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Mining properties in Idaho that were involved in the DMA, DMEA,  
or OME Mineral Exploration Programs, 1950-1974

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**PLATE 1. MAP SHOWING LOCATION OF MINING PROPERTIES IN IDAHO THAT WERE INVOLVED IN THE DMA, DMEA, OR OME MINERAL EXPLORATION PROGRAMS. (PLATE 1 IS NOT AVAILABLE IN A DIGITAL FORMAT)**

**TABLE 1. MINING PROPERTIES IN IDAHO THAT WERE INVOLVED IN THE DMA, DMEA, OR OME MINERAL EXPLORATION PROGRAMS.....11**

## **Introduction**

This report and accompanying map (Plate 1) presents information on the Defense Minerals Administration (DMA), Defense Minerals Exploration Administration (DMEA), and Office of Minerals Exploration (OME) mineral exploration programs in Idaho. Under these programs, the federal government participated in the exploration costs for certain strategic and critical minerals. Federal funds for mineral exploration under the programs were available from 1950 to 1974, although limited funds for OME administrative work were continued until 1979. Federal consideration for exploration at a particular property was initiated by submittal of an application for financial assistance by the owner or operator of the property. Each application received was assigned a docket number and all subsequent correspondence and information resulting from the application was filed under that docket number.

The report reviews the three programs and some of the associated regulations and procedures. It also describes the various types of information generated by the programs, presents information on mining properties in Idaho that were involved in the exploration programs, and advises on location of compiled mineral exploration information that resulted from the work.

## **Defense Production Act programs**

The Defense Production Act of 1950 (Public Law 774, 81<sup>st</sup> Congress) provided financial assistance to private enterprise for the production of goods and services necessary for national security. Title III, Section 302 of the Defense Production Act, provided for encouragement of exploration, development, and mining of critical and strategic metals and minerals. Under provisions of the Act, the Secretary of the Department of the Interior, established the Defense Minerals Administration, within the Department, by a Secretarial Order dated December 4, 1950. Along with other duties, the Defense Minerals Administration was to serve as a direct contracting agency for minerals exploration.

### ***Defense Minerals Administration (DMA) program***

The DMA program was administered at National Headquarters, Department of the Interior building, Washington D.C., by a small group of senior mining engineers and geologists, recruited from the minerals industry. These men were widely experienced in mineral exploration and mine development.

The headquarters group developed guidelines, forms, and operational procedures for the government-supported (DMA) minerals exploration program. They prepared pamphlets that described the DMA program, identified minerals classified as strategic and critical, advised on the percentages of exploration costs the government would pay on exploration for the minerals. They developed application forms for use in seeking federal financial assistance in strategic and critical mineral exploration contracts and

contract forms for use in those cases where an application was approved and a mineral exploration contract was negotiated between the applicant and the federal government.

DMA officials relied on Field Teams composed of U.S. Geological Survey (USGS) geologists and U.S. Bureau of Mines (USBM) engineers for all field work. The United States was divided into regions, with different USGS-USBM Field Teams responsible for appropriate field investigations in the different regions. Regional headquarters for Field Team work in Montana, Idaho, Oregon, and Washington was the U.S. Geological Survey Field Office in Spokane, Washington.

The initial step of an applicant seeking Federal mineral exploration aid was submittal of an application. The application required description of the real property to be involved in the proposed exploration, and description of the proposed exploration work. Description of geologic features of the property to be explored also was required, along with an explanation of the type of ore deposit being sought, and reasons for expecting the proposed work to result in the discovery of a significant ore body. Also required were maps and cross sections of the prospective property showing location of the proposed work, existing mine workings, related geologic features, and property boundaries with respect to location of the proposed exploration workings. Many applications contained supporting geologic or engineering reports, assay maps and cross sections showing grades and thickness of known parts of the deposit, and other descriptive information.

Upon receipt of an application, DMA officials would request that a field examination of the proposed exploration site be made by the appropriate USGS-USBM Field Team, and that a report covering the field examination be submitted to DMA. If the field team application examination report was favorable, DMA usually entered into an exploration contract with the applicant, who, thereafter, was identified as the contract operator. The contract specified the work to be done, the time frame in which the work was to be done, the amount of exploration costs to be paid by the government, and other pertinent data.

