UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (~~or cancelled~~) without certification. DMEA No. 142

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

Certificate of Audit (Final).

Interim Audit(s).

✓ Report of Review.

Termination Notice ~~or Agreement~~. LETTER

Recision Notice.

Assignment of Contract.

Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

Subordination Agreement.

Leases and assignments of leases.

Application and attachments.

Schedule of Collections.

✓ Operator's monthly reports and all attachments (latest on top).

Right Side

✓ Project summary.

✓ Work completed analysis.

✓ All other material is filed in chronological order with correspondence including the following reports as checked:

✓ Final Field Team Report. (Tab)

Operator's Final Report.

✓ Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number _____

Operator's Monthly Reports in folder number _____

Reviewer's Initials

7973

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

David G. Wood

Box 58

Gardnerville, Nevada

pertaining to Exploration Project Contract No. I-DMA-E3, Docket No. DMA-142, for the months of June through November, 1951.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer of the Field Team, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of an audit of the Operator's accounts and records for the following reasons:

(a) a major portion ($4,229.00) of the accepted costs covered wages and salaries and an additional portion ($826.36) covered the rental value of equipment, both items at rates indicated in the project contract;

(b) the project was brought to completion at a cost per unit of work considerably less than the estimates shown in Exhibit "A" of the contract; and

(c) the administrative cost fo the Government of an audit would be excessive in relation to the estimated amount of possible disallowances thereunder.

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

Total cost as billed by Contractor		$ 6,195.54
Exceptions:		
By DMEA Finance Officer	$ -	
Herewith	-	-
Total Accepted Cost		$ 6,195.54

The contract calls for a 75 per cent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Four thousand six hundred forty-six and 66/100 Dollars,

- $ 4,646.66 -

is considered valid and proper.

August 2, 1952

E. H. Talbert Jr.
Auditor

FILE COPY
SURNAME:

Selfridge
Chambers

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

Mr. H. C. Miller
Executive Officer, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMA 142X - Tungsten
Exploration Proj. Contract Idm-E3
David G. Wood
Last Laugh Tungsten Mine
Douglas County, Nevada

Dear Mr. Miller:

This is to inform you that this Administration has determined that no discovery or development has resulted from the subject exploration work.

We concur with the Field Team that the application for an access road should be denied.

The Contract Administration and Audit Division released a balance of $3.34 on March 31, 1952. Thus the contract is officially terminated.

Sincerely yours,

C. O. Mittendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
4/18/8

cc: Admn. Reading File
Docket
Field Team, Reg. 3
G. C. Selfridge
J. L. Chambers
Operating Committee
D.M. Lemmon, USGS
R. W. Geehan, USBM

MF-204
(April 1951)

Card
and
Mailed
7/16/51

Idm-E-3

Docket No. DMA 142
Commodity Tungsten

~~I-DMA-E3~~

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 28 day of May, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2]
David G. Wood
Box 58
Gardnerville, Nevada

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Nevada, County of Douglas described as follows: [3]
Last Laugh and Last Laugh No. 1. Unpatented mining claims located in Sec. 23, T 12 N., R. 21 E. M.D.M.

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:

None ?

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Tungsten; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] Six months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Attached hereto, marked "Exhibit 'B'," is a detailed list of additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute its agreed pro-rata share of the cost. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

6. *Operating equipment.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. As to equipment purchased for the project, the Government will contribute its agreed pro-rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* Attached hereto, marked "Exhibit 'D'," is an itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in the contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, or any other indirect costs not expressly allowed by these regulations, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator 75 percent of the sum of such costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $4,650.00, which is 75 percent of the agreed estimated total cost of this project, $6,200.00.

12. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

14. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent additional for each full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the property which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

15. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

16. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in triplicate the day and year first above written.

David F. Wood
(Operator)

By _____

THE UNITED STATES OF AMERICA

By _____

Administrator
Defense Minerals Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

EXPLORATION PROJECT CONTRACT

EXHIBIT "A"

Exploration Project:

210 ft. of crosscut tunnel at $20.00 per ft.	$ 4,200.00
50 ft. of raise at $40.00 per ft.	2,000.00
Total cost of project.	$ 6,200.00
(See attached map)	

EXHIBIT "B"

Fixtures and Improvements;

Any additional facilities, buildings and fixtures purchased, installed or erected by the Operator shall not be charged as a cost of the project.

EXHIBIT "C"

Operating Equipment:

Any operating equipment purchased or rented by the Operator shall not be charged as a cost of the project. However, operating equipment owned and furnished by the Operator shall be allowed as a cost of the project as follows:

Item	Rental Value Per Month
1 - Compressor with Jackhammer and accessories	$ 100.00
1 - Chevrolet dump truck	$ 60.00
1 - Mine car	$ 10.00
Rails and accessories, _____ ft.	$ 10.00
Air line (2"), 300 ft.	$ 10.00
Miscellaneous Blacksmith and mine tools	$ 10.00
Total	$ 200.00

EXHIBIT "D"

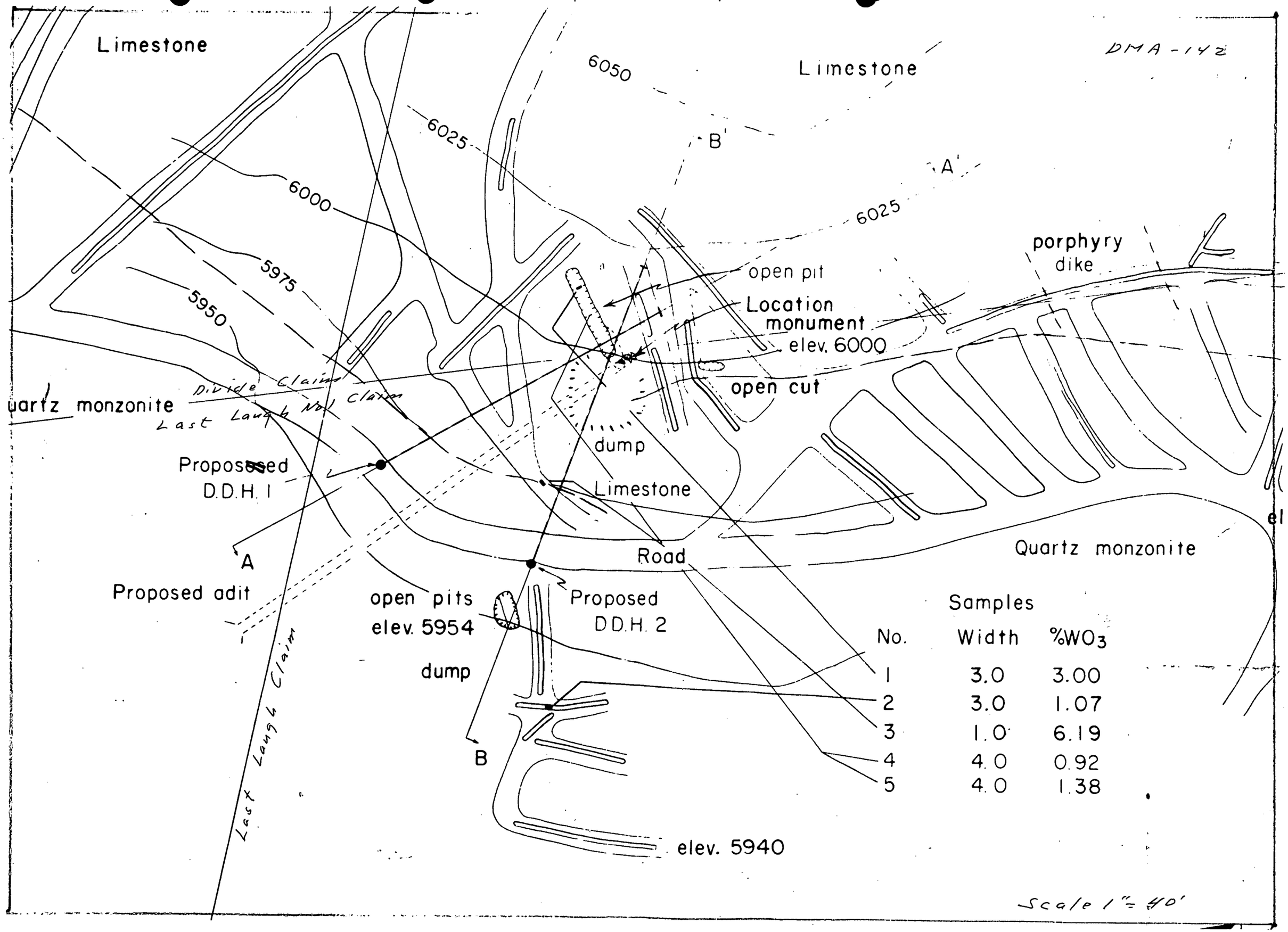
Labor and Supervision:

2 Miners at $14.00 per day, or per ft. Total $ 28.00 per day.
1 Supervisor and top-man at $300.00 per month.

EXHIBIT "E"

Rehabilitation and Repairs:

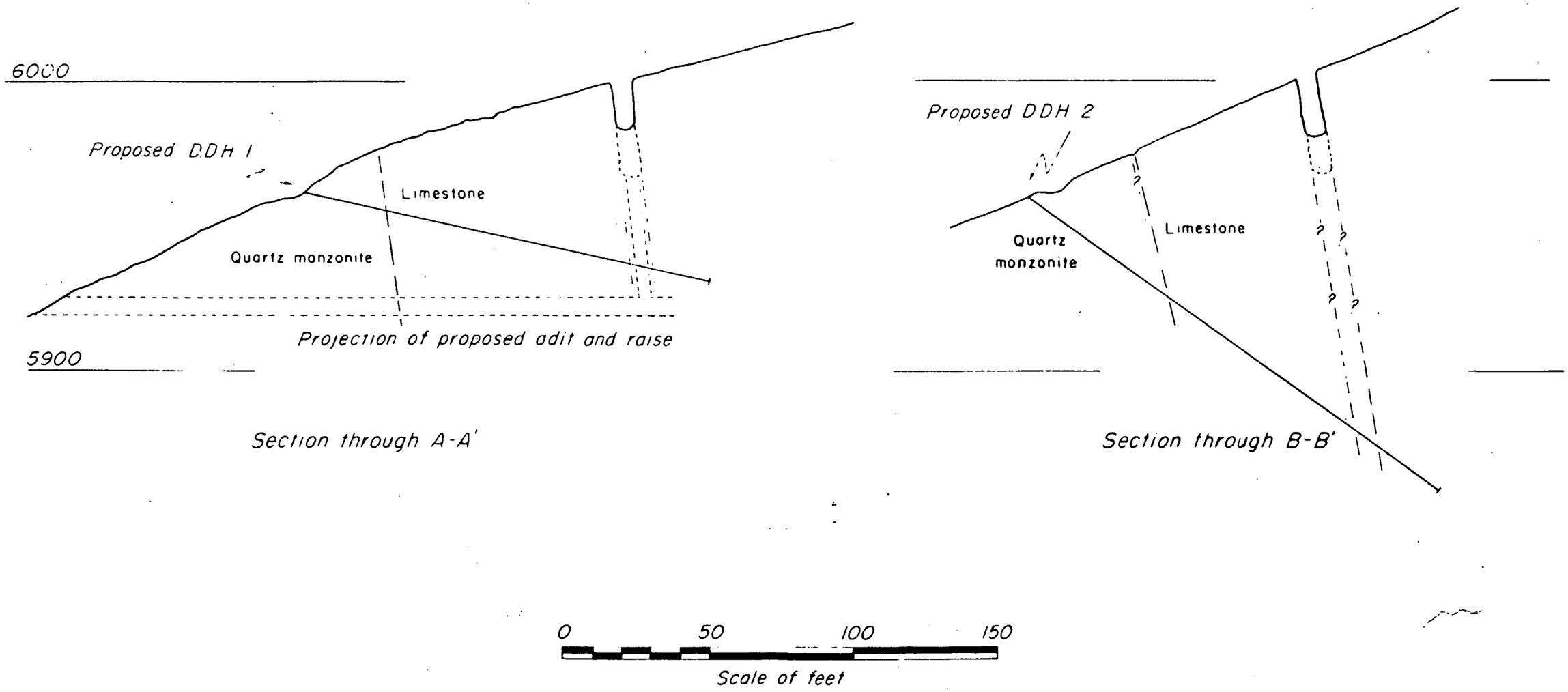
The cost of any rehabilitation and repairs to put existing facilities, buildings, installations and fixtures into useful and operable condition shall not be allowed as a cost of the project.



Samples

No.	Width	%WO_3
1	3.0	3.00
2	3.0	1.07
3	1.0	6.19
4	4.0	0.92
5	4.0	1.38

DMA-142



2/15/51

Figure 2- Sections through proposed drill holes 1 and 2, Last Laugh tungsten property

RECEIVED
MAY 31 1951
G.A.O.

May 28, 1951

Mr. David G. Lood
Box 58
Gardnerville, Nevada

Re: Docket No. [illegible]-142 (Tungsten)
Exploration Project Contract

Dear Mr. Lood:

There is enclosed executed Exploration Project Contract No. I-[illegible]-51, dated May 28, 1951, with attached Exhibits "A", "B", "C", "D" and "E", and maps. We are also enclosing copy of press release dated May 14, 1951, "Questions and Answers on the Mineral Exploration Program and a set of monthly progress report forms (MP-104). Additional forms may be obtained from the DMA Field Office in your area.

If you have any questions in connection with the project as approved, it is suggested that you contact Mr. [illegible] Miller, Executive Officer, DMA Field Team, 1415 Appraisers Building, San Francisco, California. In any case, please notify Mr. Miller when you plan to start work on the crescent tunnel of your project.

Sincerely yours,

C. [illegible] Mittendorf, Director
Production Expansion Division

[illegible]:[illegible]:[illegible]:[illegible]:[illegible]

cc to Mr. [illegible] Mittendorf
Glund
[illegible]trobel
Lyons
Hove
Moon
Field Team, Region III
Field Finance Sec.-Bureau of Mines
F. Johnson
F I L E S

Contract Service Sec. - GAO

SF · Oms · 12

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By Warren G. Wood
(Signature of Authorized Official)

12/5/67
(Date)

Owner
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator David G. Hood
Project No. DMA 142
Total contract amount 10,300
Government participation percent 75

Distribution of Expenditures for Month of November

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	336.00	3,893.00	4,229.00			
Equipment purchase [1]	[illegible]	[illegible]	[illegible]			
Equipment rental [2]	46.62	779.74	826.36			
Buildings						
Explosives	31.20	295.54	326.74			
Repair parts	9.40	13.75	23.15			
Other supplies		102.58	102.58			
Power						
Transportation Gas	14.59	206.41	221.00	.08		
Withholding taxes	8.24	111.63	119.87	.87		
Compensation insurance	21.56	244.20	265.76			
Other insurance						
Contract work						
Other (specify)						
Total	467.61	5,727.93	6,195.54			
Totals previously reported	5,727.93					
Totals to date	6,195.54		6,195.54			

FOR GOVERNMENT USE ONLY

Checked by [illegible]
Entered by
Approved by A. C. Johnson
Amount approved for payment $350.71 [illegible]
Remarks

DEC 14 1951

Lloyd L. Norvell
Authorized Certifying Officer

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF November

Name of operator David C. Lord
Project No. DMA 142
Total contract amount 60,209
Government participation percent

Type	Number	Man-Shifts	Rate	Total
Miners	1	14	$ 14.00	$ 196.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent Supervisor	1	14	10.00	140.00
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	2	28		336.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by PL
Entered by
Approved by A. C. Johnson
Remarks

16—64068-1

4650,
2/28/52 Final Payment 4646.66
3.34

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF November

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting	336.00	46.62	55.19	29.80	467.61		23	202	225	
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	336.00	46.62	55.19	29.80	467.61					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Remarks

C O P Y

A. C. Johnson, Chief, Mining Div., Reg. III Dec. 12, 1951

L. F. Muller, Mining Engineer, Bureau of Mines, Reg. III

Las Laugh Tungsten, Contract Idm-E3

The Last Laugh tungsten property, Contract Idm-E3, was visited by L. F. Muller, U. S. Bureau of Mines, and W. P. Irwin of the U. S. Geological Survey on Dec. 10, 1951, in preparation for submission of a final exploration project report. This report is being compiled by W. P. Irwin, U.S.G.S., and Geo. H. Holmes, Jr., U.S.B.M.

