DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4861

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

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

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

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

Additional Folders:

Left Side

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

October 28, 1957

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tungsten)
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

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

S. Ricker

Enclosures

Form MF-103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED OCT 30 DMEA

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)

Robert N. Avery and Alfred W. Stickney
435 Hillcrest Road
San Mateo, California

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4861

Date Received: 10/30/57

Government Participation %:

Region: II

Division Code: 400

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title

Mineral(s) for which you wish to explore: Tungsten

Estimated Cost of Project: $ 7947.

LOCATION OF PROPERTY

Name	County	State
Stormy Day Mine	Pershing	Nevada

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "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.

October 23, 1957
Dated

Robert N. Avery
Alfred W. Stickney
BY *(Signature)*

Co-owners
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, Amended.

(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.

* * * * *

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DATE	INITIALS	CODE

ALFRED W. STICKNEY
CONSULTING MINING ENGINEER AND GEOLOGIST

1. APPLICANT'S PROPERTY RIGHTS:

(a) The nine (9) adjoining Stormy Day lode mining claims described in the mining records of the County Recorder of Pershing County, at Lovelock, Nevada as follows:

Stormy	Day	No.	1	Book	10	Page	91	of	Mines
"	"	"	2	"	10	"	92	"	"
"	"	"	5	"	10	"	94	"	"
"	"	"	6	"	10	"	128	"	"
"	"	"	11	"	15	"	174	"	"
"	"	"	12	"	15	"	174	"	"
"	"	"	13	"	15	"	175	"	"
"	"	"	14	"	15	"	176	"	"
"	"	"	15	"	15	"	177	"	"

Situated in Sections 21 and 28, T. 30 N., R. 24 E., M.D.B. and M. and extending westward onto unsurveyed land; in the so-called Hooker Mining District on the west side of the Selenite Range.

Applicant owns or controls no adjacent land.

(b) Property is known only as the Stormy Day Mine.

(c) Purchasers under contract. Payment of remaining $10,000 of the purchase price to Fred M. Anderson et al was postponed pending their secural of a quitclaim on a forfeited lease and an opportunity to research title. The remaining purchase price will be paid on or before November 27, 1957.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

(d) A DMEA lien of $3605.40 payable by royalty on developed ore and that indicated by diamond drilling below Adit No. 11 level.

2. PHYSICAL DESCRIPTION:

(a) The accompanying Mine Plan and Section afford a good picture of all mining and exploration operations on the property.

Production facilities consist of:

Mine workings with 835 feet of crosscut adits and 810 feet of contact drifting on four levels, of which only 445 feet of adit and 200 feet of drift will be used on the proposed exploration

8000 feet of gravity water pipe line from Jenny Creek, on which water rights are held

Accompanying mine, bunkhouse and kitchen inventories totalling $32,388

A 50-ton gravity mill with flotation cells not set up.

(b) Mine workings and inventory purchased under contract.

Water pipe line was installed by applicant and Claude B. Lovestedt, the lessee.

The 50-ton mill is owned by lessee.

(Continued on page 4)

(c) Production:

	Tons
John J. Thrasher in 1944 to Metals Reserve Co., Salt Lake City (This is dry weight tonnage and the initial production from the property. It averaged 0.764% WO_3 per ton with a high of 0.90% and a low of 0.63% WO_3 per ton. This ore came from stopes above Adit No. 2 level.)	1,142
Reed and Mayfield	900
Shipped to U. S. Vanadium Corp., Bishop, California	2,027
Production by Fred M. Anderson et al (Ore shipped to the Toulom, Getchell and Gardnerville mills.)	15,200
Malcolm Gould et al	204
Claude B. Lovestedt for beneficiation test	50
Total	19,523

The only settlement sheets in hand at present are the complete Getchell shipments and the first seven shipments to the U.S. Vanadium Corporation at Bishop. Copies of these are attached. The remaining production data have been furnished by John Uhalde who was in charge during most of the production and by the U. S. Bureau of Mines. Advisedly this production averaged 0.66% WO_3 per ton. Without the complete settlement sheets the writer cannot compute the average grade. The vertical depth of Adit No. 11 drift below the average outcrop is 210 feet making the production 93 tons per vertical foot in depth.

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(d) Former stoping has left sufficiently exposed not over a thousand tons of around 0.7% WO_3 ore in the mine workings above Adit No. 11 level. A larger tonnage of lower grade mineralized tactite occurs above this level but it is not anticipated that much of it will be profitable even with a mill on the property. During the period of maximum production, little if any lateral exploration was effected.

Below Adit No. 11 level on the downward projection of an ore shoot 120 feet long on this level, six diamond drill holes spaced over a lateral distance of 70 feet and to a maximum vertical depth of 115 feet below this level showed mineralized tactite with three of the drill holes returning ore grade. The details are given on accompanying sheets and the exploration was under DMEA assistance. On the Adit level this ore shoot was sampled at 5-foot intervals under the supervision of the U. S. Bureau of Mines for over a length of 100 feet, average thickness of 5¼ feet and returned a weighted average of 1.07% WO_3 per ton. At the time of sampling its full length had not been exposed. The assay sheet with Abbot A. Hanks, Inc. returns is attached. Projecting the ore shoot to the vertical depth of 115 feet

$$\frac{\text{Length } 120' \times \text{Thickness } 5\tfrac{1}{4}' \times \text{Depth } 115'}{12 \text{ cu. ft. per ton}} = 6{,}000 \text{ tons}$$

This is only indicated ore which the applicant intends to develop by shaft sinking and drifting at such time as ore of this indicated grade can be profitably developed, mined, milled

and marketed. To develop the indicated ore at the present time may involve the necessity of keeping the workings unwatered for an indefinite period which is not advisable. After the ore shoot is developed to this depth, the applicant intends to give it a deeper test.

In tactite bodies with erratically varying scheelite content it is the writer's experience that diamond drilling does not afford a reliable idea of the scheelite content. In the sampling on the level sample #43 with 3.25% WO_3 was only five feet from sample #44 with 0.58% WO_3; and sample #46 returned 1.01% WO_3 five feet from #47 with 0.02% WO_3. However, diamond drilling is a good tool to prove the persistence of the tactite body.

About 15 feet south of the southern end of this ore shoot on Adit No. 11 level an ore shoot around 20 feet long was developed on Adit No. 2 level 110 feet higher and stoped above and partially below Adit No. 2 level. This ground is not open on Adit No. 11 level. Mr. John Uhalde, under whose supervision this ground was stoped, considers that two thousand tons of ore remain in this shoot between Adits No. 11 and No. 2 levels. However, the writer can estimate only a few hundred tons. This ground may not be a separate shoot but a prong of the main shoot.

On Adit No. 11 level drift north an ore shoot 30 feet in length occurs 60 feet north of the northern end of the main ore shoot and has been partially stoped above the level to 35 feet below Adit No. 1 drift which is 120 feet above Adit No. 11 level. The shoot has a thickness of 4 to 5 feet. As exposed on

Adit No. 1 level this shoot has narrowed to 1.5 feet in thickness and has not been explored from that level to the surface. A few hundred tons of developed ore remain in this shoot. In August andSeptember this year 50 tons of this run-of-shoot ore was milled on the property for a beneficiation test. The returns on 20 tons have been received. The mill concentrate after cleaning weighed 347 lbs. with 69.09% WO_3 giving 239.77 lbs. of WO_3 or 12 lbs. per ton of ore. A sample of the corresponding tailings is not yet available, but an 85% recovery gives mill heads of 0.69% WO_3. As the mill was being tuned up a high recovery was not likely. The concentrate from the remaining 30 tons milled has not yet been cleaned for marketing.

(e) The deposit is a typical so-called contact metamorphic occurrence of tactite in the contact zone between granodiorite which forms a northerly striking persistent basin range on the east kn own as the Selenite Range, and metasediments, comprising crystallized limestone and shales, on the west. This contact zone with its tactite can be traced northerly from the applicant's property for about 3 miles on its general northerly strike, and dips around 60 degrees westerly. Granodiorite forms the footwall of the zone and metamorphics the hanging.

Locally the tactite is scheelite-bearing and this mineral becomes in places sufficiently abundant to form ore shoots.

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To the limited extent that the contact zone has been explored underground over its 3-mile length, the longest ore shoot as partially explored by four crosscuts is on the adjoining property to the north and appears to have a length of 330 feet. The average thickness of the known ore shoots approximates 6 feet. Deepest exploration has been by diamond drilling to a vertical depth of only 340 feet below the outcrop and showed mineralized tactite. No factors limiting persistence in depth are known. The large areal extent of the meta-sediments does not suggest a shallow roof pendant.

Scheelite-bearing tactite occurs not only on the granodiorite contact but also in the meta-sediments of the contact zone as much as 35 feet from the granodiorite.

The mineralized tactite consists of pyrite, pyrrhotite, scheelite, chalcopyrite and molybdenite in a non-metallic gangue of garnet, quartz, calcite, some epidote and other ferromagnesian minerals.

Zones of approximately East-West cross-fracturing cross the contact zone. Whether they are factors in localizing the ore shoots is too indefinite. Sufficient data for a reliable opinion is not available from the quite limited amount of exploration, but there appears to be a relation, though other structures may be factors.

The geology of the contact is shown on the attached Mine Plan and Section.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

(f) On the surface north of the north end of the underground workings float scheelite occurs along the projected contact zone. The area is especially mantled by granodiorite float with blocks of large size as the steep wall of the granodiorite is here nearer the contact zone. There are no exposures of tactite in place and the granodiorite mantle makes surface exploration unattractive.

In the fall of 1941, when the writer was stopping in Gerlach on a sulphur examination for a client, the late John Thrasher persuaded him to take a day after completing the work and see the Stormy Day property which he had located earlier that year. A day was spent on his claims starting at the discovery location on Stormy Day No. 1 and walking northerly along the indicated contact zone for a mile or more using a Mineralight and black cloth. After dark a return was made to the starting locality which was nearest the existing road. The apparent continuity of the structure was interesting but the amount of scheelite seen anywhere was not impressive. A good location for a crosscutting adit was discussed and John Thrasher favored such at the locality of the present Adit No. 1 with drifts north and south on reaching the contact zone as he considered the surface showing equally good in both directions. This locality is at the north end of the present mine workings. The writer did not disagree as the then surface showing to the south apparently was not more impressive, though the locality of Adit No. 2 would be a more accessible place for an adit portal.

The writer did not see the property again until the fall of 1956 when he was pleasantly surprised at the good grade of ore shown by the underground work which is much better than the surface suggested to him. The bearing of the portal position of Adit No. 1 is the direction John Thrasher suggested in our trip over the surface. Its bending to the southeast further in may have stemmed from subsequent prospecting digging on the contact zone to the south in the portion later developed by Adit No. 2.

The face of Adit No. 11 drift north is in notably fractured granodiorite and makes about the only water in the mine. On the surface from this face north the granodiorite shows easterly-westerly coursing fracture zones. However, as previously noted, it is indefinite at present whether zones of cross fracturing have any relation to the mineralization.

In the mine the drifting on the contact for all the four levels has afforded 1 foot of around 0.7% WO_3 ore for 2½ feet of drifting. The same ratio also exists on Adit No. 11 drift, on which part of the drifting was not on the contact. This ratio of ore to drift footage is good. The ratio may not be maintained in drifting exploration north on this adit level. For the present north drift on Adit No. 11 the ratio is 1 foot around 0.7% WO_3 ore to 3¼ feet of drift and the face of the drift is not in ore. However, an ore shoot occurs which was not disclosed by surface prospecting and shows only weakly and indefinitely on Adit No. 1 level above.

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The cost of surface exploration over the contact zone with its more formidable mantle in the area north of the mine does not appear likely to afford sufficient diagnostic data to warrant the cost. Advisedly the surface prospect digging over the good ore shoot in the southern part of the mine did not fairly indicate its existence.

On the adjoining property to the north along the contact zone, underground exploration (DMEA 4240) around 1000 feet north of the present north face of Adit No. 11, has partially exposed by four crosscuts an ore shoot over a distance of 330 feet. Lamping suggests the mineralization is weaker than at the Stormy Day mine and the shoot may not be continuous over this distance. Nevertheless, it is a much better showing than suggested by the surface prospecting though the surface mantle is not heavy.

There is a suggestion in the mine workings that the ore shoots improve with depth in thickness and maintain their grade. On Adit No. 11 level 445 feet of crosscut access adit is in with only 200 feet of drifting to the north. This is a poor ratio of access work to ore zone exploration. Little depth is lost even to the north property line.

On the other hand the writer could not recommend exploration southward from the face of this level's south drift. Surface outcrops suggest complicated geologic conditions for a hundred feet or more to the south and depth is also lost. Still further south the surface showings may improve with depth but they

but they should not be explored from this level and this rather long mineralized contact zone appears to be playing out southward.

The showings of float scheelite do not lend themselves to sampling.

(g) The writer has no geologic or engineering reports on the property but understands one is in preparation by the U. S. Bureau of Mines. On the accompanying Mine Plan and Section the geology of the contact zone is shown. An assay plan for the upper level is given on this map and the Assay Plan of sampling on Adit No. 11 level is shown on a separate sheet.

3. ACCESSIBILITY OF PROJECT:

(a) Claude B. Lovestedt lives in the cabin on the property and his address is P. O. Box 4, Nixon, Nevada. If not on field work the writer can be at the property with a day's notice. His telephone is DIamond 3-5748 in San Mateo, California.

From Reno, Nevada the property is 48 miles by Highway 30 (or Highway 40 to Wadsworth and Highway 34) to Nixon, Nevada; then 43 miles north on Highway 34 to a fair dirt road 2½ miles to the property. The turn-off from Highway 34 is labelled "Stormy Day Mine". This dirt road goes to the bunk cabin, the portal of Adit No. 11 and the mill. A spur goes to Adit No. 2 portal. With the exception of stoped ground and the

south end of Adit No. 11 drift south, the mine workings are accessible.

(b) A shipping and supply point in addition to Reno is Gerlach, Nevada which is a station on The Western Pacific Railroad. It is 2½ miles by the above-mentioned dirt road and 13 miles north on Highway 34.

A four bedroom bunk cabin and a house trailer on the property provide accommodations for employees.

4. THE EXPLORATION PROJECT:

(a) The location of the proposed drifting northerly on the contact zone from the present north face of Adit No. 11 level for a drift distance of 220 feet is shown on the Claim Map and in part on the Mine Plan. A 5 by 7-foot drift size is proposed. This footage of drifting would bring the drift face 150 feet from the north boundary of the property. An irregular striking contact would cause the drift face to be further from the property boundary. Advisedly it is not permissible to explore nearer the property boundary than 150 feet.