The exploration contract also obligated certain responsibilities to the contract operator. These included submittal of monthly progress reports, which were used by the government to justify payment of the government's share of exploration costs for work completed during the reporting period. A final report was required upon completion of the exploration project. This report was supposed to cover all aspects of the exploration project, including accomplishments, costs, and findings. The contract operator also was obligated to repay the government for its share of the exploration costs from a fixed percentage of funds derived from the sale of ore that might be mined from the obligated property during the life of the exploration contract. In the event a significant quantity of ore was found by the exploratory project, and the government decided the exploration project had been successful and could be certified as a significant discovery, the government issued a Certificate of Possible Production to the contract operator, under which a specified royalty was to be paid to the government on mineral production from the obligated property. The obligated royalty rate varied according to terms of the Certificate of Possible Production but commonly was 5 percent of the net smelter returns

on processed ore, and was for a specified period of time, commonly for 10 years from the date of the contract, or until the government's share of exploration costs had been repaid, whichever occurred first. If no discovery was made, repayment was not required and the contract operator was notified that the government had no lien on the obligated property. The contract operator was not obligated to mine any ore found by contract work, nor was the government obligated to purchase any mineral material found by contract work..

DMA was a short-lived program that was terminated on November 20, 1951.

### ***Defense Minerals Exploration Administration (DMEA) program***

The previously described Defense Minerals Administration program was concerned with aspects in the minerals field other than mineral exploration. These other aspects included, serving as a claimant agency for materials and facilities, as an advisory agency responsible for a minerals supply expansion program, and as an allocation program for ores and concentrates in short supply. The various aspects, other than mineral exploration, were transferred to the Defense Materials Procurement Agency (DMPA), General Services Administration, on November 20, 1951. As a means of continuing the mineral exploration program started under DMA, the Secretary of the Department of the Interior established the DMEA program within the department, effective November 20, 1951.

The DMEA program was confined to exploration of critical and strategic minerals and was administered by the same personnel who had formerly administered the DMA program. It operated from the same national headquarters site. The DMEA program was responsible for processing all exploration applications received under the DMA program and for completing exploration contracts started under the DMA program. Some DMA exploration contracts were revised and subsequently executed as DMEA contracts. DMEA also issued Certificates of Possible Production to DMA contracts, if, in the opinion of the government, production was likely to result from the successful exploration. In rare instances the government issued a royally obligation to a DMA or DMEA exploration contract operator that was similar to a Certificate of Possible Production, but which was issued to ensure repayment to the government for its expenditures on work at a particular uncompleted contract. An example would be a contract where exploration work gave good indications of a possible mineral discovery and possible benefit to the obligated property, but where exploration was terminated by the contract operator short of actual discovery. Another instance might be where enough contract exploration work was done to be of definite benefit to the obligated property, but where contract work was terminated by the operator before completion of work specified in the exploration contract. The DMEA program utilized the same USGS-USBM Field Team arrangement, and operated more or less under the same regulations, practices, and procedures that had been established by DMA. It was a much more extensive program than DMA and continued until 1958, when it was terminated.

## **Mineral Exploration under Public Law 85-701**

Government-supported mineral exploration under the Defense Production Act of 1950 was not considered justifiable in 1958, as defense needs of mineral supplies were considered to have been met. It was recognized, however, that there continued to be a need for mineral raw materials to meet an expanding national economy. To meet this need, Congress, on August 21, 1958, enacted Public Law 85-701, under which governmental financial assistance, on a participating basis, was available to private industry for stimulation of exploration of such raw materials as might be designated by the Secretary of the Department of the Interior. Under this law, the Secretary of the Department of the Interior established the Office of Minerals Exploration program on September 11, 1958.

### ***Office of Minerals Exploration (OME) program***

The OME program was similar to the previous DMA and DMEA programs but more restrictive. It was operated under the same administrative offices and utilized the same USGS-USBM Field Team arrangement as did the previous DMA and DMEA programs. It adhered, more or less, to the practices, regulations and procedures that had been established under the two preceding programs. One change in the OME program was allowance of participating funds for the exploration of certain minerals and metals, including gold and silver, that had not been allowed under the previous programs. Funds for the government-supported mineral exploration program came from annual appropriations to the Department of the Interior.