Contract work was completed on Nov. 16, 1951. Mr. David Wood's final MF-104, attached to this memorandum, shows completion of this work which has been checked and proved correct by the Bureau of Mines.

Work additional to contract by Mr. Wood has been restricted by adverse weather and road conditions.

/s/ L. F. Muller
L. F. Muller

C O P Y

A. C. Johnson, Chief, Mining Division, Reg. III Nov. 28, 1951

B. H. Sheahan, Mining Engineer, Bureau of Mines, Reg. III

Last Laugh Tungsten - Douglas Co., Nev. Docket DMA-142
Contract Idm-E3

The Last Laugh Tungsten property was examined on Nov. 27, 1951. Mr. David G. Wood was not working at the property on this date, and had apparently moved out prior to a recent snow storm.

The exploration contract is completed. Total footage of crosscutting and drifting measures 223 feet. The connecting raise has been holed through to the open cut, and the operator has been constructing a 2 foot square chute from the surface through the open cut and down the raise for the purpose of preventing dilution of high grade ore to be mined. The manway ladders through the raise were in poor condition at the time of this examination and there were several loose rocks which should be barred down.

Four samples were taken on the tunnel level for recording on the assay map.

/s/ Benjamin H. Sheahan
Benjamin H. Sheahan

C O P Y

A. C. Johnson, Chief, Mining Division, Reg. III Nov. 28, 1951

B. H. Sheahan, Mining Engineer, Bureau of Mines, Reg. III

Last Laugh Tungsten - Douglas Co., Nev. Docket DMA-142
Contract Idm-E3

The Last Laugh Tungsten property was examined on Nov. 27, 1951. Mr. David G. Wood was not working at the property on this date, and had apparently moved out prior to a recent snow storm.

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Four samples were taken on the tunnel level for recording on the assay map.

/s/ Benjamin H. Sheahan
Benjamin H. Sheahan

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

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Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David T. Wood
(Signature of Authorized Official)

6/11/51
(Date)

Owner
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator [illegible]
Project No. DMA [illegible]
Total contract amount [illegible]
Government participation percent [illegible]

Distribution of Expenditures for Month of October

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	168.00	2,725.00	2,893.00			
Equipment purchase [1]	46.42	723.32	770.74			
Equipment rental [2]						
Buildings		898.54	898.54			
Explosives		15.75	15.75			
Repair parts	5.00	178.58	183.58			
Other supplies						
Power Gas & Oil	2.00	204.49	206.49			
Transportation	4.12	107.51	111.63			
Withholding taxes	10.78	233.42	244.20			
Compensation insurance						
Other insurance						
Contract work						
Other (specify)						
Total	236.32	5,493.61	5,727.93			
Totals previously reported	5,493.61					
Totals to date	5,727.93		5,727.93			

11/16/51

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Amount approved for payment #175.74
Remarks

Lloyd L. Norvell
Authorized Certifying Officer

[illegible]16—64068-1

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF October

Name of operator David C. Wood
Project No. DMA 168
Total contract amount 6,000
Government participation percent 75

Type	Number	Man-Shifts	Rate	Total
Miners	1	7	$ 14.00	$ 98.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent Supervisor	1	7	10.00	70.00
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	2	14		168.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Remarks

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF October 1951

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising	168.00	46.42	5.00	14.90	234.42		12	50	62	
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	168.00	46.42	5.00	14.90	234.42		12	50	62	

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

FOR GOVERNMENT USE ONLY

Checked by fb
Entered by
Approved by C. C. Johnson
Remarks

NOV 16 1951

Lloyd L. Norvell
Authorized Certifying Officer

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David G. Wood
(Signature of Authorized Official)

Oct. 3, 57
(Date)

Owner
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator David C. Wood
Project No. DMA 142
Total contract amount 6,000
Government participation percent 75

Distribution of Expenditures for Month of Sept.

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	944.00	2,701.00	3,725.00			
Equipment purchase [1]	200.00	533.32	733.32			
Equipment rental [2]						
Buildings	63.50	232.04	295.54			
Explosives		13.75	13.75			
Repair parts	167.58	13.00	180.58			
Other supplies						
Power Gas & Oil	51.95	152.54	204.49			
Transportation	27.02	80.49	107.51			
Withholding taxes	51.92	181.50	233.42			
Compensation insurance						
Other insurance						
Contract work						
Other (specify)						
Total	1,506.97	3,987.04	5,493.01			
Totals previously reported	3,987.04					
Totals to date	5,493.01		5,493.01			

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Amount approved for payment $1,129.48
Remarks

OCT 10 1951

A. J. RENNER
AUTHORIZED CERTIFYING OFFICER

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF Sept.

Name of operator David O. Wood
Project No. DMA 142
Total contract amount 50,000
Government participation percent 75

Type	Number	Man-Shifts	Rate	Total
Miners	2	40	$ 14.00	$ 644.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent Supervisor	1	30	10.00	300.00
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	3	70		944.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

OCT 10 1951

FOR GOVERNMENT USE ONLY

Checked by ff
Entered by
Approved by A. C. Johnson
Remarks

A. J. RENNER
AUTHORIZED CERTIFYING OFFICER

16—64068-1

ACCOUNTS OCT 8 1951

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF Sept.

Name of operator David G. Wood
Project No. DMA -142
Total contract amount $6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising	944.00	200.00	283.03	78.94	1,505.97		38	12	50	50
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	944.00	200.00	283.03	78.94	1,505.97					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Remarks

OCT 10 1951

A. J. Renner
A. J. RENNER
AUTHORIZED CERTIFYING OFFICER

C O P Y

July 31, 1951

Memorandum

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Progress Report - "Last Laugh Tungsten"
David Wood, Gardnerville, Nev.

The Last Laugh tungsten mine was visited on July 30, 1951 by A. C. Johnson and George H. Holmes, Jr. of the Bureau of Mines for the purpose of checking progress for the month of July..

The face of the crosscut was at 155 feet, an advance since June 30 of 90 feet. An 0.3 foot stringer of scheelite-bearing altered monzonite was crossed at 116 feet, and a second stringer, 1.7 feet wide, was intersected at 150 feet. No unforeseen difficulties have been encountered and the work has been done efficiently and economically.

A. C. Johnson

SF-Dma-8

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Aug 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David G. Wood
(Signature of Authorized Official)

9/4/51
(Date)

Owner
(Title)

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

16—64068-1

SEP 6 1951

MONTHLY SUMMARY COST STATEMENT

Name of operator David [illegible]
Project No. DMA 14[illegible]
Total contract amount [illegible]0,800
Government participation percent 75

Distribution of Expenditures for Month of August

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	1,049.	1,7[illegible].	2,701.			
Equipment purchase [1]						
Equipment rental [2]	800.	833.33	833.33			
Buildings						
Explosives	68.60	165.~~00~~ 55	233.~~60~~ .04			
Repair parts	13.78		13.78			
Other supplies	15.00		15.00			
Power						
Transportation Cos [illegible]11	72.19	80.35	152.64			
Withholding taxes	21.46	49.03	60.49			
Compensation insurance	60.00	115.50	181.50			
Other insurance						
Contract work						
Other (specify)						
Total	1,615.[illegible]9	2,679.78	3,987.~~74~~ .64			
Totals previously reported	1,472.75	~~992.36~~	~~2,465.11~~ 3,987.64			
Totals to date	3,087.04	~~3,465.11~~	7,453.06			

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by
Amount approved for payment A. C. Johnson
Remarks $1,135

SEP 11 1951

Lloyd L. Norvell
Authorized Certifying Officer

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF August

Name of operator David G. Wood
Project No. DMA 168
Total contract amount 6,000
Government participation percent 75

Type	Number	Man-Shifts	Rate	Total
Miners	2	53.5	$ 14.00	$ 749.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent Supervisor	1	30	10.00	300.00
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	3	83.5		1,049.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Remarks

SEP 11 1951
2.66 man days

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF August

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting	821.00	160.04	122.928	88.968	1,192.936		43	159	202	210
Crosscutting	228.00	39.96	30.752	22.242	320.804 .954		12		12.	50
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1,049.00	200.00	153.68	111.21	1,513.89		55	159	214	260

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

ACCOUNTS SEP 6 1951

SEP 11 1951

#2752/66

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Remarks

C O P Y

July 5, 1951

Memorandum

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Monthly Progress Report:- Docket DMA-142 Tungsten
David G. Wood, Gardnerville, Nev.

David G. Wood's tungsten property near Gardnerville, Nev. was visited on July 3, 1951 by engineers[1] of the Bureau of Mines in connection with the first month's work under his Exploration Project Contract.

The crosscut was started on June 11 and on June 30 had advanced 65 feet. Preliminary work, comprising bulldozing a road to the tunnel site, setting up the compressor and blacksmith equipment and excavating through overburden for the crosscut portal, were done by Mr. Wood at his expense prior to commencing the contract. The advance was through limestone; a dike was encountered at 50 feet striking S. 22° E. and dipping 70° to the southwest. No tungsten mineralization was observed.

The crosscut is being carried 6- by 4-feet in section. Two miners using a 9-hole V-cut round make an advance of from 3 to 3-1/2 feet per round. No timber, other than the portal sets, has been required. Work is being done in an efficient manner.

A serious drawback to progress of the work is being caused by the stipulation under Exhibit "D" which states that only two miners receiving a combined wage of $28 per day can be used on this contract. Advances could be speeded-up by using two-shift daily and using four miners. No difficulties have been experienced in driving the crosscut to its present length, but as the crosscut advances ventilating and tramming time will be increased, and should caving ground be encountered, valuable time will be lost by the present crew in timbering. In other words, it may be necessary to advance the crosscut one shift to be followed by one or more shifts for timbering or other additional work. Present progress of 3-1/2 feet per shift may be considerably reduced. Using two crews on a 2-shift daily basis would speed-up the work, practically assuring a one-round advance daily with a two-round advance possible in good ground. This bottle-neck will be more pronounced when raising starts to the bottom of the open-cut.

1/ A. C. Johnson and G. H. Holmes, Jr.

C O P Y

It is recommended that Exhibit "D" be amended. There should be no stipulation on the amount that can be expended per day as the main object is to complete the crosscut and raise in the shortest period of time. It is understood that the work will be completed in compliance with unit price stipulated in the contract. The purpose of the exploration agreement is to complete a certain number of units of work to determine if the property can be brought into production. No brakes should be applied to an operator that will impede progress on the project.

Costs of the first month's operation appear reasonable.

A. C. Johnson

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

FEB 18 11 11 PM '52

E 3

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

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Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David F. Wood
(Signature of Authorized Official)

8/1/51
(Date)

Owner
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator David G. Wood
Project No. DMA 142
Total contract amount 6,200
Government participation percent 75

Distribution of Expenditures for Month of July

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	1,028.	704.	1,732.00			
Equipment purchase [1]						
Equipment rental [2]	200.	133.32	333.32			
Buildings						
Explosives	94.75	68.80	163.65			
Repair parts						
Other supplies						
Power						
Transportation Gas, Oil	47.99	32.36	80.35			
Withholding taxes	30.57	18.46	49.03			
Compensation insurance	80.08	35.42	115.50			
Other insurance						
Contract work						
Other (specify)						
Total	1,481.39	992.36	2,473.85			
Totals previously reported	992.36		~~992.36~~ 2473.75			
Totals to date	2,473.75		3,466.21			

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Amount approved for payment $ 1,111.04
Remarks

AUG 13 1951

Lloyd L. Norvell
Authorized Certifying Officer

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF July

Name of operator David G. Wood
Project No. DMA 142
Total contract amount 6,200
Government participation percent 75

Type	Number	Man-Shifts	Rate	Total
Miners	2	52	$ 14.00	$ 728.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent Supervisor	1	30	10.00	300.00
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	3	82		1,028.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

AUG 13 195[illegible]

FOR GOVERNMENT USE ONLY

Checked by fh
Entered by
Approved by A. C. Johnson
Remarks

Lloyd L. Norvell
Authorized Certifying Officer

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF July

Name of operator David G. Wood
Project No. DMA 142
Total contract amount 6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting	1,028.	200	142.74	110.65	1,481.39		94	65	159	210
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1,028.	200.	142.74	110.65	1,481.39		94	65	159	210

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

AUG 13 1951

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by R. C. Johnson
Remarks

ACCOUNTS AUG 3 1951

DMR 142

June.
No depreciation entered for month.
$200.00. No supervision
Taken up on amendment.

Memo July 5, 1951 recommended 2 shifts. Man not held for 2 miners and only 1 shift. 2 shifts moved out down overhead. [illegible] idleness.

Memo July 31, 1951
Visited July 30th mention made of 0.3' & 1.1' stringer of schistose-bearing altered monzonite cut on July. A.C. Johnson.

exceeded workable by 15' of drifting not amendment

LARGE FORMAT DOCUMENTS AT END OF FILE

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
FEB 18 11 10 PM '52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

E 3

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David G. Wood
(Signature of Authorized Official)

7/20/57
(Date)

Owner
(Title)

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

16—64068-1

[illegible]

MONTHLY SUMMARY COST STATEMENT

Name of operator [illegible] Food
Project No. DMA [illegible]
Total contract amount [illegible]
Government participation percent [illegible]

Distribution of Expenditures for Month of [illegible], 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	[illegible]		[illegible]			
Equipment purchase [1]						
Equipment rental [2]	[illegible]		[illegible]			
Buildings						
Explosives	[illegible]		[illegible]			
Repair parts						
Other supplies						
Power						
Transportation [illegible]	[illegible]		[illegible]			
Withholding taxes	[illegible]		[illegible]			
Compensation insurance	[illegible]		[illegible]			
Other insurance						
Contract work						
Other (specify)						
Total	[illegible]		[illegible]			
Totals previously reported						
Totals to date						

Total due (incl. c mp. rental and expenses) [illegible]
Previously submitted in error without rental & expense. [illegible]
[illegible]
Payment 3/4 actual acts [illegible]
Payment received on statement previously submitted [illegible]
Balance due on this stmt. [illegible]

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Amount approved for payment $ 249.99
Remarks

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

[illegible] No. [illegible], dated [illegible]
C. D. P. C. Gen. No. [illegible]

JUL 25 1951

Lloyd L. Norvell
Authorized Certifying Officer

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF [illegible], 1952

Name of operator [illegible]
Project No. DMA [illegible]
Total contract amount [illegible]
Government participation percent [illegible]

Type	Number	Man-Shifts	Rate	Total
Miners	[illegible]	[illegible]	$ [illegible]	$ [illegible]
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent, Supervisory	1	[illegible]	[illegible]	[illegible]
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	3	[illegible]		[illegible]

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Remarks

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF June, 1951

Name of operator David C. Wood
Project No. DMA 112
Total contract amount 75,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting	701.00	133.32	121.16	59.03	992.36		65		65	210
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	701.00	133.32	121.16	59.03	992.36		65		65	210

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

JUL 25 1951

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Remarks

Lloyd L. Norvell
Authorized Certifying Officer

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
FEB 18 11 11 PM '52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

(Name of Company)

By David G. Wood
(Signature of Authorized Official)

7/2/57
(Date)

Owner
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation percent 75

Distribution of Expenditures for Month of June 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	504.00		504.00			
Equipment purchase [1]						
Equipment rental [2]						
Buildings						
Explosives	68.80		68.80			
Repair parts						
Other supplies						
Power						
Transportation Gas, Oil	32.36		32.36			
Withholding taxes	18.46		18.46			
Compensation insurance	35.42		35.42			
Other insurance						
Contract work						
Other (specify)						
Total	659.04		659.04			
Totals previously reported						
Totals to date						

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Amount approved for payment 494.78
Remarks

JUL 16 1951

Lloyd L. Norvell
Authorized Certifying Officer

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF June 1951

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation percent 75

Type	Number	Man-Shifts	Rate	Total
Miners	2	36	$ 14.00	$ 504.00
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent				
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
Total	2	36	14.00	504.00

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

JUL 16 1951

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by X A. C. Johnson
Remarks

Lloyd L. Norvell
Authorized Certifying Officer

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF June 1951

Name of operator David G. Wood
Project No. DMA 142
Total contract amount $6,200
Government participation, percent 75

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting	504.00		101.16		605.16	65	65		65	210
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	504.00		101.16		605.16	65	65		65	210

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

JUL 16 1951

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Remarks

Lloyd L. Norvell
Authorized Certifying Officer

Project DMA 142X - Tungsten, David G. Wood; Last Laugh Tungsten Mine, Douglas County, Nevada

Contract Idm-E3 : Total contract $6,200.00 (Government participation 75% - $4650.00

Scheduled exploration:

210 feet crosscut @ $20.00 per foot = $4,200.00

50 feet raise @ $40.00 per foot = 2,000.00

6,200.00

Time Limit 6 months

Date of contract May 28, 1951

Monthly Progress

Month	X-cut Advance feet		X-cut Cost	X-cut Cost per foot	Raise Advance feet		Raise Cost	Raise Cost per foot
June	65		992.36	15.27				
July	94	159	1481.39	15.76				
August	43	202	1192.94	27.74	12		320.95	46.75
Sept					38	50	1505.97	39.63
Oct					12	62	234.32	19.52
Nov (1-16)	23	225	467.61	20.33				
Total	225		4134.30	18.37	62		2061.24	33.25

2061.24

$6,195.54

Cumulative Progress

Month	% of Work Completed X-cut	% of Work Completed Raise	% of Time Consumed	% of Funds Consumed
June	31	0	17	16
July	76	0	33	40
August	96	24	50	64
Sept	96	100	67	89
Oct	96	124	83	92
Nov (1-16)	107	124	92	99.9
Total	107	124	92	99.9

X-cut

Month	Advance feet	Man shift	Shift	Feet advance per man shift	Feet advance per shift
June	65	36	18	1.81	3.61
July	94	52	26	1.81	3.61
August	43	42	21	1.02	2.04
Sept.					
Oct.					
Nov. (1-16)	23	14	7	1.64	3.28
Total	225	144	72	1.56	3.12

Raise

Month	Advance feet	Man shift	Shift	Feet advance per man shift	Feet advance per shift
June					
July					
August	12	11.5	5.75	1.04	2.08
Sept.	38	46	23	0.83	1.66
Oct.	12	7	3.5	1.71	3.42
Nov. (1-16)					
Total	62	69.5	32.25	0.96	1.92

Note: Time of supervisor not included in mining rate figures at left.