In this instance there may be little objection to exploration nearer the property boundary as the adjoining property on the north has had a DMEA contract (4240) with resulting lien. That contract work partially disclosed mineralized tactite over a distance of 330 feet and at an elevation 225 feet higher than the applicant's Adit No. 11 level. The distance from the

applicant's property line to the southern limit of this exploration is around 550 feet. Adits to reach a depth of 225 feet below the exploration work on the adjoining property would require a greater footage and would not be exploring the contact zone. However, this applicant has no interest nor anticipates none in the adjoining property and would be interested in continuing exploration only if the face was in ore.

In addition to the drifting, long-holes not over 25 feet in length into the hanging wall meta-sediments are proposed at approximately 50-foot intervals along the drift. In deposits of this type it should be anticipated that the mineralization may not be on the immediate contact of the igneous rock with the sedimentaries but in the latter rock though still in the general contact zone. Most of the mineralization in the adjoining property on the north was found in the meta-sediments around 15 feet from the immediate igneous contact. Two long-holes appear warranted into the meta-sediments at and back from the present face of Adit No. 11 north drift so the proposed long-hole footage is estimated at 150 feet. This is inexpensive exploration.

(b) The present roads are ample.

(c) On execution of an exploration contract, drifting can start in about three weeks, allowing such time to condition the track which apparently initially was locally off grade, recondition the air and water lines, and make a few advisable repairs on the

trammer and cars to put them in good efficient condition. It is proposed to do the drifting and long-hole drilling with one two-man shift a day affording an estimated average drifting advance of 45 feet a month allowing for the long-hole probing and sampling. It is estimated that the time required to complete the work will approximate six months.

5. EXPERIENCE:

Claude Lovestedt, who with his brother or another miner, will be doing the work on contract, is an experienced miner and has profitably worked his own tungsten property and also has been a successful lessee.

The work will have the attention of the writer who is a graduate Mining Engineer and Doctor of Science from Harvard. After a period on the U. S. Geological Survey, he had many years in charge in exploration and mining development until the properties became going mines, and thereafter did consulting work for the operating companies. This work was for the Russo-Asiatic Corporation (now Mining Trust) and its operating subsidiaries. After leaving foreign work he set up practice in San Francisco and has served the Benguet Consolidated, Inc., the Calumet & Hecla, Inc., a subsidiary of M. A. Hanna Co. and the A. O. Smith Corporation among others. During World War II, services were rendered the Reconstruction Finance Corporation.

The proposed exploration would be carried on as desired by the DMEA engineer.

6. ESTIMATE OF COSTS:

(a) The bids of two contractors who know the mine are submitted. That by Claude Lovestedt is the lower and is $30 a foot for the drifting and $1 a foot for the long-hole drilling. He has not separated a timbering item and the mine workings do not indicate any will be required. If it is, the cost may have to be borne by the applicant.

(b) There willbe no cost for personal services.

(c) The cost of materials and supplies are included in the contract price.

(d) The operating equipment to be provided by contractor and the applicant is stated in the contract bid. That being furnished by the contractor he now has, and that supplied by the applicant is given in the inventory. New steel for the long-hole drilling will be purchased by the applicant. If ventilating pipe and a blower become necessary, they will be supplied by the applicant and added to the inventory as they will be needed on anticipated future development of the now indicated ore bodies. With these exceptions the contractor and applicant have all the required equipment.

The following is the market value of the equipment to be furnished by the applicant as inventoried and priced in May, 1957:

1 - 315 cu. ft. Gyro Ingersoll Rand Compressor Portable type (New $11,600)	$7,776
1 - Eimco 401 Air Mule Trammer, complete with fittings	1,943
4 - 22 cu. ft. Rocker Type Mine Cars	770
1 - Atlas Imperial Diesel Electric 3 KW Generator, complete with fittings	676
2 - Heavy type riveted 3' x 8' and 5' x 40' Air Receivers and fittings	864
1 - Riveted type Water Pressure Tank and fittings	141
1 - 500 Gal. cylindrical Water Tank	110
900 ft. of 14-gauge special Waterproof Electric Wire	134
1000 ft. of 12-lb. Rail Track	510
1700 ft. Air and Water Pipe with valves and fittings	680
	$13,604
Less 7 months depreciation at 12½%	992
Present Value	$12,612

Long-hole steel to be purchased new by applicant:

2 pcs. of 31" drill steel at $10.00 ea.	$20.00	
6 " " 63" " " " 12.40 "	74.40	
1 shank piece of 39"	10.70	
8 couplings at $4.00 ea.	32.00	
1 - 1-3/32" bit	13.95	151
		$12,763
Depreciation during proposed 6-month contract at 12½%		$ 797

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

(e) Locally the mine track is off grade and appears to have been poorly laid originally. Some reconditioning of air and water pipe lines is desirable. Repairs on the trammer and mine cars are advisable. This conditioning, rehabilitation and the repairs should put the equipment in efficient shape and is estimated to cost $400.

(f) No new building or fixtures are required.

(g) With the equipment in good condition initially, its maintenance and repair during project operation should be minor. Unforeseeable accidents involving considerable expense do occur but on a small and short project they cannot be properly provided for. So it is suggested that any cost under this item be carried solely by the applicant who carries insurance on the equipment.

The contractor carries compensation and employees' liability insurance and payroll taxes at his expense. Analytical work and accounting will be done by the contractor and the applicant at no expense to the project.

7. (a) Applicant is prepared to furnish his share of the cost of the proposed project in accordance with the regulations on Government participation.

(b) The applicant's share of the cost will be provided by money.

C O P Y

ITEM 1(c)

CONTRACT OF SALE AGREEMENT

THIS CONTRACT OF SALE AGREEMENT, made and entered into this 27th day of May, 1957, by and between FRED M. ANDERSON and ANN ANDERSON, his wife, ALAN BIBLE and LOUCILLE BIBLE, his wife, ROBERT L. McDONALD and GLORIA McDONALD, his wife, BIBLE & MCDONALD, a law partnership, Gazette Building, Reno, Washoe County, Nevada, operating as a partnership under the fictitiuos name of "STORMY DAY MINE", hereinafter called "Sellers" and ROBERT N. AVERY of 2111 Forest View Ave., Hillsborough, California, hereinafter called "Buyer",

W I T N E S S E T H:

1. The Sellers, in consideration of the covenants and agreements on the part of the Buyer, hereinafter contained, agree to sell and convey to the Buyer, and the Buyer agrees to buy the following described nine (9) Lode mining claims situate in the Hooker Mining District, on the west side of the Selenite Range, also commonly known as the Limbo Range, in Pershing County, Nevada, and being located about sixteen miles (16) south of the Township of Gerlach, Nevada. The nine (9) lode mining claims are the nine (9) most southerly claims in the Stormy Day Group, which said nine (9) claims are more particularly and fully described in the mining records of the County Recorder of Pershing County, at Lovelock, Nevada, as follows:

STORMY DAY No. 1	BOOK NO. 10,	Page 91 of Mines
" " " 2	" " 10	" 92 " "
" " " 5	" " 10	" 94 " "
" " " 6	" " 10	" 128 " "

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

STORMY	DAY	No.	11	BOOK	NO.	15,	Page	174	of Mines
"	"	"	12	"	"	15	"	174	" "
"	"	"	13	"	"	15	"	175	" "
"	"	"	14	"	"	15	"	176	" "
"	"	"	15	"	"	15	"	177	" "

for the sum of TWENTY THOUSAND DOLLARS ($20,000.00) lawful money of the United States, and payable in the following manner, to-wit:

$10,000.00 to be paid in full upon the execution of this Contract of Sale Agreement, the receipt of which is hereby acknowledged;

The balance of $10,000.00 to be paid on or before six months from the date of the execution of this Contract of Sale Agreement with interest to be payable at six percent per annum (6%), in accordance with the terms of the Promissory Note wherein the Buyer is the Maker and Fred M. Anderson is the Payee.

2. The Sellers have represented to the Buyer that the property is subject to a lien upon the land to secure the payment of the percentage royalty due the Government under the exploration project contract, FRED M. ANDERSON, ET AL, (formerly Stanley F. O'Leary, Idm-E 52 1, Docket No. DMEA 2925, dated May 14, 1953, as amended. That the amount to be paid to the Government under the above referred to contract, as amended, is an obligation of the Buyer and will be paid in full by the Buyer to the United States Government. The Sellers represent to the Buyer that the amount of the loan will not exceed the sum of $4,000.00.

3. The Sellers further agree to convey to the Buyer certain designated property, as more fully appears from the Inventory hereto attached and made a part hereof, as Schedule "A"; that the property as appears in Schedule "A" will not be removed from the premises by the Buyer until such time

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

as the balance of $10,000.00, plus interest, is paid to the Sellers and the Sellers will at that time furnish to the Buyer a Bill of Sale of all of the said property.

4. Any and all equipment located at the property will be forfeited to the Sellers in the event Buyer defaults in any of the terms of this Contract of Sale Agreement, as more specifically hereinafter set forth. This covenant includes the property on the attached inventory, which is made a part hereof, and known and designated as Schedule "A".

5. Said Buyer acknowledges that he has made a thorough investigation of the premises and is desirous of purchasing the same from the Sellers.

6. Said Buyer agrees that at all times he will fully comply with the provisions of the Workmens' Compensation laws of the State of Nevada.

7. Said Buyer further agrees to hold Sellers and also the premises free and clear of any and all liability of any nature, kind or description, including actions for wages, actions for personal injuries, actions for damages, actions brought by materialmen, or any other actions, claims, demands, etc. of any kind, nature or description whatsoever.

8. That in the event the Buyer assigns this Contract of Sale Agreement, he will immediately notify the Sellers and any assignment will not relieve the Buyer of his obligation to the Sellers, in accordance with the promissory note referred to above.

9. Buyer agrees that at all times he will keep the

drifts, shafts and tunnels and other workings thoroughly clear and free of loose rock and rubbish and drained.

10. Time is the essence of this Contract of Sale Agreement.

11. That in the event the Buyer defaults in making the payments in accordance with the terms of the promissory note, the $10,000.00 received by the Sellers will be retained as liquidated damages. A waiver of any default on the part of the Buyer will not be construed as a subsequent waiver to the same or different defaults. That the parties further agree that this entire transaction will be escrowed in the NEVADA BANK OF COMMERCE, Reno, Washoe County, Nevada, with appropriate escrow instructions wherein the Escrow holder will be furnished a Quitclaim Deed from the Buyer to Sellers, a Quitclaim Deed from Sellers to Buyer, a Bill of Sale from Sellers to Buyer and a Promissory Note from Buyer to Sellers in the sum of Ten Thousand Dollars ($10,000.00); that the Sellers will furnish good title to the premises and warrant said title against any liens and/or any encumbrances of record with the exception of the DMEA loan referred to above.

12. Said Buyer agrees to pay all work done on the premises and also for all material used in connection with said work, and said Buyer further agrees to pay for all improvements made, after the execution of this Contract of Sale Agreement, on the premises, and it is hereby specifically agreed between the parties hereto that no cost of work or materials or any cost or charges of any kind whatsoever shall be assessed against the said Sellers, said Buyer further agreeing to pay for the entire cost of the operation.

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

13. Said Buyer agrees to keep the premises posted with Notices of Non-Responsibility for and on behalf of the Sellers, which notices are required by the laws of the State of Nevada, and upon Buyer's failure to so post, Sellers may enter the premises for the purpose of complying with the Nevada laws.

14. Said Buyer agrees to comply with the laws of the State of Nevada and all Federal Mining laws pertaining to the operation of mines and the milling of ores.

15. Said Buyer agrees to keep the aforesaid premises free and clear from any and all encumbrances and liens of any nature, kind or character.

16. Buyer further agrees to pay all state and county taxes including the net proceeds of mines on the abovesaid described premises of every nature whatsoever levied, assessed or accrued against the Buyer, it being understood and agreed that the Buyer will not be liable for any taxes that are assessed against the Sellers resulting from the sale of the property.

17. Buyer further agrees to keep the improvements on the said premises insured for at least the sum of Ten Thousand Dollars ($10,000.00) payable in case of loss to Sellers as their interests appear.

18. In case default shall be made in the performance of any covenant or covenants or agreements herein contained on the part of the Buyer, and any default hereinabove mentioned shall continue for ten (10) days after the receipt by Buyer of notice thereof in writing given by the said Sellers or the agent or attorney of the Sellers, then in any or either of

such events said Sellers at the exclusive option of the Sellers may declare this Contract of Sale Agreement ended and may re-enter the said premises either with or without process of law, andmay remove all persons from said premises.

19. All the provisions of this Contract of Sale Agreement shall inure to, apply to and bind the legal representatives, successors and assigns of the within named parties respectively.

IN WITNESS WHEREOF, the parties have hereunto set their hands the day and year in this Contract of Sale Agreement first above written.

(signed) FRED M. ANDERSON

ROBERT L McDONALD

ALAN BIBLE

BIBLE & McDONALD, a law partnership
By ROBERT L. McDONALD

SELLERS

ROBERT N. AVERY

BUYER

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

COPY

ITEM 1(c)

BILL OF SALE

KNOW ALL MEN BY THESE PRESENTS:

That FRED M. ANDERSON and ANN ANDERSON, his wife, ALAN BIBLE and LOUCILLE BIBLE, his wife, ROBERT L. McDONALD and GLORIA McDONALD, his wife, BIBLE & McDONALD, a law partnership, operating as a partnership under the fictitious name of "STORMY DAY MINE", the parties of the First Part, for and in consideration of the sum of TEN DOLLARS ($10.00) lawful money of the United States of America, to them in hand paid by ROBERT N. AVERY, of 2111 Forest View Ave., Hillsborough, California, the party of the Second Part, the receipt of which is hereby acknowledged, do by these presents sell, assign set over and deliver to the said party of the Second Part, all of their right, title and interest in and to all of the said property described in the Inventory attached hereto and marked and designated as Schedule "A".

TO HAVE AND TO HOLD the same unto the said party of the Second Part, his heirs, executors, administrators and assigns forever.

IN WITNESS WHEREOF, the parties of the first part do execute this instrument this 23d day of May, 1957.