To economize on costs, all administrative and operating responsibilities of the OME program were transferred to the USGS in 1965. Thereafter, all field functions previously handled by the USGS-USBM Field Team were performed by USGS personnel. Funds allocated to the USGS for participation in OME mineral exploration projects were terminated in 1974, although limited administrative funds continued to be received by the USGS until 1979. These administrative funds covered costs of such work as closing out existing exploration contracts, preparation of final reports on completed contracts, and continued review and audit of royalty funds received from the sale of ore mined from deposits that had been found by the government-supported exploration projects, certified as discoveries by the government, and issued Certificates of Possible Production. A change in regulations concerning acquisition of federal assistance in financing exploration for mineral reserves in the United States, its territories and possessions became effective on January 19, 1993 (Federal Register, vol. 57, no. 243, December 17, 1992). The change in regulations terminated the OME program.

### **Filing practices for DMA, DMEA, and OME data**

Applications for financial assistance in mineral exploration were sent either directly to national headquarters, Department of the Interior, Washington D.C., or else to USGS-USBM Field Team headquarters of the region in which the property to be explored was

located. Applications received at a Field Team headquarters were forwarded to the national headquarters in Washington D.C. At national headquarters, applications were filed under individual docket numbers, which subsequently were used by both national headquarters and the field team as a means of cataloguing and identifying the particular application or property. All correspondence and information resulting from an application or from an exploration contract that may have resulted from the application was filed under the same docket number. The national headquarters file, in effect, became the master file for all compiled information resulting from the application. Copies of much compiled information on applications and on exploration contracts that resulted from the applications also commonly were filed at the Field Team headquarters office in the region where the concerned properties were located. For applications that concerned properties in Idaho, the Field Team regional headquarters was in Spokane, Washington.

After 1965, when OME activities were consolidated under the USGS, OME applications were sent either to the OME office of the USGS in Washington D.C., or to field offices of the USGS in Knoxville, Tennessee, Denver, Colorado, Menlo Park, California, or Spokane, Washington, depending on the location of the applicant's property.

### **Information compiled under the DMA, DMEA, or OME programs**

A variety of technical information was generated by the DMA, DMEA, and OME programs. Property and proposed work descriptions together with geologic and analytical information on the target to be explored were submitted with the initial application. Such information commonly was accompanied by unpublished supporting technical reports or production records on the property. Operators of active exploration contracts were obligated by contract terms to submit monthly progress reports that described work that had been completed. Exploration contracts also obligated contract operators to submit final reports on completed projects. These final reports described exploration work that was done, costs, problems, and findings. The USGS-USBM Field Team wrote application reports that covered initial field investigation of the proposed exploration project, interim reports that covered field investigations of active exploration projects, and final reports that covered accomplishments and findings of completed contracts. After administrative responsibilities for the OME program were transmitted to the USGS in 1965, all reports formerly written by the USGS-USBM Field Team were written by the USGS personnel.

#### ***Field Team Application Report***

Applications for financial assistance in Idaho, once received at national headquarters, Department of the Interior, Washington D.C., were transmitted to the regional office in Spokane, with the request that a Field Team examination be made of the applicant's property and proposal, and that an application report on the examination be prepared and submitted to the national headquarters office. The Field Team application report

investigated all factors concerned with the applicant's proposal. Principal attention was given to the geology of the exploration target and to whether the proposed work had a reasonable chance of resulting in a significant discovery. The applicant's maps and illustrative material were examined at the project site and compared with the local geology. If the maps were found to be inadequate, new maps or other illustrative material were prepared by the Field Team. Samples were taken at the applicant's property and assayed to check sample values reported by the applicant. The location of the proposed work, with respect to existing mine workings and to mining claim or property boundaries was examined as were documents pertaining to the applicant's rights to the property in question. The estimated costs, time schedule, equipment to be used, and operating experience of the applicant or the applicant's supervisor were considered. The proposed work was carefully studied to see if it presented the most logical way of exploring the mineralized target. Modifications of the proposed work often were discussed with the applicant and commonly were adopted.

The Field Team application report, in effect, evaluated the applicant's proposal and the geologic probability of the proposed work resulting in a significant discovery. It provided a basis for the national headquarters decision on whether to approve or deny an application. For applications that subsequently were denied, the application report commonly represented the best-documented source of geologic information on the concerned property.

### ***Exploration contract***

An approved application usually resulted in an exploration contract between the federal government and the applicant. The contract was designed to do the work proposed in the application, or that of a modified exploration plan jointly approved by the applicant and the government. Under the contract, the government agreed to participate in the costs of completed work on a prorated basis and for a fixed amount. The contract obligated the contract operator to prepare and submit certain reports. The Field Team also prepared reports that dealt with the exploratory work done by the contract operator.

