DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

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JUN 14 1956

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Triumph Mining Company
Triumph, Idaho

pertaining to Exploration Project Contract No. Idm-E696, Docket No. DMEA 3394, dated August 9, 1954, including Amendments Nos. 1 and 2, for the period of August 9, 1954 to April 15, 1956, inclusive, covering a project for the exploration of lead and zinc on property known as the Triumph Mine, located in Blaine County, State of Idaho.

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

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

(a) All of the costs incurred were under a contract provision for payment by the Government on the basis of agreed unit costs of units of work actually performed.

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

Total Cost as billed by Contractor	$121,544.87
Exceptions (Schedule attached)	2,619.40
Total Accepted Cost	$118,925.47

The contract calls for a 50 percent participation of exploration expenses by the United States Government. Therefore, payment to the Contractor by the Government in the amount of Fifty nine thousand four hundred sixty two and 74/100 Dollars

--$59,462.74--

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

C. A. Turner, Auditor

June 11, 1956

Schedule of Exceptions

Triumph Mining Co. DMEA 3394 Idm-E696

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Unit Costs Claimed Forms MF-104					
Main crosscut	750'	@	$30.00	$22,500.00	
Timbering main crosscut					
Timbering	352'	@	6.50	2,288.00	
Rock bolts	290	ea.	3.84	1,113.60	
Two compartment raise	196'	@	52.28	10,246.88	
Sublevel drifting	1593'	@	34.47	54,910.71	
Timbering	994'	@	6.50	6,461.00	
Rock bolts	170	ea.	3.84	652.80	
Dip raise	640'	@	30.92	19,757.88	
Timbering dip raise	556'	@	6.50	3,614.00	
					$121,544.87
Accepted Costs					
Main crosscut	750'	@	30.00	$22,500.00	
Timbering main crosscut					
Timbering	352'	@	6.50	2,288.00	
Rock bolts	290	ea.	3.84	1,113.60	
Two compartment raise	196'	@	52.28	10,246.88	
Sublevel drifting	1593'	@	34.47	54,910.71	
Timbering	994'	@	6.50	6,461.00	
Rock bolts	170	ea.	3.84	652.80	
Dip raise	569'	@	30.92	17,593.48	
Timbering dip raise	486'	@	6.50	3,159.00	
					118,925.47
Disallowed by Review					
Dip raise	71'	@	30.48	2,164.40	
Timbering dip raise	70'	@	6.50	455.00	
Total Disallowance					2,619.40

Stage II of Exhibit "A" of the contract provides that the location, direction and extent of all work under the contract are subject to the approval of the Government. The Operator by letter dated April 3, 1956 requested approval to drive a raise 200 feet on the vein from the 540 level south drift starting at coordinate point N 11, 214 and E 9000. Government approval was denied by the Field Team's letter dated April 10, 1956. Therefore, 71' of Dip Raise @ $30.48 or $2,164.40 and Timbering 70' of Dip Raise @ $6.50 or $455.00, aggregating $2,619.40, were disallowed by this review.

C. A. Turner, Auditor

June 11, 1956

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Chambers
Selfridge

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TERMINATION AGREEMENT

It is agreed this 7th day of May, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Triumph Mining Company, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-2694 (Docket No. DMEA-1794), dated August 9, 1954, hereinafter called the "Contract," that:

1. Effective April 13, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the fixed unit costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account, and shall keep and preserve records as required by the Contract.

4. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By C D Mittendorf
Administrator, Defense Minerals
Exploration Administration

TRIUMPH MINING COMPANY

By D M Robinson
Title Gen. Manager

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AMENDMENT NO. 2

It is agreed this 30th day of April 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and

Triumph Mining Company

Docket No. DMEA-3394 (lead-zinc)

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 696 of August 9 1954 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be May 1 1955.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~IX~~ I NW District in Order No. ~~2684~~ 2808 by the ~~Acting~~ Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

TRIUMPH MINING COMPANY
(Operator)

By T M Robinson

THE UNITED STATES OF AMERICA

By A E Weissenborn
A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region ~~IX~~ I, NW Dist.

