956." It would be greatly appreciated if you would give this as much of a push as possible.

By Field Team, Region I, NW District

for Thomas E Howard
Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

RECEIVED
AUG 24

D R MacLaren
D. R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures
cc: USBM (2)
USBM (AD)
Kellum

KNOW ALL MEN BY THESE PRESENTS:

THAT I, PATRICK J. SULLIVAN, do by these presents appoint E. P. LA SOTA, attorney in fact, for me and in my name, and for my use and benefit to make, sign, seal, execute, acknowledge, and deliver deeds, leases and assignments of lease, covenants, indentures, agreements, mortgages, deeds of trust and reconveyances thereunder, receipts, evidence of debt, releases and satisfaction of mortgage, judgments, and other debts, to demand, sue for, collect, and receive all sums of money, checks, debts, royalties, dividends and demands whatsoever as are now or shall hereafter become due or owing, and take all lawful ways and means in my name or otherwise for the recovery thereof by attachment, arrest or otherwise, and to compromise and agree for the same, and discharge for the same, and to act in all other matters pertaining to those certain mining claims, known as Slate Creek Group Claims, located at or near Pend O'Rielle, Washington.

GIVING unto said attorney full power to perform every act and thing which he may think necessary to be done in and about the premises, as fully to all intents and purposes as I might or could do if personally present, hereby ratifying and confirming all that said attorney shall lawfully do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF I have hereunto set my hand the 3rd day of October, 1947.

Patrick J. Sullivan

STATE OF CALIFORNIA)
) SS
COUNTY OF MONTEREY)

Before me the undersigned, a Notary Public, in and for said County and State, on this 3rd day of October, 1947, personally appeared Patrick J. Sullivan, to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as a free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

Flora Kraft

My Commission expires January 10, 1949 Notary Public

BARDIN & CUNNINGHAM
WILLIAM L. STEWART
ATTORNEYS-AT-LAW

MINING DEED

THIS INDENTURE, made the 28th day of February, 1956, between the undersigned, the parties of the first part, and the La Sota-Jones Lead and Zinc Corporation, the party of the second part, witnesseth:

That Whereas, the La Sota-Jones Lead and Zinc Corporation has been duly incorporated under the Laws of the State of Washington, and it is intended by this instrument to transfer to the party of the second part all the right, title, and interest of the parties of the first part, which they and each of them have a claim in and to the mining ground and claim or lode and its appurtenances, hereinafter described;

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS, that the parties of the first part and each of them whose names are hereinto subscribed, in consideration of certificates of stock in said incorporated Company hereafter to be issued to them, their, and each of their heirs, and assigns, in conformity with the By-Laws of said Corporation heretofor adopted, do by these presents, grant, bargain, sell, transfer, remise, release, and quit claim unto the party of the second part, its successors, and assigns, all their and each of their right, interest, claim, and demand whatsoever, in law or equity, of, in, or to all certain mining ground, claim, or lode, situate, lying, and being in the upper Slate Creek area of the Metaline Mining District, to-wit:

The Southeast Quarter (SE¼) of the Southwest Quarter (SW¼) of Section Eleven (11), the Southwest Quarter (SW¼) of the Southeast Quarter (SE¼) of Section Eleven (11), the Northwest Quarter (NW¼) of Section Fourteen (14), the Southwest Quarter (SW¼) of Section Fourteen (14), the Southeast Quarter (SE¼) of Section Fourteen (14), and the Northwest Quarter (NW¼) of Section Twenty-three (23), the Northeast Quarter (NE¼) of Section Twenty-three (23), the Southwest Quarter (SW¼) of Section Fourteen (14), the Southeast Quarter (SE¼) of Section Fifteen (15), and the Northeast Quarter (NE¼) of Section Fifteen (15), all in Township Forty (40) North, Range Forty-three (43), E.W.M., situate in the County of Pend Oreille, State of Washington, and known and recorded as follows:

Name	Recorded in Records of Pend Oreille County Mining Locations Volume	Page
Lead Metal No. 1	3	105
Lead Metal No. 2	3	106
Lead Metal No. 3	3	107
Lead Metal No. 4	3	108
Lead Metal No. 5	3	109
Lead Metal No. 6	3	110
Lead Metal No. 7	3	111
Lead Metal No. 8	3	112
Lead Metal No. 9	3	113
Milwaukee	3	237
Last Chance	4	94
Last Chance No. 1	4	95
Last Chance No. 2	4	102

Together with all the dikes, angles, spurs, and variations of said mining ground, claims, or lodes in and situate thereunto appertaining and appurtenances thereunto belonging.

To have and to hold the premises, with the appurtenances, unto the party of the second part, his successors, and assigns forever.

NOTE: The above described mining claims are unpatented mining claims and no transaction taxes are applicable.

IN WITNESS WHEREOF, we have signed the foregoing Deed this 28th day of February, 1956.

Charles G Clarke
Charles G. Clarke

Nickie N. Mondich also known as Nick N. Mondich
Nick N. Mondich

Sue D. Mondich
Sue D. Mondich (Wife of Nick Mondich)

F. P. La Sota
F. P. La Sota

Winifred La Sota
Winifred La Sota (Wife of F. P. La Sota)

P. J. Sullivan (By F. P. La Sota attorney-in-Fact for P. J. Sullivan)
P. J. Sullivan (By F. P. La Sota, Attorney-in-Fact for P. J. Sullivan)

Indexed
89079 Recorded
Verified
Paged Out

STATE OF WASHINGTON }
County of Pend Oreille } ss.

This certifies that the instrument was filed for record in the Auditor's office of said county

on March 15 1956

at 9 o'clock and 0 min. A.M.

at the request of

F. P. La Sota

and recorded in vol. 2 page 173

Book of Mortgages

Pend Oreille County, Washington

Ruth A. Stevenson

Auditor of Pend Oreille County

By Betty Hung

STATE OF WASHINGTON,
County of Asotin } ss.

I, the undersigned, a Notary Public in and for the above-named county and state, do hereby certify that on this 13th day of March, 1956, personally appeared before me Charles L. Clarke

to me known to be the individual described in and who executed the within instrument, and acknowledged that he signed and sealed the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

E. G. Goodnow
Notary Public for State of Washington,
Residing at Clarkston

INDIVIDUAL ACKNOWLEDGEMENT

5M 6-46 DYER PRINTING CO. 27099

STATE OF WASHINGTON)
) ss.
County of Pend Oreille)

I, the undersigned, a Notary Public in and for the above named County and State, do hereby certify that on this 28th day of February, 1956, personally appeared before me ~~Charles C. Clarke~~, Nick N. Mondich, also known as Nickis N. Mondich, Sue Mondich (wife of Nick Mondich), F. P. La Sota, Winifred La Sota (wife of F. P. La Sota), P. J. Sullivan (by F. P. La Sota, Attorney-in-Fact for P. J. Sullivan), to me known to be the individuals described in and who executed the within instrument, and acknowledged that they signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

Gay Jones

Notary Public in and for the State of Washington, residing at Newport.

MINING DEED

THIS INDENTURE, made the 28th day of February, 1956, between the undersigned, the parties of the first part, and the La Sota-Jones Lead and Zinc Corporation, the party of the second part, witnesseth:

That Whereas, the La Sota-Jones Lead and Zinc Corporation has been duly incorporated under the Laws of the State of Washington, and it is intended by this instrument to transfer to the party of the second part all the right, title, and interest of the parties of the first part, which they and each of them have a claim in and to the mining ground and claim or lode and its appurtenances, hereinafter described;

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS, that the parties of the first part and each of them whose names are hereinto subscribed, in consideration of certificates of stock in said incorporated Company hereafter to be issued to them, their, and each of their heirs, and assigns, in conformity with the By-Laws of said Corporation heretofor adopted, do by these presents, grant, bargain, sell, transfer, remise, release, and quit claim unto the party of the second part, its successors, and assigns, all their and each of their right, interest, claim, and demand whatsoever, in law or equity, of, in, or to all certain mining ground, claim, or lode, situate, lying, and being in the upper Slate Creek area of the Metaline Mining District, to-wit:

The Southeast Quarter (SE$\frac{1}{4}$) of the Southwest Quarter (SW$\frac{1}{4}$) of Section Eleven (11), the Southwest Quarter (SW$\frac{1}{4}$) of the Southeast Quarter (SE$\frac{1}{4}$) of Section Eleven (11), the Northwest Quarter (NW$\frac{1}{4}$) of Section Fourteen (14), the Southwest Quarter (SW$\frac{1}{4}$) of Section Fourteen (14), the Southeast Quarter (SE$\frac{1}{4}$) of Section Fourteen (14), and the Northwest Quarter (NW$\frac{1}{4}$) of Section Twenty-three (23), the Northeast Quarter (NE$\frac{1}{4}$) of Section Twenty-three (23), the Southwest Quarter (SW$\frac{1}{4}$) of Section Fourteen (14), the Southeast Quarter (SE$\frac{1}{4}$) of Section Fifteen (15), and the Northeast Quarter (NE$\frac{1}{4}$) of Section Fifteen (15), all in Township Forty (40) North, Range Forty-three (43), E.W.M., situate in the County of Pend Oreille, State of Washington, and known and recorded as follows:

Name	Recorded in Records of Pend Oreille County Mining Locations Volume	Page
Jenny Dee No. 1	3	72
Jenny Dee No. 3	3	73
Jenny Dee No. 4	3	74
Jenny Dee No. 5	3	75
Jenny Dee No. [illegible]	3	152
Snow Shoe	3	186
Snow Shoe No. 1	3	187
Snow Shoe No. 2	3	188

Together with all the dips, angles, spurs, and variations of said mining ground, claim, or lode in all and singular their hereditaments and appurtenances thereunto belonging.

To have and to hold the premises, with their appurtenances, unto the party of the second part, his successors, and assigns forever.

NOTE: The above described mining claims are unpatented mining claims and no transaction taxes are applicable.

IN WITNESS WHEREOF, we have signed the foregoing Deed this 28th day of February, 1956.

Merrell W. Ricker

Merrell W. Ricker

Dolly A. Ricker

Dolly A. Ricker (wife of Merrell W. Ricker)

Erwin P. Jones Sr.

Erwin P. Jones, Sr.

Aileen A. Jones

Aileen A. Jones (wife of Erwin P. Jones, Sr.)

Erwin P. Jones Jr.

Erwin P. Jones, Jr.

F. P. La Sota

F. P. La Sota

Winifred La Sota

Winifred La Sota (wife of F. P. La Sota)

Indexed ✓
Recorded ✓
88996 Verified ✓
Paged Out ✓

[illegible]

[illegible] instrum[illegible]

[illegible] Auditor [illegible]

[illegible]

on Feb. 29 1956

at 16 o'clock 20 min. A.[illegible]

at the request of

Jay R. Jones

and recorded in vol. 2 page 169

Book of Mtg. Deeds

Pend Oreille County, Washington.