## **Reports from exploration contract operators**

### **Monthly progress report**

An exploration contract obligated the contract operator to submit a monthly progress report that described exploration work accomplished and costs that had been incurred during the reporting period. Payment to the operator, for the government's share of exploration costs incurred during the reporting period, was based on these monthly progress reports, which usually were brief and factual. Occasionally, the operator would request an amendment to the contract and would use the monthly progress report to justify the request. For example, the exploration work might have uncovered evidence that indicated the exploration target should be changed, in which case the operator would use the monthly progress report, along with accompanying maps or geologic sections, to



illustrate his reasons for requesting the change. In such instances, the monthly progress report might constitute the only documented information for an amended change in the exploration project.

### Final report

An exploration contract stipulated that the contract operator submit a final report upon completion of contract work. This report reviewed exploration accomplishments, problems encountered, findings, and costs. It usually contained maps and geologic sections to illustrate what had been done and found. In instances where a significant mineral discovery was made, the report commonly presented estimates of the tonnage and grade of ore reserves found. Final reports on unsuccessful contracts usually were brief and non informative.

## **Field Team reports**

### Interim reports

Interim reports by the USGS-USBM Field Team, and, after 1965, by the USGS, were based on routine field investigations of a property being explored under an exploration contract. The purpose of the investigations was to see that exploration work was being done in conformance to contract specifications. Some interim reports, particularly those that described amended changes in contract specifications, often contained assay information and sketches of the geologic findings.

### Final report

A final report by the USGS-USBM Field Team, and, after 1965, by the USGS, described and summarized accomplishments of the exploration contract. The report reviewed the geologic setting of the deposit, geologic structures that controlled the ore body, the mineralogy, and alteration features of the deposit or associated wallrock. It presented information on tonnage and grade of discovered ore reserves, using the contract operator's data, where acceptable, otherwise it presented Field Team calculations, based on contract findings, and supported those figures with maps and assay data. It discussed geologic guides to ore, where they had been determined, additional targets that warranted exploration, or commonly expressed the conclusion that further government-supported exploration of the exploratory target was not warranted. Geologic maps and cross sections commonly were included, as were maps showing location of the completed work with respect to property boundaries. The report included a description of completed work and a summary of costs of the project. It recommended a Certification of Possible Production when appropriate, or noted the existence of an already declared royalty obligation, should one have been declared previously. Also discussed was whether the government should participate in the funding of further exploration work at the property. The Field Team final report was comprehensive and contained most of the available compiled information on the explored deposit.

## Mineral exploration in Idaho

The location of mineralized properties in Idaho, for which applications for DMA, DMEA, or OME mineral exploration assistance were received, is shown on the enclosed map (Plate 1). Property locations are shown by county, in appropriate townships, and in approximate sections. Property names, location and other information also are shown in Table 1, the information based largely on material available in the USGS files at Spokane, Washington, prior to 1996. Applications that did not result in exploration contracts are shown on the map by a set of open symbols that differ slightly from the partly filled symbols that mark the sites of properties that received exploration contracts. Exploration contracts that resulted in significant mineral discoveries, and for which Certificates of Possible Production were issued, or which, because of contract amendment stipulated royalty obligations on ore mined from the obligated property, are shown by similar shaped but solid symbols. All symbols are keyed to the program under which the application was filed. A number near the property symbol on the map keys the property to Table 1. Many property locations shown on the map are only approximate and are based on indefinite information. Topographic maps of usable scale, and covering the location of many applicant properties, were not available in parts of Idaho when much of government-supported exploration work was done. For properties in such areas, USGS-USBM Field Team members commonly used the applicant's description of the property location. Such location descriptions may have referred to a site as a certain distance from a town or from a road or stream junction. As these distances commonly were measured in miles, the map locations, in terms of section, range, and township were indefinite. The use of existing location data and present (1997) USGS topographic maps and U.S. Forest Service maps, has helped to identify the location of properties listed in Table 1 more accurately..

The density of mining properties in parts of Shoshone County makes the showing of numbered property locations on the 1:1,000,000 scale map (Plate 1) difficult. To avoid map clutter, three of the townships in the county are shown at an expanded size immediately east of the Idaho boundary. Appropriate property location symbols and map numbers are shown in the expanded townships.