Exploration Project Contract
Triumph Mining Company
Docket No. DMEA-3394

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Amendment No. 2

Exhibit "F"

Changes and modifications:

1. In Exhibit "A" of the contract under Description of the Work, Stage II,

delete

1. A maximum of 1,900 feet of sublevel drifting shall be done from the top of the raise described under Stage I. Such sublevel drift shall have a minimum size of 5 feet by 7 feet in the clear of timber.

substitute

1. A maximum of 1,881 feet of sublevel drifting shall be done from the top of the raise described under Stage I. Such sublevel drift shall have a minimum size of 5 feet by 7 feet in the clear of timber.

add

3. Enlarge the drift on the 540 level at the 2-compartment raise a distance of 9 feet north of the raise and 10 feet south of the raise on the west side to provide working space at the raise. The enlargement shall be not less than 5 feet by 7 feet in the clear of the timber.

2. Under Agreed Unit Costs of the Project

delete

1,900 feet of sublevel drifting @ $34.47/ft.	$65,493.00
1,900 feet of timbering and/or rock bolting for sublevel drift @ $6.50/ft. 1/	12,350.00

substitute

1,881 feet of sublevel drifting @ $34.47/ft.	$64,838.07
1,881 feet of sublevel timbering and/or rock bolting @ $6.50/ft. 1/	12,226.50
19 feet of 5'x7' drift enlargement @ $34.47/ft.	654.93
19 feet of timbering and/or rock bolting of drift enlargement @ $6.50/ft. 1/	123.50

1/ Rock bolting shall be paid for at the rate of $3.84 per bolt placed but payment for rock bolting shall not exceed $6.50 per linear foot of crosscutting, sublevel drifting or dip raise that is rock bolted.

Exploration Project Contract
Triumph Mining Company
Docket No. DMEA-3394

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Justification of Amendment No. 2

It was necessary to enlarge the sublevel drift at the 540 level at the head of the 2-compartment raise to provide working space to unload electric trammers, mucking machines, mine cars and equipment hoisted from the main level through the raise. Unused sublevel drifting funds should be used for this enlargement. This work is for the mutual benefit of the Government and Operator and does not increase the amount of the contract.

John D. Bardill

Division copy

AMENDMENT NO. 1

It is agreed this 1st day of March 1959, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and

Triumph Mining Company, an Idaho Corporation

(Docket No. DMA 3354, lead-zinc)

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 696 of August 9 1954 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be August 9 1954.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~II~~ I, Northwest District, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

TRIUMPH MINING COMPANY
(Operator)

By J M Robinson

THE UNITED STATES OF AMERICA

By A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region ~~II~~ I
Northwest District

THRUPH MINING COMPANY
Exploration Project Contract Idm-E696
Docket No. DMEA 3394 (lead-zinc)

Amendment No. 1

Exhibit "F"

Changes and modifications

1. In Exhibit "A" of the contract under Description of the Work, add to the last paragraph

"or supported by rock bolts not less than 5 feet in length."

2. Under Agreed Unit Costs of the Project

delete	- 750 feet of timbering for crosscut @ $6.50/ft.	4,875.00
substitute	- 750 feet of timbering and/or rock beltings for crosscut @ $6.50/ft. 1/	4,875.00
delete	- 1,900 feet of timbering for sublevel drift @ $6.50/ft.	12,350.00
substitute	- 1,900 feet of timbering and/or rock belting for sublevel drift @ $6.50/ft. 1/	12,350.00
delete	- 600 feet of timbering for dip raise at $6.50/ft.	3,900.00
substitute	- 600 feet of timbering and/or rock beltings @ $6.50/ft. 1/	3,900.00
add	- Footnote 1/ Rock bolting shall be paid for at the rate of $3.84 per bolt placed but payment for rock bolting shall not exceed $6.50 per linear foot of crosscutting, sublevel drifting or dip raise that is rock bolted.	

TRIUMPH MINING COMPANY
Exploration Project Contract Idm-E696
Docket No. DMEA 3394 (lead-zinc)

Justification of Amendment No. 1

Although the Operator's experience is that rock bolting costs more per foot of heading than does timbering, he requests rockbolting in lieu of timbering since he can advance his exploration headings concurrently with rock bolting which he cannot do with timbering.

The Government will benefit if rock bolting is used by an increased rate of advance, and the amendment will not increase the unit costs allowed in the contract.