Ruth H. Swanson

Auditor of Pend Oreille County

By Betty King

STATE OF WASHINGTON)
) ss.
County of Pend Oreille)

I, the undersigned, a Notary Public in and for the above named County and State, do hereby certify that on this 28th day of February, 1956, personally appeared before me Merrell W. Ricker, Dolly A. Ricker, (wife of Merrell W. Ricker), Erwin P. Jones, Sr., Aileen A. Jones (wife of Erwin P. Jones, Sr.), Erwin P. Jones, Jr., F. P. La Sota, Winifred La Sota (wife of F. P. La Sota), to me known to be the individuals described in and who executed the within instrument, and acknowledged that they signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

Day Day Jones

Notary Public in and for the State of Washington, residing at Newport.

Pend Oreille County, State of Washington
I hereby certify that the 1% excise tax on this instrument has been paid is exempt.
$ _____
Dated this 29 day of Feb. 1956
Attest Alice Beasley Treasurer
By Ruby Yonce Deputy

MINING DEED

THIS INDENTURE, made the 28th day of February, 1956, between the undersigned, the parties of the first part, and the La Sota-Jones Lead and Zinc Corporation, the party of the second part, witnesseth:

That Whereas, the La Sota-Jones Lead and Zinc Corporation has been duly incorporated under the Laws of the State of Washington, and it is intended by this instrument to transfer to the party of the second part all the right, title, and interest of the parties of the first part, which they and each of them have a claim in and to the mining ground and claim or lode and its appurtenances, hereinafter described;

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS, that the parties of the first part and each of them whose names are hereinto subscribed, in consideration of certificates of stock in said incorporated Company hereafter to be issued to them, their, and each of their heirs, and assigns, in conformity with the By-Laws of said Corporation heretofor adopted, do by these presents, grant, bargain, sell, transfer, remise, release, and quit claim unto the party of the second part, its successors, and assigns, all their and each of their right, interest, claim, and demand whatsoever, in law or equity, of, in, or to all certain mining ground, claim, or lode, situate, lying, and being in the upper Slate Creek area of the Metaline Mining District, to-wit:

The Southeast Quarter (SE¼) of the Southwest Quarter (SW¼) of Section Eleven (11), the Southwest Quarter (SW¼) of the Southeast Quarter (SE¼) of Section Eleven (11), the Northwest Quarter (NW¼) of Section Fourteen (14), the Southwest Quarter (SW¼) of Section Fourteen (14), the Southeast Quarter (SE¼) of Section Fourteen (14), and the Northwest Quarter (NW¼) of Section Twenty-three (23), the Northeast Quarter (NE¼) of Section Twenty-three (23), the Southwest Quarter (SW¼) of Section Fourteen (14), the Southeast Quarter (SE¼) of Section Fifteen (15), and the Northeast Quarter (NE¼) of Section Fifteen (15), all in Township Forty (40) North, Range Forty-three (43), E.W.M., situate in the County of Pend Oreille, State of Washington, and known and recorded as follows:

Name	Recorded in Records of Pend Oreille County Mining Locations Volume	Page
Firecracker	1	254
Silvia	1	2[illegible]
Silver Moon	1	25[illegible]
Iron Cap	1	2[illegible]
Iron Cap Fraction	1	23[illegible]
June Bug	1	237
Fourth of July	3	102
Silver Star	3	104
Grub Stake No. 1	3	258
Grub Stake No. 2	3	259
Grub Stake No. 3	3	260

Together with all the dips, angles, spurs, and variations of said mining ground, claim, or lode in all and singular their hereditaments and appurtenances thereunto belonging.

To have and to hold the premises, with their appurtenances, unto the party of the second part, his successors, and assigns forever.

NOTE: The above described mining claims are unpatented mining claims and no transaction taxes are applicable.

IN WITNESS WHEREOF, we have signed the foregoing Deed this 28th day of February, 1956.

F. P. La Sota

F. P. La Sota

Winifred La Sota

Winifred La Sota (wife of F. P. La Sota)

Erwin P. Jones

Erwin P. Jones

Aileen A. Jones

Aileen A. Jones (wife of Erwin P. Jones)

STATE OF WASHINGTON)
) ss.
County of Pend Oreille)

I, the undersigned, a Notary Public in and for the above named County and State, do hereby certify that on this 28th day of February,

88995

Indexed ✓
Recorded ✓
Verified ✓
Mailed Out ✓

[illegible] ss.

[illegible] Auditor

Feb. 29 1956

[illegible] 26 A.M.

[illegible]

Jay R. Jones

[illegible] 2 page 168

[illegible] Mary Neeley

[illegible] Auditor.

Keith H. Swanson

Auditor of said Benton County

Betty King

1956, personally appeared before me F. P. La Sota, Winifred La Sota (wife of F. P. La Sota), Erwin P. Jones, and Aileen A. Jones (wife of Erwin P. Jones), to me known to be the individuals described in and who executed the within instrument, and acknowledged that they signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above-written.

Jay Ray Jones

Notary Public in and for the State of Washington, residing at Newport.

Pend Oreille County, State of Washington
I hereby certify that the 1% excise tax on this instrument ~~has been paid~~ is exempt.
$ _____
Dated this 29 day of Feb. 1956
Attest Alice Beasley Treasurer
By Ruby Yonck Deputy

XXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

Dealett

August 16, 1956

Mr. F. P. LaSota
Metalline Falls,
Washington

Re: Docket No. DMEA-4090 (Zinc-Lead)
F. P. LaSota et al.
LaSota-James Property
Pend Oreille County, Washington

Dear Mr. LaSota:

Enclosed are the original and five copies of a proposed contract to explore the LaSota-James property in Pend Oreille County, Washington. If it meets with your approval, would you please have all the partners sign where indicated, retain that copy marked for the Operator, and return the rest to this office. However, if you should not be in accord with any of the contract terms please return all copies to this office with your comments.

Article 1 provides that work is to begin on or before October 1, 1956 and shall be completed within three months from the date of the contract or by November 13, 1956. Please inform us when you expect to commence work.

In a few days we will send you the Monthly Report forms and instructions for their preparation.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Kellum

RECEIVED
AUG 20 1956

File Copy
Surname
Griswold
Chambers
Martin
Kipman
Wittenberg

500

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

AUG 13 1956

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Zinc-Lead)
F. P. La Sota et al.
LaSota-Jones Property
Pend Oreille County, Washington

Dear Mr. Weissenborn:

With reference to your July 17 letter recommending the cited application, we are enclosing the original and five copies of a contract covering the proposed work, which have been signed by the Government. We are also enclosing two copies of Annex I, Exhibit "A", and the maps for the use of the Field Team.

If the contract meets with your approval, kindly present it to the Applicant for signature and distribute the copies in the usual manner. However, if you should not be in accord with any of the contract terms, and any proposed change should lie beyond your delegated authority, please return all copies to us, with your comments.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Enclosures

APPROVED:

FRANK D. LAMB
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

WRGriswold/er 8/9/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

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

500

August 10, 1956

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Contract for Docket No. DMEA-4090, F. P. LaSota et al., LaSota-Jones Property, Pend Oreille County, Washington, Lead-Zinc.

The attached is a small contract covering a small amount of drilling on the fringe of the Metaline Falls District.

The costs are not bad, considering the small footage involved. Other area contracts have been:

		Footage	Cost per foot
American Zinc	Idm-E301	18,000	$ 6.47
American Zinc	Idm-E76	20,000	6.00
Grandview	Idm-E587	3,000	7.00
Grandview	Idm-E605	5,200	7.00

any of holes

W. R. Griswold

File Copy
Surname

500

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

July 31, 1956

Memorandum to

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Preparation of contract for Docket No. DMEA-4090, F. P. La Sota, E. P. Jones, et al (Partners), La Sota-Jones property, Pend Oreille County, Washington

Will you kindly prepare a short form contract along the lines of the attached rough draft. The two maps mentioned in the draft will be sent to you as soon as possible.

W. R. GRISWOLD

Attachment

WRGriswold/bjl (7/31/56)

Copy to: Docket
Base Metals
Chron.

IN REPLY REFER TO:

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

July 25, 1956

RECEIVED
JUL 26 1956

Memorandum

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

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

Subject: Review of Field Examination report, DMEA 4090 (lead-zinc) F. P. La Sota, et al., La Sota-Jones property, Pend Oreille County, Washington.

The examining team recommends approval of DMEA participation in exploration on the subject property because, 1) an ore-host target composed of dolomitic rocks that contain replacement ore bodies elsewhere in the district underlies the property, 2) seven samples, taken from the area proposed for exploration, afforded assay values comparable to the grade of the ore mined in the Metaline district.

Success of an operation in the district, however, depends on the efficient handling of large tonnages of low grade ore. It may be argued that the proposed project has only a fair chance of discovering the required large tonnage. On the other hand, the modest drilling project of only five holes could very well find a considerably widened and thickened down-dip extension of the surface mineralization.

I concur with the examiners' and Field Team's recommendations for a DMEA contract to provide for the proposed work.

W. P. Williams

W. P. Williams

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

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JUL 24 1956

July 24, 1956

Re: Docket No. DMEA-4090 (Zinc-Lead)
F. P. La Sota et al
La Sota-Jones property
Pend Oreille County, Washington

Memorandum

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

From: Abbott Renick, Branch of Base Metals

Subject: Concurrence of Field Team Recommendation

The applicant proposed to diamond drill three or four holes totaling 750 feet in depth in Area A and four or five holes totaling 1,250 feet in depth in Area B, at a total estimated cost of $15,000.

As recommended by the examiners - "that the applicant be granted a DMEA contract to explore by diamond drilling the favorable ore showings on the June Bug and 4th of July claims."

The informative report of the examiners supports their recommendations and the recommendations of the Field Team is that a contract be approved to allow diamond drilling 1,500 feet of vertical holes from 5 stations, the size of the holes to be Ex or larger, at a total cost of $11,250 (Government's share $5,625).

I concur with the recommendation of the Field Team.

Abbott Renick

Abbott Renick

Copy to: Division of Minerals
R. W. Geehan
T. H. Kiilsgaard, Rm. 5224
O. M. Bishop
A. Renick
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

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JUL 20 1956

ON-SITE Report

July 17, 1956 Gruswold

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

Re: Docket No. DMEA-4090 (Zinc-Lead)
F. P. LaSota et al.
LaSota-Jones property
Pend Oreille County, Washington

Dear Mr. Selfridge:

Enclosed are four copies of a Field Examination Report on the subject docket by E. W. Parsons of the Bureau of Mines and James J. Quinlan of the Geological Survey.

The applicant partners propose to diamond drill three or four holes totaling 750 feet in depth in Area A and four or five holes totaling 1,250 feet in depth in Area B, at a total estimated cost of $15,000.