(signed) FRED M. ANDERSON

ROBERT L. McDONALD

ALAN BIBLE

BIBLE & McDONALD, Reno, Nev.,
a Law Partnership
By ROBERT L. McDonald

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo California)

STATE OF NEVADA)
) SS.
COUNTY OF WASHOE)

On this 23d day of May, 1957, personally appeared before me, the undersigned, a Notary Public, in and for the County of Washoe, State of Nevada, FRED M. ANDERSON, ROBERT L.McDONALD and ALAN BIBLE, as individuals and ROBERT L. McDONALD, as a partner of the firm of BIBLE & McDONALD, known to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned,

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the County of Washoe, State of Nevada, the day and year in this certificate first above written.

LUCILE HANES (SEAL)
Notary Public

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

C O P Y

ITEM 1(c)

PROMISSORY NOTE

$10,000.00

Reno, Nevada

May 27, 1957

FOR VALUE RECEIVED, I, ROBERT N. AVERY, of 2111 Forest View Ave., Hillsborough, California, promise to pay to the order of FRED M. ANDERSON at Reno, Nevada, or at the option of the holder of this note at such other place as said legal holder shall designate in writing, in coin or currency which at the time or times of payment shall be legal tender for the payment of public and private debts in the United States, the sum of TEN THOUSAND DOLLARS ($10,000.00) with interest thereon at the rate of six percent (6%) per annum from date thereon until fully paid, said principal and interest to be payable six months from the date of the execution of this note, or on or before November 27, 1957.

I agree that in case of the default in the payment of any installment of interest or principal or in the case of the failure to perform any of the covenants in the Agreement, or in the event I shall make a general assignment for the benefit of creditors or be adjudged a bankrupt, then upon the happening of any one of such events the whole sum of principal and interest which shall then remain due and payable shall become forthwith due and payable although the time of maturity as expressed in this promissory note shall not have arrived.

I promise and agree that in case any suit or legal or equitable action is instituted to collect this note or any portion thereof, or any interest thereon, I will pay all costs

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

and expenses as such are due and additional sums as the Court may adjudge reasonable as an attorney's fee in said suit or action, the same to be included in any suit or judgment obtained on this note.

The maker and endorser severally waives presentment for payment, demand, notice, protest and notice of protest, diligence and non-payment of this note, and all defenses on the ground of any extension of time of payment that may be given by the holder or holders of this note to him, and/or any other demands or defenses which they or either of them might or could have.

(signed) ROBERT N. AVERY

Address

211 Forest View Ave.,
Hillsborough, California

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

QUITCLAIM DEED

THIS INDENTURE, made this 23d of May, 1957 between FRED M. ANDERSON, and ANN ANDERSON, his wife, ALAN BIBLE and LOUCILLE BIBLE, his wife, ROBERT L. McDONALD and GLORIA McDONALD, his wife, BIBLE & McDONALD, a law partnership, Gazette Building, Reno, Nevada, operating as a partnership under the fictitious name of "STORMY DAY MINE", the parties of the first part, and ROBERT N. AVERY, of 2111 Forest View Ave., Hillsborough, California, the party of the second part,

W I T N E S S E T H:

That the said parties of the first part, for and in consideration of the sum of TEN DOLLARS ($10.00) lawful money of the United States of America, to them in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, have remised, released and forever quitclaim and by these presents do remise, release and forever quitclaim unto the said party of the second part, all of their right, title and interest in and to the following described nine (9) lode mining claims, situated in the Hooker Mining District, on the west side of the Selenite Range, also commonly known as the Limbo Range, in Pershing County, Nevada, and being located about sixteen miles (16) south of the Township of Gerlach, Nevada. The nine (9) lode mining claims are the nine (9) most southerly claims in the Stormy Day Group, which said nine (9) claims are more particularly and fully described in the mining records of the County Recorder of Pershing County, at Lovelock, Nevada, as follows:

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

STORMY	DAY	NO.	1	BOOK	NO.	10	Page	91	of Mines
"	"	"	2	"	"	10	"	92	" "
"	"	"	5	"	"	10	"	94	" "
"	"	"	6	"	"	10	"	128	" "
"	"	"	11	"	"	15	"	174	" "
"	"	"	12	"	"	15	"	174	" "
"	"	"	13	"	"	15	"	175	" "
"	"	"	14	"	"	15	"	176	" "
"	"	"	15	"	"	15	"	177	" "

TOGETHER with all and singular the tenements, hereditaments andappurtenances thereunto belonging, or in anywise appertaining, the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

TO HAVE AND TO HOLD all of the rights, title and interest of the parties of the first part in and to the said premises together with the appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands the day and year first above written.

(signed) FRED M. ANDERSON

ROBERT L. McDONALD

ALAN BIBLE

BIBLE & McDONALD, A Law Partnership
ROBERT L. McDONALD

STATE OF NEVADA)
) SS.
COUNTY OF WASHOE)

On this 23d day of May, 1957, personally appeared before me, the undersigned, a Notary Public in and for the

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

County of Washoe, State of Nevada, FRED M. ANDERSON, ROBERT McDONALD and ALAN BIBLE, as individuals, and ROBERT L. McDONALD, as a partner of the law firm of BIBLE & McDONALD, known to me to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

LUCILE HANES (SEAL)
NOTARY PUBLIC

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

COPY

ITEM 1(c)

QUITCLAIM DEED

THIS INDENTURE, made this 27th day of May, 1957, between ROBERT N. AVERY of 2111 Forest View Ave., Hillsborough, California, the party of the first part, and FRED M. ANDERSON and ANN ANDERSON, his wife, ALAN BIBLE and LOUCILLE BIBLE, his wife, ROBERT L. McDONALD and GLORIA McDONALD, his wife, BIBLE & McDONALD, a law partnership, Gazette Building, Reno, Nevada, operating as a partnership under the fictitious name of "STORMY DAY MINE", the parties of the second part,

W I T N E S S E T H:

That the said party of the first part, for and in consideration of the sum of TEN DOLLARS ($10.00) lawful money of the United States of America, to him in hand paid by the said parties of the second part, the receipt whereof is hereby acknowledged, has remised, released and forever quitclaims and by these presents does remise, release and forever quitclaim unto the said parties of the second part, all of his right, title and interest in and to the following described nine (9) lode mining claims, situated in the Hooker Mining District, on the west side of the Selenite Range, also commonly known as the Limbo Range, in Pershing County, Nevada, and being located about sixteen (16) miles south of the Township of Gerlach, Nevada. The nine (9) lode mining claims are the nine (9) most southerly claims in the Stormy Day Group, which said nine (9) claims are more particularly and fully described in the mining records of the County Recorder of Pershing County, at Lovelock, Nevada, as follows:

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

STORMY	DAY	NO.	1	BOOK	NO.	10	Page	91	of Mines
"	"	"	2	"	"	10	"	92	" "
"	"	"	5	"	"	10	"	94	" "
"	"	"	6	"	"	10	"	128	" "
"	"	"	11	"	"	15	"	174	" "
"	"	"	12	"	"	15	"	174	" "
"	"	"	13	"	"	15	"	175	" "
"	"	"	14	"	"	15	"	176	" "
"	"	"	15	"	"	15	"	177	" "

TOGETHER with all and singular the tenements, hereditaments and appurtenances, thereunto belonging, or in anywise appertaining, the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

TO HAVE AND TO HOLD all of the right, title and interest of the party of the first part in and to the said premises together with the appurtenances, unto the said parties of the second part, and to their heirs and assigns forever.

IN WITNESS WHEREOF, the said party of the first part has hereunto set his hand the day and year first above written.

(signed) ROBERT N. AVERY

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

STATE OF CALIFORNIA

COUNTY OF

On this 27th day of May, 1957, personally appeared before me, the undersigned, a Notary Public in and for the said County and State aforesaid, ROBERT N. AVERY, known to me to be the person described in and who executed the foregoing instrument who acknowledged to me that he executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate for said county and state first above written.

DORIS E. MacDONALD (SEAL)
NOTARY PUBLIC
My Commission Expires July 1, 1959

(Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California)

MEMORANDUM OF AGREEMENT BETWEEN ROBERT N. AVERY AND ALFRED W. STICKNEY RESPECTING STORMY DAY MINES

Robert N. Avery having agreed to purchase from Fred M. Anderson et al nine (9) lode mining claims in the Hooker Mining District, in Pershing County, Nevada, more particularly described in the agreement and lease between the undersigned as Lessors and Claude B. Lovestedt as Lessee, for the price of $20,000, one-half whereof Avery has paid to Anderson et al, and one-half whereof he has agreed to pay according to the terms of his six months' promissory note to the order of said Anderson; and,

Alfred W. Stickney having paid to Avery the sum of $5,000, as payment in full for his interest and ownership in said mining claims as hereinafter set forth; and

Avery having agreed to pay to the said Lovestedt the sum of $10,500, as a further investment on Avery's part in said leased property, said sum to be applied on the expenses of preparing said mining claims for mining and milling operations and of commencing such operations, all as more particularly set forth in said agreement and lease between the undersigned as Lessors and Lovestedt as Lessee; and

Said payments having been made by the respective parties hereto and said obligations having been undertaken by Avery upon the basis, as between the undersigned, of the agreements between the undersigned herein set forth,

NOW, THEREFORE, the undersigned agree, and have agreed, as follows:

1. All rights and interests of the undersigned as Lessors under said agreement and lease, including, among other things, the Lessors' royalties thereunder, shall belong to the undersigned in the proportions of five-sixths (5/6) to Avery and one-sixth (1/6) to Stickney.

2. Subject to the foregoing, the ownership by the undersigned of the said mining claims and of the machinery, tools and equipment described in Exhibit A to said agreement and lease shall be in the proportion of three-fourths (3/4) thereof by Avery and one-fourth (1/4) thereof by Stickney.

3. Each party hereto shall have the first and prior right to purchase from the other the latter's rights and ownerships, in and of said mining claims, machinery, tools and equipment, in case the other desires to sell, for the price and on the terms offered in good faith therefor by any other person, firm or corporation. The party desiring to sell shall give to the other party ten (10) days written notice of his intention so to do, stating the price and terms established by such offer, and the other party shall have the first and prior right to purchase the same, by accepting according to the price and terms of such offer, within said ten (10) day period, and performing the same according to its terms, but unless the other party shall accept and perform as aforesaid, the party desiring to sell shall be free to sell to others at that time and for such price and terms, but if he does not do so the prior right of the other party shall continue in force and effect. Neither of the parties shall make or permit any disposition

of his said rights and ownership which would tend to obstruct or defeat the said first and prior right of the other to purchase the same, either under this paragraph or under paragraph 4 next following.

4. Upon the death of either party, the other party shall have the right and option to purchase said rights and ownerships of the deceased party if the same belonged to such deceased party at his death, in the manner following, and not otherwise:

Within thirty (30) days after the appointment and qualification of the executor or administrator of the estate of the decedent, the other party shall notify such executor or administrator that he desires to have the fair market value of the said rights and ownerships of the decedent determined by appraisal. Thereupon the party giving said notice shall promptly appoint an appraiser, and such executor or administrator shall promptly appoint an appraiser, to determine the fair market value at the date of death of the decedent of such right and ownerships of the decedent, and the decision of said appraisers as to such market value shall be conclusive and binding on the party giving the notice and upon the estate, executor and/or administrator of the decedent. If said appraisers do not agree, they shall promptly appoint a third appraiser, and the decision of a majority of the three appraisers shall be conclusive and binding as aforesaid.

Within twenty (20) days after the fair market value of said rights and ownerships is determined as aforesaid, the party giving such notice shall elect in writing mailed or delivered to the executor or administrator of the

deceased party whether to purchase said rights and ownerships at said fair market value thereof so determined. If he elects to purchase the same, he shall pay said fair market value so determined to the estate, executor and/or administrator of the deceased party within said twenty (20) day period. If he elects not to purchase, or having elected to purchase, fails to make such payment, his right and option to purchase shall forever terminate.

5. Any notice which it is herein provided may or shall be given by either party to the other shall be given by depositing the same in the United States mail, postage prepaid and registered or certified, addressed to the other party at the following respective addresses:

To Robert N. Avery at
2111 Forest View Ave.
Hillsborough, Calif.

To Alfred W. Stickney at
435 Hillcrest Road
San Mateo, California

Either party by written notice given as aforesaid may change the address to which notice to him shall thereafter be addressed.

Dated: May 29, 1957.

(signed) ROBERT N. AVERY

ALFRED W. STICKNEY

COPY

ITEM 1(d).

MINING LEASE AND AGREEMENT

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 30 1957

DATE	INITIALS	CODE

for the purposes, term and royalties and upon and subject to the agreements, covenants, terms and conditions hereinafter set forth, to which the parties hereto do hereby agree, as follows:

I. Purpose and Term.

1. This lease is made for mining purposes as hereinafter set forth and for a term of ten (10) years from the date hereof, subject to sooner termination as hereinafter provided.

II. Preparation for Mining and Milling Operations.

2. Within sixty (60) days from the date of execution of this lease, the Lessee shall do all work and install and connect up all machinery, equipment and structures necessary to enable the leased property to be operated as a tungsten mine at an operating capacity of mining and milling not less than seventeen (17) tons of ore in eight (8) hours of a working day. In the course of and as a part of such work and installation, the Lessee shall:

a. Bulldoze a level area adjacent to the ore bin now on the leased premises, of sufficient area to provide for the installation and efficient working thereon of a settling pond and flotation facilities and the operating and milling machinery, equipment and facilities next hereinafter mentioned in subparagraph b of this paragraph 2.

b. Install and connect up on said area the Lessee's mill now located in Carson City, Nevada, including all of its parts and equipment, rated at a capacity of 75 tons of ore per twenty-four (24) hours, and the Lessee's

water tank, of 5,000 gallons capacity, now located about thirty (30) miles from the leased property, and the Lessee's power generator, and all such other tools, equipment, machinery and structures as may be necessary for mining and milling of tungsten ore at the rate aforesaid, and to produce therefrom tungsten concentrates in twenty (20) pound units of not less than sixty (60) per cent tungsten W.O.3.

c. The Lessee may use and employ in the installation and connecting up and in the mining and milling hereinafter provided for all the machinery, tools and equipment of the Lessors now upon the leased property. An inventory of said machinery, tools and equipment is hereunto annexed, marked Exhibit A. The Lessee shall at all times during the term of this lease maintain all such machinery, tools and equipment in good condition and repair, subject to reasonable wear and tear in the use thereof, and all such machinery, tools and equipment shall be and remain the property of the Lessors, but the aforesaid mill, water tank and power generator of the Lessee shall be and remain his property, subject to a lien thereon in favor of the Lessors securing the performance of the Lessee's obligations hereunder.

d. The Lessee Robert N. Avery will pay, as a part of the cost of putting the property in a condition for mining and milling operations, and of the expense of the resumption of mining and milling operations thereon, the sum of ten thousand five hundred (10,500) dollars, payable to the Lessee in installments as follows:

Five thousand (5,000) dollars at the execution of this lease, the receipt thereof is acknowledged by the Lessors Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

Lessee, when said sum shall be applied by the Lessee to the cost of building the aforesaid area, and of moving thereto and installing thereon the aforesaid mill, water tank and power compressor and all other machinery and equipment required.