S. W. Zeldok

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 3394

COMMODITY Lead-Zinc

Division copy
IDM - E 696

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 9th day of August, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Triumph Mining Company, an Idaho Corporation, Triumph, Idaho

hereinafter called the "Operator," ~~xxxxx~~ as set forth in Annexes I and II, attached hereto and made a part hereof, and as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Idaho, County of Blaine, described ~~xxxxxx~~ As set forth in Annex I. The land is indicated by shading on the map attached hereto, and made a part hereof, entitled "Triumph Mining Co. Claim Map D.M.E.A. 3394."

the Operator represents and undertakes:[4]

(*a*) That the Operator is the 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 the Operator's interest is not subject to any royalty~~
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.

ARTICLE 3. *Exploration project.*—The Operator, within 60 days from the date of this contract shall commence work on a project of exploration for[5] Lead-Zinc

in or upon the described land; and shall bring the project to completion within a period of 2 years from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 50 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $71,677.00 which is 50 percent of $143,354.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

16—66329-1

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

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

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations. **See Annex II substituted for Article 6.**

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *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 worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* **That part of the second sentence in Article 7 beginning with the word "Provided" is deleted.**

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. O. Mitchendorf
Administrator, Defense Minerals Exploration Administration

TRIUMPH MINING COMPANY
(Operator)

By L. M. Robinson
L. M. Robinson

Witness: Ruth Hoffman
Witness: Clarence Chamberlin

I, Herbert Shear, certify that I am the Assistant secretary of the corporation named as Operator herein; that L. M. Robinson, General Manager, who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Herbert Shear
[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
TRIUMPH MINING COMPANY
DOCKET NO. DMEA-3394

ANNEX I

The land referred to in Article 2 of the contract and in Annex II covers all or parts of the following claims:

Patented Claims

Edham Pasha	Hamidal
Ben Harrison	Domski
Western	Mayleaf
Eula	Oro
Silver Bullion	Teller
Smolenski	Helen Fraction

Unpatented Claims

Fraction (recorded in Book No. 131, on page 380, in the office of the Recorder of Blaine County, Idaho)

Silver (recorded in Book No. 101, on page 400, in the office of the Recorder of Blaine County, Idaho)

The land is described by metes and bounds as follows:

See: SUPPLEMENT TO ANNEX I

SUPPLEMENT TO ANNEX I

The land is described by metes and bounds as follows:

Beginning at a point which is located within the Edhem Pasha Lode claim which point is located at Triumph coordinate 11255 North and 8245 East; thence, west 167.66 feet to a point on the west end line of the Edhem Pasha Lode claim which point is located at Triumph coordinates 11255.00 north and 8077.34 east; thence, N7°W 793.32 feet along the west end line of the Edhem Pasha Lode claim to the NW or #25 corner of the Edhem Pasha Lode claim which point is located at Triumph coordinates 12,042.39 north and 7,980.66 east; thence N45°W 382.8 feet along the SW side line of the Ben Harrison Lode claim to the NW or #16 corner of the Ben Harrison Lode claim which point is located at Triumph coordinates 12,256.50 North and 7,766.55 east; thence, N83°E 705.18 feet along the north end line of the Ben Harrison Lode claim to the west end line of the Eula Lode Claim which point is located at Triumph coordinates 12,342.44 north and 8,466.48 east; thence, N16°W 300.13 feet along the west end line of the Eula Lode claim to the NW or #2 corner of the Eula Lode claim which point is located at Triumph coordinates 12,630.96 north and 8,383.84 east; thence, N71°38'E 1500 feet along the north side line of the Eula Lode claim to the NE or #3 corner of the Eula Lode Claim which point is located at Triumph coordinates 13,103.61 north and 9,807.43 east; thence, S16°E 457.75 feet along the east end line of the Eula Lode claim to the north side line of the Silver Lode claim which point is located at Triumph coordinates 13,663.60 north and 9,933.60 east; thence, N62°1'E 819.8 feet along the north end line of the Silver Lode claim to the NE corner of the Silver Lode claim which point is located at Triumph coordinates 13,048.26 north and 10,657.55 east; thence, S26°28'E 336.61 feet along the east end line of the Silver Lode claim to the NE or #7 corner of the Smolenski Lode claim which point is located at Triumph coordinates 12,746.53 north 10,807.57 east; thence, S45°E 1165 feet along the east end lines of the Smolenski and the Haimdal Lode claims to the SE of #4 corner of the Haimdal Lode claim which point is located at Triumph coordinates 11,922.75 north and 11,631.35 east; thence, S75°W 288.2 feet along the south side line of the Haimdal Lode claim to the east end line of the Demski Lode claim which point is located at Triumph coordinates 11,848.16 north and 11,352.97 east; thence, S7°E 463.2 feet along the east end line of the Demski Lode claim to the SE or #2 corner of the Demski Lode claim which point is located at Triumph coordinates 11,389.62 north and 11,409.19 east; thence, S63°30'W 636.5 feet along the SE side line of the Demski Lode claim to the South or #3 corner of the Demski Lode claim which point is located at Triumph coordinates 11,109.35 north and 10,838.94 east; thence, S 7°E 281.45 feet along the east side line of the Mayleaf Lode claim to a point on said side line which is located at Triumph coordinates 10,828.00 north and 10,873.24 east; thence, east 1130.24 feet across the Mayleaf Lode claim and part of the Ore Lode claim to a point in the Ore Lode claim which is located at Triumph coordinates 10820 North and 9743 east; thence, N73°48'W 1551 feet across the Ore Lode claim, the Fraction Lode claim and the Edhem Pasha Lode claim to the point of beginning.