Parsons and Quinlan conclude that exploration in Area A is not warranted because the areal extent of favorable dolomitic host rocks is limited, the ore showings on the surface are small and erratic, and previous drilling in this area has proved discouraging. However, in Area B they conclude that ore showings exposed on the June Bug and 4th of July claims warrant exploration. They recommend a contract be approved to allow diamond drilling 1,500 feet of vertical holes from 5 stations, the size of the holes to be EX or larger, at a total cost of $11,250 (Government's share $5,625). The examiners point out that their proposed holes Nos. 3 and 4 are within 135 feet of the property boundary. The Field Team believes that should these holes encounter ore, there would be indicated some 400 feet of backs along the dip of the vein within the applicant's property. The examiners also point out that the applicant partners do not intend to develop or mine any ore that might be discovered, but will try to interest some third party in doing so. As this fact does not affect the merits of the property we concur with the recommendations of the examiners.

By Field Team, Region I, NW Dist.

Reviewed by
DMEA OPERATING COMMITTEE
7/25/56
(date)

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosure 1 (in quad.)

cc: USBM(2)
USGS(SRO)
Quinlan

RECEIVED
JUL 20 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

July 9, 1956

DMEA

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and James J. Quinlan, Geologist, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4090 (Zinc-Lead), F. P. LaSota et al., LaSota-Jones property, Pend Oreille County, Washington

INTRODUCTION

The LaSota-Jones property was examined by the writers on May 31, and June 1, 1956. Mr. F. P. LaSota accompanied the writers as the applicant's representative during the examination.

The LaSota-Jones property consists of 32 unpatented claims in the Upper Slate Creek area of the Metaline mining district. It adjoins the Lead Hill property which is considered to be a very promising property in the Upper Slate Creek area.

There are no buildings or underground mine workings on the LaSota-Jones property. Past exploration has consisted of digging pits and trenches and about 1,100 feet of diamond drilling to test favorable outcrops.

The important ore deposits of the Metaline district are replacement zinc-lead deposits. So far as known, the replacement bodies are confined to dolomitic rock of the Metaline formation (Cambrian age) less than 500 feet below the overlying Ledbetter slate (Ordovician age). Metaline dolomitic rocks of the type associated with replacement ore bodies underlie a considerable area in the vicinity of the LaSota-Jones property. The dolomitic rocks, however, are not so extensive on the LaSota-Jones property as at the neighboring Lead Hill property and it appears that the LaSota-Jones property can be considered as being on the margin of the large dolomitized area which forms the heart of the Lead Hill deposit.

Reviewed by
DMEA OPERATING COMMITTEE
7/25/56
(date)

The ore showings at Lead Hill are much better than those on the applicant's property. There is, however, one showing exposed on the applicant's June Bug and 4th of July claims which merits testing by a small diamond drilling project.

Recommendation

It is recommended that the applicant be granted a DMEA contract to explore by diamond drilling the favorable ore showings on the June Bug and 4th of July claims. Five vertical drill holes drilled on 100-foot centers to test the ore horizon from 150 feet to 200 feet down dip from the outcrop of the favorable ore showings are recommended. The location of these proposed holes is shown on plate 3 accompanying this memorandum. Note that holes 3 and 4 are probably within 135 feet of applicant's property line. On the basis of present available information it appears that individual holes will range from about 200 to 300 feet in length but to be on the safe side a total of 1,500 feet of drilling should be allowed for the project. The proposed holes should be of EX size or larger.

APPLICANT

The applicant is a partnership; members of the partnership are F. P. LaSota, E. P. Jones, Dolly Ricker, Nick Mondich, and J. P. Sullivan, all of Metaline Falls, Washington.

Partnership affairs are managed by F. P. LaSota and it would be he that would be charged with supervision of the project if a contract was granted. Mr. LaSota is an elderly gentleman who recently retired as postmaster at Metaline Falls. He has lived in the Metaline district for many years and has been actively interested in prospecting during most of his life. He has worked for a local mining company at various times, and has had some experience as a diamond driller. He is believed competent of supervising a small drilling project such as is recommended in this memorandum. Provision should be made, however, for a consulting engineer or geologist to assist Mr. LaSota in spotting the drill holes, logging core, and preparing the engineering and geologic reports as required by the contract.

The partners are prepared to provide their share of the cost for a small drilling project.

According to Mr. LaSota the partnership does not intend to mine the deposit should exploration prove successful. It is their hope that a little work will prove sufficiently encouraging to interest a large mining company in the property.

RECEIVED
JUL 20 1956

LOCATION AND ACCESSIBILITY

The LaSota-Jones group of claims lies about 10 miles northeast of Metaline Falls, Washington, in the Upper Slate Creek area of the Metaline mining district. The claims are in parts of secs. 11, 14, 15, 22, and 23, T. 40 N., R. 44 E., W.M., Pend Oreille County, Washington.

The LaSota-Jones property adjoins the Lead Hill property of the American Zinc Company. The Lead Hill property is considered the most promising property in the Upper Slate Creek area and the only one on which an appreciable amount of work has been done.

To get to the property from Metaline Falls, one goes north on Washington State Highway No. 6 for 7.4 miles to a point 0.2 of a mile beyond the Slate Creek bridge, then one turns right onto the Forest Service road leading up Slate Creek and follows this road for about 7 miles to the property. The areas which the applicant proposes to test are reached over a dozer road which leads to the left off the Slate Creek Forest Service road at the property (pl. 1). At the present time the Forest Service road is not kept open during the winter months and if the property was to be worked during the winter, provision would have to be made to plow the road from about November to the middle of May.

The terrain in the vicinity of the property is mountainous. The altitude ranges from about 4,000 feet on Slate Creek to about 5,400 feet in the vicinity of the Slate Creek Lookout (pl. 2). The mountain slopes are covered by heavy underbrush and in places thick timber.

The winters are severe, and the snowfall heavy.

Materials, equipment, supplies and manpower are available at Metaline Falls. Sufficient water for drilling purposes is available on the property. The nearest source of power is approximately 8 miles.

HISTORY

The deposits of the Upper Slate Creek area have been known for many years but little interest was shown in them until the early 1930's. The Bunker Hill and Sullivan Mining & Concentrating Company of Kellogg, Idaho undertook a moderate size exploration and development program at the Lead Hill property in 1931 and 1932 but no ore was produced as a result of this program.

Mr. LaSota became interested in the Upper Slate area in the early 1930's and it was at that time he located the first claims which now are a part of the LaSota-Jones property.

As far as known, the only production from the area is from the Lead Hill property. Some hand-sorted galena ore is reported to have been shipped in 1937. According to Mr. LaSota, the American Zinc Company mined ore from the property during the summers of 1953 and 1954; however, records on the grade and amount of ore mined during this period are not available.

PROPERTY

The applicant's property rights as set forth in Item 3 of the application consists of 32 unpatented quartz lode mining claims. These claims are reported to be owned by the applicant and are recorded at the Pend Oreille County courthouse in Newport, Washington. The claims and the book and page number in which they are recorded are listed below:

Claim	Book	Page
Lead Metal No. 1	3	105
" " " 2	3	106
" " " 3	3	107
" " " 4	3	108
" " " 5	3	109
" " " 6	3	110
" " " 7	3	111
" " " 8	3	112
" " " 9	3	113
Milwaukee	3	287
Last Chance	4	94
" " " 1	4	95
" " " 2	4	162
Jenny Dee " 1	3	72
" " " 3	3	73
" " " 4	3	74
" " " 5	3	75
" " " 6	3	152
Snow Shoe	3	186
" " " 1	3	187
" " " 2	3	188
Fire Cracker	1	254
Silvia	1	258
Silver Moon	1	259
Iron Cap	1	260
Iron Cap Fr.	1	286
June Bug	1	287
4th of July	3	102
Silver Star	3	104
Grub Stake No. 1	3	258
" " " 2	3	259
" " " 3	3	260

Admittedly any exploration program, if successful, will, in a general way, benefit the entire property. It does not appear appropriate in this case, however, to include all of the applicant's claims in a contract, considering the large number of claims, and the size and limited scope of the recommended program. Although the applicant is willing to include all 32 claims in a contract, in fairness it appears appropriate to include only the 12 claims in the immediate vicinity of the proposed project, i. e., June Bug, Silver Star, Milwaukee, Grub Stake No. 1, Grub Stake Fraction No. 2, Grub Stake Fraction No. 3, Silvia, Silver Moon, Iron Cap, Iron Cap Fraction, Firecracker, and 4th of July.

There are no buildings or underground workings on the property. Past work has consisted of digging pits and trenches and about 1,100 feet of diamond drilling to test favorable outcrops. In all, 8 diamond drill holes have been drilled, 7 holes on the Jennie Dee No. 1 claim and 1 on the June Bug claim.

GEOLOGY

The geology of the Metaline district is described by C. F. Park, Jr., and R. S. Cannon, Jr., in U. S. Geological Survey Professional Paper 202, Geology and Ore Deposits of the Metaline Quadrangle, Washington, 1953. The applicant's property is within that part of the Metaline district which the Geological Survey recently completed mapping on a scale of 1 inch to 500 feet. Although field work on this project has been completed a map showing the entire area is not yet available. A preliminary map of a part of the area mapped by this project was released as a Geological Survey Open File map (M. G. Dings, V. E. Nelson, Irving Gladstone and Adolf Pabst: Geologic map of parts of the Metaline and Slate Creek Districts, Pend Oreille County, Washington, 1953). This preliminary map shows the detailed geology for about the southern half of the applicant's property. Plate 2 attached has been adapted from this open file map and shows the geology in the vicinity of the applicant's property.

The geology of the neighboring Lead Hill property is described in Professional Paper 202, and by H. L. James and J. P. Albers in a Geological Survey Open File report, Zinc-Lead Deposits of the Lead Hill area on Slate Creek, Metaline District, Pend Oreille County, Washington, 1944. Much of the geology in these two reports is applicable to the LaSota-Jones property as the nature of the ore occurrence on both properties is similar. The important ore deposits of the Metaline district are replacement zinc-lead deposits. So far as known, the replacement ore bodies are confined to dolomitic rocks of the Metaline limestone (Cambrian age), less than 500 feet below the overlying Ledbetter slate (Ordovician age). Dings believes that the ore-bearing dolomites are of hydrothermal origin. In mapping, Dings and his crew distinguish two types of altered dolomitic rock associated with the replacement bodies: one is a strongly silicified jasperoidal dolomite, the other a medium to dark-gray dolomite (pl. 2). The replacement bodies generally occur along minor breaks and in crackle breccia zones in the hanging wall blocks of large normal faults. Sphalerite and galena are the principal ore minerals.

The principal mines of the district are in the Pend Oreille Valley near Metaline Falls. In recent years the average grade of the ore mined at these properties has been about 5 percent combined zinc and lead. The success of any operation depends in large part on the efficient handling of large tonnages of low-grade ore.

The deposits in the Upper Slate Creek area are similar to the ones near Metaline Falls. The Lead Hill property appears to be the most promising in the Upper Slate Creek area and the only one on which any appreciable amount of work has been done.