Five thousand five hundred (5,500) dollars when mining and milling operations at the rate of at least two hundred (200) tons of tungsten ore per month are commenced, to be then paid to the Lessee and to be used and applied by him toward the expense of such operations during the period between the commencement of such operations and the first sale of one or more tons of tungsten concentrate units produced therefrom.

Such payments by the Lessor Robert M. Avery shall be and represent an investment by him in said leased properties and shall not be repayable by the Lessee, provided the Lessee shall actually use and expend the same for the purposes aforesaid.

c. The Lessee shall within said sixty (60) day period perform all work and furnish all materials and supplies, and (except for the items listed in the inventory annexed hereto marked "Exhibit A"), all machinery, tools and equipment, necessary to prepare the leased property for mining and milling operations thereon at the daily rate and capacity aforesaid, shall pay all the expense thereof or connected therewith, and if and to the extent that such expense shall exceed the aforesaid sum provided by the Lessor Robert M. Avery toward such expense, the Lessee shall not be entitled to reimbursement for such excess or any thereof.

III. Mining and Milling.

3. Commencing not later than sixty (60) days from the date of execution of this lease and agreement, the Lessee shall at all times conduct upon the leased property mining and milling operations and produce therefrom and mill at least two hundred (200) tons of tungsten ore in each full calendar month. It is understood the Lessee intends to conduct such operations during eight (8) hours of each working day, working one (1) or two (2) eight hour shifts daily, but the Lessee may, at his election, increase the number of shifts and the time during which operations are conducted. So long as the presently measured and proved ore bodies in the leased property are not worked out, the Lessee shall not be required to do development work to reach additional ore bodies, but he may do so at his own election and expense.

4. The Lessee shall at all times conduct his mining and milling operations upon the leased property in a good and minerlike fashion and shall observe and comply with all laws, statutes and regulations of the United States and of the State of Nevada and of every governmental body, agency or officer thereof applicable to such operations or to the maintenance or condition of the leased property.

5. The Lessee shall at all times conduct such operations so as to produce tungsten concentrate units of at least sixty (60) per cent tungsten WO_3.

6. The Lessee shall at all times keep the drifts, shafts and tunnels, and all other passages and workings of

the leased property thoroughly drained and thoroughly clear and free of loose rock and rubbish of all kinds, and shall well and sufficiently timber said mine at all points where proper, and repair all timbering wherever it may become necessary. Lessee shall stockpile in a separate ore dump all ores removed from the mine which he does not mill.

IV. Payment of Expenses and Charges, Storage and Sale of Concentrates, and Payment of Royalties to the Lessors.

7. The Lessee shall pay and discharge all costs and expenses of mining, milling and other work and operations under this lease, and also shall pay and discharge, as and when the same falls due, the entire unpaid balance of the existing Defense Minerals Exploration Loan heretofore obtained for work and exploration on the property. It is understood the unpaid balance of said loan is less than four thousand (4,000) dollars.

8. The Lessee shall store in a safe place upon the leased property all tungsten concentrate units produced by his operations, and shall from time to time sell the same to purchasers thereof, in lots of one ton or more, at such price as in his judgment is the best price then obtainable, it being intended that the Lessee shall not withhold such sales from the market, but shall use his best judgment in selling the same, all such sales to be made for cash and otherwise according to the terms and usages of sale of mineral concentrates customarily in use at the time. Upon making each such sale, the Lessee shall mail to each of the Lessors a report thereof, stating the weight of concentrates and number of units sold, the price paid or payable to the Lessee therefor, the name of the purchaser, and

the royalty due to the Lessors thereon, and within seven (7) days from the date of sale, the Lessee shall pay to the Lessors a royalty thereon of one-fifth (1/5) of the price paid or payable to the Lessee for the concentrates sold, provided that the royalty upon each sale shall in no event be less than three (3) dollars per ton of ore milled in the production of the concentrates sold.

9. The Lessee shall make all royalty payments to the Lessors in the proportion of one-sixth (1/6) thereof to the Lessor Alfred W. Stickney and five-sixths (5/6) thereof to the Lessor Robert W. Avery. Such payments shall be made by checks of the Lessee mailed to the respective Lessors at their respective addresses hereinafter mentioned.

V. General Provisions

10. Each and all the agreements, covenants, terms and conditions hereinafter set forth shall apply at all times to this lease and agreement generally, including application to the provisions hereinbefore set forth.

11. The Lessee shall keep and maintain true and correct books and records of his work and operations hereunder, of the expense thereof, and of the number of tons of ore mined and milled, and of the concentrate units produced therefrom, so that the tonnage of ore milled in the production of each and all the concentrate units shall be identified for purposes of royalty computation. At any reasonable time the Lessors or their duly authorized agent shall have the right to inspect the Lessee's said books and records. The Lessee shall render to each of the Lessors the following accounts:

a. An account of his expense in the work of installation and connecting up of machinery and equipment, within sixty (60) days from the date hereof.

b. A monthly report of the number and grade of the tons of ore mined and milled, on or before the tenth (10) day of each month, commencing on the tenth (10) day of the month following the month in which mining and milling is commenced.

Robert W. Avery and A. W. Stickney, 435 Allerest Road, San Mateo California

12. The Lessee shall furnish each of the Lessors with duplicates of all sales of concentrate units, including smelter and other records of all concentrates removed, shipped or sold from the leased property.

13. The Lessors or their authorized agent may at any time enter upon and examine the leased premises, including inspection and examination of mining, milling, treatment, stockpiling and all other operations of the Lessee, and the Lessee shall assist in such inspection.

14. The Lessee shall sample each ton of ore mined and milled, as the ore goes to the mill, by uniform methods, and each sample shall be assayed by the Lessee, and a record thereof kept, whereby the grade of each ton of ore mined and milled shall be determined.

delete RMA

15. The Lessee shall pay and discharge when due all taxes upon the leased premises, and all taxes known as bullion taxes, and any other taxes upon the product of the mines, and also all sales or other taxes upon the property, its product, or the sale of its product, and shall report to the Lessors in writing the payment by him of all such taxes as and when they are paid.

16. The Lessee shall at his expense do and perform all necessary assessment and other work on each and all of the said nine (9) mining claims, and make, file and record all affidavits and proofs thereof, at the times and in the manner required for unpatented mining claims under the laws and regulations of the United States of America and the State of Nevada, and do all things which may be required to the end that said locations shall remain fully valid and subsisting.

17. This lease and agreement are made in reliance upon the reliability and capacity of the Lessee, and neither this lease and agreement nor any right, title or interest of the Lessee therein or thereunder shall be assignable or otherwise transferable by the Lessee, voluntarily or involuntarily, or by operation of law, without the written consent of the Lessors first had and obtained.

18. Should mining or milling operations of the Lessee be interrupted by acts of God or the public enemy, force majeure, strikes, or other circumstances beyond the control of the Lessee, such prevention shall while it exists excuse the performance by the Lessee of his obligations of mining and milling herein provided for, but such operations shall be resumed as soon as such interruption ceases or can be removed by the Lessee, and written notice of any such interruption shall be given by the Lessee to each of the Lessors without delay.

19. The Lessee shall at all times keep in force and effect workman's compensation insurance to the full extent required by law, and also public liability insurance in the amount of not less than three hundred thousand (300,000) dollars, and keep the Lessors informed as to the identity of the policies of such insurance and the names of the companies issuing such policies. The Lessee shall keep the leased property in a good and safe condition and shall indemnify and hold harmless the Lessors and each of them against liability for or on account of death of or injury to any person and damage to property.

20. Any notice which is herein provided may or shall be given by the Lessors to the Lessee or by the Lessee to the Lessors shall be deemed to have been given when deposited

in the United States mail in a United States postoffice in Nevada or in California, postage prepaid, addressed to the party to whom such notice is given, at the following addresses:

To the Lessor Robert N. Avery at
2111 Forest View Ave
Hillsborough, Calif.

To the Lessor Alfred W. Stickney at
435 HILLCREST RD
SAN MATEO, CALIF

To the Lessee at
P.O. Box #1
Nixon, Nevada

Any party by written notice to the others given as aforesaid may change from time to time the address to which notices to him shall be mailed.

21. The Lessee shall keep the leased property and all machinery, tools and equipment thereon, his own as well as the Lessors', and all the production therefrom, in good order and condition, reasonable wear and tear excepted, and free and clear of liens and encumbrances done, made or suffered by him, or arising out of any act or neglect on his part under this lease and agreement, and shall not remove from the leased property any machinery, tools or equipment of the Lessors, nor shall he remove therefrom his own machinery, tools or equipment until the expiration or sooner termination of this lease and agreement.

22. The Lessors may at any and all times post upon the leased property a notice or notices of non-responsibility,

and the Lessee shall maintain all such notices in good order and condition.

23. The Lessors consent that if the Lessee wishes at any time while he is not in default hereunder to terminate this lease and agreement, cease mining and milling work, vacate the premises peaceably and remove his machinery, tools and equipment, he may do so by giving to each of the Lessors ten (10) days written notice in advance, by registered or certified mail, of his intention so to do, provided he shall pay the Lessors all sums payable to them hereunder up to the date of such termination, and upon the expiration of said ten (10) days this lease and agreement shall be terminated.

24. In case the Lessee shall die, or in case he shall neglect or refuse to make any payment, or to do or perform any work hereunder required of him, or to perform or observe any of the agreements, covenants, terms and conditions on his part to be performed or observed hereunder, and such default shall continue for a period of thirty (30) days after written notice thereof to him by the Lessors or either of them, then and in either such case this lease and agreement and all rights of the Lessee thereunder shall forthwith be and become terminated and the Lessors may reenter the premises and take possession thereof and of all ores, concentrates and other production therefrom.

25. Upon the expiration of this lease and agreement, or upon its sooner termination either by the Lessors or the Lessee, the Lessee may remove therefrom his machinery, tools and equipment, but not any foundations or installed fixtures, within sixty (60) days after such expiration or

sooner termination, provided that in case the Lessee is then in default in the payment of any sums owing to the Lessors, he shall first pay the same to the Lessors. Upon any such expiration or sooner termination, all unsold concentrates shall be disposed of by the Lessors, and the proceeds thereof shall be applied by the Lessors, first to the payment to them of royalty thereon, next to the payment of any sum required to make good any default of the Lessee, and the balance to the Lessee.

26. The Lessee's covenants herein shall be conditional limitations and breach thereof shall entitle the Lessors to terminate this lease and agreement, upon written notice as provided in paragraph 24 above.

27. This lease and agreement shall bind and inure to the benefit of the heirs, executors, administrators and assigns of the Lessors and the heirs, executors and administrators of the Lessee.

IN WITNESS WHEREOF, the parties hereto have subscribed their names, the day and year first above written.

Robert H. Avery

Regina M. Stokley

LESSORS

Lessee Corporation

LESSEE

COPY

ITEMS 2(a), 6(c) & 6(d)

DMEA
RECEIVED OCT 30 1957

DATE	INITIALS	CODE

INVENTORY

STORMY DAY MINE

MINE INVENTORY

1	ea.	Steel ore bin complete plus oil operated door	1,163.40
		Air Hose 200' at .50 ft.	100.00
5	ea.	Lubricators - hose and fittings	170.00
1	ea.	Atlas 656 4W Atchd to	485.00
1	ea.	Pusher B M K 41-A	
1	ea.	Pusher type legs B M T 63-A	210.00
1	ea.	Air Grinder and hand operated Jig sharpener	395.00
1		Rail bender (Jim Crow)	18.00
2	ea.	Timber Axes at 7.50	15.00
1	ea.	Hand Saw 5½'	8.50
1	ea.	Hand Saw 36"	8.00
1	ea.	Carpenter square - timber	1.87
2	ea.	hammers, double jack 8#s	16.00
2	ea.	single jacks	4.75
1	ea.	small jaw vise	28.00
1	ea.	med. st. jaw vise	31.75
1	ea.	pipe type vise	14.75
6	ea.	miners picks	24.00
6	ea.	shovels various	22.80
2	ea.	blow pipes and fittings	8.00
1	ea.	alum. stretcher	22.50
1	ea.	blacksmith forge	25.00
1	ea.	anvil med. wt.	32.50
2	ea.	New Rocker Type 22 cu. ft. mine cars at 228.00	456.00
2	ea.	Rocker type Mine Cars used 22 cu ft. at 157.00	314.00
1	ea.	Timber Car	7.00
1	ea.	16 cu. ft. Mine Car used end dump (poor condition)	5.00
1	ea.	500 gal. light galv. tank - rectangular for fuel	45.00
1	ea.	hvy. type rivited 3'x8' Air receiver and fittings	278.65
1	ea.	hvy. type rivited 5'x10' Air Receiver and fittings	585.40
1	ea.	hvy. type reinforced air receiver 4'x8' and "	412.80
1	ea.	rivet type water pressure tank 5'x2' with fittings	141.20
1	ea.	rivet type water pressure tank - special s.p. takeoff Uhalde owned 8'x18"	136.00
1	ea.	welded type water pressure tank and fittings 24"x50"	74.00
1	ea.	single drum T-Ingersol-Rand Lt. Wt.	150.00
1	ea.	Single drum T-Ingersol-Rand Med. (U.M.)	275.00
		Cable for each tugger 125' - 250'	expendable
~~2~~	~~ea.~~	~~Shannon Blocks at 26.50~~	~~53.00~~
(4)	ea.	safety mine car hitches at 5.50 ea.	22.00
1	ea.	portable homelite 2500 wt. light plant	350.00
1	ea.	V-42 (Canvas carry) mineral light	65.00
		1 ea. lens extra	9.00
1	ea.	V-61 Sorting light complete with transformer	227.00
1	ea.	oil circulating heater in work shop	25.00
1	ea.	work shop benches lights etc.	532.00
1	ea.	Atlas Imperial Diesel Electric 3-KW Generator complete with panel board	676.47
1	ea.	D.C. Generator 90 Amp. 22-V. and bracket	31.80
400'		Hvy. Copper wire D.C. Type	168.00
900'		Special water proof wire electric 14 ga.	134.00
2	ea.	JR 38 Stopehammers at 710.00 ea.	1,420.00
~~1~~	~~ea.~~	~~JR-38-A Stopehammer (718.00) cwo 162.50~~	~~400.00~~
1	ea.	CopcoStoper Inline 652MEC	752.80
2	ea.	Schute Doors (Ore gates)	36.00
1	ea.	315 CFM Gyro Ingersol Rand Compressor portable type	
			(~~6,776.67~~)
			7,776.67