EXPLORATION PROJECT CONTRACT
TRIUMPH MINING COMPANY
DOCKET NO. DMEA-3394

ANNEX II

The following provisions are in lieu of Article 6 :

Repayment by Operator.--a. Certification.--If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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

c. Basis for computation.--The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f.o.b. point); except, that charges of the buyer arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight paid by the buyer to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the

Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the raw ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

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

e. Percentages of royalty.--The percentages of the Government's royalty shall be as follows:

> One and one-half ($1\frac{1}{2}$) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.
>
> (For instance: the royalty on an amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) percent; on an amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) percent.)

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

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

h. No obligation to produce.--Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

i. Government not obligated to buy.--Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

58694

EXPLORATION PROJECT CONTRACT
TRIUMPH MINING COMPANY
DOCKET NO. DMEA-3394

EXHIBIT "A"

Description of the Work

The work is partly delineated on the attached Claim Map referred to in Article 2 and consists of the following:

Stage I

1. Crosscut a maximum distance of 750 feet from the present face of the number 70-820 crosscut, which is located at coordinates 11255 north and 8245 east on the main haulage level of the Triumph mine. The crosscut shall be driven on a course approximately north 55° east. The crosscut shall have cross-sectional dimensions of not less than 5 feet by 7 feet in the clear of timber.

2. At a point about 700 feet from the start of the crosscut specified in the preceding paragraph, or at such other location as may be approved by the Government, drive a vertical raise a maximum distance of 300 feet. Such raise shall be not less than 5 feet by 8 feet in cross-sectional dimension in the clear of timber, and shall have two timbered compartments.

Stage II

Subject to the prior approval of the Government:

1. A maximum of 1,900 feet of sublevel drifting shall be done from the top of the raise described under Stage I. Such sublevel drift shall have a minimum size of 5 feet by 7 feet in the clear of timber.

2. From the sublevel drift specified in the preceding paragraph, a maximum of 600 feet of exploratory dip raising shall be done from locations approved by the Government. The dip raises shall have cross-sectional dimensions not less than 5 feet by 7 feet in the clear of timber.

The location, direction, and extent of all work under the contract are subject to the approval of the Government.

All workings under Stages I and II shall be timbered where necessary, with standard drift sets.

Agreed Unit Costs of the Project

750 feet of main level crosscut @ $30.00/ft.	$22,500.00	
750 feet of timbering for crosscut @ $6.50/ft.	4,875.00	
300 feet of two-compartment, vertical raise @ $52.28/ft.	15,684.00	
1,900 feet of sublevel drifting @ $34.47/ft.	65,493.00	
1,900 feet of timbering for sublevel drift @ $6.50/ft.	12,350.00	
600 feet of dip raise @ $30.92/ft.	18,552.00	
600 feet of timbering for dip raise at $6.50/ft.	3,900.00	
Estimated Total Cost of Project		$143,354.00
Government Participation at 50%		$71,677.00

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IN REPLY REFER TO:

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

November 22, 1957
Re: DMEA 3394 Idm-E696
Triumph Mining Co.
Triumph Mine
Blaine County, Idaho
Lead - Zinc

Memorandum

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

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

Subject: Review of Field Team Final Report

The contract, awarded August 9, 1954, approved the expenditure of $143,354 on a 2 stage search for new ore.