Project DMA 142X- Tungsten, David G. Wood, East Lough Tungsten Mine

Contract Idm-E3 Total contract $6,200.00 (Government participation 75% - $4,650.00

X-cut Month	Advance feet	Labor Cost	Labor Cost/ft	Explosives Cost	Explosives Cost/ft	Power Cost	Power Cost/ft	Other Supplies Cost	Other Supplies Cost/ft	Equipment Cost	Equipment Cost/ft	Total Cost	Total Cost/ft
June	65	757.88	11.66	68.80	1.06	32.36	0.50	—	—	133.32	2.05	992.36	15.27
July	94 159	1138.65	12.11	94.75	1.01	47.99	0.51	—	—	200.00	2.13	1481.39	15.76
August	43 202	917.17	21.33	54.79	1.27	57.75	1.34	21.40	0.50	160.04	3.72	1211.15	28.17
Nov.	23 225	365.80	15.90	31.20	1.36	14.54	0.63	9.40	0.41	46.62	2.03	467.61	20.33
	225	3179.50	14.13	249.54	1.11	152.69	0.68	30.80	0.14	539.98	2.40	4152.51	18.46
						Raising							
August	12	229.29	19.11	13.70	1.14	14.44	1.20	5.25	0.44	39.96	3.33	302.64	25.22
Sept.	38 50	1022.94	26.92	63.50	1.67	51.95	1.37	167.58	4.41	200.00	5.26	1505.97	39.63
Oct.	12 62	182.90	15.24	—		2.00	0.17	3.00	0.25	46.42	3.87	234.32	19.53
	62	1435.13	23.15	77.20	1.25	68.39	1.10	175.83	2.84	286.38	4.62	2042.93	32.95

see costs on 2nd page

Yes Audited

No Certified

W[illegible] ANALYSIS SHEET - DMEA PROJECT[illegible]

Analysis as of 12/1/1954
Incl. Voucher for _____

Yes Actual Cost

Agreed Unit Costs

Name David G.Wood

Docket No. DMA-142

State Nevada

Commodity Tungsten

Idm-E No. 3

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	210	4,200.00	225'	4,134.30	18.37 ft.
Raising	50	2,000.00	62'	2,061.24	33.34 ft.
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		6,200.00		6,195.54	

Prepared by TLC

71626

FILE COPY 400
SURNAME:

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

G. C. Selfridge, Chief, Iron and Ferro-Alloy Division, DMEA

May 26, 1952

Rutledge

F. A. Rutledge

Summary of analysis of working rate and production
Exploration Project Contract No. Idm-N3
Docket No. DMA 142X - Tungsten
David G. Wood
Last Laugh Tungsten Mine
Douglas County, Nevada

Underground exploration at the Last Laugh Tungsten mine consisted of crosscutting and raising using force account. The Operator, David G. Wood, served as supervisor and was not charged against the footage advance per shift, though his salary is included in the total cost under supervision. However, during the last two periods, October and November, only one miner was on the payroll and the advance per shift and advance per man shift shown is twice as much as actually occurred since the Operator should have been charged against the work of these periods.

The contract called for 210 feet of crosscut and 50 feet of raising. Actually, 225 feet of crosscut and drifting and 62 feet of raise were completed within the time allotted and within the sum authorized by the contract. The development was divided as follows: 213 feet of crosscutting, 62 feet of raise, and 12 feet of drifting.

Underground personnel consisted of 2 miners for the first four periods and 1 miner for the remaining two periods. Average advance per man shift during the crosscutting was 1.56 feet or 3.12 feet per shift. The best rate of advance was during the first two periods, 1.81 feet per man shift, 3.61 feet per shift, while the lowest rate was during the third period, 1.02 feet per man shift and 2.04 feet per shift. Average rate of advance for the raising was 0.96 feet per man shift and 1.92 feet per shift. Rates varied from 0.83 to 1.71 feet per man shift and 1.66 to 3.42 feet per shift.

The average footage cost for crosscutting was $18.37 per foot and $33.25 per foot for raising. This includes all charges as shown below:

	Wages and Salaries	Equipment Rental	Supplies	Other	Total
Crosscutting and Drifting	$12.83	2.40	1.88	1.26	18.37
Raising	21.62	4.62	5.14	1.87	33.25

The original estimate was based on an expected cost of $20.00 a foot for drifting and crosscutting and $40.00 a foot for raising. The lowest cost per foot for crosscutting was $15.27 a foot during June. Highest cost was during August - $27.74 a foot. Raising costs varied from a low of $19.52 per foot during October to a high of $46.75 per foot during August.

F. A. Rutledge

FARutledge:lm
5/26/52

cc: Docket
F. A. Rutledge

110
FILE COPY
SURNAME:

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

Selfridge
Lamborn
Kuhan
Lemmon
Hedges
F. Johnson

APR 28 1952

Mr. David G. Wood
Box No. 58
Gardnerville, Nevada

Re: Docket No. AR-99 (tungsten)
Last Laugh Tungsten Mine

Dear Mr. Wood:

Reference is made to your application for an access road to the Last Laugh tungsten mine located in Douglas County, Nevada.

Processing of this application has been held in abeyance pending completion of your Exploration Project Contract. We have now received the results of the exploration work and they do not indicate the existence of sufficient tungsten ore on your property to warrant the construction of an access road.

We regret to advise, therefore, that your application for access road is denied.

Sincerely yours,

C. O. Mittendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

FEJohnson/bih
4/22/52
cc to: Docket
Admr's. Reading File
Operating Committee
Messrs. T.P.Thayer - R-5216 GSA Bldg.
J.H.Hedges - R-4604
S.M.Walker - R-2465
G.C.Selfridge
F.E.Johnson
Region III (2)

Docket 400
FILE COPY
SURNAME:

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

Selfridge

April 16, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Recommendation of non-certification of discovery or development
Exploration Project Contract No. Idm-E3
Docket No. DMA 142X - Tungsten
David G. Wood
Last Laugh Tungsten Mine
Douglas County, Nevada

This Division hereby concludes that the work done upon the subject property, as described in the subject contract, has resulted in no discovery or development from which commercial production of ore may be made.

A description of the property, the work done and the results obtained are as follows:

1. The property included was the "Last Laugh" and the "Last Laugh No. 1" unpatented lode claims located in the Tungsten Hills Mining District in Section 23; T. 12 N.; R. 21 E.; M.D.B. & M., Douglas County, Nevada.

2. The mineral sought was scheelite which occurs in and along a contact zone between limestone and quartz monzonite. The contact zone is partly tactite and partly a "mixed rock" composed of plagioclase, quartz and calcite. The scheelite occurs in irregular "shoots" within the "mixed rock" and, prior to the contract, was exposed in a surface pit.

3. The work done under this contract consisted of driving 225 feet of adit and raising 62 feet to the surface pit. No scheelite was encountered in the adit until a point below the pit was reached. At this point a "shoot" 12 inches wide and 30 feet long was exposed, samples of which assayed an average

(Power Note)
I concur
/s/ COM

of 0.75 per cent WO_3. The vertical extension of this shoot is about 15 feet, as disclosed by the raise. Approximately 50 tons of ore were taken out during the exploration and sampled, giving a value of 0.61 per cent WO_3. The tonnage calculations show only 40 tons of indicated ore at 0.75 per cent WO_3. The field team states the mineralized zone was continuous between the surface pit and the adit; that no large ore bodies were encountered; and that the reserves are not adequate to repay the Government's share of the loan.

4. Although an access road application was made by the Operator on September 19, 1951, it was held in abeyance until completion of the work. The field team recommends denial of the access road application.

5. There was no equipment purchased, hence none is to be disposed of by the Operator.

6. The project was started on June 11, 1951, and completed on November 16, 1951. The amount expended was $6,195.54, which gave a drifting cost of $18.38 per foot and a raising cost of $33.24 per foot.

N.S
R+R

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

GCSelfridge'lm
4/16/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
J. L. Chambers
S. M. Walker - Rm. 2465
G. C. Selfridge

IN REPLY REFER TO:

G-MD-DML

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

April 9, 1952

APR 10 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Final Field Report
Last Laugh Tungsten
Douglas County, Nevada

DMEA - 142X
Idm - E3

David G. Wood.

During the exploration project, which cost $6,200, 50 tons containing 0.61 percent of WO_3 were mined and piled on the dump, and an additional 40 tons of 0.75 percent were developed in underground workings.

If this 90 tons (60 units WO_3) were shipped to U. S. Vanadium Co., at Bishop, payment would be at the rate of $37 per unit, or a total of $2,220. A comparable return would be received if the ore were treated nearby at the Alpine mill of Metallurgical Development Co. Repayment to the government, at 5 percent, would amount to $110, compared to the government expenditure of $4,650.

The discouraging results of the exploration are exhibits in opposition to any additional expenditure of government funds on the property. I concur with the recommendation of the geologist member of the field team, and vote against additional exploration with U. S. funds.

It should be pointed out that costs of engineering, supervision, and assays were assumed by the Bureau of Mines and do not appear as a charge against the project.

D.M. Lemmon

Copy retained 400

Mr. Delfuity

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

April 4, 1952

Memorandum

To: Administrative Officer, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Access Road Application - AR-99-Last Laugh Tungsten Mine, Gardnerville, Nevada

Exploration work under DMA 142X-E3 did not prove sufficient ore reserves on which to recommend construction of an access road to the Last Laugh property. Details of the exploration are taken up in final report on the exploration project which was sent to Washington on March 25.

The original MF-105 form is attached.

S. Ricker, Acting for
H . C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment
Copy to E. H. Bailey

445 WA SFS /I-BOM/

SAN FRANCISCO 4-2-52 428PM

C O MITTENDORF ACTG ADMINISTRATOR

DEFENSE MINERALS EXPLORATION ADM INTERIOR BLDG WA

REURTT APRIL 2 CONTRACT E3 DMA 142 DAVID WOOD. FINAL REPORT MAILED TO YOUR OFFICE ON MARCH 25

H C MILLER EXECUTIVE OFFICE DMEA FLD TEAM REGION III

2 E3 DMA 142 25

EA 440PM

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 3 - 1952

APR 3 10 51 AM '52
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D.C.

C. O. MITTENDORF

FILE COPY
SURNAME:

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

1420137 - Salaries and Expenses, Defense Production Activities, Interior, 1952

Brewer
Selfridge.

TELEGRAM

APRIL 2, 1952

MR. H. C. MILLER
EXECUTIVE OFFICER, REGION III
1012 FLOOD BUILDING
870 MARKET STREET
SAN FRANCISCO 2, CALIFORNIA

RE CONTRACT E3, DMA 142, DAVID WOOD. YOUR FINAL REPORT AND OPERATOR'S FINAL REPORT NOT YET RECEIVED AND ONLY SIX WEEKS REMAIN FOR OUR REVIEW AND POSSIBLE CERTIFICATION ACCORDING TO SECTION 14 OF THE CONTRACT. YOU ARE REQUESTED TO AIR MAIL NECESSARY REPORTS THIS OFFICE AT YOUR EARLIEST CONVENIENCE.

C. O. Mittendorf (for) 4/2/52

ACTING ADMINISTRATOR
DEFENSE MINERALS EXPLORATION
ADMINISTRATION

QLBrewer'lm
4/2/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge
Q. L. Brewer

FILE COPY
SURNAME:

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

Acting Administrator, DMMA

March 31, 1952

Brewer
Selfridge

Iron and Ferro-Alloy Division, DMMA

The inability of this Division to proceed in the process of declaring "Discovery" ~~or "Non-Discovery"~~ in re:
Docket No. DMA 142X - Tungsten
Contract Idm-M3
David Wood
Douglas County, Nevada

1. The work on the subject contract was completed November 16, 1951.

2. On December 12, 1951, this Division was notified that the field team's final examination was made on December 10, 1951, and that the final report was being compiled.

3. On February 13, 1952, this Division requested information in regard to the subject contract in order to allow this Division to proceed in carrying out the provisions of Section 13 of MO-5.

4. We note that more than 6 weeks have elapsed since writing the field team for information, no answer nor acknowledgment of our letter of February 13 having been yet received.

5. We note that 4-1/2 months have elapsed since the completion of the work, and that only 6 weeks remain for the Government to certify "discovery" ~~or "non-discovery"~~.

6. This Division observes that procrastination by the field team in this instance to a point beyond May 16 will serve to bar and estop the Government from establishing its lien as set forth under Section 13 of MO-5.

7. We have been informed, verbally, that the Operator's final report was sent to the Regional Office prior to our letter of February 13, 1951.

8. We request that the field team be again requested to deliver to us the final reports on the subject contract, forthwith.

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

QLBrewer'lm
3/31/52

cc: Admn. Reading File
Docket
G. C. Selfridge
Q. L. Brewer

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

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Memorandum

March 25, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1952

To: Defense Minerals Exploration Administration, Interior Building, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMA-142X, Final Report Exploration Project Contract Idm-E3, Last Laugh Tungsten, Douglas County, Nevada.

Attached are four copies of a final report, "Contract Idm-E3, Last Laugh Tungsten, Douglas County, Nevada", by George H. Holmes, Jr., Mining Engineer, U. S. Bureau of Mines, and W. P. Irwin, Geologist, U. S. Geological Survey, dated March 14, 1952.

According to the examining engineer's and geologist's report, the project was successful insofar as the downward extension of the ore zone was found in the crosscut which was driven under the exploration project. They feel, therefore, that a small discovery was made as the dump resulting from the exploration work contains approximately 50 tons of ore assaying 0.61 percent WO_3. There is, however, a difference of opinion between the geologist and the engineer relative to the amount of work that was done as to whether it was sufficient to adequately explore the property.

It is the opinion of the geologist that the chance of finding a sufficient tonnage of ore to mine profitably is too small to warrant any additional exploration. The Bureau of Mines engineer, however, believes that exploration was not adequate to determine fully the size of the ore shoot or the possibilities of the area. Both agreed that probably no large tonnage could be produced from this mine but the character and grade of the ore seem to be sufficient to justify exploration by the applicant on his own account.

Although the project was successful in that it disclosed the downward continuity of the mineralized zone below the pit area, no large bodies of ore were encountered and estimated reserves are not adequate to repay the Government's share of the exploration loan.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to E. H. Bailey, USGS

FINAL
F.T. RPT.