Table 1 lists the docket number under which all material pertaining to the exploration application was filed, the name of the applicant, the property or claim name, strategic and critical minerals of the property, and the location of the property by section, township and range. The map number shown on the right side of the table corresponds to the map number near the property location shown by symbol on the map (Plate 1). The symbol shown on the map, at a located site, identifies the type of program that was concerned, whether the application resulted in an exploration contract, and whether exploration done under the contract was successful and the property subsequently covered by a Certificate of Possible Production or was obligated to repayment of the government's share of contract expenses by contract amendment.

Table 1 shows that more than one application was filed on many properties. In such instances, the property is identified on the map by the symbol and number applicable to the initial application, whether it was filed under the DMA, DMEA, or OME program. This is for map clarification, for more than one symbol or map number at the same site would be confusing. For properties on which more than one application was filed, Table 1 lists the docket numbers, supporting information applicable to the successive applications, and, in the status column shows the application status attained. For example, an application that was denied by the government or withdrawn by the applicant is shown in the status column as an Application, whereas an application that was approved and for which a contract was negotiated is shown as a Contract in the status column. Contracts under which a Certificate of Possible Production was issued, or which for other reasons obligated the property to repay the government for its share of funds spent on the exploration contract are shown on the status column as Certified Contracts.

Successive applications on a single property resulted from different reasons. The original application may have proposed an exploration plan that was not acceptable to the government and consequently was denied. The original application may have classified the property as a lead-zinc deposit, when production statistics and geological data showed the deposit to have been worked primarily for gold and silver, which did not qualify for federal financial assistance under the DMA and DMEA programs, but did under the OME program. An application on a property may have been denied, but the property then came under control of different people, or another organization, which subsequently filed a revised application on the property. In another instance, exploration under a DMA, DMEA, or OME contract may have indicated another target on the same property that also warranted exploration. This determination could have resulted in a separate application and subsequent exploration contract.

## **Location of compiled DMA, DMEA, and OME data**

In 1996, compiled DMA, DMEA, and OME files, covering all government-supported mineral exploration work done in the United States, were located in archive storage at the USGS Field Office, Post Office Building, 904 W. Riverside, Spokane, Washington. Prior to 1996, the Spokane files of the USGS contained only information generated by the exploration programs in the states of Montana, Idaho, Washington, and Oregon. In 1996, however, the national headquarters master files, which previously had been stored at the National Records Center, Suitland, Maryland, had been transferred to the USGS field office at Spokane, Washington, as had USGS files on DMA, DMEA, and OME business that formerly had been stored at Denver, Colorado, or at Herndon, Virginia.

Information at the Spokane office, on properties involved in the DMA, DMEA, or OME programs, can be made available, upon request, provided the requesting person presents a letter from the property owner authorizing release of the information. With the

letter of authorization on hand, reports, maps, or other information requested is sent to a private reproduction firm, where the requested material is reproduced at the expense of the requesting individual. The reproduced material is sent to the requesting individual and the original material is returned to the USGS storage file.

Table 1--Mining properties in Idaho that were involved in the DMA, DMEA, or OME mineral exploration programs

<u>Docket No.--Operator</u>	<u>Property-Commodity</u>	<u>Location</u>	<u>Map No. or Status</u>
<u>ADAMS COUNTY</u>			
DMA-863 Paul Van Arsdale	River Queen mine (copper)	Sec. 22, T. 20 N., R. 4 W.	163
DMEA-2116 Walter W. Turnipseed	Granite Queen property (copper)	Sec. 18, T. 16 N., R. 2 E.	164
DMEA-2684 Roy Scriver	Stevens claims (tungsten)	Sec. 24, T. 21 N., R.3 W.	295
<u>BANNOCK COUNTY</u>			
DMEA-1789 J.R. Simplot	Manganese prospect (manganese)	Sec. 22, T. 9 S., R. 38 E.	287
DMEA-3109 J. R. Simplot	Vanza mine (manganese)	Sec. 27, T. 9 S., R. 38 E.	288
DMEA-1716 J.R. Simplot	Manganese prospect (manganese)	Sec. 31, T. 12 S. R. 41E.	289
<u>BENEWAH COUNTY</u>			
DMEA-1604 Robert P. Hyde	Iron ore deposit (iron)	Sec. 18, T. 45 N., R. 1 W.	64
<u>BEAR LAKE COUNTY</u>			
DMEA-2076 L. Berrett and E. Ricks	Berrett & Ricks prospect (copper-lead)	Sec. 1, T. 14 S., R. 42 E.	292
DMEA-4830 Ruby Co.	Bloomington Canyon (selenium)	Sec. 21, T. 14 S., R. 43 E.	293
DMEA-2008 Wasatch Mining & Development Co.	Worm Creek prospect (manganese)	Sec. 5, T. 15 S., R. 43 E.	294
<u>BLAINE COUNTY</u>			
OME-6293 Sullivan and Parke	Atlanta, et al., claims (silver)	Sec. 1, T. 6 N., R. 13 E.	230
OME-6176 L.L. Phillips, et al.	Ruby Silver claims (silver)	Sec. 10, T. 6 N., R. 13 E.	231