The known ore occurrences at Lead Hill and the LaSota-Jones properties are in dolomitic rocks of the upper part of the Metaline limestone in the hanging wall (northwest) block of the Lead Hill fault (pl. 2). The Lead Hill fault strikes about N. 45° E. and dips 80° SE. Rocks of the Ledbetter slate crop out southeast of the fault and according to James and Albers the minimum vertical displacement on the fault is over 2,000 feet. Thus, the fault marks the southeastern boundary of the area that it is practicable to test for replacement ore bodies as the horizon at the top of the Metaline limestone in which replacement ore bodies occur would be at far too great a depth southeast of the fault to consider testing it under present conditions.

It will be noted on plate 2 that much of the Metaline limestone in the vicinity of the Lead Hill and LaSota-Jones properties is dolomite of the types associated with replacement ore bodies. It will be noted, however, that the dolomitization is not as widespread on the LaSota-Jones property as at Lead Hill and it appears that in general the LaSota-Jones property can be considered as being on the margin of the large dolomitized area which forms the heart of the Lead Hill deposit. According to James and Albers the ore bodies at Lead Hill are essentially blanket form and roughly parallel to the bedding of the enclosing dolomites which strike northeast and dip 25°-35° SE. At Lead Hill and the area immediately to the southwest on the applicant's property most of the topographic slopes are about 30 degrees in the direction of the dip of the bedding. James and Albers also point out that in the northern (northeastern) and central parts of Lead Hill the ore occurs in a cherty dolomite bed, whereas in the southern (southwestern) area the ore occurs in a calcite-bearing dolomite bed which is stratigraphically below the cherty dolomite. James and Albers also point out that the zinc-lead showing continues for about half a mile south (southwest) of the Lead Hill property but, in general, appears to be of lower grade. This area to the southwest is a part of the area covered by the applicant's claims.

At the time of the examination of the LaSota-Jones property the Lead Hill property was also examined briefly. The zinc-lead showings at Lead Hill in general are much better than those on the applicant's property. The writers were also impressed by the fact that recent stoping operations at Lead Hill appear to follow zones of cross fractures within certain favorable horizons.

According to Mr. LaSota, and as far as it is known, there are only two areas on the LaSota-Jones property in which there are zinc-lead showings; these are designated as Areas A (on Jennie Dee No. 1 claim) and B (on the June Bug and 4th of July claims) on plate 2.

In Area A galena and sphalerite lenses occur in dark gray strongly silicified dolomitic rocks. The silicification appears to be of limited extent (pl. 2). Dolomitization is much more widespread and the dolomitic rocks are similar to the gray dolomites in which ore occurs elsewhere in the district. The ore lenses in this outcrop appear small, erratic, and not too numerous. In detail the lenses appear to be controlled by small cross fractures of random orientation. A sample 2.7 feet wide, across the largest and best lens, 2.7 feet by 9 feet, assayed 0.3 ounce of silver; 11.7 percent lead, of which 2.9 percent is oxide; and 1.0 percent zinc, of which 0.6 percent is oxide. The applicant has drilled seven diamond drill holes in the vicinity of the outcrop; however, only two of the seven holes are reported to have encountered any lead or zinc minerals whatsoever, and the showings in each hole are insignificant. One hole was drilled on a bearing of N. 26° E. at an inclination of -47° for 161 feet from a point just below the outcrop. Minor amounts of disseminated ore minerals were noted between 96 and 97 feet, between 113.5 and 114 feet, and at 120 feet. The other hole was drilled from the same setup on a bearing of N. 24° W. and at an inclination of -60° for 34 feet. No visible lead or zinc minerals were noted in the core, but Mr. LaSota reports that the sludge between 18 and 34 feet assayed 2.0 percent combined lead and zinc.

It will be noted on plate 2 that the area of dolomitic rocks, favorable for replacement bodies, which is contained within the applicant's property in Area A, is limited.

In Area B disseminated lead and zinc minerals occur in a number of outcrops and hand-excavated trenches for a distance of about 250 feet along the strike of a thick, gray, dolomite unit (pl. 3). It is difficult to recognize bedding within this thick unit but shale partings in one of the trenches strike N. 60° E. and dip 55° SE. On the basis of available information it is difficult to determine if the ore body represented in outcrops and trenches is a tabular body or a series of lenses within the thick dolomite unit. At several places, but not all, west- to northwest-striking 70°-76° north-dipping fractures occur in the immediate vicinity of the ore showings. On the basis of available information it is not possible to say whether or not these fractures are a local ore control but it is possible that they are. Most of the ore showing in the outcrops and trenches is oxidized.

A diamond drill hole has been drilled from the trench in which the farthest northeast showing of the disseminated ore is exposed (pl. 3). This hole was drilled on a bearing of S. 20° E., and at an inclination of -40° which is approximately down the dip of the beds. According to Mr. LaSota, this hole was drilled by the Bunker Hill and Sullivan Mining & Concentrating Company in the early 1930's and the hole was in ore for the first 110 feet.

Seven samples were taken at four places in Area B. The sample locations and assay results are shown on plate 3 and tabulated below.

Sample no.	Width (feet)	Silver oz.	Lead %	Oxide lead %	Zinc %	Oxide zinc %
L-1 (FW of outcrop)	8.4	0.1	0.7	0.3	5.73	5.56
L-1a (HW of outcrop)	8.4	0.02	0.5	0.25	4.93	4.15
L-2 (FW of outcrop)	5.6	0.05	0.4	0.15	5.94	5.11
L-2a (Center zone)	7.6	0.05	0.4	0.25	10.67	10.09
L-2b (HW of outcrop)	9.5	0.1	0.7	0.3	5.94	5.48
L-3	4.2	0.1	2.3	1.6	6.04	5.28
L-4	10.0	0.1	2.2	1.5	4.53	4.00

The grade of the ore indicated by these samples is comparable to the grade of the ore mined in the Metaline district.

EVALUATION OF APPLICANT'S PROPOSAL

The applicant proposes a small diamond drilling project to test the ore showings in Areas A and B.

The applicant proposes to drill three or four holes from one setup in Area A to test the area in the vicinity of the ore showings. The map accompanying the application shows three proposed holes in this area; the three proposed holes are to be drilled, respectively, on bearings of N. 76° W., N. 27° W., and N. 23° E., and each at an angle of -60°. The applicant estimates that a total of 750 feet of drilling will be required to test this area adequately.

All factors considered, it is evident that DMEA participation in drilling in Area A is not warranted. The ore showings in Area A are small, erratic, and not particularly impressive. The areal extent of dolomitic rocks favorable for replacement bodies within the applicant's claims in Area A is rather limited. Previous drilling by the applicant in this area has proved discouraging. As a matter of fact, one of the proposed holes would be drilled within a few feet of, and practically parallel to, a hole previously drilled.

The applicant proposes to drill four or five holes in Area B. These holes are to be drilled from stations along the road immediately above the ore showing (pl. 3). The map accompanying the application shows five proposed holes on 100-foot centers in this area. Each of the five proposed holes is to be drilled on a bearing of N. 38° W. and at an angle of -60°. The applicant estimates that 1,250 feet of drilling will be required to complete these five holes.

It is believed that the ore showings in Area B are sufficiently encouraging to warrant a limited drilling project such as proposed by the applicant. It is recommended, however, that vertical holes be drilled instead of inclined holes as proposed by the applicant. Admittedly, the inclined holes would give a better intersection with the beds but because of the slope of the hill they would cut the bed at very shallow depths (sections 1 and 2, plate 3). Vertical holes will permit intersection at a depth from about 150 to 200 feet down dip from the outcrops. The locations of the proposed holes are shown on plate 3. In all, five holes on 100-foot centers are proposed. Considering the meager information available on the dip of the bedding, it is difficult to determine accurately the length of individual holes. Assuming a 55° dip of the beds, individual holes will range in length from 200 to 300 feet, but to be on the safe side a total of 1,500 feet of drilling should be allowed to complete the project.

Proposed hole No. 1 has been laid out, on the basis of available information, so as to intersect the ore horizon in the vicinity of its intersection with one of the westerly striking northward-dipping cross fractures (section 1, plate 3).

Most of the drilling on the property in the past has been EX size and the core recovery is reported to be satisfactory. Considering this, it appears that EX size holes are adequate and in preparing the contract the size of the hole stipulated should be EX or larger.

ESTIMATED COSTS

A summary of the applicant's proposed exploration showing costs is given below:

4 or 5 diamond drill holes on the June Bug claim	1,250 feet
3 or 4 diamond drill holes on the Jennie Dee No. 1 claim	750 feet
Total drilling	2,000 feet

Estimates of costs for 2,000 feet of hole:

	Cost/foot
Accounting, Medical aid, Indust. Insur., Social Security	$0.45
Diamond bit wear	1.10
Gas and oil	.66
Water pumping and installation	.33
Repair and replacement	.25
Assaying and engineering	.37
Moving and installation	.32
Operating labor	4.00
	$7.50/foot

2,000 feet at $7.50/foot $15,000.00

Operating equipment owned by applicant:

	Value
Diamond drill	$1,800.00
800 ft. EX and AX rods & casing	1,200.00
1 gas pump and 1 air pump	600.00
1,000 ft. pipe and fittings	400.00
Diamond bits, core barrels, tools, etc.	1,200.00
1 air compressor, 310 cfm	2,500.00
Total value	$ 7,700.00

The applicant also owns a Jeep truck which will be used on the project.

The recommended project is to consist of 1,500 feet of diamond drilling on the June Bug and 4th of July claims, with 30 samples of core assayed for lead and zinc as oxide and for total lead and zinc. The holes are to be size EX or larger. Weather permitting, this program could be completed in 4 months.

Details of DMEA diamond drilling contracts performed in the Metaline Falls district and pertinent to the present application are as follows:

Company	Contract No.	Year	Footage	Total cost/foot
American Zinc	E301	1952-53	18,000	$6.47
American Zinc	E76	1951-52	20,000	6.00
Grandview Mines	E587	1953-54	3,000	7.00
Grandview Mines	E605	1953-54	5,200	7.00

The total cost submitted by the applicant is $7.50 per foot of hole. This cost seems reasonable and proper in view of diamond drilling previously done in the district and will be used to estimate the total cost of the project.

It appears that in preparing a contract it would be appropriate to break down the drilling cost as follows:

	Cost per foot	Total
Actual drilling and related costs	$7.06+	$10,595.00
Engineering & geologic services	.33	500.00
Assaying (30 samples @ $5.50/sample)	.11	165.00
Grand Total - 1,500 feet at	$7.50	$11,250.00
Government share at 50 percent		$ 5,625.00

There is to be no rehabilitation, new buildings, contingencies, or other costs connected with the contract.

Enclosures 3

Distribution:

DMEA (4); USBM (5); USGS(SRO); Docket; Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Gerald
Betty

RECEIVED
MAY 25 1956

May 23, 1956

Docket

Mr. F. P. La Sota

Metaline Falls, Wash.