Dmea 142

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

FINAL REPORT

Contract Idm-E3

Last Laugh Tungsten

Douglas County, Nev.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 31 1952

George H. Holmes, Jr., Mining Engineer
U. S. Bureau of Mines

W. P. Irwin, Geologist
U. S. Geological Survey

March 14, 1952

Reviewed by
DMEA OPERATING COMMITTEE

4-7-52
(HB) (date)

FINAL REPORT - CONTRACT Idm-E3

LAST LAUGH TUNGSTEN
Douglas County, Nev.

INTRODUCTION AND SUMMARY

The Last Laugh Tungsten property was granted a Defense Minerals Exploration loan of $6,200 on May 28, 1951. Work started on June 11 and was completed on November 16, 1951.

The property was first examined by an engineer of the Bureau of Mines on October 5, 1943[1/] with subsequent examinations on May 10, 1948[1/] and November 13, 1950[2/]. Bulldozer trenches were excavated and sampled during the summer of 1949[3/] and a topographic map was made of the property during September 1951[4/]. Periodic inspections were made during the progress of the project and technical assistance given the operator. A final inspection was made on December 10, 1951 by the joint DMEA field team[5/].

Two unpatented claims, the Last Laugh and Last Laugh No. 1, are in the Tungsten Hills Mining District, sec. 23, T. 12 N., R. 21 E., M.D.B.&M., Douglas County, Nev., about 10 miles southeast of Gardnerville, a town on U. S. Highway 395, and the nearest source of labor and supplies (fig. 1).

Exploratory work comprised the driving of a crosscut adit, drifting, and raising from the adit to the bottom of a pit which had been sunk previously on a mineralized zone. Crosscutting and drifting totaled 225 feet and the raise, 62 feet.

1/ Benson, W. T.
2/ Wiebelt, F. J. and Muller, L. F.
3/ Holmes, G. H., Jr.
4/ Muller, L. F.
5/ Muller, L. F. and Irwin, W. P.

The project attained its objective and disclosed the downward continuity of the mineralized zone below the pit area. No large ore bodies were encountered and estimated ore reserves are not adequate to repay the Government's share of the DMEA loan.

OWNERSHIP

The two unpatented mining claims are owned by David G. Wood, P. O. Box 58, Gardnerville, Nev. The Divide claim, shown on fig. 3, is owned by Ruben Park, Minden, Nev. No project work was done on this claim.

HISTORY

Scheelite was discovered in the Tungsten Hills, or Pine Nut District during the 1930's. The Badger and Premier mines on Mill creek, 2 miles to the east of the Last Laugh property, produced a small tonnage of tungsten ores, and the Alpine mill was built in this area. This mill operated intermittently on its own and custom ores through August 1949, when lack of demand and low prices for the concentrates forced suspension of operations. Milling was resumed early in 1951.

Ruben Park located the Divide claim in 1936 and David G. Wood located the Last Laugh claim in 1943 and the Last Laugh No. 1, during 1951. The claims were leased to H. B. Chessher and S. G. Baker of Reno, Nev., from 1943 to 1946 and records indicate that about 150 tons, averaging 4.6 percent WO_3, was mined from the Last Laugh claim.

The property was dormant until 1951 when David G. Wood obtained a DMEA loan to further explore mineralized areas on the Last Laugh

claims. No shipments have been made.

PHYSICAL FEATURES

The Last Laugh claims are located on a low range of hills near the west slope of the Pine Nut range of mountains at an altitude of about 6,000 feet. Relief of the area is moderate.

The 23 kv Sierra Pacific Power Co. transmission line which extends from Minden to the Alpine tungsten mill passes about 2 miles east of the mine. Motor-freight, telephone and postal facilities are available at Gardnerville, 10 miles by road to the northwest.

The climate is typical of this section of Nevada with hot, dry summers and moderate winters. Precipitation occurs mostly as snow with occasional showers during the spring and fall months. Vegetation consists of sagebrush and pinon pine. No water is available and would have to be hauled by tank truck from Gardnerville.

GEOLOGY

According to the Bureau of Mines surface map, fig. 3, the eastern part of the Last Laugh mine area is underlain by limestone, which is in contact on the west with quartz monzonite. The contact is shown as an irregular but easterly-trending line. At the time of examination by the geologist of the Geological Survey, the surface was covered by snow, and except for a few outcrops, his examination was confined to the exploratory adit (fig. 4).

The "Quartz monzonite" viewed megascopically is a dense, fine-grained greenish-gray rock; in thin section it can be seen to consist largely of an intergrowth of tremolite and andesine with minor amounts of epidote and pyrite. The geologist was not able to determine whether

it is the somewhat altered, fine-grained marginal facies of an intrusive, or whether it is hornfels derived from sedimentary or volcanic material.

The limestone is well exposed both in the adit and at the surface. It is moderately thin bedded, and ranges from a dense dark gray to a sugary-textured, light-colored rock. It strikes northeast and dips moderately to the southeast.

Thin, light-gray felsitic dikes cut the limestone. They dip steeply and most of them trend northeasterly. Cubes of pyrite that average 1/16 inch in diameter are fairly abundant in the dike rock, and, in places, small feldspar phenocrysts are visible.

In most places the limestone has been little affected by the intrusion of the dike rock, but in a few places the limestone has been metamorphosed to tactite. "Mixed" rock, consisting mainly of plagioclase, quartz, and calcite, occurs in places along the borders of the dikes, and as irregular vaguely defined masses with the dikes. The distinction between the dike rock, "mixed" rock, and tactite was difficult at times during the examination, particularly under weak light in the underground workings.

Scheelite occurs in some of the tactite, but is most abundant in the "mixed" rock. It ranges in size from fine grains to coarse, blocky crystals, and in color from white to pale green. Under ultra-violet light it fluoresces blue-white to pale yellow.

ORE

The principal occurrence of scheelite is near the end of the adit, where a continuous ore shoot in "mixed" rock can be traced along the

back of the workings (fig. 4). The shoot is generally vertical, but the dip ranges from steeply northwest to steeply southeast. In thickness it ranges from a few inches to $3\frac{1}{2}$ feet, and is an average of approximately 1 foot thick. It pinches out down-dip at approximately waist level at both ends of its exposure in the workings, and upward, where it is exposed in the raise, pinches out between sample Nos. 26 and 27 (fig. 2). The average grade of ore in the shoot is estimated to be 0.75 percent WO_3 over an average width of one foot.

Other occurrences of scheelite are exposed in the workings, but they are small and unimportant. Scheelite occurs on the sheared footwall of a dike where it is exposed in the adit 155 feet from the portal, and in a thin seam that cuts across the dike. The ore on the footwall of the dike is only about half an inch thick and is exposed over an area of about 4 square feet. The seam that cuts across the dike is only about one-quarter inch thick and one foot long. In addition, two small, irregular masses of scheelite-bearing "mixed" rock are exposed in the northwall at the foot of the raise. One is exposed over an area of 5 square feet, and the other over an area of 2 square feet. The larger exposure is estimated to contain about 0.5 percent WO_3, whereas the smaller contains 5 percent WO_3.

ORE RESERVES

The principal ore shoot contains only about 40 tons of indicated ore with an estimated average grade of 0.75 percent WO_3. The ore lies between the back of the drift and a level between sample Nos. 26 and 27 (fig. 2). In making the tonnage calculations, it was assumed that the ore shoot continues 5 feet beyond its northeastermost and southwester-

most underground exposures, and that the average width and grade is comparable to that of the exposed portion of the block.

The possibility that the ore shoot extends beyond the limits of the indicated block seems poor, as the ore shoot narrows both to the northeast and southwest, and pinches out downward near the floor of the adit and upward in the raise. Similar ore shoots may occur along the lateral or downward extension of the mineralized zone and in other parts of the area in association with felsitic dikes, but the chance of finding a sufficient tonnage of ore to mine profitably, is too small to warrant any additional exploration.

Ore mined from the exploration adit during the DMEA project forms a small dump near the portal of the adit. (see sample locality no. 28). The dump contains approximately 50 tons of ore with an average grade of 0.61 percent WO_3.

EXPLORATION PROJECT WORK AND COSTS

The DMEA exploration contract specified driving a crosscut adit under the mineralized zone exposed in the pit and raising to the bottom of the pit (figs. 2 and 4). Work started June 11, 1951 and comprised crosscutting for 213 feet, raising for 62 feet, and drifting for 12 feet. No unusual difficulties were encountered. Timber was required when a dike was crossed between 150 and 159 feet to support caving ground. The crosscut was widened between 192 and 201 feet to permit setting sill timbers for the raise. It was, however, difficult to maintain an efficient mine crew at the established wage rates during the operation.

Upon completion of the project, the mineralized areas exposed in the underground workings were systematically sampled by the Bureau of Mines. Thirty-three samples were cut with a pneumatic chipping hammer and one sample was taken from the 50-ton ore dump. Locations and analyses are shown on figure 2, Assay Map.

No new operating equipment was purchased under the contract for this project. Compressed air was furnished by a home-made converted Model A engine which proved adequate for the work. Drilling was done with a hand-held jackhamer using 7/8-inch hexagonal-steel and detachable bits. Muck was shoveled into a mine car and trammed to the dumps. A separate dump was maintained for stockpiling ore.

The following table summarizes the project costs:

	Wages and Salaries	Equipment Rental	Supplies	Other	Total	Footage
Crosscutting and drifting	$2,889.00	$539.98	$422.02	$283.30	$4,134.30	225
Raising	1,340.00	286.38	318.78	116.08	2,061.24	62
Total Cost of Project					$6,195.54	

Cost Per Foot

	Wages and Salaries	Equipment Rental	Supplies	Other	Total
Crosscutting and drifting	12.84	2.40	1.88	1.26	18.38
Raising	21.61	4.62	5.14	1.87	33.24

ACCESS ROAD

On September 19, 1951 an application was made by Mr. Wood for Access Road assistance in improving the existing 2-1/2 mile road which extends from the county road to the mine. Recommendations were held in abeyance until completion of the project when an estimate of ore reserves could be made. As a result of this work, it is recommended

that the Access Road application be denied.

CONCLUSIONS

The Bureau of Mines and the Geological Survey conclude that:

1. A difference of opinion exists between members of the DMEA field team, relative to further exploration. It is the opinion of the Geological Survey that the chance of finding a sufficient tonnage of ore to mine profitably is too small to warrant any additional exploration. The Bureau of Mines believes that exploration was not adequate to determine fully the size of the ore shoot or the possibilities of the area. Probably no large tonnage could be produced from this mine but the character and grade of the ore are sufficient to justify further exploration as a small operation at this property could undoubtedly be carried on profitably.

2. Project work was successful in that it disclosed the downward continuity of the mineralized zone below the pit area; however, no large ore bodies were encountered and estimated reserves are not adequate to repay the Government's share of the DMEA loan. Ore was found at the expected location and additional exploration by the operator may indicate existence of additional ore bodies which would increase known ore reserves.

3. The project was conducted in a workmanlike manner and the overall costs are reasonable.

4. Ore reserves are not adequate to justify recommendation of an Access Road.

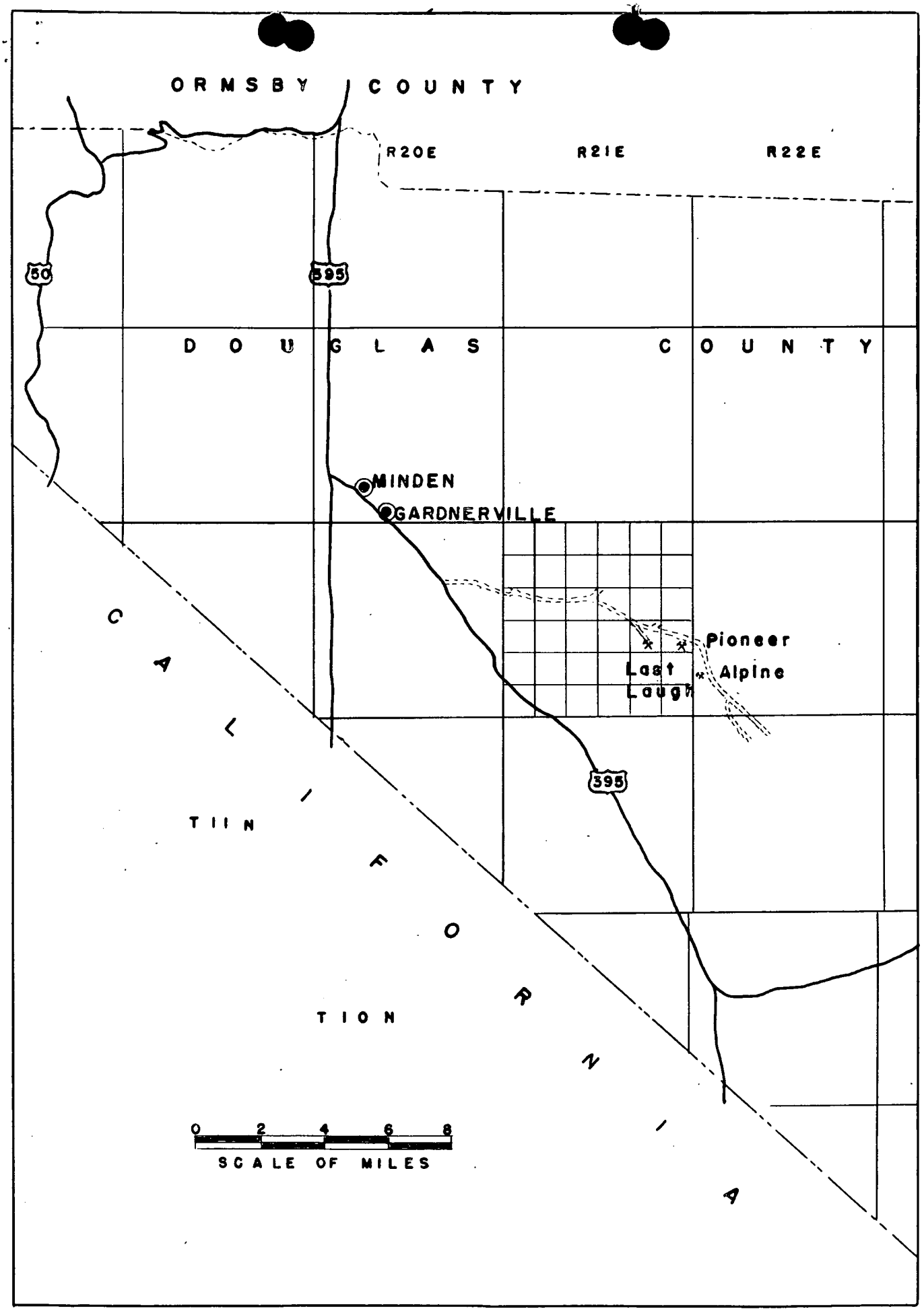
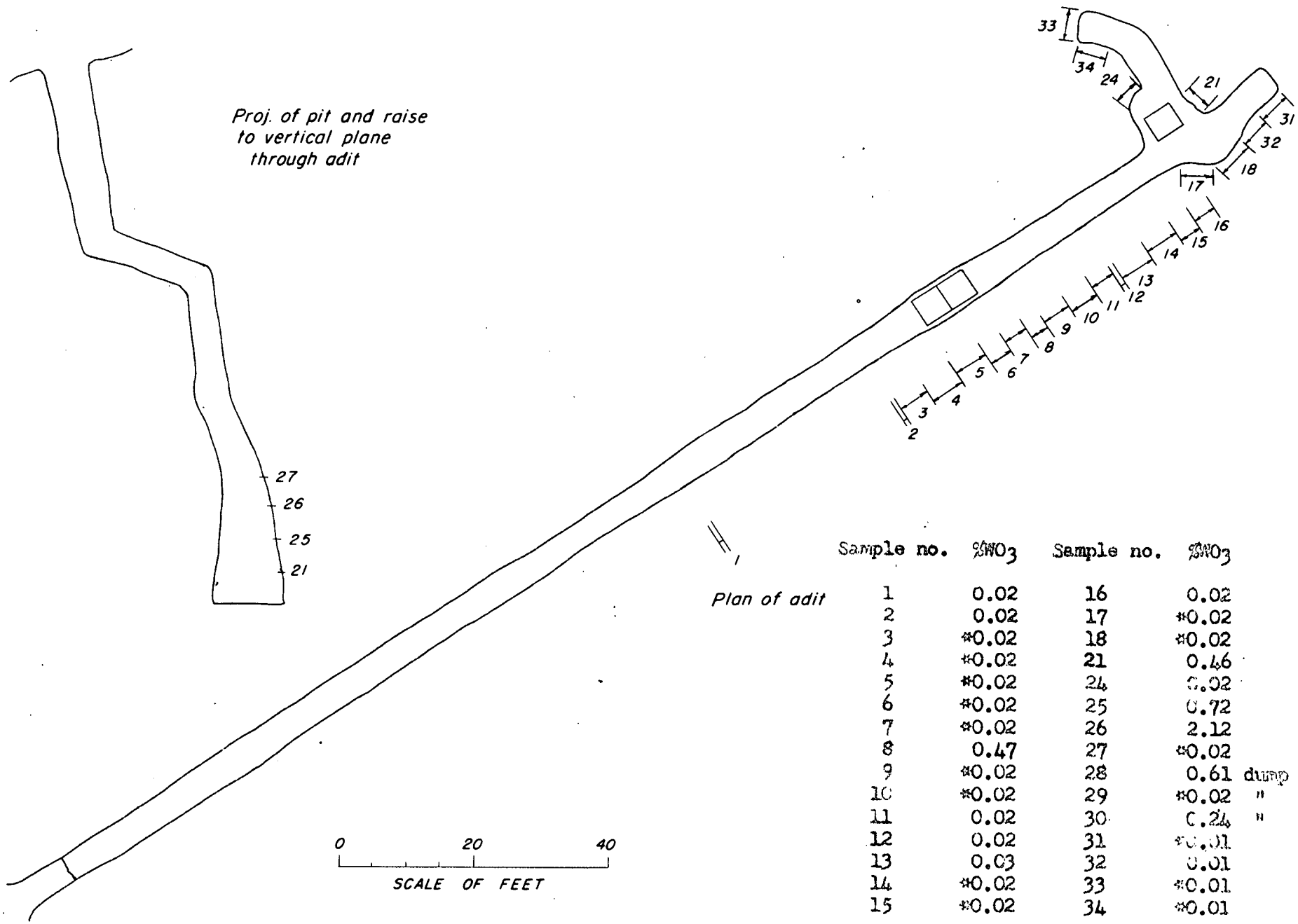