BLAINE COUNTY-Continued

DMEA-4091 A. L. Freese	Ura group (tungsten)	Secs. 4 and 9, T. 6 N., R. 14 E.	232
DMA-1538 F. C. Osmers	Even Chance claim (antimony)	Sec. 20, T. 6 N., R. 14 E.	233
DMA-1881 C.E. Briniger	Even Chance claim (antimony)	Sec. 20, T. 6 N., R. 14 E.	Application
DMEA-2417 C.E. Briniger	Even Chance claim (antimony)	Sec. 20, T. 6 N., R. 14 E.	Application
OME-6610 Jack A. Harbough	Good Hope claims (gold-silver-lead-zinc)	Sec. 20, T. 6 N., R. 14 E.	234
DMEA-4505 Salmon River Uranium Devel., Inc.	Ironside, et al., claims (tungsten-antimony- lead)	Sec. 33, T. 6 N., R. 14 E.,	235
DMEA-2373 Geo. Castle, et al.	Wood River claims (lead-zinc)	Sec. 3, T. 5 N., R. 17 E.	236
DMA-81 United Minerals Reserve Corp.	Homestake and Long Grade mines (lead-zinc)	Secs. 3, 4, and 5, T. 5 N., R. 18 E.; Secs. 32 and 33, T. 6 N., R. 18 E.	237
DMEA-2149 Big Doe Zinc Prop.	Big Doe mine (lead-zinc)	Secs. 8 and 9, T. 5 N., R. 18 E.	238
DMEA-3436 Owen Stapleton, et al.	Daisy mine (lead-zinc)	Sec. 23, T. 5 N., R. 18 E.	239
DMEA-4977 E.R. McPheters	Trail Creek claim (copper)	Sec. 27, T. 5 N., R. 18 E.	240
DMA-324 Heber Comer	Parker mine (silver)	Sec. 10, T. 4 N., R. 18 E.	241
OME-6406 Heber Comer	Parker mine (silver)	Sec. 10, T. 4 N., R. 18 E.	Application
DMA-1245 Baltimore-Camas Mining Co.	Ida Harlan vein (lead-zinc)	Sec. 23, T. 4 N., R. 18 E.	242
DMEA-3394 Triumph Mining Co.	Triumph mine (lead-zinc)	Secs. 14 and 23, T. 4 N., R. 18 E.	243

DMEA-3847 Triumph Mining Co.	Triumph mine (lead-zinc)	Secs. 14 and 23, T. 4 N., R. 18 E.	Cert. Contract
DMEA-4412 Triumph Mining Co.	Triumph mine (lead-zinc)	Secs. 14 and 23, T. 4 N., R. 18 E.	Application
DMA-1594 Sun Valley Lead-Silver Mines, Ltd.	Sunday Mining property (lead-zinc)	Sec. 23, T. 4 N., R. 16 E.	244
DMA-1936 Sun Valley Lead-Silver Mines, Ltd.	Blue Kitten mine (lead-zinc)	Sec. 25, T. 4 N., R. 16 E.	245
OME-6773 Pine Forest Mines Inc.	LaGrande claims (lead-silver)	Sec. 2, T. 3 N., R. 17 E.	246
OME-6778 Rod McKay and Owen Stapleton	Sundown mine (silver)	Secs. 1 and 2, T. 3 N., R. 17 E.	247
DMEA-4980 Alonzo W. Linderman	Ohio mine (lead)	Sec. 10, T. 3 N., R. 18 E.	248
DMEA-3340 Sowers and Johnson	Red Leaf group (lead-zinc)	Sec. 27, T. 3 N., R. 17 E.	249
DMEA-3009 John W. Larson	High Mountain mine (lead-zinc-copper)	Sec. 23, T. 4 N., R. 21 E.,	250
DMEA-4870 Viking Mines, Inc.	Garfield mine (lead-zinc)	Secs. 26 and 35, T. 4 N., R. 21 E.	251
OME-6676 Muldoon Barium Co.	High Ore claims (silver-lead-zinc)	Sec. 12, T. 3 N., R. 21 E.	252
DMA-1905 Nelson Tungsten Prop.	Independence claim (tungsten)	Sec. 13, T. 2 N., R. 23 E.	253
DMA-391 Paymaster, Inc.	Paymaster mine (lead-zinc)	Sec. 25, T. 2 N., R. 23 E.	254
DMEA-3556 William A. Rowe	Patsy No. 3 claim (tungsten)	Sec. 2, T. 2 N., R. 16 E.	255
OME-6631 Daylight Mining and Milling Co.	Red Cloud mine (silver-gold-copper)	Secs. 8, 9, 16, and 17, T. 2 N., R. 17 E.	256
DMEA-3963 Idaho Alta Metals Corp.	Commodore property (lead-zinc)	Sec. 19, T. 2 N., R. 18 E.	257