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

MINE INVENTORY

1	ea.	Shelter for light plants and blacksmith shop	$110.00	
1	ea.	Powder Magazine 2 Ton Cap	245.00	
1	ea.	Zinco 401 Air Mule Complete with fittings	1,943.12	
~~1~~	~~ea.~~	~~Chain-Hoist--1/2-ton-block-type~~	~~15.95~~	
		3 tons rail in place at 170.00/ton	510.00	
~~1~~	~~ea.~~	~~Tool-Box-Copco~~		
		~~Misel.-Small-Tools-in-shop~~	~~25.00~~	
5	ea.	50 gal. type barrels in use at 6.00/ea	30.00	
1	ea.	Trailer House Complete with bed and stove	250.00	
4	ea.	Double edge sealing bars 1" at 12.50 ea.	50.00	
20	ea.	Dixon Type 3/4" Spuds	21.00	
12	ea.	3/4" Slef Tightening Valves at 6.00 ea.	72.00	
4	ea.	2" Self Tightening Valves at 11.00 ea.	44.00	
~~2~~	~~ea.~~	~~Gas Pumps hand operated at 4.00 per each~~	~~8.00~~	4.00
1	ea.	Slusher Scraper	50.00	
~~4~~	~~ea.~~	~~5-Gal.-Spout-Type-Cans--at-1.09~~	~~4.40~~	
1	ea.	500 Gal Cylindrical water tank	110.00	

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

INVENTORY

STORMY DAY MINE

PIPE INVENTORY FOR BUNKHOUSE USED AND RECOVERABLE

427' of 2" pipe at .40		170.80
100' of 1½" pipe at .24		24.00
75' of 1" pipe at .18		13.50
15' of 2" fittings, various		12.00
20 of 1" " "		7.50

PIPE INVENTORY AT MINE

450' of 2" pipe at .40		180.00
300' of ¾" pipe at .06		18.00
300' of 1½" pipe at .24		72.00
60' of 3" pipe at .60		36.00
300' of 1" pipe at .18		54.00
fittings, various and valves		211.85

400' of 2" Plastic at .42		168.00
900' of 1" Plastic at .16		144.00
600' of ¾" " at .12		72.00
150' of ½" " at .08		14.00

Robert M. Avery and A. H. Stielmey, 435 Hillcrest Road, San Mateo, Calif.

INVENTORY

STORMY DAY RANCH

BUNKHOUSE INVENTORY

1.	6 ea. gas lamp fixtures at 26.80	150.00
2.	5 ea. individual gas heaters	120.00
3.	4 ea. steel cots - complete $14.50 ea.	68.00
4.	4 ea. mattresses	
5.	4 ea. pillows	
6.	2 lavatories complete $29.75 ea.	59.50
7.	1 ea. shower stall metal - complete with fixtures	76.00
8.	1 ea. toilet complete	35.75
9.	1 ea. medicine cabinet	11.00
10.	1 ea. 50 gallon gas operated water tank	144.00
11.	1 ea. 1000 gallon gas flame tank plus fuel	400.00
12.	1 ea. metal septic tank	280.00
13.	Fittings and pipe	75.00
14.	1 ea. double bed	7.50
15.	1 ea. table 4' x 6'	5.00
16.	1 ea. 1000 gallon water tank wood	45.00
	fittings for tank	24.00
17.	2 ea. cots steel, mattress, pillows complete	24.00
18.	Building, bunkhouse and kitchen	3,500.00
19.	One double mattress	15.00

Exhibit A

INVENTORY

STORM DAY HOME

KITCHEN INVENTORY

1.	One each gas stove - 40,000 BTU	795.00
2.	One each Servel Refrigerator 8 cu. ft.	346.00
3.	One sink complete with fittings	52.00
4.	8 plates at 30¢	2.40
5.	8 small plates at 5¢ (Ex Muy White)	1.20
6.	8 fruit bowls at 10¢	.80
7.	8 saucers at 12¢	.96
8.	8 cups at 18¢	1.44
9.	8 bowls at 23¢	1.84
10.	2 platters serving at 85¢	1.70
11.	8 knives at 18¢	1.44
12.	8 forks at 14¢	1.12
13.	8 soup spoons at 14¢	1.12
14.	8 teaspoons at 8¢	.64
15.	8 tablespoons at 18¢	1.44
16.	2 sugar dispensers at 29¢	.58
17.	2 pr. salt and pepper shakers at 17¢	.34
18.	1 ea. can medium flour	3.50
19.	1 ea. 6 qt. aluminum kettle	2.75
20.	1 ea. can garbage with lid, large	3.50
21.	1 ea. flour sifter	.39
22.	1 ea. rolling pin	.65
23.	1 ea. pot holder	1.00
24.	2 ea. cookie tins at 49¢	.98
25.	2 ea. cooking pans deep thread at 1.29	2.58
26.	2 bread pans	.58
27.	1 cake pan	.69
28.	1 large pie pan	.70
29.	2 cake pans, small	.69
30.	1 pie pan, small	.15
31.	6 ea. plastic glasses	.98
32.	1 mixing bowl set (4)	3.50
33.	1 dust pan	.35
34.	1 broom	1.59
35.	2 ea. syrup pitchers at 29¢	.58
36.	1 ea. can opener	3.49
37.	1 ea. grater	.25
38.	2 ea. 8 cup coffee pots at 2.69	5.38
39.	1 double boiler (2 pot type - 4 qt.)	1.59
40.	1 can, small (for bread)	2.89
41.	1 ea. 12 Qt. Pail	.85
42.	1 ea. Dutch Oven	3.49
43.	1 ea. Potato Masher	.39
44.	1 ea. Blender (Egg Mixer)	.25
45.	1 Knife Set - 2 knives, 1 spoon and 1 fork	2.25
46.	1 Turner (Hotcake)	.79
47.	1 Skillet - small	.49
48.	1 ea. Aluminum dish pan	2.45
49.	1 ea. No. 12 large skillet and lid	5.50
50.	2 ea. benches at 4.00	8.00
51.	3 ea. double gas lamps flame fixtures	45.95
52.	1 ea. 90,000 BTU heating range	162.00
53.	1 ea. 2,500 ft. air conditioner	124.50
54.	1 ea. 6 cu. ft. gas refrigerator	150.00
55.	hose fittings	8.95
56.	3 ea. chairs at 2.50	7.50
57.	1 ea. cleaver	4.25
58.	1 ea. china cups	4.10
59.	1 ea. whip	1.25
60.	2 ea. boilers at 2.50	5.00
61.	2 ea. serving spoons at 39¢	.78
62.	1 ea. deep fat griddle fryer	1.60
63.	1 ea. pancake griddle	2.90
64.	1 ea. Butcher type meat saw	1.89
65.	1 ea. Roaster type skillet	7.60

COPY

ITEM 2(c)

GETCHELL MINE INC.

Red House, Nevada

CUSTOM ORE SETTLEMENT SHEET

Received of: Stormy Day Mine
Dr. Fred Anderson
130 South Virginia Street
Reno, Nevada

Date Rec'd 5-6-54
Shippers Mark
Lot No.

BY GETCHELL MINE INC.

1	Trucks weighing	33,340	Gross Lbs.
1.0	% Moisture	11,270	Tare Lbs.
0.78	% WO_3	22,070	Net Wet Lbs.
10.9245	Net dry tons	221	Moisture Lbs.
8.521	Contained STU WO_3	21,849	Net Dry Lbs.

PAYMENT:

Pay for 80% contained STU WO_3 6.817 at $46.00 $ 313.58

LESS CHARGES:

Treatment of 10.9245 Net Dry Tons at $6.00	$65.55	
Sampling and Assaying	$10.00	
Umpire Assay Lot #1	$ 7.50	
TOTAL		$ 83.05

NET PROCEEDS	$ 230.53
Less Partial Payment	170.00
Bal. Due	$ 60.53

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

COPY

ITEM 2(c)

GETCHELL MINE INC.

Red House, Nevada

CUSTOM ORE SETTLEMENT SHEET

Received of: Stormy Day Mine
Dr.Fred Anderson
130 South Virginia Street
Reno, Nevada

Date Rec'd 5-7-54
Shipper's Mark
Lot No.

BY GETCHELL MINE INC.

1	Trucks weighing	77,490	Gross Lbs.
1.7	% Moisture	29,700	Tare Lbs.
0.72	% WO_3	47,790	Net Wet Lbs.
23.489	Net Dry Tons	812	Moisture Lbs.
16.912	Contained STU WO_3	46,978	Net Dry Lbs.

PAYMENT:

Pay for 80% contained STU WO_3 13.530 at $46.00 $622.38

LESS CHARGES:

Treatment of 23.489 net dry tons at	$140.93	
Sampling & Assaying	10.00	
Umpire Assay Lot #2	7.50	
TOTAL		$158.43

NET PROCEEDS	$463.95
Less partial payment	330.00
Bal. Due	$133.95

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

COPY

ITEM 2(c)

GETCHELL MINE INC.

Red House, Nevada

CUSTOM ORE SETTLEMENT SHEET

Received of: Stormy Day Mine
Dr. Fred Anderson
130 South Virginia St.
Reno, Nevada

Date Rec'd 5-17-54
Shipper's Mark
Lot No.

BY GETCHELL MINE INC.

1	Trucks weighing	75,720	Gross Lbs.
1.2	% Moisture	29,620	Tare Lbs.
0.64	% WO_3	46,100	Net Wet Lbs.
22.7735	Net Dry Tons	553	Moisture Lbs.
14.575	Contained STU WO_3	45,547	Net Dry Lbs.

PAYMENT:

Pay for 80% contained STU WO_3 11.660 at $46.00 $536.36

LESS CHARGES:

Treatment of 22.7735 net dry tons at $6.00	$136.64	
Sampling & Assaying	10.00	
TOTAL		$146.64

NET PROCEEDS $389.72

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

First Seven Shipments
to the U. S. Vanadium Corporation, Bishop, California
from Six Development Raises
between Adit No. 11 level and Adits Nos. 1 and 2 levels

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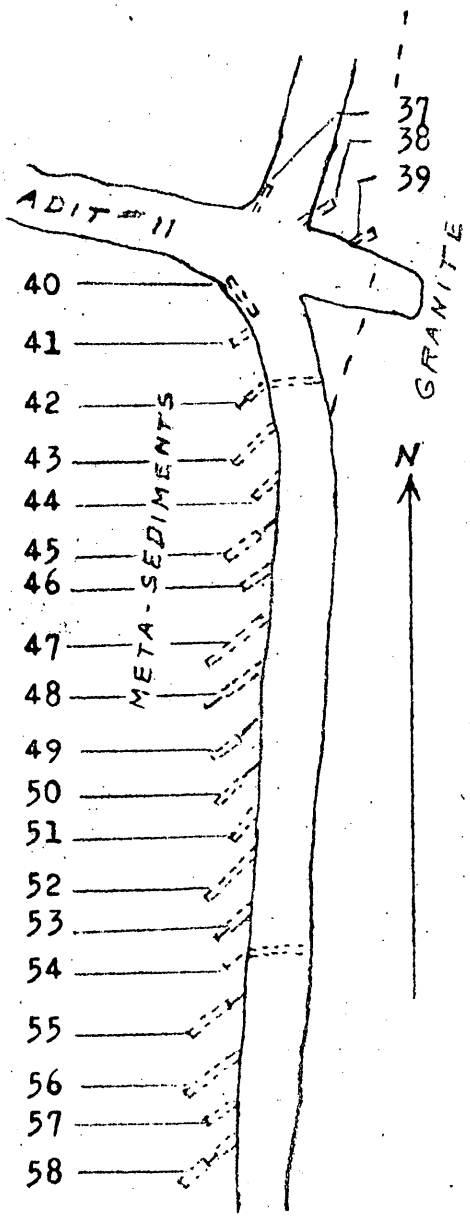
SAMPLING

Lot No.	Wet Wgt.	% H_2O	Dry Wgt.	Grab %	U.S.V.	Control	Umpire	Tentative Settling	Final Settlement	Addt'l Payment
1061	306790	2.38	299499	1.49	1.10	1.15	1.07	6257.36	6257.36	
1081	327590	2.56	363042	1.03	.86	.72	----	5776.07	5776.07	
1104	335850	2.97	325876	.72	.72	.62	----	4340.84	4340.84	
1113	425830	3.20	412200	.82	.75	.85	.79	5719.46	6024.34	304.88
1123	452460	2.52	441041	.80	.66	.90	.70	5384.98	5711.32	326.34
1133	343990	1.94	337318	.65	.43	.65	.57	2610.72	3461.04	850.32
1145	579570	2.54	564846	.65	.57	.95	----	5795.28	6400.00	
	2,817,080		2,743,822		.735%	.91%			37,970.97	

NOTE: Shipments 1-7 = 1,408.5 wet tons

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.



Jackhammer holes drilled at 5.0 feet intervals as shown on map:

Sample #37: 3.0' tactite, hit fault gouge.

#38: 4.8' tactite, some sulfides.

#39: 4.9' tactite, heavy sulfides and some granite in end of hole.

#40: Chip sample taken along drift.

#41: 1.6' tactite, hit fault gouge and limestone.

#42: 0.5' tactite, hit gouge and lime. Chip sample taken across width of drift.

#43: 6.4' tactite, (WO_3), hit lime.

#44: 4.8' tactite, (WO_3), hanging wall not reached.

#45: 7.55' tactite (WO_3), hanging wall not reached.

#46: 6.1' tactite, hit limestone hanging wall.

#47: 7.5' tactite, hanging wall not reached.

#48: 5.6' tactite, limestone penetrated for 2.0'.

#49: 3.5' granite, then tactite for a depth of 7.3'. Some mineralization.

#50: 3.0' granite, then tactite to 6.1' hit limestone.

#51: 5.5' tactite, then limestone.

#52: 7.5' tactite, hit limestone.

#53: 2.5' red tactite, limestone to 5.0 feet.

#54: 0.5' tactite, then limestone, no drill sample. Chip sample taken across back.

#55: 2.5' limestone, then tactite (WO_3) to 7.4'.

#56: 7.5' tactite (WO_3), hanging wall not reached.