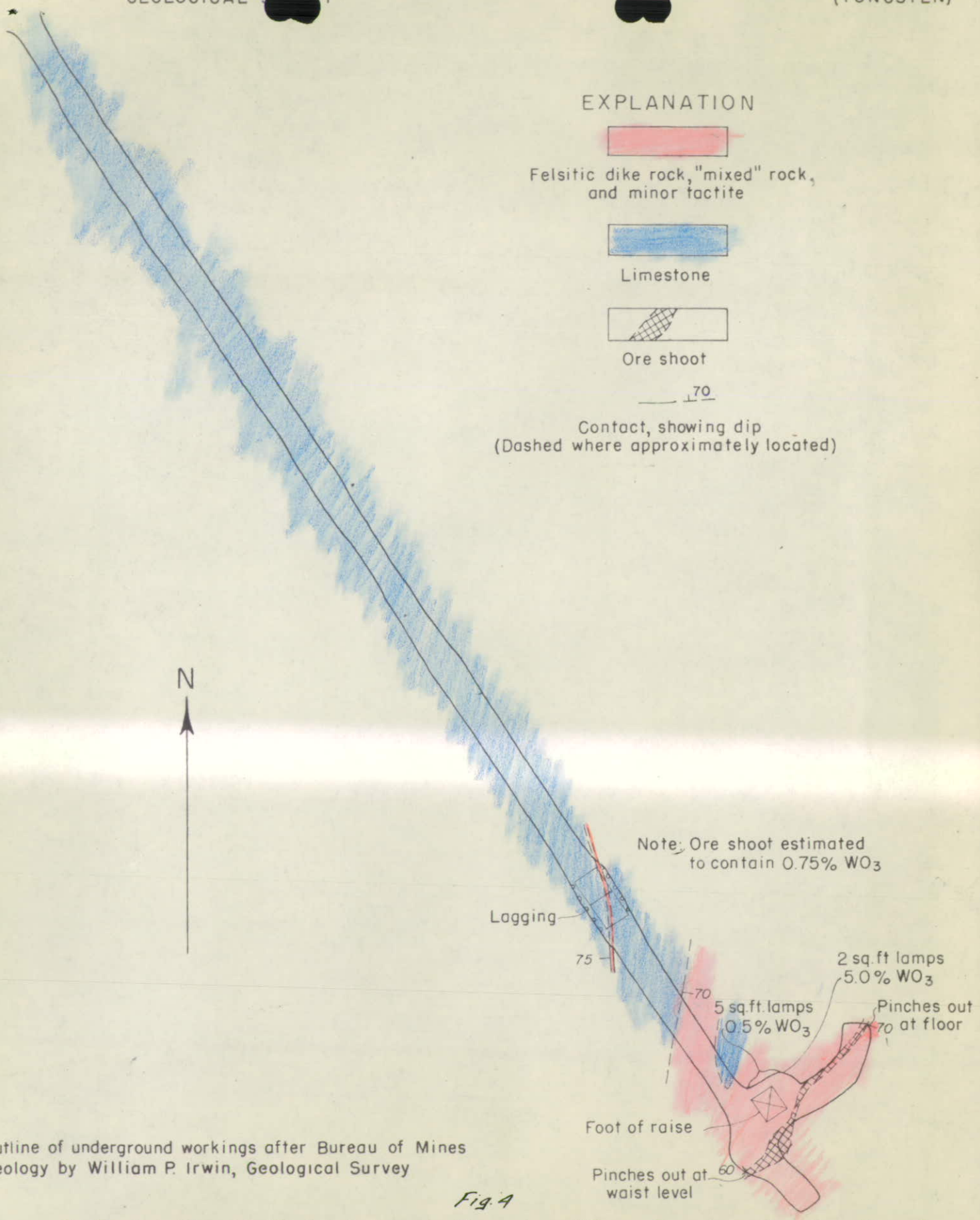
FIG. I LOCATION MAP



Sample no.	%WO_3	Sample no.	%WO_3	
1	0.02	16	0.02	
2	0.02	17	*0.02	
3	*0.02	18	*0.02	
4	*0.02	21	0.46	
5	*0.02	24	0.02	
6	*0.02	25	0.72	
7	*0.02	26	2.12	
8	0.47	27	*0.02	
9	*0.02	28	0.61	dump
10	*0.02	29	*0.02	"
11	0.02	30	0.24	"
12	0.02	31	*0.01	
13	0.03	32	0.01	
14	*0.02	33	*0.01	
15	*0.02	34	*0.01	

Figure 2 - Assay map, Last Laugh Tungsten mine

LARGE FORMAT DOCUMENTS AT END OF FILE



Outline of underground workings after Bureau of Mines
Geology by William P. Irwin, Geological Survey

Fig. 4

Map of Exploration Adit, Last Laugh Tungsten Mine, Douglas County, Nevada

400

FILE COPY
SURNAME:

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

Selfridge
Johnson

FEB 28 1952

Mr. H. C. Miller
Executive Officer, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMA 142X
Last Laugh Tungsten Property
Douglas County, Nevada
Exploration Project Contract Idm-E3

Dear Mr. Miller:

During the review of the subject contract docket it was noted in a memorandum by Messrs. Johnson and Holmes, dated July 5, 1951, that a recommendation was made to amend Exhibit D of the contract so that two shifts of miners per day could be employed rather than one.

Discussing this matter with one of the field team members of your region who is stationed in Reno and who at present is in Washington, it seems that at the time of the recommendation there was some doubt as to whether or not this could be done as the contract allowed for only two miners per day.

In most cases it would be advantageous to work more than one shift because the proposed exploration could be completed sooner with attendant savings in overhead and usually an increase in efficiency. In such cases, where warranted, the contract could be amended to allow additional labor and necessary supervision.

It was also noted that the operator exceeded the allowable maximum footage for crosscutting by 15 feet although his expenditures did not exceed the maximum amount allowable under the contract. We feel that in cases such as this, if the work and expenditures are approved by your office, an amendment should not be necessary as it is the intent to permit such flexibility in administrating contracts. In any case where you believe the auditors will not allow the cost but feel that the work and expenditures are warranted as part of the project, you have the delegated authority to amend the contract provided the total amount of the project cost is not exceeded.

Sincerely yours,

C. O. Mittenderf (fw) 2/29

C. O. Mittenderf
Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:EJohnson:ls
2/29/52

cc: Docket
Admn. Reading File
Field Team, Region 3
G. C. Selfridge

Sa.

FILE COPY
SURNAME:

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

FEB 13 1952

Mr. H. C. Miller
Executive Officer, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMA 142 - Contract E3 - Tungsten
Docket No. DMA 840 - Contract E72 - Tungsten

Dear Mr. Miller:

Review of our files shows that the contracts on the above-captioned dockets should have been completed.

Will you please advise us as to the date each applicant started work under the contracts, the date of completion of said contract, and whether or not a final examination and report have been made by the field team.

It is necessary that we have this information as soon as possible after a contract has been completed, in order that we may comply with Government regulations as defined in Section 13 of Form MO-5.

Sincerely yours,

G. O. Wittendorf (fw) 2/13/52

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:ls
2/12/52

Copy to: Admn. Reading File
Docket
Field Team, Region III
G. C. Selfridge
G. G. Gentry

See Hoffford — Omer 1+2

I feel things like this should be confirmed by writing memo.

Mitt

9/19/51

I discussed this letter with Attlee & a somewhat similar one with Pressemann after discussing with Clement Francis. I told them 2 of such items of is thus judgment reasonable & necessary for the project. Asked that minor changes would be approved by them but major changes in a project would bind OK from Washington. Yet

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

Office of
Executive Officer
DMA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco, Calif.

July 9, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration, Interior Building, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Docket DMA-142 - Tungsten
David G. Wood, Gardnerville, Nevada

Attached are four copies of subject report by A. C. Johnson and G. A. Holmes, Jr., covering the first month's operations of Mr. Wood under his tungsten exploration project contract #I-DMA-E3.

With reference to the fourth paragraph of the report, is it necessary to limit Mr. Wood to only two miners when the employment of two additional miners would expedite matters and work to his advantage?

H. C. Miller
Executive Officer, DMA Field Team
Region III

Attachment

Copy to: E. H. Bailey, USGS

File
No reply rec.
Discussed over the phone with Miller & limit OK for additional miners pending legal advice.
7/19/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 16 1951
LANDON F. STROBEL
Executive Secretary

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines
P. O. Box 1551
Reno, Nevada

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 16 1951
LANDON F. STRODEL
Executive Secretary

Memorandum July 5, 1951

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Monthly Progress Report:- Docket DMA-142 Tungsten
David G. Wood, Gardnerville, Nev.

David G. Wood's tungsten property near Gardnerville, Nev. was visited on July 3, 1951 by engineers 1/ of the Bureau of Mines in connection with the first month's work under his Exploration Project Contract.

The crosscut was started on June 11 and on June 30 had advanced 65 feet. Preliminary work, comprising bulldozing a road to the tunnel site, setting up the compressor and blacksmith equipment and excavating through overburden for the crosscut portal, were done by Mr. Wood at his expense prior to commencing the contract. The advance was through limestone; a dike was encountered at 50 feet striking S. 22° E. and dipping 70° to the southwest. No tungsten mineralization was observed.

The crosscut is being carried 6- by 4-feet in section. Two miners using a 9-hole V-cut round make an advance of from 3 to 3-1/2 feet per round. No timber, other than the portal sets, has been required. Work is being done in an efficient manner.

A serious drawback to progress of the work is being caused by the stipulation under Exhibit "D" which states that only two miners receiving a combined wage of $28 per day can be used on this contract. Advances could be speeded-up by using two-shift daily and using four miners. No difficulties have been experienced in driving the crosscut to its present length, but as the crosscut advances ventiliating and tramming time willbe increased, and should caving ground be encountered, valuable time will be lost by the present crew in timbering. In other words, it may be necessary to advance the crosscut one shift to be followed by one or more shifts for timbering or other additional work. Present progress of 3-1/2 feet per shift may be considerably reduced. Using two crews on a 2-shift daily basis would speed-up the work, practically assuring a one-round advance daily with a two-round advance possible in good ground. This bottle-neck will be more pronounced when raising starts to the bottom of the open-cut.

1/ A. C. Johnson and G. H. Holmes, Jr.

It is recommended that Exhibit "D" be amended. There should be no stipulation on the amount that can be expended per day as the main object is to complete the crosscut and raise in the shortest period of time. It is understood that the work will be completed in compliance with unit price stipulated in the contract. The purpose of the exploration agreement isto complete a certain number of units of work to determine if the property can be brought into production. No brakes should be applied to an operator that will impede progress on the project.

Costs of the first month's operation appear reasonable.

/s/ A. C. Johnson
A. C. Johnson

FILE COPY
SURNAME:

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

May 29, 1951

Memorandum AIR Mail

TO: Mr. H. C. Miller, Regional Director
Region III

FROM: C. O. Mittendorf, Director
~~Production~~ Expansion Division

SUBJECT: DMA Docket No. 142 (Tungsten)
David G. Wood
Gardnerville, Nevada
Exploration Project Contract

This will acknowledge and thank you for your letter of May 21, 1951 enclosing four copies of signed Exploration Contract of David G. Wood with four copies of completed Exhibits.

In connection with the project, the actual distance the cross-cut tunnel is to be driven will depend on its actual cost rather than the number of feet estimated in Exhibit "A". If the cost of the cross-cut is less than the amount estimated, more funds will be available for raising but if the cost is more than the amount estimated less money will be available for raising. The total cost approved for the project is the governing factor. However, only the work and costs approved as shown in the Exhibits will be allowed as costs of the project.

We are completing the contract with Mr. Wood and as soon as it is executed, copies will be mailed to you ~~and~~ and the Operator.

It is suggested that you endeavor to have the project visited by a member of the Field Team prior to the submission of the first report which should cover the period from date of contract to June 30, 1951.

If you have any questions concerning the project, please do not hesitate to write to me.

APPROVED:

Tom Lyon
Chairman, Coordinating Committee

Lowell B. Moon
Member, Bureau of Mines

Olaf N. Rove
Member, Geological Survey

C. O. MITTENDORF

FEJohnson/bih
cc to: Messrs. Mittendorf - Olund
Lyon
Rove
Moon
Johnson - Strobel
FILES

DMA 142

856

FILE COPY
SURNAME:

Koontz

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

May 28, 1951

Confidential

Memorandum

To: Chief, Production Expansion Division

From: General Counsel

Subject: Exploration project--David G. Wood
Docket No. DMA-142

This office has reviewed the above subject case and finds it to be in satisfactory form. Accordingly, contract may be presented to the Administrator for execution.

J. L. Hofflund

J. L. Hofflund
General Counsel

Attachment

CJKoontz/em

Copy to: J. L. Hofflund
C. J. Koontz
L. F. Strobel
Files

DMA 142

FILE COPY
SURNAME:

FE Johnson
Mittendorf

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

May 28, 1951

Mr. David G. Wood
Box 58
Gardnerville, Nevada

Re: Docket No. DMA-142 (Tungsten)
Exploration Project Contract

Dear Mr. Wood:

There is enclosed executed Exploration Project Contract No. I-DMA-E3, dated May 28, 1951, with attached Exhibits "A", "B", "C", "D" and "E", and maps. We are also enclosing copy of press release dated May 14, 1951, "Questions and Answers" on the Mineral Exploration Program and a set of monthly progress report forms (MF-104). Additional forms may be obtained from the DMA Field Office in your area.

If you have any questions in connection with the project as approved, it is suggested that you contact Mr. H. C. Miller, Executive Officer, DMA Field Team, 1415 Appraisers Building, San Francisco, California. In any case, please notify Mr. Miller when you plan to start work on the crosscut tunnel of your project.

Sincerely yours,

C. O. Mittendorf, Director
Production Expansion Division

FEJohnson/bih
Enclosures
cc to: Messrs. Mittendorf
Olund
Strobel
Lyons
Rove
Moon
Field Team, Region III
Field Finance Sec.-Bureau of Mines
FEJohnson Contract Service Sec. GAO
F I L E S

DMA-142

LANDON F. STROBEL

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

May 21, 1951

Air Mail

ans. 5/29/51 By B.H.

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division, DMA, Washington, D. C.