Re: Docket No. DMEA-~~4099~~ 4090 (Lead-Zinc)
La Sota-Jones Property
Pend Oreille County, Washington

Dear Mr. La Sota:

I am glad that the snow is finally going off. We may be able to schedule an examination sometime during the week of May 27; we will call you and arrange a definite day.

Sincerely yours,

Verne C. Fryklund, Jr.
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

cc: DMEA (2) w/incoming
USBM (2)
Quinlan

Metaline Falls, Wash.
May 18, 1956

RECEIVED
MAY 25 1956

U S Geoligical Survey
South 157 Howard St
Spokane 4, Wash.

Re; Docket No. DMEA-4090
Lead Zinc-F. P. La Sota et al
La Sota-Jones Property

Dear Mr Weissenborn

In about four or five days what snow there is should be nearly off., the snow on the East side outcrop was off for some time there are patches of snow on the West side of the hill and on some of the outcrops, but in a few days it should be off enough to make examination.

We had some washouts and slides on our road and patched it up enough to get through with jeeps. If you shud come in a car I can take you up in my jeep pickup, If posible please advise me a day or two before you come.

Respectfully,

F. P. La Sota

US BM
DMEA

Metaline Falls, Washington
April 13 1956

RECEIVED
APR 23 1956

Docket

Betty

U S Geological Survey
South 157 Howard St
Spokane 4, Washington
Attention Mr. A. E. Weissenborn

Re: Docket No. DMEA-4090
Lead Zinc- F. P. LaSota et al
LaSota-Jones property
Pend Oreille County, Washington

Dear Mr. Weissenborn:

I have your letter of April 11 regarding snow run off. My judgment is it will be from three to four weeks before the present snow cover will be off enough to make examination. The snow is two feet deep at 3000 feet. The elevation of our property is 4500.

I will keep you advised.

Respectfully,

F. P. LaSota

F. P. LaSota

RECEIVED
APR 16 1956
U.S.G.S.
SPOKANE, WASH

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 16 1956

April 11, 1956

Greenwald
Atty

Docket

Mr. F. P. LaSota
Metaline Falls
Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
F. P. LaSota, et al.
LaSota - Jones property
Pend Oreille County, Washington

Dear Mr. LaSota:

As spring is nearly here we wish to remind you that we are awaiting word from you before scheduling an examination of your property. Because we have a large number of properties to examine as soon as weather and snow cover permits, we would like to schedule examinations at lower altitudes as soon as practicable.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

cc: DMEA (2)
USBM (2)
Quinlan

Metaline Falls, Wash.
Dec 30th 1955

RECEIVED
JAN 16 1956
Betty

Re: Docket No. DMEA 4090 (leag-zinc)
F. F. La Sota
La Sota-Jones mine
Pend Oreille County, Wash.

Docket

Gentlemen;

I have your letter of Dec 28th regarding the accessability of property and surface exposures,

At present there is several feet of snow on the ground, and it will depend on the Spring run off usualy the snow is off about the last part of April or first part of May, I will advise you when the property will be accessable for examination.

Respectfully,

F F La Sota

DMEA

RECEIVED
JAN 3 1956
U. S. G. S.
SPOKANE, WASH

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

So. 157 Howard Street
Spokane 4, Washington

RECEIVED JAN 6 1956

Gentlemen
Betty

December 28, 1955

Docket

Mr. F. P. La Sota
Metaline Falls
Washington

Re: Docket No. DMEA 4090 (lead-zinc)
F. P. La Sota, et al
La Sota-Jones Mine
Pend Oreille County, Wash.

Dear Mr. La Sota:

We have been asked by our Washington office to make an examination of your property. Please inform us when the surface exposures are accessible and we can then make a definite arrangement for an examination.

Sincerely yours,

Verne C. Fryklund, Jr.
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Reg. I, NW Dist.

cc: DMEA (2)
USBM (2)
Kellum

File Copy
Surname

500

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

DEC 21 1955

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
P. P. La Sota, et al
La Sota-Jones Mine
Pend Oreille County, Washington

Dear Mr. Weissenborn:

Referring to the cited application, we are enclosing copies of memorandum's dated December 12 and December 15, 1955, by N. E. Nelson, USGS, and O. M. Bishop, USBM, respectively, giving their recommendations.

You will note that a field examination is approved. However, we understand that such an examination cannot be made until climatic conditions are favorable.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WRGriswold/bjl (12/20/55)

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

File Copy
Surname
Griswold
Geehan
Kiilsgaard
Selfridge
Feldman

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

DEC 21 1955

Mr. F. P. La Sota
Metaline Falls, Washington

Re: Docket No. DMEA-4090 (Lead-Zinc)
F. P. La Sota, et al
La Sota-Jones Mine
Pend Oreille County, Washington

Dear Mr. La Sota:

The application of your partnership for Government assistance to explore its property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration and has been referred for a field examination to:

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

The Regional Office will contact you as to when an examination is to be made, but such a date, of course, must be governed by snow conditions. Any assistance that you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WRGriswold/bjl 12/20/55

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Kiilsgaard
Region I (2)
Chron.

R.G.S.

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

December 15, 1955

Re: DMEA-4090 (Lead, zinc; $15,000)
F. P. La Sota, et al
La Sota - Jones Mine
Slate Creek Area,
Metaline Mining District
Pend Oreille County, Washington

Memorandum

To: W. R. Griswold, DMEA

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

Subject: Application of November 21, 1955, received in Washington Office December 9, 1955

The applicants are partners in the ownership of a group of 32 unpatented mining claims, 14 miles northeast of Metaline Falls, Washington. Exploration to date has consisted principally of stripping, trenching and 800 feet of diamond drilling on an "ore-bearing bed" which outcrops on the Jenny Dee No. 1 Claim. There has apparently been no production in the past and the applicant gives no factual information on the results of the exploration program to date.

He proposes to drill 3 or 4 more diamond drill holes to explore the mineralized formation exposed on the Jenny Dee No. 1 Claim. He further plans to drill 4 or 5 holes to explore an ore-bearing bed on the June Bug Claim.

Drilling outlined in the application totals 2,000 feet and it is estimated at a cost of $7.50 per foot or a total project cost of $15,000. No provision is made for costs of sampling, surveying and reporting.

I note that the field team letter of December 8, 1955, transmitting the application, indicates an examination will be made when snow conditions permit. At that time, the field examiners will doubtless check the outcrop areas to determine if geologic conditions warrant Government participation and whether the program is satisfactory or should be modified to be acceptable.

O. M. Bishop

O. M. Bishop

Copy to - Division of Minerals
Branch of Base Metals
Mr. Kiilsgaard, Rm. 5222
Mr. Geehan, Rm. 3608
O. M. Bishop
Files

IN REPLY REFER TO:

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

RECEIVED
DEC 12 1955

December 12, 1955

Griswold

Re: DMEA 4090
F. P. La Sota, et al.
La Sota claims
Pend Oreille Co., Wash.
$15,000.00 - Lead, Zinc

Memorandum

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

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

Subject: Review of application.

The applicant requests aid in diamond drilling 2,000 feet at two locations to explore the 'most promising surface showing' in the Metaline area.

Drilling, 800 feet, and stripping have been done, but no information other than the above opinion is given in support of the application.

The Executive Officer considers an examination warranted and with that opinion I concur.

N. E. Nelson

N. E. Nelson

December 9, 1955
Subject: DMEA-4090
Re: Exploration Assistance
La Sota & Jones

Mr. F. P. La Sota
Metaline Falls, Washington

My dear Mr. La Sota:

The receipt of your application dated November 21, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4090 and referred to the Base 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