#57: 4.0' tactite, then limestone to 5.0 feet.

#58: 2.3' tactite, 2.0' limestone, then tactite to 7.6'.

Note: Double lines indicate tactite

ASSAYS by Abbot A. Hanks, Inc.

#38	1.77% WO_3	#45	1.71% WO_3
#39	0.26 "	#46	1.01 "
#40	0.80 "	#47	0.02 "
#41	0.10 "	#48	0.02 "
#42	1.74 "	#49	0.13 "
#43	3.26 "	#50	0.03 "
#44	0.58 "	#51	0.49 "
#52	0.63 "	#56-A	1.07% WO_3
#53	1.07 "	#56-B	1.72 "
#54	0.89 "	#57	3.25 "
#55	0.92 "	#58	1.09 "

Sample map of portion of drift south, Adit No. 11

Stormy Day Mine, Pershing County, Nevada

Scale: 20' = 1"

DMEA - 2925

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

COPY ITEM 2 (d) and (g)

REPORT OF ASSAY

ABBOT A. HANKS, INC.

Assayers, Chemists, Engineers
624 Sacramento Street
San Francisco

November 25, 1953

Deposited by Dr. Fred M. Anderson
6 State Street
Reno, Nevada

Sample of ore

Labty No.	Mark	Percentages
		TUNGSTIC OXIDE
61860	#38	1.77%
61	#39	0.26
62	#40	0.80
63	#41	0.10
64	#42	1.74
65	#43	3.26
66	#44	0.58
67	#45	1.71
68	#46	1.01
69	#47	0.02
70	#48	0.02
71	#49	0.13
72	#50	0.03
73	#51	0.49
74	#52	0.63
75	#53	1.07
76	#54	0.89
77	#55	0.92
78	#56-A (Dark Ore)	1.07
79	#56-B (Light Ore)	1.72
80	#57	3.25
81	#58	1.09

ABBOT A. HANKS, INC.

signed - MARTIN P. QUIST

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #1

Strike: East Dip: -45°

Underlined footages indicate mineralization or tactite structures.

Feet		Description
0	- 8	Bx core
8		Ax core
0	- 21	Silicified limestone, inclusions ofpyrite
21	- 21.4	Granitic injected sill interlain between beds of limestone
21.4	- 45	Varying amounts of silicified ribbed limestone within a massive dark lime.
45	- 45.8	Tactitic material, garnetized and silicified, containing small amounts of molybdenum occasional pyrite
45.8	- 90	Limestone varying between massive bedded to thin bedded, silicified along bedding planes.
90	-118.5	More massive granular, marbellized limestone, epidote increasing in content to contact.
118.5	-125.3	Heavy dark tactite, garnet and epidote predominant. Tactite gradually changing to a quartzose granite. 118.5 - 121' assayed 0.62% WO_3, 118.5 - 125.3' assayed 0.34% WO_3. Sludge.
125.3	-128	Quartzose material, granitic texture. No WO_3 lamped.
128	-130.5	Aplitic granite.
130.5	-135	Massive granite.

135' end of hole.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo,Calif.

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #2

Strike: S 72° E Dip: -42°

Underlined footages indicate mineralization of tactite structures.

Feet	Description
0 - 8	Bx core. Banded limestone, silicified, some pyrite
8	Ax core
8 - 9.4	Granitic dike or sill in limestone beds.
9.4 - 15	Softer marbellized limestone
15 - 18	Semi-epidotized in a hard crystalline limestone.
18 - 38	Same as above, slightly marbellized
38 - 58	No core (plug bit)
58 - 66	Some banding in a hard limestone, slightly marbellized.
66 - 72	No core (plug bit)
72 - 93	Very fine granular structure, soft, some epidote throughout limestone.
93 - 96	Same as above, increasing epidote.
96 - 97	Garnetized zone within a marbellized limestone. Red garnet, no epidote and no WO_3 noted.
97 -103	Continued epidotized limestone, hard, slightly marbellized.
103 -114	Continued epidotized limestone, hard, slightly marbellized.
114 -117	Increasing epidote banding.
117 -118.5	Heavy pyrite (25% est.), considerable chalcopyrite in quartz groundmass. No WO_3.
118.5 -119.2	WO_3 intermixed with heavy sulfides in tactite. Assayed 1.07% WO_3.
119.2 -121	Dark red tactite with occasional specks of scheelite.
121 -123	Greenish cast quartz, (no WO_3) in an increasing granitic structure. 118.5 - 123 Sludge .38%
123 -140	Massive granite to end of hole.

140 feet end of hole.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #3

Strike: S 56° E Dip: -40°

Underlined footages indicate mineralization or tactite structures.

Feet	Description
0 - 8	Bx core
8	Ax core
7 - 7.2	Seam of pyrite and sphalerite in banded silicified limestone
7.2 - 10	Banded limestone
10 - 10.4	Granitic dike material (sill) within a marbellized, epidotized limestone, silicious near dike.
10.4 - 27	Semi-epidotized limestone, crystalline
27 - 28	Soft gougy material, water course?
28 - 28.5	Garnet and quartz in a granular limestone. No WO_3.
28.5 - 37	Semi-epidotized limestone, somewhat marbellized
37 - 48	No core (plug bit).
48 - 54	Same as above, little change in composition.
54 - 54.6	Granitic dike material cutting crystalline limestone. Some pyrrhotite and epidote. No WO_3.
54.6 - 67	Crystalline limestone inclusions of epidote.
67 - 72	Dark red garnet in white quartzose groundmass, considerable epidote (No WO_3 lamped).
72 - 88.5	White coarsely crystalline limestone, considerable epidote.
88.5 - 93	Mostly quartzose structure, some epidote and occasional garnet crystals (No WO_3).
93 - 93.4	Bank of garnetized tactite in a white quartz (No WO_3)
93.4 - 95	Gradational change from a white quartz to a quartzose granite, granitic texture.
95 - 105	Quartzose granite, glassy texture.
105 - 118	Quartz with a semi-granitic texture, slightly gneissoid. Occasional WO_3 specks, very small.
118 - 179	Massive granite, no alteration areas or changes in texture.

179 feet end of hole.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #4

Strike: N 72° E Dip: -42°

Underlined footages indicate mineralization or indication of mineralization.

Feet	Description
0 - 8	Bx core
8	Ax core
4 - 4.1	Pyrite seam
4.1 - 29	Slightly granular, marbellized limestone, epidotized.
29 - 64	No core, plug bit.
64 - 99	Marbellized limestone, slightly schistose, containing varying amounts of epidote.
99 - 100	Red garnetized tactite, containing epidote and molybdenum. No WO_3 noted.
100 - 117	Dark semi-felsic textured limestone, mottled white splotches, slightly epidotized throughout.
117 - 117.5	Granitic sill intruding limestone bedding planes
117.5 - 118	Tactitic material, epidotized, altering to mostly quartz. Occasional pyrite throughout section. No WO_3.
118 - 124	Increasing epidote in a siliceous limestone.
124 - 129	Red garnetized tactite (WO_3 throughout entire section.) Lower part of section alters to greenish cast, highly siliceous granite. 124 - 126 assays 0.62% WO_3 124 - 129 " 0.34% WO_3
129 - 130	Silicified granite altering to a massive granite.

130 feet end of hole.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #5

Strike: S 85° E Dip:-67°

Underlined footages indicate mineralization or tactite structures.

Feet	Description
0 - 2	Bx core
2	Ex core
0 - 10	Banded limestone, slightly siliceous and crystalline.
10 - 115	No core (plug bit)
115 - 118	Soft crystalline limestone, marbellized
118 - 119.5	Dark brown pyrrhotite and garnetized tactite in quartz groundmass (No WO_3 noted)
119.5 - 126	Red tactite, altering to a granitic textured quartz at end of the section. 119.5 - 121 Occasional small crystals increasing WO_3 values a t 121'. Sample from 121 - 124.5 Sludge assayed 0.02% WO_3, 124.5 - 126 red tactite but no WO_3 lamped.
126 - 135	Massive granite, unaltered.

135 feet end of hole.

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

Stormy Day Mine
Pershing County, Nevada

Diamond Drill Hole #6

Strike: N 62° E Dip: -67°

Underlined footages indicate mineralization of tactite structures

Feet	Description
0 - 2	Bx core
2	Ex core
0 - 14	Banded and slightly silicified limestone. Granitic sill at 7.5 feet.
14 - 129	No core (plug bit)
129 - 134	Crystalline limestone, considerable epidote.
134-138	Garnetized tactite at 134', occasional WO_3 between 134 - 134.5'. Rock becoming less garnetized and more quartzy at end of section.
138-169	Gradational alteration to a massive granite. Continued granite to end of hole.

169 feet end of hole.

Diamond Drill Hole #1a

Strike: East Dip: Flat

Hole drilled from end of No. 11 adit, along the continuation.

Feet	Description
0 - 2	Bx core
2	Ex core
0 - 98	Entire hole drilled in a massive granite, no alteration in composition or no other structures encountered.

98 feet end of hole.

BID ON DRIVING 220 FEET OF DRIFT
ON CONTACT ZONE NORTHERLY FROM FACE OF ADIT NO. 11 NORTH DRIFT
AT STORMY DAY MINE
- - - - - - - - - - -

Price - $30.00 per foot.

Based on bidder furnishing the following equipment and supplies:

20 ft. Water Pipe
1 - Swede Drifter - Copco
Necessary drill steel
Necessary air and water hoses
All necessary small tools
All necessary fuel, oil and grease

And paying the required insurance and payroll taxes.

Owner supplying remaining needed equipment.

BID FOR LONG-HOLE DRILLING
INTO HANGING WALL FROM ADIT NO. 11 NORTH DRIFT PRESENT AND PROPOSED
AT STORMY DAY MINE
- - - - - - - - - - -

Price - $1.00 per foot.

Based on bidder supplying the above itemized equipment except drill steel. Bid is based on not less than 150 feet of long-hole drilling, with a maximum hole depth of 25 feet.

Owners supplying the long-hole steel and remaining required equipment.

TIME REQUIRED to complete 220 feet of drift and the long-hole exploration based on one 2-man shift a day - 6 months.

Submitted by:

Claude B. Lovestedt
Claude B. Lovestedt

October 18, 1957

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, Calif.

ITEM 6(a)

DMEA
RECEIVED OCT 30 1957

DATE	INITIALS	CODE

P. O. Box 2463
Reno, Nevada
September 30, 1957

Mr. Alfred W. Stickney,
435 Hillcrest Road,
San Mateo, California.

Dear Mr. Stickney:

I am interested in bidding on 400 feet of drifting, north on Adit No. 11 level - Stormy Day Mine.

The bid price, on a five by seven foot (5'x7') drift, would be $32.50 per foot and an additional $7.00 per foot when timbering is required.

Adjustments from these figures would be made to you on equipment and supplies furnished by you.

Should you desire a breakdown of the $32.50, it would be necessary for me to know what equipment we would use and the supplies you furnish.

Yours very truly,

John H. Uhalde
JOHN H. UHALDE

JHU:H

Robert N. Avery and A. W. Stickney, 435 Hillcrest Road, San Mateo, California

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 12 1958

DATE	INITIALS	CODE
5/12	C	200
	WSM	400
		221

1605 Evans Avenue
Reno, Nevada

May 6, 1958

Mr. Alfred W. Stickney
435 Hillcrest Road
San Mateo, California

Re: Docket No. DMEA-4861 (Tungsten)
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

Dear Mr. Stickney:

Are we to understand from your letter of April 30, 1958 that you wish to reactivate referenced docket and that you are prepared to start work in the reasonably near future if a contract is approved?

It is not the DMEA policy to consummate a contract and place it in the inactive file until the applicant wishes to start work. The contract gives the "on or before" starting date and the completion date. The "on or before" starting date is usually within six weeks after date of contract.

We have no information as to what action our Washington office had taken on your application previous to your request that it be placed in our inactive file.

Please advise us promptly if you wish your application to be reactivated.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C. w/ 2 copies of Mr. Stickney's letter.
RMSmith
File
Chron

DMEA FO .FERENCE SLIP
REV. 12-5 MINERALS EXPLO TION ADMINISTRATION

TO:	INITIALS	DATE
1. 100		
2. 110		
3. 120		
4. 400		
5.		

FROM: W. S. MARTIN

FOR: Check items for action desired

____ Action ____ Reply for signature of ____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS:

Believe we should wait and see what answer Stickney sends to Ricker

WSM
5/12/58

OK to let this go to files now
File letter and inside letter
WSM 7/2/58

INT.-DUP. SEC., WASH., D.C. M8278

ALFRED W. STICKNEY
CONSULTING MINING ENGINEER AND GEOLOGIST
436 HILLCREST ROAD
SAN MATEO, CALIFORNIA

April 30, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 1958
DATE | INITIALS | CODE

Mr. Spangler Ricker, Executive Officer
Defense Minerals Exploration Administration
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4861 - Tungsten
Stormy Day Mine
Pershing County, Nevada

Dear Spangler:

After requesting early in March that our application for exploration assistance on the Stormy Day mine be postponed until we could foresee the likelihood of profitably operating the mine with repayment of the assistance, and receiving advice that our application had been withdrawn from your active files, it was rather unpleasant a few days ago to read in the Mining World that Congressman Kirwan's House Appropriations Subcommittee in its report directed "that no additional tungsten contracts be approved".

We do not know the status of our application prior to its withdrawal as requested from your active files. It may have been approved but awaiting the summer season, as requested, before starting the exploration as it can be done somewhat more economically in the summer. However, it may not have been approved but could be if the contract work was started immediately, which we can and would do. Of course, if it has been approved but can remain on your inactive file until a tungsten price permitting mining operation can be foreseen, such would appear advisable.

In the event that the proposed exploration should be initiated now to be favored by DMEA assistance, we did secure last month contract prices for the work from Harold R. Playford of Sparks who is favorably known to your office, and from Gerald B. Hartley of Reno, a graduate mining engineer with considerable varied experience in tungsten mining. This was done as Claude B. Lovestedt, whose contract was submitted with the application, is no longer available to undertake the work. Both Playford and Hartley are free to undertake the work. The latter has submitted the more favorable contract as follows:

Initial Rehabilitation:

Relaying the last 75 feet of rail in the present north drift, installing two sets of timber in the present drift face, miscellaneous repairs and clean-up estimated to cost about $400 and requiring two weeks.

Drifting:

220 or 400 feet at $25 per foot plus $2 a foot for installing any required timber. As the size of the drift will be approximately 6' x 7', it is anticipated little if any timbering will be required. The present north drift was driven so wide and high that it required timbering.