From: Regional Director, Region III

Subject: DMA Docket No. 142(Tungsten)
David G. Wood, Gardnerville, Nevada
Last Laugh Exploration Project

Four copies of corrected contract Form MF-200 signed by Mr. Wood are attached. Also attached are four copies of revised Exhibits A, B, C, D, and E which have been completed by us based upon information supplied by Mr. Wood.

Mr. Wood writes that he believes, according to his map, that 220 feet of cross cut rather than 210 feet are shown. We have no copies of his map or docket in this office but believe it inadvisable to hold up the application any longer for this correction, if one seems necessary.

He states also in his letter to me, dated May 18, that the prevailing wage rate for miners "is $1.50 to $1.75 per hour or $12.00 and $14.00 per day. The fact that there are no facilities for living quarters, the rate per day or per foot would probably be the highest.

"Since I wrote on the 6th of this month, I rented a bulldozer and put in 600 feet of road to the proposed tunnel site, also some stripping on the vein.

"I have had several miners on the ground to bid on the work; contracting would be the best way to do the job. They have other jobs now so will have to get others; miners are a real problem--very hard to get. The ones that I have had on the job figure the lime formation will be tough, so the labor cost may be high. However due to the fact that I expect to repay this loan, I will get the job done for the minimum."

H. C. Miller
Regional Director, Region III

Copy by Regular Mail
Copy to: David G. Wood

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 24 1951
LANDON F. STROBEL
Executive Secretary

MAY 23 9 16 AM '51
BUREAU OF MINES
WASHINGTON, D.C.

FILE COPY
SURNAME:

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

May 11, 1951

AIR MAIL

Memorandum

TO: Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III.

FROM: C. O. Mittendorf, Director
Production Expansion Division - DMA

SUBJECT: DMA Docket No.142 (Tungsten)
David G. Wood
Gardnerville, Nevada
Last Laugh Exploration Project

This is with reference to your letter of May 7, 1951 and enclosed copies of contract with exhibits relating to the subject project.

We have prepared four copies of a corrected contract and revised Exhibits "A", "B", "C", "D" and "E" to conform with the legal requirements for the contract and to obtain the information necessary for making disbursements of funds for the project. On the contract sent to this office the property was incorrectly described. The attached Exhibits forwarded to this office did not conform to the respective requirements for the Exhibits as set forth in the contract. On the revised Exhibit "C", please have inserted in spaces provided therein, the rental value allowable for each item listed. Also show the number of feet, of rails that are to be furnished by the Operator, in space provided for this purpose. On Exhibit "D", please indicate the maximum wages to be paid as an allowable cost of the project. Maximum prevailing wage rates in the local area may be used for determining the maximum wages to be paid under the contract. If the labor is to be contracted, the Exhibit should show the cost per foot allowed.

Subject: DMA Docket No. 142 (Tungsten)

Will you kindly arrange to have the Exhibits completed and have the four copies of the contract signed by the Operator. All copies should be returned to this office.

We regret the necessity of writing for additional information in this case but unless the Exhibits furnish the detailed information required by the contract form disbursements of funds cannot be made.

We have retained the maps in this office to be attached to the contract when it is completed.

C. O. MITTENDORF

Enclosures

FEJohnson/bih

cc to: Messrs. COMittendorf
HEOlund
LFStrobel
Phil Bradley
Tom Lyon
FEJohnson
F I L E S

REGIONAL DIRECTOR

~~LANDON F. STROBEL~~ 1. Am. Bradley DMA-142 2. M. Mittendorf

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

May 7, 1951

Air Mail

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Div., Defense Minerals Administration, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Docket DMA-142, Last Laugh Tungsten; David G. Wood, Gardnerville, Nevada.

Reference is to your subject letter dated April 30.

As requested, we have had Mr. David G. Wood execute the exploration contract in triplicate and have had him append a copy of Exhibits "A", "B", "C", "D", and "E" to each copy of Form MF-200.

Mr. Wood writes as follows:

"During the negotiation of the contract, or for the last three months, I have been working alone developing the property. The results have been very encouraging, which can be substantiated by your engineers.

"Part of the equipment is on the property. I have been using it in the development work. I figure the use of the equipment and my labor at $500.00 per month. The project should be completed and the mine in production in less than 6 months.

"The picture of the production facilities have improved in last few months. There is a custom mill in operation 5 miles from the mine. They have agreed to handle my ore for $12.00 per ton for milling and $2.00 per ton for loading and hauling, a total of $14.00 per ton, with a recovery of 80 to 85%."

The executed contract, in triplicate, is attached herewith.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 1 0 1951
LANDON F. STROBEL
Executive Secretary

H. C. Miller
Executive Officer, DMA Field Team,
Region III

Attachment
Copy - Regular mail
Ward G. Smith, Geological Survey

ONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

Mittendorf

May 2, 1951

Re: Docket DMA-142
Last Laugh Tungsten

Mr. David G. Wood
Box 58
Gardnerville, Nevada

Dear Mr. Wood:

Your application for financial assistance under the Defense Minerals Administration's exploration program has been conditionally approved. The Government will contribute not to exceed $4650.00 to the project. Work on the project shall start within thirty days from the date of the contract and must be completed within six months from that date.

Enclosed are three copies of Form MF-200 (the exploration project contract), which has been prepared for your signature, subject to attachment of Exhibit "A" required by paragraph 3 of the form. Please describe fully and clearly in Exhibit "A" the work to be performed on this project. Exhibits "B", "C", "D", and "E" should also be prepared and attached to the contract, if applicable.

The contract should be executed in triplicate and returned to me for transmittal to Washington for execution by the Administrator.

You will be notified when the contract has been approved by the Defense Minerals Administrator.

Sincerely yours,

H. C. Miller
Regional Director, Region III

Enclosure (Contract)

Copy to: C. O. Mittendorf
Ward C. Smith

FILE COPY
SURNAME:

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

April 30, 1951

Air Mail

Re: Docket No. DMA-142

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
Department of the Interior
1415 U. S. Appraisers Building
630 Sansome Street
San Francisco 11, California

Dear Mr. Miller:

The application of David G. Wood, Gardnerville, Nevada, for financial assistance under the exploration program has been conditionally approved. The Government will contribute not to exceed $4650.00 to the project. Work on the project shall start within thirty days from the date of the contract and must be completed within six months from said date.

Enclosed is Form MF-200 (the exploration project contract) which has been prepared for signature of the applicant, subject to attachment of Exhibit "A" required by paragraph 3 of the form. Please make certain that the work to be performed on this project is fully and clearly described in Exhibit "A". Exhibits "B", "C", "D", and "E" should also be prepared and attached to the contract if applicable.

The contract should be executed in triplicate and returned to me for execution by the Administrator.

Very truly yours,

C. O. Mittendorf

C. O. Mittendorf, Director
Production Expansion Division

CJKoontz/em

Enclosures 3
Copy to: Administrator's Reading File
L. F. Strobel
C. O. Mittendorf
J. L. Hofflund
C. J. Koontz
Files

FILE COPY
SURNAME:

Mittendorf

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

April 25, 1951

Memorandum

TO: Mr. John L. Hofflund, Chief Counsel, DMA

FROM: C. O. Mittendorf, Director, Prod.-Exp. Div., DMA

SUBJECT. Docket No. DMA-142 (Tungsten)
David G. Wood
Box 58
Gardnerville, Nevada
EXPLORATION PROJECT

The applicant's proposal to drive a crosscut tunnel to intercept the expected downward extension of favorable geological features and tungsten ore exposures in surface workings and raise thereon has been recommended by the DMA Field Team of Region III.

The present ore exposures contain from 2 to 4% WO_3 over a width of 5 feet for a length of about 50 feet and to a depth of about 30 feet. The ore mineral is scheelite with the usual contact minerals occurring in limestone along a quartz monzonite stock. The limestone and contact dip about 40°.

CRITERIA

Exploration Project

(a) Tungsten is a strategic and critical mineral in short supply and needed for civilian use and defense industry.

(b) The geology is favorable to the possibility of finding additional ore of mineable grade below the surface exposures.

(c) From three to five men will be required for the project and these are reported to be available in nearby towns.

(d) Because of the small amount required for the project and estimated cost per foot, it is presumed that operations will be conducted by manual labor and no additional equipment needed. However, any equipment needed for a project of this size, no doubt, would be available in the surrounding area. Necessary supplies can be purchased locally.

Dmar 142

B 858

(e) The project is accessible by truck road from nearby towns (2 to 10 miles distant).

(f) An electric power line is within 2 miles of property but any power used probably would be obtained from diesel fuel or gasoline driven equipment. Water for mining and domestic uses is hauled ten miles in tank trucks.

(g) It is our understanding that this applicant has been engaged in mining operations of this type over a period of several years.

Operator's Property Rights

The applicant owns the Last Laugh Tungsten mine comprising the Last Laugh and the Last Laugh No. 1 unpatented mining claims situated in Section 23, Township 12 North, Range 21 East, M.D.M. Douglas County, Nevada.

There is a third unpatented claim known as the Divide claim, owned by Ruben Park of Minden, Nevada. This claim is evidently a prior location and possibly conflicts with the Last Laugh claims in the vicinity of the proposed work. It is not clear whether the applicant has obtained control of the Divide claim. This matter should be clarified by the Regional Director before completing a contract. It also should be determined whether any liens exist against these claims, and if so the necessary subordination agreement obtained.

The exploration project should start within 30 days from the date of the contract and be completed within six months from such date.

The Government will participate to the extent of 75% of the cost of the project but such participation shall not exceed $4,200.00.

Exploration Project (Exhibit "A")

The approved project is as follows:

210 feet of tunnel @ $20.00 per foot	-	$4,200.00
50 feet of raise @ $40.00 per foot	-	2,000.00
Total cost		$6,200.00

(See attached maps)

Fixtures and Improvements (Exhibit "B")

It is not contemplated that any additional fixtures or equipment shall be charged to the project.

Operating Equipment (Exhibit "C")

It is not contemplated that any additional equipment shall be charged to the project. If the operations are to be conducted by other than manual methods only rental of necessary equipment will be allowed as part of the cost upon prior approval of the Regional Director.

Labor and Supervision (Exhibit "D")

From 2 to 5 men are to be employed. Numbers and classes (miners, muckers, etc.) of labor and supervisors with maximum wage rates shall be listed in Exhibit "D" attached to the contract.

Rehabilitation and Repairs (Exhibit "E")

It is not contemplated that any rehabilitation or repairs of existing facilities shall be allowed. However, a detailed list of any facilities on the project shall be listed in Exhibit "E" attached to contract.

Repayment by Operator

Proceeds of sales of ore or concentrates produced as a result of this project through discovery or development shall be used to repay the amount of the Government's participation at the rates prescribed in MO-5, dated April 6, 1951.

The project is approved as above outlined, subject to clarification of possible claims conflict, and completion of appropriate exhibits as indicated to be attached to the contract.

It is suggested that certification of this project to the Director, Region III, be prepared for Mr. Boyd's signature with instructions for completing the contract in accordance with the foregoing provisions.

FEJ/bih

C. O. MITTENDORF

cc to: Messrs. Boyd - Adm.
Douglas - Asst. Adm.
COMittendorf
HEOlund
LFStrobel
Tom Lyon
Otto Herres
FEJohnson
F I L E S

FILE COPY
SURNAME:

Lemm
Holderer
Ballard

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

April 16, 1951

Memorandum C. O. Mitterdorf

To: Director, Production Expansion Division

Through: Director, Supply Division

From: Chairman, Commodity Committee

Subject: DMA 142 - Last Laugh Tungsten Claim, Douglas County, Nevada, David G. Wood, Box 58, Gardnerville, Nevada

Mr. Wood has revised his application, and he now requests an exploration loan of $6,200. It is recommended that his application for $6,200 be approved.

The only tungsten ore on the Last Laugh Claim is in a layer 50 feet thick, and opened to a maximum depth of 30 feet. The ore is scheelite in tactite occurring near a granite contact. It is proposed to tap this ore body at a depth of 80 feet beneath the outcrop (50 feet below the deepest surface openings) by driving a tunnel 210 feet. It is estimated that this work, plus a 50-foot raise to the bottom of the present workings, may yield at least 800 tons of ore averaging 2 to 4 percent of WO_3.

A DMA field team for Region III investigated the deposit on February 21, and approved the revised application for a loan of $6,200 to provide funds for driving the tunnel and raise, all in anticipation of the exploration loan program.

George B. Holderer

George B. Holderer
Acting Chief, Tungsten Branch

Approved:

Tom Lyon

Director, Supply Division

TJBallard:mem

cc: Adm. Reading File
Mr. Strobel
Mr. Lyon
Mr. Bradley
Regional Field Team - Region III
F I L E S

Mineral 142

856

REPORT AND RECOMMENDATIONS OF DOUGLAS COUNTY
ON APPLICATION FOR GOVERNMENT ASSISTANCE

April 16, 1951

DEA No. 142
Commodity, Tungsten

A. Name and address of applicant

David C. Cook
Box 50
Gardnerville, Nevada

B. Property and location

East Branch claim, Douglas County, Nevada, Sec. 27, T. 12 N., R. 21 E., 10 miles southeast of Gardnerville, in the Pine Nut range.

C. Evaluation

The only ore on the deposit is in a layer 50 feet long, 5 feet thick, and opened to a maximum depth of 30 feet. The ore is scheelite in tactite and is near a granite contact. It is estimated the proposed work will yield 500 tons of ore averaging 2 to 4 percent WO_3.

The property has road access passable to truck traffic. It can be operated the year round.

D. Recommendation

The property has been investigated by the Nevada Committee for Region 2[illegible] which approved the revised application for a loan of $6,200.

It is recommended that the application for a loan of $6,200 be approved. The loan to be repaid from production.

E. Proposal

The applicant proposes to drive a 210-foot tunnel to cut the vein at an elevation 80 feet below the original outcrop or 50 feet below the deepest working. A 50-foot raise in ore from the tunnel will connect to the former workings. The ore will be mined by shrinkage

stoping and transmed through the tunnel .

F. The proposal is in accord with the program to expand tungsten production.

G. Technical feasibility

The project is technically sound for this size loan. The applicant expects to produce about 800 tons of 1-4 percent WO_3 ore. At $65 per unit this indicated a gross value of $104,000 plus.

H. Project requirements

The proposed plan of operation will require very little equipment.

It is estimated the total costs of driving the 110-foot tunnel and 5-foot raise will be $6,200.

I. Financing

By straight loan repayable from production.

George Malcolm

George E. Malcolm, Acting Chairman
Tungsten Commodity Committee

Approved:

Tom Lyon

Director, Supply Division

TJBallard:ec

CC: Adm. Reading File
Mr. Lyon Files
Mr. Strobel
Mr. Bradley

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : P. R. Bradley, Jr., Chief, Tungsten Branch DATE: April 4, 1951

FROM : D. M. Lemmon

SUBJECT: Revised application of David G. Wood
Box 58, Gardnerville, Nevada.
DMA-142 Tungsten

Property: Last Laugh claim, Douglas County, Nevada
Sec. 23, T. 12 N., R. 21 E., 10 miles southeast of
Gardnerville, in the Pine Nut range.

The only ore on the Last Laugh claim is in a layer 50 feet long, 5 feet thick, opened to a maximum depth of 30 feet. The ore consists of scheelite in tactite, and is near a granite contact. Mr. Wood proposes to tap this ore body at a depth of 80 feet beneath the outcrop (50 feet below the deepest surface openings). He plans to drive a cross-cut adit 210 feet to reach this depth. It is estimated that this work, plus a 50-foot raise to the surface, will yield at least 800 tons of ore averaging 2 to 4 percent of WO_3.

DMA Field Committee for Region III investigated the deposit, and on February 21 approved the revised application for a loan of $6,200. With this money, a crosscut adit will be driven 210 feet, mostly in granite at $20 per foot ($4,200) and a raise will be driven 50 feet at $40 per foot ($2,000).

It is recommended that this application be approved for an R.F.C. loan of $6,200, to be repaid from production.

D. M. Lemmon

February 21, 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
Oscar L. Chapman, Secretary

BUREAU OF MINES
James Boyd, Director

PRELIMINARY REPORT

LAST LAUGH TUNGSTEN, DOUGLAS COUNTY, NEV.

By

George H. Holmes, Jr., Frank J. Wiebelt,
and A. C. Johnson

On-Site Exam. Rpt.

PRELIMINARY REPORT

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

LAST LAUGH TUNGSTEN, DOUGLAS COUNTY, NEV.