60932

December 9, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region I NW

From: Chief, Operation's Control and Statistics Division

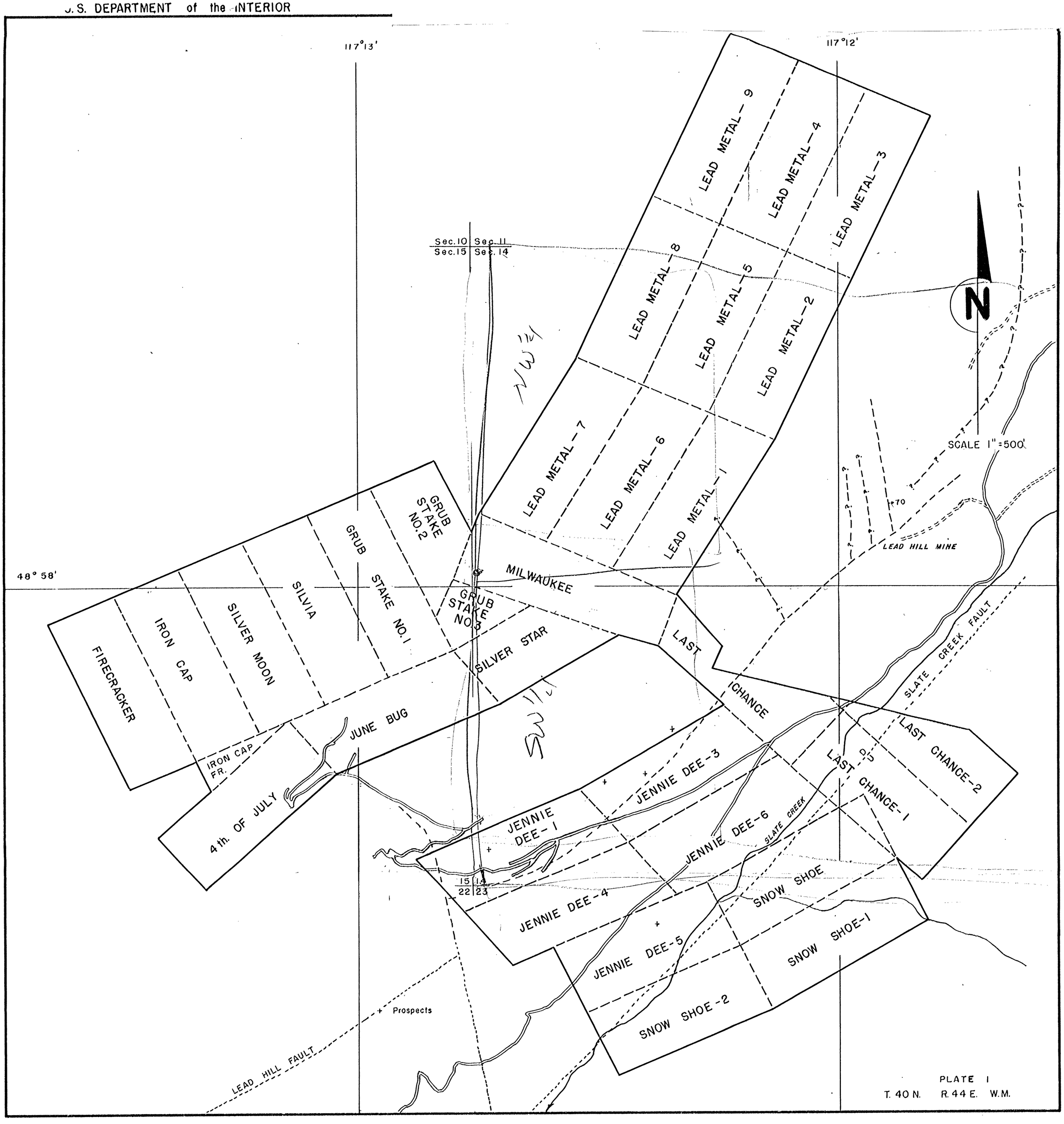
Subject: Assignment of Docket Number

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

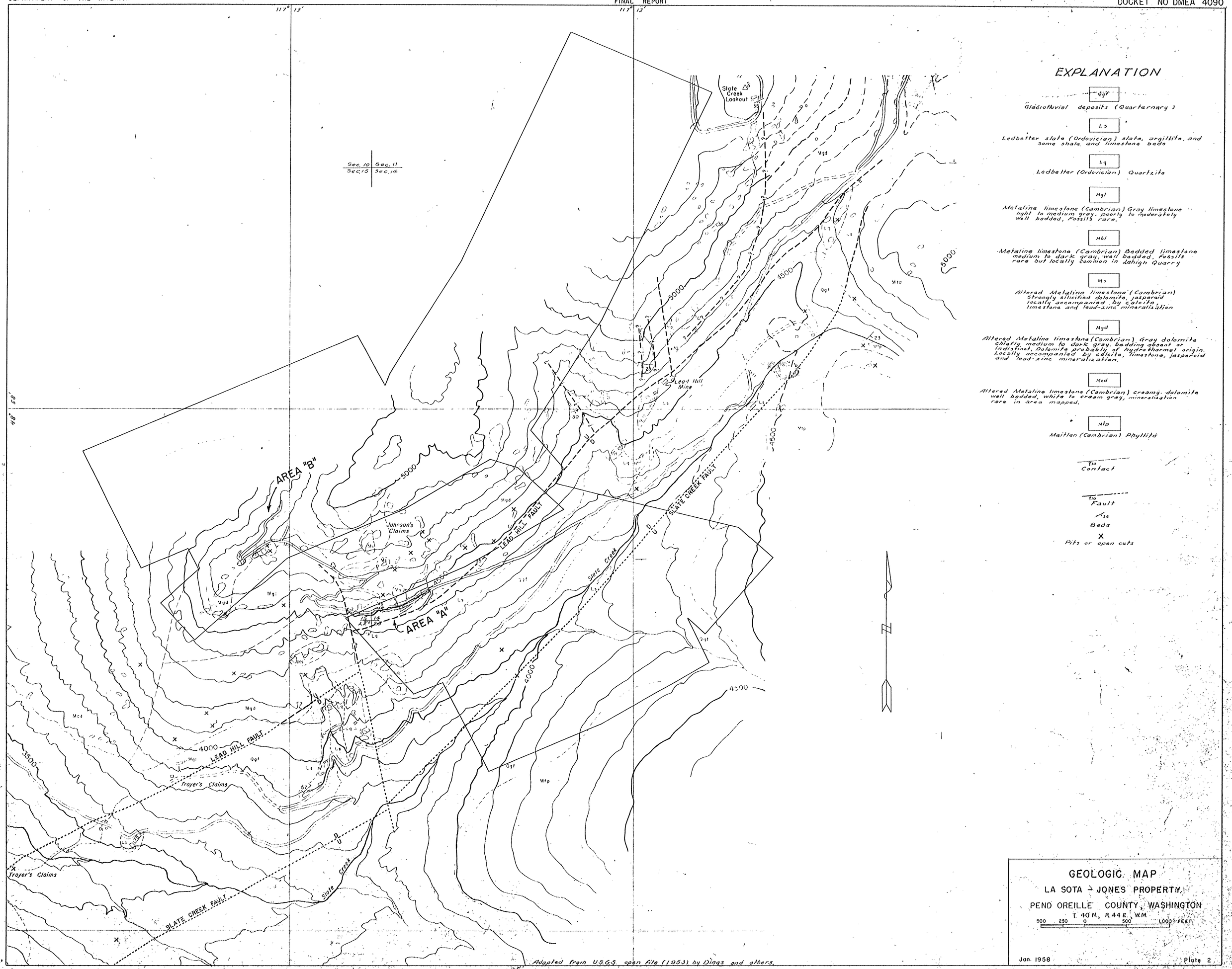
DMEA - 4090 F. P. La Sota, et al

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

U.S. DEPARTMENT of the INTERIOR



UPPER SLATE CREEK, PEND OREILLE COUNTY, WASHINGTON — LA SOTA & JONES (Owners)



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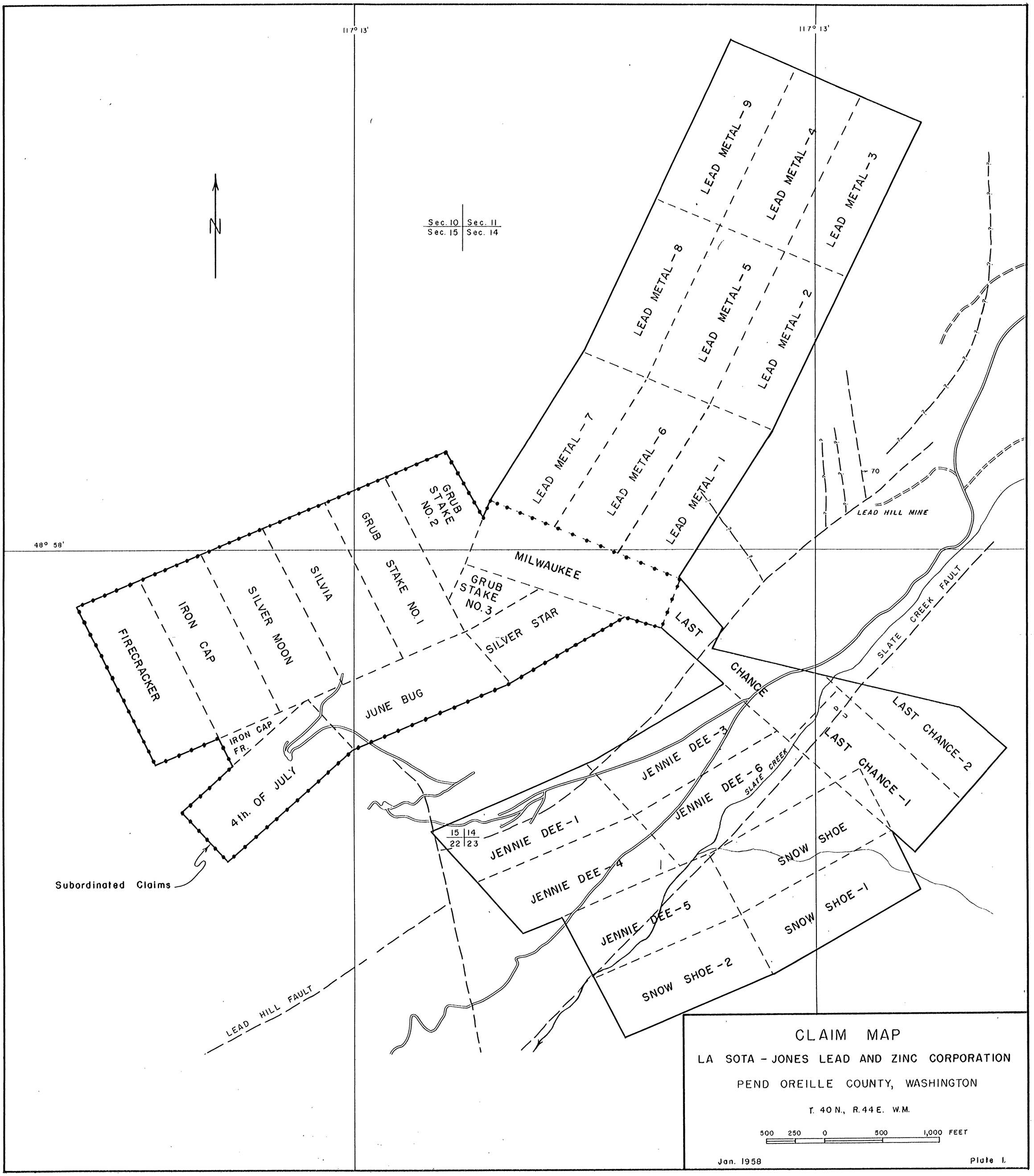
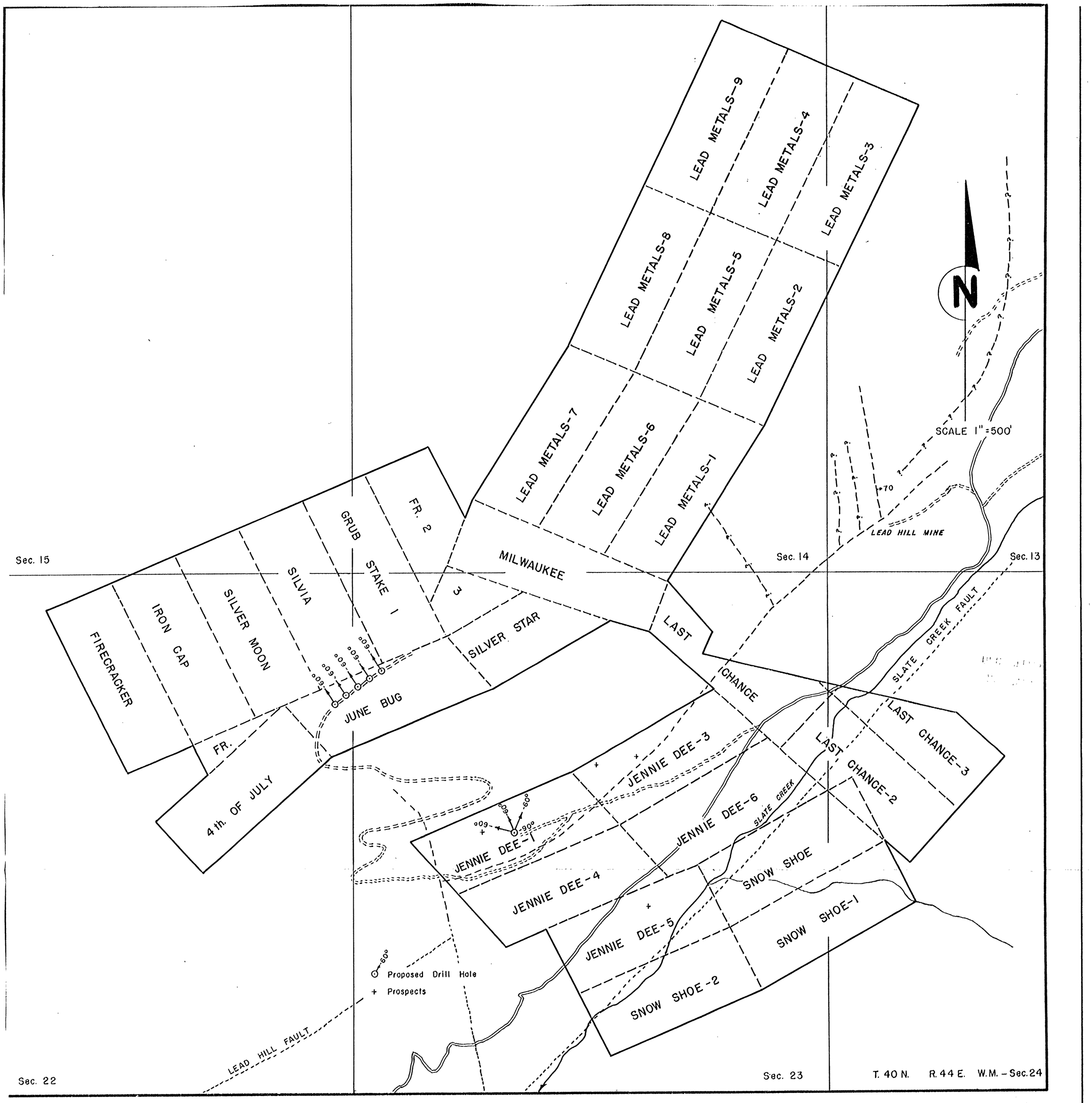
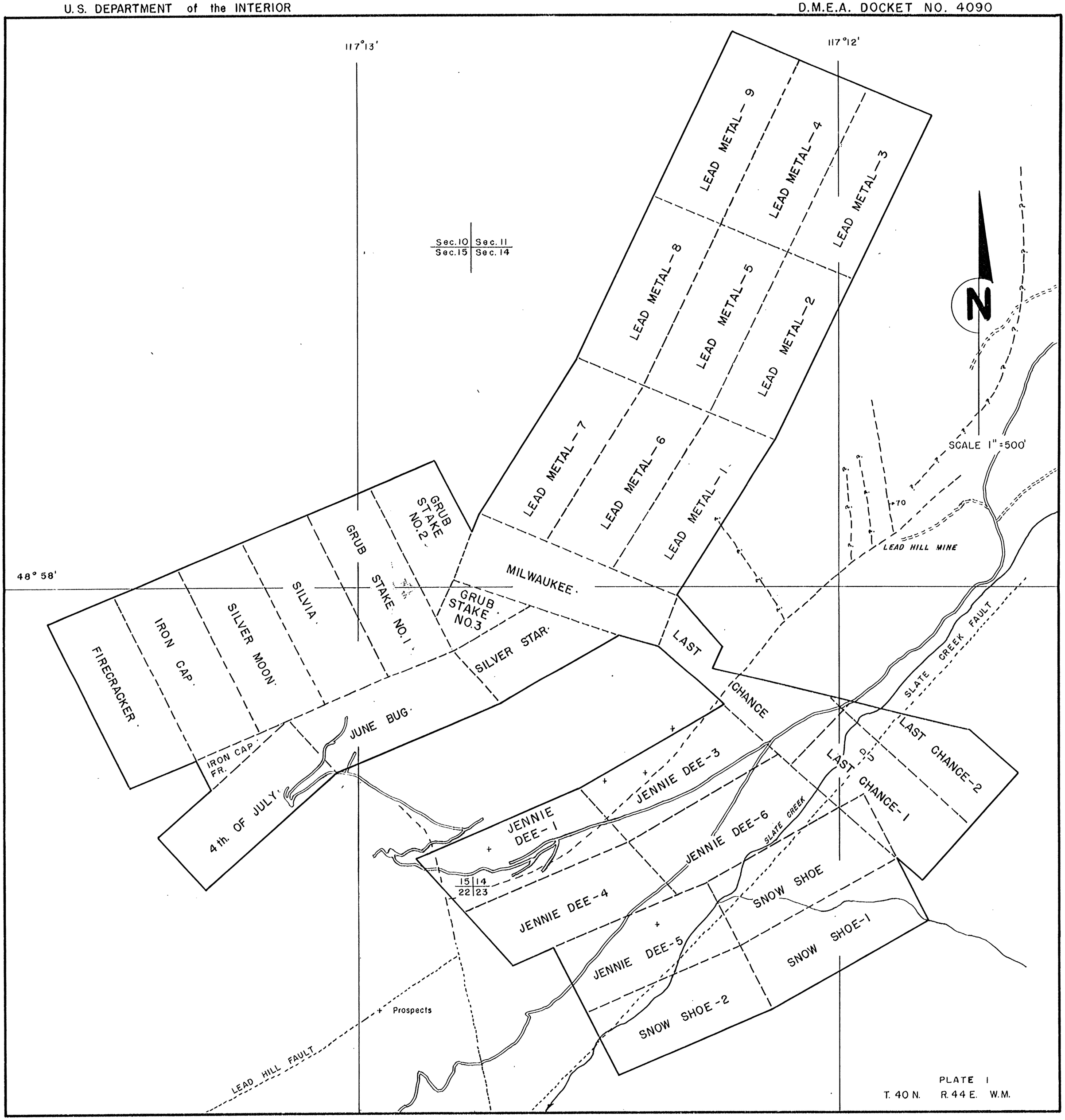