Downhole drilling:

$1 per foot.

Hartley furnishes all day to day supplies, such as powder, fuse, caps, diesel oil, gasoline, oil and grease, steel and bits, and carries social security, unemployment insurance and workmen's compensation.

We supply the present equipment on the property, any timber and wedges required (estimated at $5 per foot of drift), additional rails and supplies (estimated at $2 per foot), pipe (estimated at $1 per foot), repairs of equipment (estimated at $1 per foot of drift, and any ventilating fan and pipe required.

The contract costs submitted by Hartley appear somewhat less than those by Claude Lovestedt given in the application.

Initially and apart from DMEA participation we are putting the raise in the northern part of the present drift through to No. 1 level to provide ventilation and preserve the raise timbering. Both Hartley and we consider that this can provide sufficient ventilation for the proposed drifting at the rate of one shift a day, but if not, it will considerably shorten the amount of ventilation pipe required.

Both Playford's and Hartley's signed contracts will be mailed you if desired.

Personally it is unpleasant to raise the questions in the second paragraph stemming from the Subcommittee's report, but DMEA assistance would be appreciated and we desire to cooperate in every way.

Am leaving on May 4 for the AIME High Temperature Materials conference in Los Angeles and expect to be back on May 8. Apart from the technical aspects of the Conference it will be interesting to hear what Professor Grant of MIT saw in his recent tour of Russia.

With best personal regards to you and Mrs. Ricker,

Sincerely,

AWS/s

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3-17	Chapman	400
3-17	Martin	400
3/18	[illegible]	120
3/18	Johnson	110
		100
		220

MAR 21 1958

Messrs. Robert N. Avery and
Alfred W. Stickney
435 Hillcrest Road
San Mateo, California

Re: Docket No. DMEA 4861 - Tungsten
Stormy Day Mine
Pershing County, Nevada

Gentlemen:

As requested in your letter of March 8, 1958, to Mr. Spangler Ricker, the subject application for exploration assistance has been withdrawn from our active files.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing to our attention this proposed extension of work on the Stormy Day property.

Sincerely yours,

Administrator

TLCHAPMAN/dlm 3-17-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3-17	Chapman	400
3-17	Martin	400
		200
		220

March 17, 1958

MEMORANDUM

To: Allen S. Dakan, Director
Division of Operation, Control and Statistics, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Withdrawal of Application
Docket No. DMEA 4861 - Tungsten
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

The above application has been withdrawn as requested by the Applicant's letter of March 8, 1958, to Mr. Spangler Ricker, and recommended to us by night letter from Mr. Ricker, dated March 10, 1958.

W. S. MARTIN

W. S. Martin, Director
Division of Iron and Ferro-Alloys.

TLCHAPMAN/dlm
cc to: docket
Code 400

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3-17	Chapman	400
3-17	Martin	400
		110
		100

March 17, 1958

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Application for exploration assistance in the estimated amount of $13,580.50
Docket No. DMEA 4861 - Tungsten
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

The above-noted property was previously explored with assistance from the Defense Minerals Exploration Administration, Docket No. DMEA 2925, Contract No. 1dm-E521, for crosscutting, drifting and diamond drilling at a cost of $20,445.00, Government participation 75 percent $15,333.89. The project was certified including the four unpatented lode mining claims, the Stormy Day Nos. 1, 2, 5 and 6.

Ore discovered was as follows:

Original DMEA ESTIMATE	28,840 tons-	0.65% WO_3
Increase (Operator)	30,360 tons-	0.65% WO_3
Total	59,200 tons-	0.65% WO_3
Decrease (Production) 28% mined	16,521 tons-	0.65% WO_3
Net available	42,679 tons-	0.65% WO_3
Total royalty payments	11,738.08	76.5 percent.

Production stopped on termination of Government buying program.

By a Contract of Sale Agreement, dated May 27, 1957, the property was purchased from Fred M. Anderson, et al., by Robert N. Avery, 2111 Forest View Avenue, Hillsborough, California.

By an application for exploration assistance dated October 23, 1957, Robert N. Avery and Alfred W. Stickney, (Co-owners) requested additional work on the adit 11, to drift northerly 220 feet and test the hanging wall with six 25 foot long holes at 50 foot intervals, at an estimated cost of $7,947.00.

8623

A field examination was made on December 3, 1957, by H. W. Jones, Bureau of Mines, and J. E. Carlson, Geological Survey, who recommended Government assistance for 370 feet of drifting to the north end line of the property on the 11 adit level, and 225 feet of long hole drilling by 9 holes into the hanging wall of the drift. It was estimated that the cost would be $13,580.50, with Government participation at 50 percent, $6,790.25, and that the work might find about 6,200 tons of ore averaging 0.6 percent WO_3.

The property owned by the applicants and entered in the application consisted of 9 unpatented lode mining claims, located in unsurveyed part of Pershing County, Nevada, projected coordinates T. 30 N., R. 24 E., M.D. B. & M. and recorded as follows:

Claim Name		Book No.	Page No.
Stormy Day No. 1	Certified	10	91
Stormy Day No. 2	Certified	10	92
Stormy Day No. 5	Certified	10	94
Stormy Day No. 6	Certified	10	128
Stormy Day No. 11		15	174
Stormy Day No. 12		15	174
Stormy Day No. 13		15	175
Stormy Day No. 14		15	176
Stormy Day No. 15		15	177

Ore is found along a tactite zone on a sedimentary and granite contact.

The development work on the property consists of 835 feet of crosscut adits, 810 feet of drifts on four levels, partly connected by stopes and raises, and 986 feet of down diamond drilling from the lower adit. The diamond drilling proved the extension of the ore zone at depth.

Equipment on the property is available and in good condition, consisting of bunkhouse, change room, ore bin, workshop, water line and mining equipment.

The examining team recommends a contract for 370 feet of drifting and 225 feet of long hole drilling at an estimated cost of $13,580.50 and the Field Team concurs in this recommendation.

The Commodity Divisions of the Geological Survey, and the Bureau of Mines concur in this recommendation, dependent on the Administrative Policy of the DMEA concerning tungsten.

DMEA assistance on this property has already found a substantial tonnage of ore, and with the tonnage of good grade ore indicated and inferred, that remains to be mined, any further assistance might be difficult to justify at this time.

As of March 11, 1958, the following night letter was received from Mr. Spangler Ricker:

"Docket No. DMEA 4861 - Stormy Day Mine applicant has requested that application be placed in inactive file. Copy of request will be forwarded. Suggest processing be discontinued. S. Ricker"

W S Martin
W. S. Martin, Director
Division of Iron and Ferro-Alloys

TLCHAPMAN/dlm 3-17-58
cc to: Code Docket
Admr. R. File
Oper. Comm.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1958

DATE	INITIALS	CODE
3/17	C	220
	WSM	400

March 12, 1958

Memorandum

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

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

Subject: Docket No. DMEA-4861 (Tungsten)
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

Enclosed are two copies of a letter dated March 8, 1958 requesting that application for exploration aid on subject property be held in abeyance for an indefinite period.

We suggest that the request be granted and that the Applicant be advised that the application will be placed in your inactive files.

S. Ricker

Attachments

CONFIRMATION

March 10, 1958

NIGHT LETTER

Operating Committee
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

DOCKET NO. DMEA-4861, STORMY DAY MINE, APPLICANT HAS REQUESTED THAT APPLICATION BE PLACED IN INACTIVE FILE. COPY OF REQUEST WILL BE FORWARDED. SUGGEST PROCESSING BE DISCONTINUED.

S. RICKER

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1958
DATE | INITIALS | CODE

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1958

DATE	INITIALS	CODE

ALFRED W. STIGNEY
MINING ENGINEER AND GEOLOGIST
400 HILLSDEN ROAD
SAN MATEO, CALIFORNIA

REFER TO

March 8, 1958

Mr. Spangler Ricker, Executive Officer
Defense Minerals Exploration Administration
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4861 - Tungsten
Stormy Day Mine
Pershing County, Nevada

Dear Spangler:

It is now our opinion that there will be ample time to effect the exploratory development proposed in our application and some other work we have in mind if and when the price of tungsten shows sufficient strength to suggest it will reach a level permitting successful operation of the mine. Therefore, we are requesting and will appreciate the privilege of postponing indefinitely the work proposed in our application. If this is feasible and there are forms to be executed for this purpose, we will do so. It is possible that the DMEA would prefer not to and was not going to afford a contract at this time but would consider such if and when the price of tungsten suggested production and loan liquidation within a reasonable time.

The mine workings are such that idleness does no harm. There is some equipment, mine tract and other rehabilitation as well as road improvement which will be done by us during the idle period, for we do not consider that the domestic tungsten mining industry is dead and buried. Such can be done advantageously prior to exploratory development. As you know, the Stormy Day ore shoots have a good mining thickness and grade of ore. Rather simple beneficiation affords a high grade concentrate with around 93% recovery. When the average domestic tungsten mine is exploitable, the Stormy Day can be successfully operated. The ore reserves do not warrant a mill but the sizable unexplored locus may be expected to add sufficient reserves to make a mill in the locality practical.

Despite the gloom which advisedly hung over the AIME meeting in New York, I consider the domestic mining industry will recover.

Here's hoping the surgery you underwent has led to no subsequent annoyances as advisedly it did for Ernie Vogt.

All the best to you and Mrs. Ricker,

Sincerely,

AWS/s

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

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OPERATING COMMITTEE DEFENSE MINERALS EXPLORATION ADMN=

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1958 MAR 10 PM 8 41

DOCKET NO. DMEA-4861 STORMY DAY MINE APPLICANT HAS REQUESTED THAT APPLICATION BE PLACED IN INACTIVE FILE COPY OF REQUEST WILL BE FORWARDED SUGGEST PROCESSING BE DISCONTINUED=

S RICKER==

:DMEA-4861=

DMEA
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ORIGINAL FILE COPY

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

OFFICIAL FILE COPY DMEA RECEIVED MAR 7 1958		
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Washington 25, D. C.

Date March 4, 1958

DMEA Docket No. 4861
DMEA Contract No.
Commodity Tungsten
Name of applicant R. N. Avery & A. W. Stickney
Name of property Stormy Day Mine
Location of property Pershing County, Nevada
Estimated cost of project

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals and Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Subject: Review of Field Examination Report
(Application, Field Team Report, etc.)

1. Date of subject document: 2/11/58. 2. Date received by reviewer: 2/21/58.

3. Prior reports on this property known to reviewer: Yes [ ] No [X]

4. Prior reports on nearby properties known to reviewer: Yes [ ] No [X]

5. Information available on past production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [ ] No [X]

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. [ ]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [ ]
   c. Denial [ ]
   d. Agree with Field Team [X]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [X]
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary) I agree with the Field Team Recommendation of Approval.

R. W. Holliday

DMEA
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IN REPLY REFER TO:

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

Memorandum

February 24, 1958

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of field examination report, DMEA 4861 (tungsten), Avery and Stickney, Stormy Day mine, Pershing County, Nevada.

The examining team are of the opinion that additional exploratory work on the applicant's property would succeed in discovering new tungsten reserves. The property was the subject of DMEA 2925, Contract Idm-E521, and a Certificate of Discovery was issued on February 11, 1955.

A favorable geologic environment consisting of scheelite-bearing tactite layers along a limestone-granite contact exists on the property. So far, 19,523 tons of ore averaging 0.66 percent WO_3 has been mined. The examiners believe that their proposed drifting project would find at least one ore shoot of a size perhaps 75 feet long, 5 feet wide, and 250 along the dip.

I concur with the Field Team's recommendation for approval of the application to the extent that the proposed project is likely to discover about 6,200 tons of material having a grade of perhaps 0.60 percent WO_3. The matter of administrative DMEA policy with regard to tungsten will undoubtedly influence final disposition of the application.

W. P. Williams

W. P. Williams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

DMEA
RECEIVED FEB 19 1958

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2/21	C	220
	WSM	400

February 13, 1958

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4861 (Tungsten)
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada
(Your letter, November 18, 1957)

Enclosed are three copies of a report by J. E. Carlson, Geological Survey, and H. W. Jones, Bureau of Mines, on subject property.

The report recommends an exploration project at a total cost of $13,580.50, of which the Government's participation is $6,790.25.

Roscoe Smith and I approve the recommendation.

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
2-21-58
(date)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4861 (Tungsten)
Messrs. Robert N. Avery and Alfred W. Stickney
Stormy Day mine, Pershing County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

J. E. Carlson
U. S. Geological Survey

February 11, 1958

Reviewed by
DMEA OPERATING COMMITTEE
2-21-58
(date)

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ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Stormy Day claims

3 . . . . . Stormy Day mine

INTRODUCTION

Messrs. Robert N. Avery and Alfred W. Stickney, 435 Hillcrest Road, San Mateo, California, applied for Government assistance in a $7,947.00 program under the Defense Minerals Exploration Administration, docket DMEA-4861, to explore for tungsten at the Stormy Day mine, Pershing County, Nevada.

A field examination was requested by the Operating Committee and was made December 3, 1957 by H. W. Jones, U. S. Bureau of Mines, and J. E. Carlson, U. S. Geological Survey. Surface and underground workings were examined, sampled, and lamped. The property has been previously explored under docket DMEA-2925, Idm-E521, and a Certificate of Discovery was issued on February 11, 1955.

CONCLUSIONS AND RECOMMENDATIONS

The Stormy Day mine contains scheelite-bearing tactite layers along a limestone-granite contact from which 19,523 tons of ore averaging 0.66 percent WO_3 has been removed. The geologic setting is favorable and reserves of 6,200 tons of ore containing 0.6 percent WO_3 are inferred in the area to be explored by 370 feet of proposed drifting on the lower level.

We recommend that the Government enter into an exploration contract with the applicant and that the contract work be based on unit costs to facilitate administration. Total cost, $13,580.50.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Stormy Day mine is in an unsurveyed part of Pershing County, Nevada, that has projected coordinates T. 30 N., R. 24 E., M.D.B.&M. (fig. 1). This mine is on the west side of the Selenite Range in the Hooker mining district at an altitude of about 5,000 feet.

The property is reached by travelling north from Wadsworth, Nevada, on State Highway 34 for 63 miles; then east 2.7 miles on a dirt road to the Stormy Day mine. Spur roads lead to the No. 2 and No. 11 adit portals. The roads are accessible to year-round travel, except for infrequent intervals during winter.