DMA-211 Snoose Mining Co.	Snoose mine (zinc)	Sec. 21, T. 2 N., R. 18 E.	258
DMA-1336 Mines, Inc.	Rita May claims (lead-zinc)	Sec. 27, T. 2 N., R. 18 E.	259
DMA-2415 Mines, Inc.	Rita May claims (lead-zinc)	Sec. 27, T. 2 N., R. 18 E.	Application
DMEA-1635 Silver Star Queens Mining Co.	Queen of the Hills and Minnie Moore mines (silver-lead-zinc)	Sec. 34, T. 2 N., R. 18 E.	260
DMEA-3433 Silver Star Queens Mining Co.	Queen of the Hills and Minnie Moore mines (silver-lead-zinc)	Sec. 34, T. 2 N., R. 18 E.	Cert. Contract
DMA-498 Apache Mining Co.	Red Elephant mine (lead-zinc-silver)	Sec. 21, T. 2 N., R. 17 E.	261
OME-6464 Liberty Gem Silver Mines, Inc.	Liberty Gem mine (silver)	Sec. 33, T. 2 N., R. 17 E.	262
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OME-6192 Paul James Hinkey	Hildamae group (gold-silver)	Secs. 3, and 10, T. 7 N., R. 4 E.	172
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DMEA-2505 Andrew Taft	Ankle prospect (lead-zinc-copper)	Sec. 15, T. 58 N., R. 2 E.	9
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DMEA-4552 New York Mining Co.	New York (Shamrock) mine (tungsten)	Sec. 24, T. 29 N., R. 6 E.	Application
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DMEA-2452 Calf. Creek Placers, Inc.	Union and California Creek placer claims (gold-monazite)	Sec. 1, T. 23 N., R. 5 E.	Application
OME-6853 Clarko, Inc.	Echo, Clark, et al., placer claims (gold-monazite)	Secs. 9, 10, 14, and 15, T. 22 N., R. 5 E.	83
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DMEA-2164 Wolf Lodge Co.	Wolf Lodge property (lead)	Sec. 6, T. 49 N., R. 2 W.	21
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OME-6285 Machinery Center, Inc.	Blackbird mine (cobalt)	Secs. 20, 21, 22, 27, and 28, T. 21 N., R. 18 E.	Application
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DMEA-2235 War Eagle Mining Co.	War Eagle mine (lead)	Sec. 23, T. 21 N., R. 24 E.	103