117° 13'
117° 13'
48° 58'
N
Sec. 10 | Sec. 11
Sec. 15 | Sec. 14
LEAD METAL-9
LEAD METAL-4
LEAD METAL-3
LEAD METAL-8
LEAD METAL-5
LEAD METAL-2
LEAD METAL-7
LEAD METAL-6
LEAD METAL-1
70
LEAD HILL MINE
GRUB STAKE NO.2
GRUB STAKE NO.1
GRUB STAKE NO.3
MILWAUKEE
SILVER STAR
SILVIA
SILVER MOON
IRON CAP
FIRECRACKER
IRON CAP FR.
JUNE BUG
4th. OF JULY
LAST CHANCE
SLATE CREEK FAULT
LAST CHANCE-2
LAST CHANCE-1
JENNIE DEE-3
JENNIE DEE-6
SLATE CREEK
JENNIE DEE-1
15 | 14
22 | 23
JENNIE DEE-4
SNOW SHOE
SNOW SHOE-1
JENNIE DEE-5
SNOW SHOE-2
Subordinated Claims
LEAD HILL FAULT
CLAIM MAP
LA SOTA - JONES LEAD AND ZINC CORPORATION
PEND OREILLE COUNTY, WASHINGTON
T. 40 N., R. 44 E. W.M.
500 250 0 500 1,000 FEET
Jan. 1958
Plate I.



UPPER SLATE CREEK, PEND OREILLE COUNTY, WASHINGTON — LA SOTA & JONES (Owners)

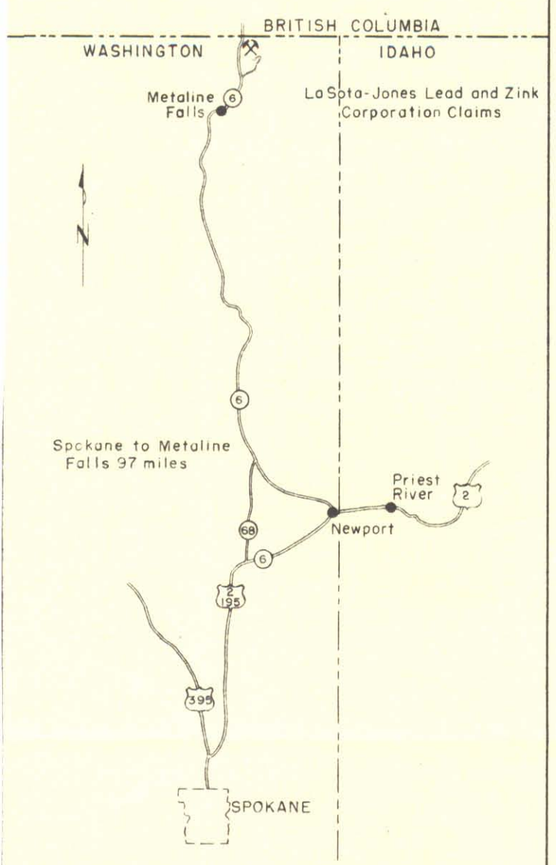


UPPER SLATE CREEK, PEND OREILLE COUNTY, WASHINGTON — LA SOTA & JONES (Owners)

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION (More work)

DOCKET NO. DMEA 4090



LOCATION MAP, LASOTA-JONES LEAD AND ZINK CORPORATION CLAIMS

117° 13'

N

Sec 10 | Sec 11
Sec 15 | Sec 14

48° 58'

LEAD METAL-9
LEAD METAL-4
LEAD METAL-3
LEAD METAL-8
LEAD METAL-5
LEAD METAL-2
LEAD METAL-7
LEAD METAL-6
LEAD METAL-1

LEAD HILL MINE

Lead Hill Fault

SLATE CREEK FAULT

GRUB STAKE NO. 2
GRUB STAKE NO. 1
GRUB STAKE NO. 3
MILWAUKEE
SILVER STAR
SILVIA
SILVER MOON
IRON CAP
FIRECRACKER
JUNE BUG
IRON CAP FR.
4th. OF JULY
LAST CHANCE
LAST CHANCE-2
LAST CHANCE-1