Labor for small operations is available at Gerlach, Nevada, 17 miles north, and supplies, materials, and lumber can be obtained in Reno, Nevada, 87 miles south of the mine. Water is available from springs at the mine and from a gravity pipeline laid from a nearby creek. A four bedroom bunkhouse and two trailers provide quarters for employees. Shipping facilities are available on the main line of the Western Pacific Railroad at Gerlach, Nevada.

HISTORY AND PRODUCTION

Scheelite was discovered in the locality late in 1941 by John J. Thrasher. Small adits and test pits were dug along the contact for about three miles. Most of the work was done on the south end of the Stormy Day property.

A lease and option was obtained by Mr. Stanley F. O'Leary who explored the Stormy Day mine with Government assistance (docket DMEA-2925, contract Idm-E521) between May 14, 1953 and June 21, 1954. Dr. Fred M. Anderson and associates purchased the mine late in 1953 after Mr. O'Leary's death. They completed the DMEA program and placed the mine in production.

Modoc Mines and Exploration Company obtained a lease and option on the mine and adjoining property in August 1954, and the Nev-Tah Oil and Mining Company leased the property in the summer of 1955. Both of these companies did insufficient work and the mine reverted to Dr. Anderson late in 1955. Malcolm Gould and associates leased the mine for a short time in 1956, and it was sold to the applicants, Robert N. Avery and Alfred W. Stickney, in 1957.

The Stormy Day mine has produced 19,523 tons of tungsten ore averaging 0.66 percent WO_3 since 1941, and of this amount 15,200 tons was produced by Dr. Anderson and associates.

The adjoining Thrasher group of claims to the north was explored by John Thrasher and associates with DMEA assistance (docket DMEA-4240, contract Idm-E979) and the Field Team has recommended certification.

PROPERTY AND OWNERSHIP

Mr. Stickney, who will be in charge of exploration, is an experienced engineer and is capable of managing an exploration project. The applicants are financially responsible and are prepared to furnish their share of the costs with money and equipment.

The property consists of nine unpatented lode mining claims recorded in the Pershing County courthouse, Lovelock, Nevada, as follows:

Claim name	Book	Page
Stormy Day No. 1	10	91
Stormy Day No. 2	10	92
Stormy Day No. 5	10	94
Stormy Day No. 6	10	128
Stormy Day No. 11	15	174
Stormy Day No. 12	15	174
Stormy Day No. 13	15	175
Stormy Day No. 14	15	176
Stormy Day No. 15	15	177

Production from these claims will be subject to royalty payments to the Government under the terms of the previous contract Idm-E521, docket DMEA-2925.

The property was purchased for cash by Robert N. Avery and Alfred W. Stickney and the final payment was made before November 27, 1957.

DEVELOPMENT

Development consists of 835 feet of crosscut adits, 810 feet of drifts on four levels that are connected in part by stopes and 986 feet of down diamond drill holes from No. 11 adit level. An ore bin, bunkhouse, change room, workshop, water line, and mining equipment are available and in good condition. The workings are open and accessible.

GEOLOGIC SETTING

The mine area is underlain by metasedimentary rocks of Paleozoic age which consisted originally of interbedded carbonate and fine-grained clastic rocks. The carbonate rocks have been intruded by granite and have been altered to marble and coarsely crystalline dolomite. Near the contact with the granite they have been silicated to form calc-silicate hornfels containing quartz, large clinozoisite crystals, epidote, garnet, and other silicate minerals. The fine-grained clastic rocks are mostly altered to

schists and, near the igneous contact, to hornfels. The metasedimentary rocks and the granite-limestone contact dip from 45° to 80° W. and strike generally north.

Tactite lenses have been formed mainly in the metasedimentary rocks as much as 25 feet from the contact with the granite. Tactite lenses have also been formed in the granite as much as 25 feet from the contact with the metasedimentary rocks; these lenses are probably completely metamorphosed septa of sedimentary rock enclosed in the granite.

The contact between the metasedimentary rocks and granite is mainly concordant, although in some places the strata are crosscut. Apophyses of the granite extend for several hundred feet into the metasedimentary rock as dikes and sills.

ORE DEPOSITS

The ore deposit is of contact metamorphic type and consists of irregular, scheelite-bearing tactite lenses which occur between granite and overlying marbleized limestone. Accessory minerals are pyrite, pyrrhotite, chalcopyrite, and molybdenite.

The mineralized zone is about 20 feet wide and consists of alternating, steeply-dipping layers of scheelite-bearing tactite separated by layers of barren tactite, calc-silicate hornfels or

silicated limestone. The ore zone is from less than 3 feet to about 8 feet thick, and has been stoped for more than 200 feet above adit 11 (fig. 3). Diamond drilling in 1954 under contract Idm-E521, docket DMEA-2925, disclosed scheelite-bearing tactite for 170 feet down dip below adit 11.

The drift north from adit 11 (fig. 2) cut an ore layer 30 feet long and 4 to 5 feet wide. This layer has been stoped for 85 feet upward, or to within 35 feet of adit 1 level where it is about 1-1/2 feet thick. North of this ore shoot, the drift is in barren rock along the limestone-granite contact, and the present face of the drift contains a nearly barren layer of tactite 6 inches thick.

SAMPLING

Samples were taken in the north end workings and from an outcrop on the north end of the property.

Sample No.	Length, feet	Percent WO_3	Description
546	1.0	0.81	No. 1 drift, north end, tactite contact.
547	0.5	0.01	No. 11 drift, north end, tactite contact.
548	grab	0.44	Lower trench on side-line between Stormy Day No. 1 claim and adjoining property to north.

ORE RESERVES

The reserves are summarized as follows:

Class	Tons	Grade, Percent WO_3	Units
Measured	1,000	0.6	600
Indicated	9,500	0.6	5,700
Inferred	6,200	0.6	3,720

About 1,000 tons of measured ore, containing 0.6 percent WO_3, remain in the stopes above adit 11 level. More than 18,000 tons of ore from these stopes has been shipped since the DMEA work ended in 1954.

Ore indicated by diamond drilling below adit 11 level in the present workings is 9,500 tons containing 0.6 percent WO_3 in a block 240 feet long, 120 feet down the dip, and 5 feet wide (fig. 3). Two-thirds of this block is estimated to be milling ore.

Inferred ore north of the present workings is estimated to be 6,200 tons containing 0.6 percent WO_3. The proposed drift is expected to cut, at minimum, one ore shoot about 75 feet long, 5 feet wide, and 250 feet along the dip (125 feet above, and 125 feet below the drift level) of which two-thirds is milling ore. It is expected that this ore body will be about the same grade as the ore that was mined.

A factor of 10 cubic feet per ton is used in calculating reserves.

EXPLORATION

The applicant proposes to (1) extend the north drift on the adit 11 level an additional 220 feet along the limestone-granite contact, or to within 150 feet of the north property line, and (2) to drill long-holes not to exceed 25 feet in length at 50 foot intervals into the hanging wall metasedimentary rock for a total length of 150 feet.

In a conference with the applicant the program was expanded to permit 370 feet of drifting along the limestone-granite contact, and 225 feet of long-hole drilling. This program will extend the exploration drift to the north property line. The applicant's property is bounded on the north by the Thrasher property on which the Government is expected to have a lien (docket DMEA-4240, contract Idm-E979). The modified program was approved by the applicant.

EXPLORATION COSTS

The applicant submitted two bids for contract work, the lower of which was $30.00 per foot for drifting and $1.00 per foot for long-hole drilling. The contractor will furnish all necessary fuel oil, grease, small tools, air and water hoses, drill steel and drilling equipment, and the owner will supply the compressor,

mucking machine, air trammer, and cars. The drifting and long-hole drilling will be done concurrently and will take about 6 months to complete. On this basis a breakdown of costs is estimated as follows:

Depreciation of Equipment necessary for mining

Equipment on hand	Estimated value
1 Compressor, 315 c.f.m., portable	$7,776.00
1 Air Mule trammer, with fittings	1,943.00
4 Rocker type Mine Cars, 22 cu.ft.	770.00
1 Generator, 3 k.w.	676.00
2 Air receivers and fittings	864.00
1 Water pressure tank and fittings	141.00
1 Water tank, 500 gal. storage capacity	110.00
900 ft. 14-gauge special waterproof electric wire	134.00
1,000 ft. rail track, 12-lb.	510.00
1,700 ft. air and water pipes with valves and fittings	680.00
	$13,604.00

To be purchased

Assorted lengths of drill steel for long-hole drilling	$ 151.00
Total:	$13,755.00

Depreciation: $\frac{\$13,755.00}{60 \text{ mos.}} = \$229.25/\text{month}$

Detailed Cost Breakdown for Proposed Exploration

Initial Costs

1. Labor, supervision, materials, supplies, maintenance, payroll taxes, and contingencies: 370 ft. @ $30.00/ft. $11,100.00

2. 225 ft. of long-hole drilling @ $1.00/ft. . . . 225.00

Additional costs

3.	Equipment depreciation, 370 ft. @ $3.71/ft.	$1,375.50
4.	100 ft. timber sets, as required	700.00
5.	60 samples, to be assayed for WO_3, @ $3.00/ea.	180.00
Total estimated cost of the project		$13,580.50
Government participation at 50 percent		$6,790.25

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 6
1/6 gb 220
WBM 400

January 2, 1958

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4861 (Tungsten)
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

Enclosed are two copies of letter from the Operator of subject property informing us of its current status.

Our report on loan application has not yet been completed but is being processed.

S. Ricker

S. Ricker

Attachments

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DMEA
RECEIVED JAN 6 1958
DATE | INITIALS | CODE

ALFRED W. STICKNEY
Consulting Mining Engineer and Geologist

435 Hillcrest Road
San Mateo, California
December 11, 1957

Mr. Spangler Ricker, Executive Officer
Defense Minerals Exploration Administration
1605 Evans Avenue
Reno, Nevada

Dear Spangler:

Re: Docket No. DMEA 4861 - Tungsten
Stormy Day Mine
Pershing County, Nevada

Yesterday evening I returned here from field work so am taking the opportunity to confirm my telephone call to you from Gerlach, Nevada on November 20 informing that Claude Lovestedt had just advised that he was voluntarily surrendering his lease on the Stormy Day mine. In our application for exploration assistance it was stated that Lovestedt would be doing the work as he was leasing the property and submitted the lowest contract bid. However, he has other undertakings in view now so will not be doing the work. I have asked Harold R. Playford, who knows the mine, is known to your office and whose work elsewhere is known to me, to consider the proposed job. He will be submitting a contract price but if in excess of the cost estimated in the application I will undertake to do the work by day labor and within the estimated cost.

We are in no rush to do the proposed exploration and would prefer to do it next summer when climatic conditions are the best for efficient work. In a low tungsten market it would suit us better to do some exploration each summer rather than concentrate it. Other promising ground than the proposed appears to exist but we desire to give it thorough consideration step by step.

A good watchman (William S. Carter), his wife and their trained watch dog are occupying the property. He works at the Empire U. S. Gypsum plant and was recommended by the manager of that plant whom we know. We anticipate keeping the Carters indefinitely until such time as economic conditions indicate that the mine can be profitably operated when properly equipped. The Carters much prefer living at Stormy Day rather than Empire.

If your Washington office should be advised that

Lovestedt has surrendered his lease and will not be doing the proposed exploration, let me hear.

All the best to Mrs. Ricker and yourself,

Sincerely,

AWS/e

P.S. The San Francisco AIME section is having its annual Reminiscence Meeting and Christmas Party tonight at the Engineers' Club but too much accumulated office work is keeping me away from the show and the lot.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/14	Chapman	400
11/14	Martin	410
11/15	Martin	130
"	Johnson	110
"	Mattenday	100
11/19	C	220
		400

NOV 18 1957

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

Re: Docket No. DMEA 4861 - Tungsten
Robert N. Avery and Alfred W. Stickney
Stormy Day Mine
Pershing County, Nevada

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated November 4 and 7, 1957, by W. P. Williams, Geological Survey, and R. W. Holliday, Bureau of Mines, respectively, relating to the project are enclosed. Also enclosed is an extra copy of the application for the use of the Field Team. It will be noted this property was covered in Docket No. DMEA 2925, Contract No. Idm-E521, Fred M. Anderson.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (HB)

APPROVED:

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

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

TLCHAPMAN:foc 11-13-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
11/14	Chapman	400
11/14	Martin	400
11/15	Martin	130
11/15	Williams	130
11/15	Lamb	130
"	Inman	110
"	Mittendorf	0330
		0330
		400

NOV 18 1957

Messrs. Robert N. Avery and
Alfred W. Stickney
435 Hillcrest Road
San Mateo, California

Re: Docket No. DMEA 4861 - Tungsten
Stormy Day Mine
Pershing County, Nevada

Gentlemen:

The above-referenced application for exploration assistance for tungsten ores has been reviewed by the Division of Iron and Ferro-Alloys, of the Defense Minerals Exploration Administration, and referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

For your information we are enclosing a copy of DMEA Order 1, Revised, in which you will note that Government participation in exploration for tungsten ores has been changed from 75 percent to 50 percent.

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

TLChapman:foc
11-14-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II

Enclosure

R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 7 1957

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November 7,1957

4861

Tungsten
Robert N. Avery & A. W. Stickney
Storm Day Mine
Pershing, Nevada

W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals and Ferroalloys
R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

New Application

Oct. 23, 57 Nov. 4, 57.

X

X

X

X

DMEA 2925

X

Referral to the Field Team for appropriate action is recommended.

R. W. Holliday

IN REPLY REFER TO:

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

November 4, 1957

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application, DMEA 4861, (tungsten), Avery and Stickney, Stormy Day Mine, Pershing County, Nevada

The applicant proposes to explore for tungsten ore deposits in the Stormy Day Mine. The property is located adjacent to the site of DMEA 4240.

The proposed project, consisting of drifting and long-hole drilling, is intended to explore tactite in a contact zone between granodiorite and metasediments.

The grade of ore that has been produced from the mine appears to be low, as the applicant states that mill heads had a grade of 0.69 percent WO_3. In view of the present position of tungsten in the metal market, perhaps exploration is not warranted unless it can be shown that fair-sized, high grade deposits might be discovered. I suggest that the application be referred to the Field Team for field evaluation.

ORIGINAL PAGE COPY
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DATE	INITIALS	CODE
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S. H. Kilsgaard
for: W. P. Williams

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

October 30, 1957

Messrs. Robert H. Avery and
Alfred W. Stickney
435 Hillcrest Road
San Mateo, California

Subject: DMEA-4861

Gentlemen:

Your application for exploration assistance, dated October 23, 1957 submitted to our office at Reno, Nevada has been assigned Docket Number DMEA-4861 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region II