By George H. Holmes, Jr.,[1] Frank J. Wiebelt,[2] and A. C. Johnson[3]

SUMMARY

The Last Laugh tungsten claim is in west-central Douglas County, Nev., about 10 miles southeast of Gardnerville, Nev. During 1943 to 1946 a small ore body was mined; about 150 tons of high grade tungsten ore, averaging 4.6 percent WO_3, being shipped. The property has been inactive since 1946.

Northeasterly trending limstones are in contact on the west with a quartz-monzonite stock. Dikes or stringers of monzonite porphyry extend northeasterly into the limestones altering the limestones along the contacts and forming tactite zones. Small ore bodies containing comparatively high grade scheelite bearing ore were discovered along two of these tactite zones.

Bureau of Mines work comprised bulldozing a series of trenches normal to the limestone-quartz monzonite contact and across the monzonite-porphyry dikes. Fresh exposures in the trenches were examined with an ultra-violet mineral light. This work indicated that tungsten mineralization is confined to the immediate areas of the known ore body. No mineralization was found on other parts of the claims.

1/ Mining engineer, Mining Division, Region III, Bureau of Mines
2/ Mining engineer, Mining Division, Region III, Bureau of Mines
3/ Chief, Mining Division, Region III, Bureau of Mines

INTRODUCTION

The Last Laugh tungsten property was examined on October 5, 1943 by an engineer[4] of the Bureau of Mines in connection with an application for an access road. A subsequent examination by a Bureau of Mines engineer[4] on May 10, 1948 resulted in a recommendation for a limited amount of exploration. Bulldozer trenches were excavated and sampled between July 20 and 26 and August 8 and 18, 1949.[5]

The property was again examined by engineers[6] of the Bureau on November 13, 1950 for the purpose of spotting some diamond drill holes to determine possible extensions of scheelite ore bodies at depth on the Last Laugh tungsten claim owned by David G. Wood.

Three unpatented claims, the Last Laugh, Last Laugh No. 1 and Divide, are in the Tungsten Hills Mining District, sec. 23, T. 12 N., R. 21 E., M. D. B. & M., Douglas County, Nev., about 10 miles southeast of Gardnerville, Nev., a town on U. S. Highway 395. To reach the claims from Gardnerville, travel southeast 2.6 miles on U. S. Highway 395; turn sharply left and continue 6.0 miles over a graded dirt road; turn right and travel over a steep, ungraded but passable mine road 1.3 miles to the Last Laugh claim.

OWNERSHIP

The Last Laugh and Last Laugh No. 1 claims are owned by David G. Wood, Markleeville, Calif., and the Divide claim is owned by Ruben Park of Minden, Nev.

4/ Benson, W. T.
5/ Holmes, George H., Jr.
6/ Wiebelt, Frank J. and Muller, L. F.

HISTORY

Scheelite was discovered in the Tungsten Hills, or Pine Nut District, in the 1930's. The Badger and Premier mines on Mill Creek, 2 miles to the east, produced a small tonnage of tungsten ores and a mill was built. This mill operated intermittently through August 1949; lack of demand and low prices for the concentrates forcing suspension of operations. Ruben Park located the Divide claim during 1936 and David G. Wood located the Last Laugh claim in 1943. The Last Laugh No. 1 claim was located in 1950.

The claims were leased to H. B. Chessher and S. G. Baker of Reno, Nev., from 1943 to 1946 and a small tonnage of high grade tungsten ore was produced. Records indicate that about 150 tons, averaging 4.6 percent WO_3, was mined from the deposit on the Last Laugh claim and shipped to the Metals Reserve stockpile at Salt Lake City, Utah.

PHYSICAL FEATURES

The three claims are on the west slope of the Pine Nut range of mountains at an altitude of about 6,000 feet. The relief of the area is moderate.

Transmission line power is available from the 23 kv., Sierra Pacific Power Co. line which extends from Minden to the Alpine tungsten mill about 2 miles to the east. Motor-freight, telephone and postal facilities are available at Gardnerville, 10 miles by road to the northwest.

The climate is temperate with hot, dry summers and moderate winters.

Precipitation occurs mostly as snow with occasional showers during the spring and fall months. Vegetation consists of sagebrush and pinon pine.

Water for mine and domestic use is hauled in tank trucks from Gardnerville.

LABOR AND LIVING CONDITIONS

No buildings or structures are on the property and mine workers would have to live in Gardnerville or Minden, and drive to and from work. An adequate supply of labor is available in these towns.

GEOLOGY AND ORE DEPOSITS

Blue and gray limestones, having a general strike of N. 15° E. and dipping 35° to 45° S. E., comprise the sedimentary rocks on the claims. They are in contact, on the west, with a quartz monzonite stock. Narrow, northeasterly striking dikes or stringers of monzonite-porphyry extend from the quartz monzonite for varying distances into the limestones, silicifying them along contacts. Alteration of the limestones has also formed tactite zones containing the usual contact minerals, scheelite, epidote, garnet, quartz, and calcite in varying amounts.

The ore body on the Last Laugh claim occurs along a tactite zone in altered limestone, striking N. 66° E. and dipping 83° S. E. For 20 feet along its strike length, it was mined to a depth of 30 feet with an average 5 foot width. The deposit was mined for an additional 30 feet along the strike but to an average depth of 7 feet. Scheelite occurs as finely disseminated crystals and in clusters of large crystals along vertical slips and cross fractures.

WORK BY BUREAU OF MINES

Bureau work was planned to explore areas along the limestone-quartz monzonite contacts and the porphyry dikes or stringers extending into the limestones. It was anticipated that additional deposits similar to those mined would be found on the claims.

The work comprised bulldozing a series of trenches normal to and parallel with the limestone-quartz monzonite contact. The former were designed to excavate overburden and detritus covering porphyry dikes and stringers and to cross the limestone-quartz monzonite contact. The latter trenches explored areas east of the main contact and cut across porphyry dikes and zones of altered limstone.

The steepness of the hillside, dense growths of pinon pines and numerous limestone outcrops, made for difficult bulldozing, but approximately 6,000 feet of trenches ranging from 1 to 3 feet in depth were excavated. Work was done with an Allis-Chalmers HD-7 angle bulldozer equipped with an 11-foot blade.

Trenches were subsequently cleaned of loose material by pick and shovel, exposing clean surfaces of underlying rock. These surfaces were closely examined at night by use of the ultra-violet mineral light, and mineralized areas were noted.

Samples were taken from the open pit and a trench near the pit on the Last Laugh claim (fig. 1). No tungsten mineralization was noted in other trenches.

CONCLUSION

The proposed work outlined in Mr. Wood's revised application is a reasonable procedure, although it is believed that this work

could be accomplished by diamond drilling approximately 400 feet of hole to determine if the tungsten ore mined in the open pit extends to depth. The alternative would be to drive the crosscut to the downward extension of the ore body (figs. 1 and 2).

If the scheelite-bearing ore body continues downward, the proposed crosscut would accomplish the same purpose as the diamond drilling. The ultimate contract cost of the 400 feet of drilling would probably approximate the cost of the crosscutting. However, the crosscut will give access to the deposit which can then be worked by raising and mining by shrinkage stope methods.

REGIONAL DIRECTOR

~~LANDON P. STROBEL~~

Mr. Beeson

142

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

MAR 9 1 57 PM '51
BUREAU OF MINES
WASHINGTON, D. C.

March 2, 1951

Memorandum

To: P. R. Bradley, Jr., Chief, Tungsten Division, DMA, Washington, D. C.

From: H. C. Miller, Executive Officer, DMA Field Team, Region III

Subject: Last Laugh Tungsten Mine, DMA-142

In accordance with your request of January 11, the Last Laugh Tungsten Mine has been examined, particularly with regard to ore reserves and suitability of the proposed development program.

Mr. Wood has revised his application, and since Mr. A.C.Johnson talked to him he has reduced the amount of the proposed loan from $26,010 to $6,200. Mr. Wood's revised application is enclosed herewith attached to A. C. Johnson's memorandum to me dated February 21.

Herewith, in addition to the Washington Office file, there are attached:

Two copies of Preliminary Report, Last Laugh Tungsten, Douglas County, Nev., by George H. Holmes, Jr., Frank J. Wiebelt, and A. C. Johnson.

Copy of memorandum to A. C. Johnson from Regional Director, Region III, dated February 14.

Memorandum dated February 21 from Chief, Mining Division, Region III, to H. C. Miller in reply to memorandum of February 14, with revised application from David G. Wood.

H. C. Miller
Executive Officer,
DMA Field Team, Region III

Attachment (File)

Copy to: Ward Smith, Geological Survey

Gardnerville, Nevada
February 20, 1951

Docket No. DMA-142

Mr. A. C. Johnson
U. S. Bureau of Mines
Box 1551
Reno, Nev.

Dear Mr. Johnson:

I am taking this means of making an application for a loan, for the exploration and development of the Last Laugh tungsten Mine under the Defense Production Act of 1950 (Public Law 774).

I am rendering this brief report for your consideration:

Location of Mine

This property is located in Sec. 23, T 12 ~~E~~ N, R 21 E, M. D. M., Douglas County, State of Nevada.

There are two claims in the group, The Last Laugh and The Last Laugh No. 1.

The elevation of the mine is 6,000 feet. A graded County road comes to within one mile of the property, with an unimproved road to the mine, it is passable to truck traffic. The elevation and location of the property is such that it can be operated the year round.

Geology

The formation is Limestone and Monzonite. The ore occurs on the contact, also in zones of faulting and fracturing near the contact.

History

The deposit was discovered during the last war. And was worked by a crew of three men; over an active period of about three months. Or up to the time that the Metal Reserve Company terminated the buying of crude ore.

The production during that period was 150 tons of ore mined from an open pit 25x20x4. The returns from the Metal Reserve Company was paid on the basis of ore that ran from 3% to 9% WO_3.

Using the past production record of the property as a unit of measurement.

From the surface indications, it could be expected that the ore body would at least be 40 feet in length and should go to a depth of the 80 foot level of the proposed crosscut. The vein mined had a width of 4 feet. Assuming that ore goes to the 80-foot level, there would be a block of ore $\frac{40 \times 50 \times 4}{10} = 800$ tons of tungsten ore with a grade of 2% to 4% WO_3 using a factor of 10 cubic feet of ore in place to a ton of ore. At the present market price of tungsten, this would ba a value of approximately $80,000.

Proposed Plan for Production

Drive the proposed crosscut to contact, a distance of 210 feet at a cost of $20 per foot - $4,200

Raise on ore, a distance of 50 feet at a cost of $40 per foot 2,000

Total 210 feet of crosscut and 50 feet of raise - $6,200.

A crew of three men will be necessary for work.

Yours truly,

David G. Wood

David G. Wood
Box 58
Gardnerville, Nev.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
FEB 27 1951
SAN FRANCISCO, CALIFORNIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region III

Nevada - California

P. O. Box 1551
Reno, Nevada

Memorandum

February 21, 1951

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMA-142, Last Laugh Tungsten Mine

Refer to	Noted	Date
Answered		

Mr. Wood called at the Division office and methods for the development of his tungsten mine were discussed.

In Mr. Wood's original application for a loan under the Defense Production Act, he had asked for $26,010. However, it is believed that the preliminary work should be to drive a crosscut as proposed on the map (figs. 1 and 2) to intersect the downward extension of the scheelite ore body that was mined on the surface; then to drive some raises on ore and mine the remaining scheelite by shrinkage stope methods. The cost of this work will be approximately $6,200 as compared with $26,010 that was originally requested.

In reference to question No. 1 in your memorandum of February 14: No consideration has been given to sinking on the ore as this method would be too expensive on a small ore body.

In regard to question No. 2: Mr. Wood would be unable to obtain a contractor to drill the property when he has only 400 feet of drilling. The contract would probably have to be based on a 1,000 feet of drilling which would cost at the present time about $6,000.

The drifting and raising that he proposes will approximate about the same amount and he will have a working entry to his ore.

Question No. 3: The maps and sections have been changed and the big Plan Map has been substituted showing a generalized idea of the geology.

Questions 4 and 5: Contacts have been indicated that might be intersected by the drill holes and apparent dip of the ore body is shown.

In conformance with section 6 of your memorandum, the maps and reports have been dated.

The revised application for a loan under the Defense Minerals Administration has been prepared by Mr. Wood and is enclosed herewith.

The original application for a loan under the Defense Minerals Administration and Docket No. DMA-142 with all correspondence is returned herewith.

A report on Mr. Wood's tungsten property is also enclosed.

A. C. Johnson

A. C. Johnson

Encls. (3)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region III

Nevada - California

P. O. Box 1551
Reno, Nevada

February 12, 1951

Memorandum

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
FEB 13 1951
SAN FRANCISCO, CALIFORNIA

Refer to	Noted	Date
	HCM	2-14
Answered		

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Last Laugh Tungsten mine, DMA-142

Enclosed herewith is a report on Mr. Wood's "Last Laugh Tungsten mine" in Douglas Co., Nev.

At the present time, there is no blocked out ore on Mr. Wood's tungsten claim in Douglas County, Nev. The development work that is proposed by Mr. Wood is sound providing that the ore body goes to depth. This would have to be proven by the drilling that is recommended in the report. This phase of the work has been discussed with Mr. Wood and he is in agreement that this would probably be the best way to determine the merits of his property.

Mr. Wood's file on the Last Laugh Tungsten, DMA-142 is enclosed.

A. C. Johnson

A. C. Johnson

FILE COPY
SURNAME:

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

Condly

January 11, 1951

Memorandum

To: Field Team, Region III

From: Tungsten Committee

Subject: West Lough Tungsten mine, DMA-142

Attached is the file on the subject proposal which involves a loan request in the amount of $36,010.

Please have an examination made of this property, particularly with regard to ore reserves and to suitability of the proposed development program. For instance, it may be possible to advance a development loaning on ore rather than doing the work in the program proposed by Mr. Good.

If the field examination indicates that a different development program would be more desirable than the one proposed in the application, an officer should be sent to agree on a new proposal satisfactory to the applicant and to the examiner. This agreement should extend to the cost as well as the type of work, and to the cost of the equipment which would be bought with the loan proceeds. The applicant should be made to understand, however, that his agreement with the field examiner as to such a program is not a commitment on the part of the DMA to make the loan, and that final approval rests with the Washington Office; and further, that such approval must wait until pending policy questions are decided in Washington. In case a new proposal is agreed upon, a new application should be sent in by applicant, using the same DMA Docket number.

Copy to: P. R. Bradley
A. C. Johnson
R. W. Geehand
Ferrous M & A
Files

This small deposit located near Reno, will probably require only an examination by an engineer from the Bureau of Mines station there.

Please return this file along with your report.

P. R. BRADLEY

P. R. Bradley, Jr., Chief
Tungsten Division
D.M.A.

APPROVED:

S. H. Williston
Chairman, Operating Committee

J. H. Hedges

Olaf N. Rove

FILE COPY
SURNAME:

Bradley

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

January 10, 1951

Mr. David C. Wood
Box 58
Gardnerville, Nevada

Dear Mr. Wood:

Reference is made to your application for a loan in the amount of $41,520 to cover work at the East Lough tungsten mine.

Most of this money is, according to your application, to be used for development work. We have at present no fully developed policy in respect to development loans and we are not ready to grant them. But nevertheless, this request has been referred to the Defense Minerals Administration Field Team for Region III, Mr. Harold O. Miller, Chairman, U. S. Appraisers Building, San Francisco, California, for field examination of the property. Please notify Mr. Miller regarding road conditions near the mine and the possibility of making the examination at this time. In case snow will prevent an early examination, Mr. Miller should be informed when the workings become accessible.

Please refer to Docket No. DMA - 142 in any correspondence regarding this loan.

Very truly yours,
P. R. BRADLEY

P. R. Bradley, Jr.
Chief, Operation Division, DMA

PRB:apd

Cc - P. R. Bradley, Jr.
H. C. Miller
A. C. Johnson
R. W. Geehan
Ferrous M & A
Files

REGIONAL DIRECTOR

LANDON F. STROBEL

DMA-142

No reply req.

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

January 4, 1951

Memorandum

To: Mr. James Boyd, Administrator,
Defense Minerals Administration, Washington, D. C.

DMA-142

From: Regional Director, Region III

Subject: DMA loan application--Last Laugh Tungsten Mine,
Douglas County, Nevada.--Tungsten.
David G. Wood, Box 58, Gardnerville, Nevada.