Most of the work was done in a blind, poorly-mineralized structure tentatively identified as the Triumph vein, well to the north of the highly-productive section of the mine. No ore was found.

The contract was terminated April 15, 1956, $118,925.47 having been spent. The Government's share is $59,462.73.

Certification is not recommended by the examiners and further assisted work in the project block is considered unwarranted, but they note that "the Triumph mine area includes many mineralized structures, quite complex in detail and not well understood, that are incompletely explored".

N. E. Nelson

N. E. Nelson

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

October 25, 1957

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Field Team Final Report

Dear Mr. Selfridge:

Enclosed are three copies of a Field Team final report on this contract by John D. Bardill, Metallurgist, Bureau of Mines, and Donald C. Alvord, Geologist, Geological Survey.

Work under the contract was started September 21, 1954, and continued until April 15, 1956, when the contract was terminated by mutual consent of the Operator and the Government. Completed work comprised 750 feet of crosscutting on the Triumph 700 level, 196 feet of 2-compartment vertical raising, 1,593 feet of sublevel drifting, and 569 feet of raising above the sublevel. The total cost of the completed work is $118,925.47, of which the Government's share is 50 percent, or $59,462.74.

No ore was discovered and the examiners conclude that the target area was adequately explored. They recommend that no discovery be certified and that further expenditure of Government funds to explore this area is not warranted.

We concur with these conclusions and recommendations.

By Field Team, Region I

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

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

Enclosures
cc: USBM(2)
USGS(SRO)
Alvord

Reviewed by
DMEA OPERATING COMMITTEE
11-13-57
(date)

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DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD TEAM, REGION I

FINAL REPORT

Contract Idm-E696

by

John D. Bardill
Metallurgist
U. S. Bureau of Mines

Donald C. Alvord
Geologist
U. S. Geological Survey

TRIUMPH MINING COMPANY
Triumph, Idaho

Docket No.:	DMEA-3394
Commodity:	Lead-Zinc
Contract date:	August 9, 1954
Termination date:	April 15, 1956

TRIUMPH MINE
Warm Springs Mining District
Blaine County, Idaho

Reviewed by
DMEA OPERATING COMMITTEE
11-13-57
(date)

Spokane, Washington

October 1957

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ILLUSTRATIONS
(In pocket)

Plate 1 - Claim Map of the Triumph Mine Area

Plate 2 - Geologic Map of the Triumph Mine Area

Plate 3 - Geologic Section (Section looking NW through 820 XC)

Plate 4 - Geologic Plan Triumph 700 Level

Plate 5 - Geologic Map (Triumph 540 Level "DMEA" Level)

Plate 6 - 540 Level Assay Plan

FINAL REPORT

TRIUMPH MINING COMPANY
Triumph Mine
Warm Springs Mining District
Blaine County, Idaho

Contract Idm-E696

* * * *

INTRODUCTION

This report describes a project conducted jointly by Triumph Mining Company and the Defense Minerals Exploration Administration to explore for lead and zinc in the Triumph mine, Blaine County, Idaho. ?

Summary

A 750-foot crosscut and 196-foot 2-compartment vertical raise were driven to the target area. A total of 1,593 feet of sublevel drifts and 569 feet of dip raises was driven from the 540 sublevel drift which was about 100 feet above the 700 level main haulage crosscut.

Total cost of the project was $118,925.47 in which the Government participation was 50 percent, or $59,462.74.

Although the sublevel drifts and dip raises were in the vein structure, the vein filling was almost barren of lead and zinc mineralization.

Recommendation

No certification of discovery is recommended, nor is Government participation in further exploration.