DMEA-3112 Centrida Mines, Inc.	Pope-Shenon mine (copper)	Sec. 9, T. 20 N., R. 22 E.	104
OME-6190 Western Uranium Corp. and Toil Mining Co.	Pope Shenon mine (copper)	Sec. 9, T. 20 N., R. 22 E.	Application
OME-6551 Howard J. Sims	Pope-Shenon mine (copper)	Sec. 9, T. 20 N., R. 22 E.	Contract
DMEA-4308 Leesburg Uranium, Inc.	Skyline group (uranium)	Secs. 12 and 13, T. 20 N., R. 21 E. Sec. 18, T. 20 N., R. 22 E.	105
DMEA-4754 E-dah-how Uranium, Inc.	Mother Lode, et al., (uranium)	Secs. 7 and 18, T. 20 N., R. 22 E.	106
DMEA-4899 E-dah-how Uranium Inc.	Mother Lode, et al., (uranium)	Secs. 7 and 18, T. 20 N., R. 22 E.	Application
DMEA-2499 Montana Coal and Iron Co.	Black Pine mine (cobalt-copper)	Sec. 22, T. 20 N., R. 19 E.	107
OME-6242 Western Uranium Corp.	Black Pine mine (copper)	Sec. 22, T. 20 N., R. 19 E.	Application
DMA-1823 Troy E. Becker and others	Victory mine (cobalt-copper)	Sec. 27, T. 20 N., R. 18 E.	108
DMA-1080 Heber S. Steen	Yellow Jacket mine (copper)	Sec. 22, T. 19 N., R. 16 E.	109
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DMEA-2396 J.R. Simplot	Chamac mine (fluorspar)	Secs. 30 and 31, T. 18 N., R. 17 E., Sec. 25, T. 18 N., R. 16 E.	Contract
DMEA-3879 Idaho Consol. Mines, Inc.	Twin Peaks mine (lead-zinc)	Secs. 20 and 29, T. 19 N., R. 21 E.	111
OME-6847 Reynold P. Milles	June Bug claims (copper-gold-silver)	Secs. 4, 5, 6, and 8, T. 18 N., R. 23 E.	112
DMEA-4272 Allison Creek Mining Co.	Rocky Mtn. Goat mine (copper)	Sec. 11, T. 20 N., R. 24 E.	113
DMEA-5034 Empire Explorations, Inc.	Buffalo claims (thorium-uranium- rare earths)	Secs. 9, 10, 14, and 15, T. 19 N., R. 25 E.	114
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OME-6113 ThO <sub>2</sub> and Rare Minerals Explor. Co	ThO <sub>2</sub> claims (thorium-rare earths)	Secs. 21, 22, 27, and 28, T. 18 N., R. 25 E.	Application
DMEA-4951 Carroll W. Wells	Ruby Red claims (thorium-rare earths)	Secs. 2 and 3, T. 17 N., R. 25 E.	119
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DMEA-2635 Bradley Mining Co.	Ima mine (tungsten)	Secs. 14, 15, 22, 23, and 24, T. 14 N., R. 23 E.	Cert. Contract
DMEA-3061 Bradley Mining Co.	Ima mine (tungsten)	Secs. 14, 15, 22, 23, and 24, T. 14 N., R. 23 E.	Application
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OME-6316 Clemens and Lombardi	Hilltop, et al., claims (silver-gold)	Secs. 1 and 2, T. 13 N., R. 26 E.	Contract
OME-6789 Hilltop Mining Co.	Hilltop mine (silver)	Secs. 1 and 2, T. 13 N., R. 26 E.	Application
OME-6185 Sims and Lombardi	Democrat, et al., claims (lead-silver-gold)	Secs. 1, 2, and 11, T. 13 N., R. 26 E.	126

OME-6286 J. Howard Sims	Democrat, et al., claims (silver-gold)	Secs. 1, 2, and 11 T. 13 N., R. 26 E.	Contract
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DMEA-2868 Roger Pierce	Gilmore mine (lead-zinc)	Sec. 18, T. 13 N., R. 27 E.	Contract
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DMEA-2916 Productive Mines, Ltd.	Birmingham group (antimony)	Sec. 2, T. 6 S., R. 4 W.	282
DMEA-652 South Mountain Mining Co.	South Mountain mine (copper-zinc-lead)	Secs. 3, 4, 9, and 10, T. 8 S., R. 5 W.	283

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DMA-817 Frank McKinley	Pony Gulch mine (tungsten)	Secs. 13 and 24, T. 49 N., R. 4 E.	26
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DMEA-3409 Sunset Mines, Inc.	Liberal King (Sunset) mine (lead-zinc)	Secs. 16, 17, 20, and 21, T. 48 N., R. 2 E.	Cert. Contract
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DMEA-2862 Spokane-Idaho Mining Co.	Douglas mine (lead-zinc-silver)	Secs. 34 and 35, T. 48 N., R. 2 E.	Cert. Contract
DMEA-2351 Sidney Mining Co.	Sidney mine (lead-zinc-silver)	Secs. 22 and 27, T. 48 N., R. 2 E.	49
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DMEA-5003 Day Mines, Inc.	Gold Hunter mine (lead-zinc-copper)	Sec. 27, T. 48 N., R. 5 E.	56
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