There is attached a letter, dated November 15, from Mr. David G. Wood to Mr. A. C. Johnson making preliminary application for a loan of $26,010 for driving 517 feet of drifts or tunnels and for materials and equipment needed at the Last Laugh Tungsten Mine in Douglas County, Nevada.

H. C. Miller
H. C. Miller
Regional Director, Region III

Attachment — filed with DMA Docket
Gechom

BUREAU OF MINES
WASHINGTON, D.C.
JAN 11 1 02 PM '51

DMA-142

856

FILE COPY
SURNAME:

RWH

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

December 20, 1950

Mr. David G. Wood
Box 58
Gardnerville, Nevada

Dear Mr. Wood:

Reference is made to your application for a loan in the amount of $41,520 to cover work at the Last Laugh tungsten mine.

This proposal is now under consideration. It is probable that an examination of the property will be necessary before final action is taken.

In any future correspondence concerning the proposal, please refer to Docket No. DMA - 142.

Very truly yours,

ROBERT H. RIDGWAY, ~~Chief~~ acting Chairman
Ferrous Metals ~~& Alloys Branch~~ Committee

RWGeehan/mjb

Copy to: R. H. Ridgway
R. W. Geehan
Files

Dmc 142

8598

REGIONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

DMR-142

December 8, 1950

Memorandum

To: Deputy Administrator, Defense Minerals Administration—
James Boyd, Washington 25, D. C.

From: Regional Director, Region III

Subject: Last Laugh Tungsten Mine, Douglas County, Nevada.
David G. Wood, Box 58, Gardnerville, Nevada.

There is attached our file, including a letter application from David G. Wood, Gardnerville, Nevada, for Government assistance for exploration and development work at the Last Laugh Tungsten Mine, Douglas County, Nevada.

A copy of my acknowledgment of the application, dated December 8, and a copy of our review of the application with written Remarks is included with the material being sent you.

H. C. Miller
Regional Director, Region III

Attachment (file)

RECEIVED
DEC 13 1950
BUREAU OF MINES
OFFICE OF DIRECTOR

BUREAU OF MINES
WASHINGTON, D. C.

DEC 13 7 44 AM '50

Sent via jane 4-51 - by Miller
Request of Reed Mann

DMA-142

Gardnerville Nevada
Nov. 15, 1950

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
NOV 20 1950
SAN FRANCISCO, CALIFORNIA

Mr. A. C. Jhonson
U.S. Bureau of Mines
Box 1551
Reno, Nev.

Dear Mr. Johnson;

I am taking this means of making an application for a loan, for the exploration and development of the Last Laugh tungsten Mine. Under the Defence Production Act of 1950 (Public Law 774)

I am rendering this brief report for your consideration.

Location of Mine

This property is located in Sec. 23, T12E, R21E, M.D.M. Douglas County, State of Nevada.

There is two claims in the groupe, The Last Laugh and The Last Laugh No. 1.

The elevation of the mine is 6000 feet. A graded County road comes to with in one mile of the property, with an unimproved road to the mine, it is passable to truck traffic. The elevation and location of the property is such that it can be operated the year round.

Geology

The formation is Limestone and Monzonite. The ore occurres on the contact, also in zones of faulting and fractureing near the contact.

History

The deposit was discovered during the last war. And was worked by a crew of three men; over an active period of about three month. Or up to the time that the Metal Reserve Company terminiated the buying of crude ore.

The productaion during that period was 150 tons of ore mined from an open pit 25x20x4. The returns from the Metal Reserve Company was paid on the baises of ore that ran from 3 to 9% WO_3.

Useing the past production record of the property as a unit of measurement.

From the surface indications it could be expected that the ore body would a least be 100 feet in length, and assumning that it would extend to the 85 foot level of the proposed cross-cut tunnel. This bolck of ground should produce 2615 tons of ore. Useing the lowest figure of the past production of 3%. This 2615 tons should yield 7845 units of tungsten. With the present market price of $38.50 per unit, the gross production from the above mentioned block of ground should be $302,032.50.

The greatest depth attened on the property is 25 feet in the above mentioned pit.

Proposed Plan of Exploration and Development.

A cross-cut tunnel of 167 feet to the contact of the two formations. The face of this cross-cut would be 85 feet below the present surface workings. This 167 foot cross-cut, would expose or cut several surface zones of mineralization at a depth of about 50 feet.

A 200 foot drift should be run in a northerly direction and 100 feet southerly along the contact. This should prove the ore body or mineralization to this depth.

50 feet should be south from the above mentioned 167 foot cross-cut to explore a high grade surface showing at a depth of about 65 feet.

Considering the present cost of labor and material. The cost would be around $30.00 per foot, this should cover cost of labor, timber, powder, rails, air line an ect.

A total of 517 feet of drifting or tunnels, ---------- $15,510

A crew of from three to five men would be required for this project.

Material And Supplies.

I have a ten ton test plant, with power, to make the plant complete I would probable need another concentrating table, and a jig. This could be used equipment. Cost ----------500

Blacksmith shop, small mill building, and small building for a bunk house and cook shack. ---------- 5,000

Operation Reserve, extraction of ore and other unknown cost -5,000

Total Cost $26,010

Yours truly,

David G. Wood
Box 58
Sardinville Nev.

In 1944, the S & C Tungsten Mining Co. shipped ore and core containing 694 units of WO_3 to Metals Reserve. The material was reportedly mined from the Last Laugh claim

Sunnywater mining Co.
W F ~~Lawyer~~ ~~to~~ Lawyer

from Paul Bateman

15 [illegible] 694 [illegible] 9.6 [illegible] shipped to MRC
66
940
9.2

1-8-51

[illegible] to Field

If ~~product~~ mine produces, are there [illegible] facilities reading available?
[illegible] grants a loan for the purpose is it [illegible] and feasible ~~[illegible]~~ for a development [illegible] to follow one?
Rens office job.

LOAN APPLICATION

David G. Wood, Box 58, Gardnerville, Nevada

Last Laugh Tungsten Mine - Tungsten
Douglas County, Nevada

Letter November 15, 1950 - David G. Wood to A. C. Johnson - description of property and request for development and operating loan.

Letter November 17, 1950 - A. C. Johnson to H. C. Miller
Transmittal of letter November 15.

Remarks: Concise report. Estimated inferred reserves 2615 tons of 3 percent tungstic oxide content. Requested $41,520, $15,510 of which is for exploration and development, balance for operation. Would require field examination to substantiate estimate of ore reserves.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region III

NEVADA - CALIFORNIA

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
NOV 20 1950
SAN FRANCISCO, CALIFORNIA

P. O. Box 1551
Reno, Nevada

November 17, 1950

Refer to	Noted	Date
	HCM	11/22
III	SR	12/5
Answered		

Memorandum

To: Mr. H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Application - Defense Minerals Administration Act

Enclosed is application, under the Defense Minerals Administration Act, from Mr. David G. Wood, Box 58, Gardnerville, Nevada, for loan on the Last Laugh Tungsten Mine in Douglas County, Nevada.

A. C. Johnson

A. C. Johnson

Gardnerville Nevada
Nov. 15, 1950

C
O
P
Y

DMA-142

Mr. A. C. Johnson
U.S. Bureau of Mines
Box 1551
Reno, Nev.

Dear Mr. Johnson:

I am taking this means of making an application for a loan, for the exploration and development of the Last Laugh tungsten Mine Under the Defence Production Act of 1950 (Public Law 774).

I am rendering this brief report for your consideration.

Location of Mine:

This property is located in Sec. 23, T 12E, R21E, .M.D.M. Douglas County, State of Nevada.

There is two claims in the group, The Last Laugh and The Last Laugh No. 1.

The elevation of the mine is 6000 feet. A graded County road comes to within one mile of the property, with an unimproved road to the mine, it is passable to truck traffic. The elevation and location of the property is such that it can be operated the year round.

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Blacksmith shop, small mill building, and small building for a bunk house and cook shack. ---------- 5,000

Operation Reserve, extraction of ore and other unknown cost 5,000

Total Cost $26,010

Yours truly,

/s/ David G. Wood
Box 58
Gardnerville, Nev.

R. H. Ridgway

DEFENSE MINERALS ADMINISTRATION

Referral of Applications for Government Aid

Docket No. DMA - 142

Commodity: Tungsten

Name of Applicant: David G. Wood

Address of Applicant: Box 58
Gardnerville, Nev.

Name of Property: Last Laugh Tungsten Mine -

Location of Property: Douglas County, Nevada

Nature of Application: Loan of $41,520

Action Dates

Application: 11/15/50

Received: 12/13/50

Acknowledged:

Referred to FERROUS METALS Committee: 12/14/50

Shipped

DMA-1/2

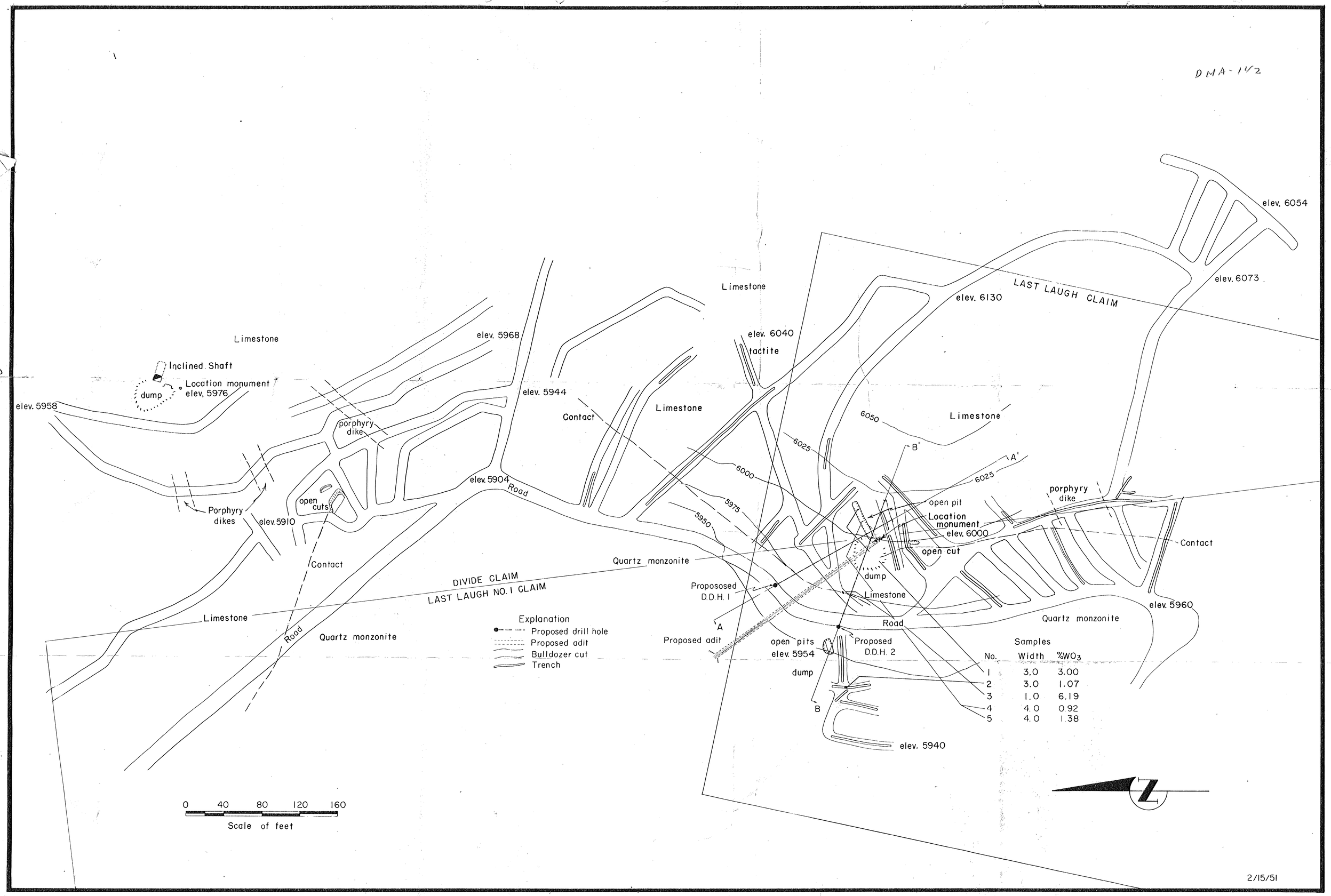
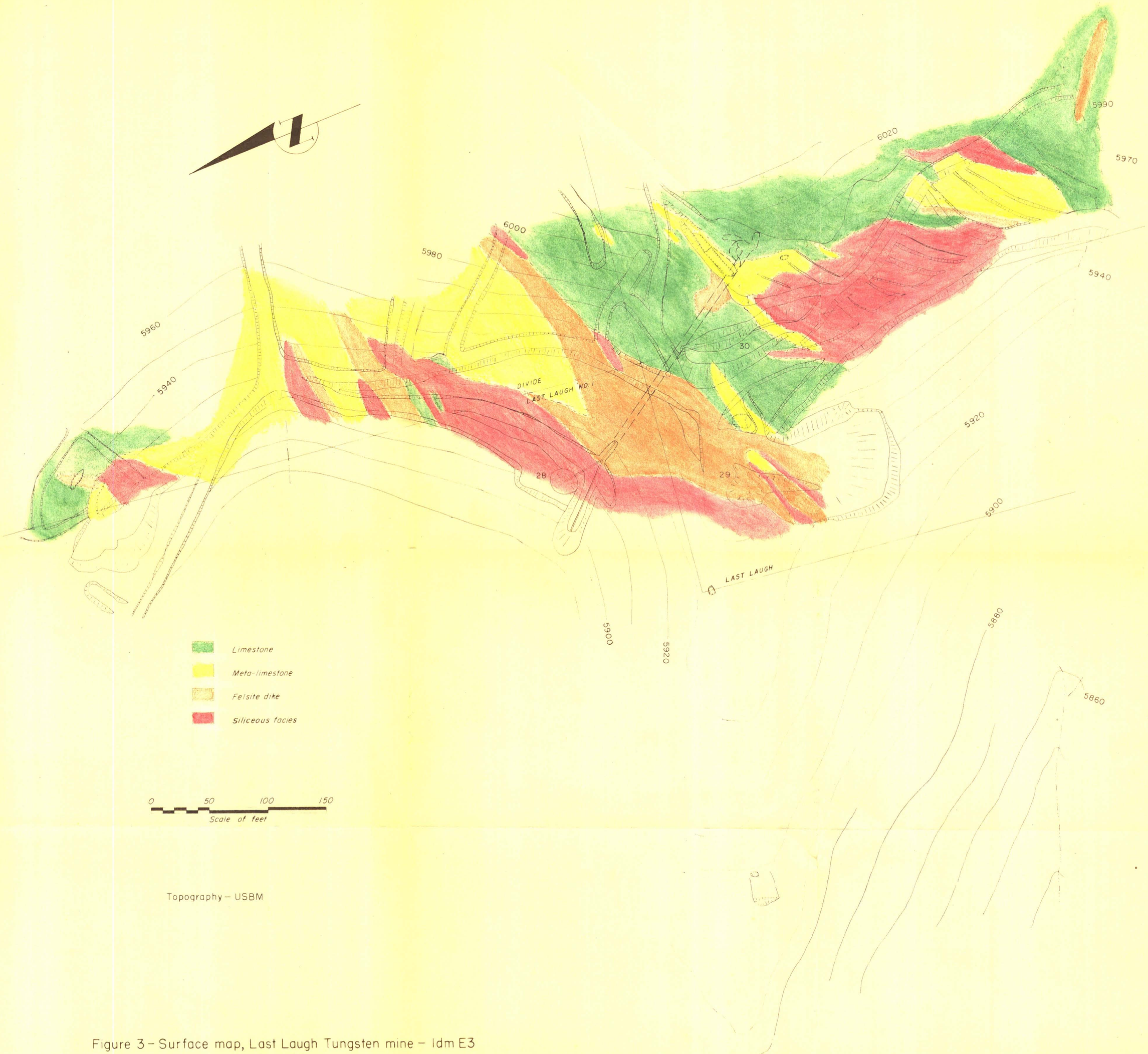


Figure 1 Plan map, Last Laugh and Divide tungsten claims, Douglas County, Nevada



Topography – USBM

Figure 3 – Surface map, Last Laugh Tungsten mine – Idm E3