Mineral bearing outcrop

Cm

JENNY DEE-3
JENNY DEE-6
SLATE CREEK
JENNY DEE-1
JENNY DEE-4
JENNY DEE-5
SNOW SHOE
SNOW SHOE-1
SNOW SHOE-2

15 | 14
22 | 23

Subordinated Claims under program completed in 1957

EXPLANATION

Cm Metaline limestone of Cambrian age

Ol Ledbetter slate of Ordovician age

U/D Fault showing relative displacement, dashed where inferred

Area of proposed drilling

Proposed drill hole

LEAD HILL FAULT

GEOLOGIC AND CLAIM MAP SHOWING PROPOSED DRILL HOLES

LA SOTA - JONES LEAD AND ZINC CORPORATION

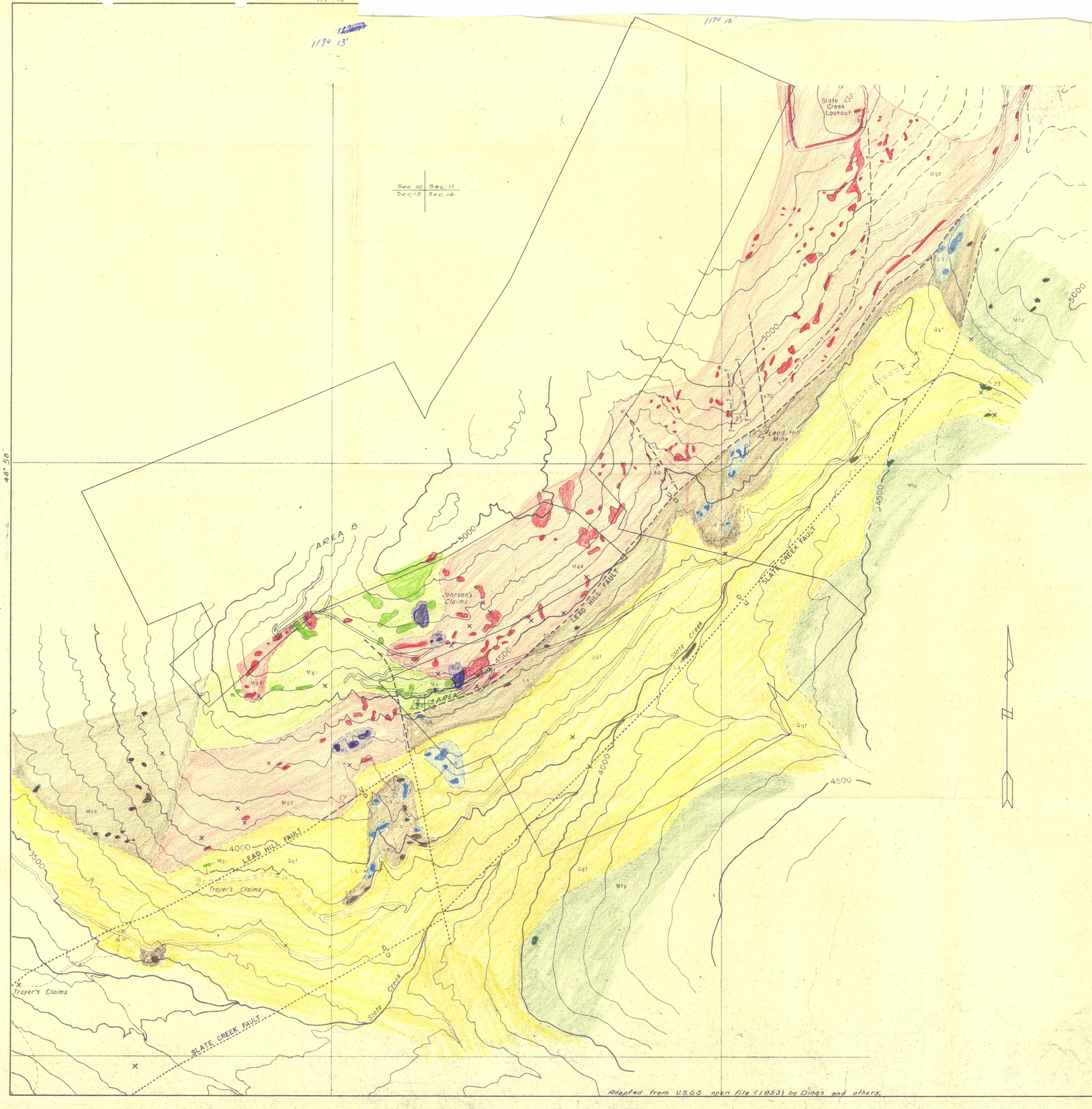
PEND OREILLE COUNTY, WASHINGTON

T 40 N, R 44 E. W.M.

500 250 0 500 1,000 FEET

MAY 1958

Plate 1



EXPLANATION

Qgf — Glaciofluvial deposits (Quarternary)

Ls — Ledbetter slate (Ordovician) slate, argillite, and some shale and limestone beds

Lq — Ledbetter (Ordovician) Quartzite

Mgl — Metaline limestone (Cambrian) Gray limestone light to medium gray, poorly to moderately well bedded; Fossils rare.

Mbl — Metaline limestone (Cambrian) Bedded limestone medium to dark gray, well bedded, fossils rare but locally common in Lehigh Quarry

Ms — Altered Metaline limestone (Cambrian) Strongly silicified dolomite, jasperoid locally accompanied by calcite, limestone and lead-zinc mineralization

Mgd — Altered Metaline limestone (Cambrian) Gray dolomite chiefly medium to dark gray, bedding absent or indistinct, Dolomite probably of hydrothermal origin. Locally accompanied by calcite, limestone, jasperoid and lead-zinc mineralization.

Mcd — Altered Metaline limestone (Cambrian) creamy dolomite well bedded, white to cream gray, mineralization rare in area mapped.

Mtp — Maitlen (Cambrian) Phyllite

Contact

Fault

Beds

Pits or open cuts

Adapted from U.S.G.S. open file (1953) by Dings and others.

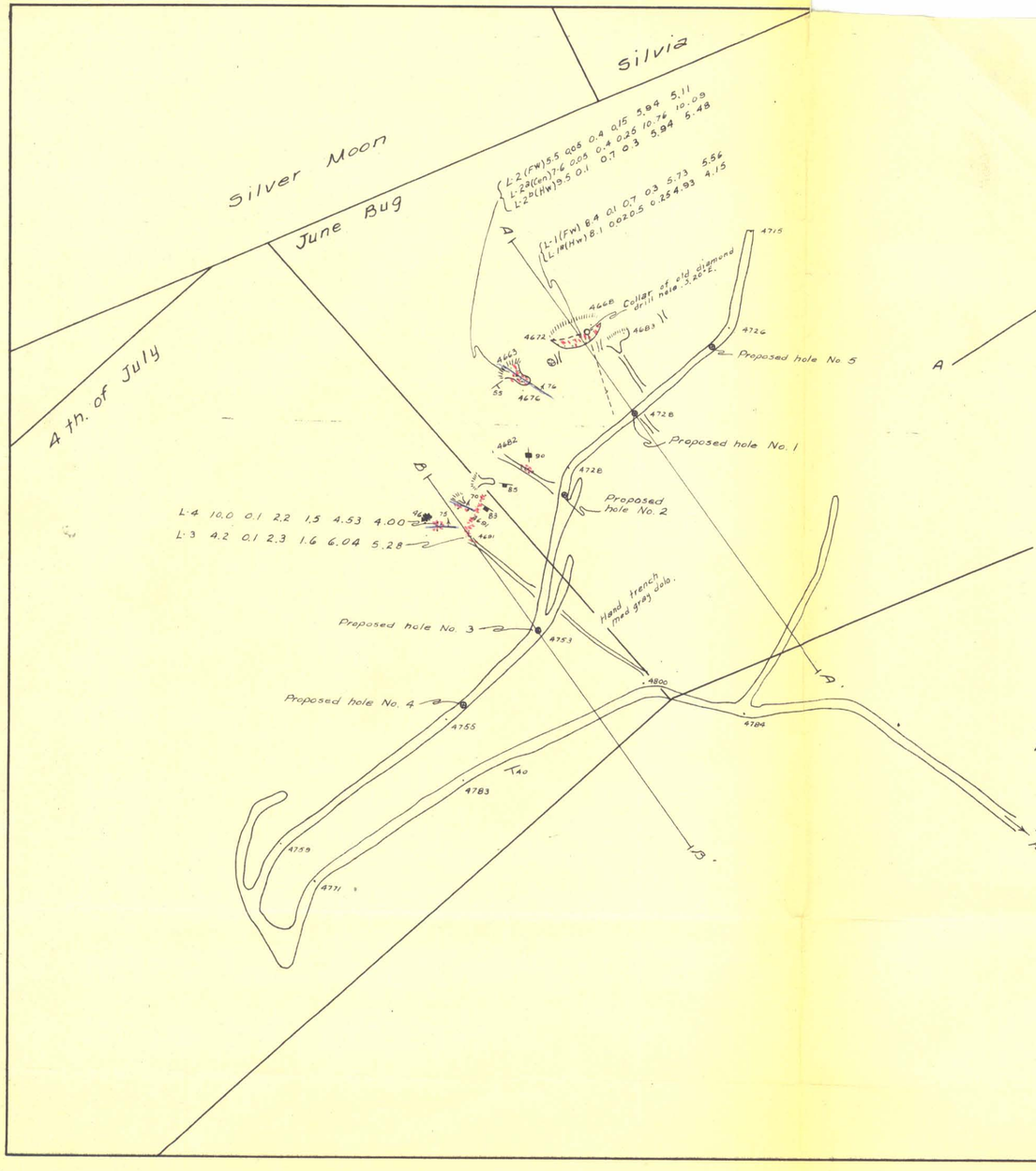
GEOLOGIC MAP

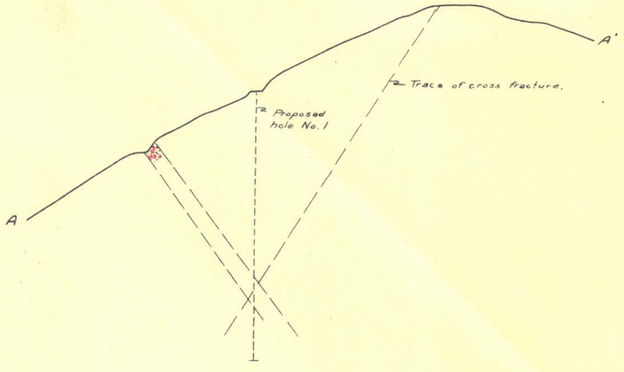
LA SOTA - JONES PROPERTY

PEND OREILLE COUNTY, WASHINGTON

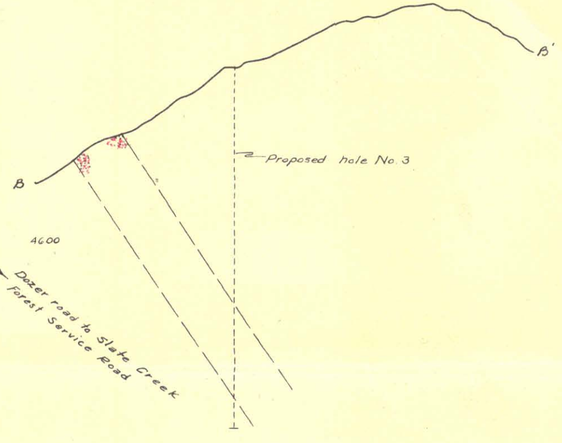
SCALE 1" = 500'

PLATE 2





Diagrammatic cross-section A-A'



Diagrammatic cross-section B-B'

EXPLANATION

Metaline limestone

Disseminated zinc and lead minerals in med. gray dolomite

Shear planes

Beds

Joints

Survey station showing elevation

Pits and trenches

Diamond drill hole

Proposed diamond drill hole

Sample No.	Width Feet	Ag oz	Pb %	Pb as oxide %	Zn. %	Zn as oxide %
L-1(FW)	8.4	0.1	0.7	0.3	5.73	5.56

SKETCH MAP OF AREA — B

LA SOTA - JONES PROPERTY

PEND OREILLE COUNTY, WASHINGTON

SCALE 1" = 100'

PLATE 3