LOCATION AND ACCESSIBILITY

The Triumph mine claims are in secs. 14 and 23, T. 4 N., R. 18 E., about 7 miles northeast of Gimlet, the nearest railroad station. They may be reached by driving 7 miles north from Hailey on U. S. 93 to Gimlet, then turning right to Triumph on a macadam road.

The mine is located in sparsely timbered rolling country. Winters are moderately severe with considerable snowfall. Summers are pleasant.

PROPERTY

The property included in the contract consists of 12 patented lode mining claims and 2 unpatented lode claims (pl. 1) which are recorded at the courthouse at Hailey, Blaine County, Idaho, as follows:

Patented Claims

Edham Pasha	Hamidal
Ben Harrison	Danski
Western	Mayleaf
Eula	Oro
Silver Bullion	Teller
Smolenski	Helen Fraction

Unpatented Claims

Fraction	Book 131, Page 380
Silver	Book 101, Page 400

As stated in the contract, the Operator is the owner of the property.

The Triumph group consists of 65 patented and 93 unpatented claims. The mine was worked as early as 1884. It was reopened in 1927 and has been a steady producer since. The mine is developed by seven tunnels:

Tunnel No.	Approx. length (feet)
1	13,000
2	5,000
3	800
4	3,500
5	3,200
6	1,200
7	3,200

A vertical shaft is 700 feet deep and an inclined shaft is 400 feet long.

The mine is equipped to produce 300 tons of ore per day. The selective flotation plant has a capacity of 300 tons per day.

Production has probably been in excess of $30,000,000.

GEOLOGY

The geology of the Triumph area is discussed in the following reports:

Kiilsgaard, T. H., 1930, Geology and ore deposits of the Triumph-Parker mine mineral belt: Idaho Bureau of Mines and Geology Pamphlet 90.

Umpleby, J. B., and others, 1930, Geology and ore deposits of the Wood River region, Idaho: U. S. Geol. Survey Bull. 814.

Quinlan, J. J., 1955, Review of second application Triumph Mining Company: Unpublished memorandum report in Defense Minerals Exploration Administration files, Docket No. DMEA-3847 (Lead-Zinc).

Kiilsgaard, T. H., 1954, Review of application Triumph Mining Company: Unpublished memorandum report in Defense Minerals Exploration Administration files, Docket No. DMEA-3394.

Merriam, C. W., and Bozion, C. N., 1942, Detailed report on the Triumph mine, Blaine County, Idaho: Unpublished report of the U. S. Geol. Survey.

As these reports cover in some detail both the geology of the region and of the mine, only those features pertinent to an understanding of the contract are discussed here.

The Triumph workings are entirely in the Milligen formation of Mississippian age, which consists of interbedded argillites, marbles, and quartzites, locally cut by porphyritic dikes. Contacts between rock types are commonly gradational. The bedding in the mine area is generally homoclinal, striking northwest and dipping southwest. In detail, however, compressional stresses from the southwest have folded and faulted the beds. The more competent limestones and quartzites are fairly persistent in attitude, but the less competent argillites are generally intensely crumpled and sheared. Pre-mineral reverse dip-slip movement has resulted in a generally northwest-trending imbricate pattern of shear zones that dip moderately to the southwest, usually at angles less than the bedding of the host rocks. The ore deposits occur either as fissure fillings along the northwest-trending shear zones, especially in argillites, or as replacement bodies at the intersections of the mineralized shear zones with beds of marble. Several other sets of faults cut the rocks of the area and together with the folding, greatly complicate the structural picture; these features, with local exceptions, do not appear to have figured prominently in the emplacement of the ore bodies.

Nearly all production from the Trumph area has been from the North Star, Triumph, and Independence veins (pl. 2) and associated replacement bodies. Generally these veins are not simple, easily traced planar structures but are instead complex zones of varying width, usually contorted, ofttimes following bedding planes and at other times varying in strike and dip from the bedding. The relationship of these three veins to one another has not been determined in detail.

Stratigraphically the North Star is uppermost, the Triumph in the center, and the Independence lowermost. It is believed that the Triumph and North Star veins merge, at least locally (fig. 18, Killsgaard, 1930), but this is not firmly established. It is also possible that the Triumph and Independence veins merge as indicated in the application (cross section "A", applicant's report), but as Killsgaard (1934, p. 4) points out "* * * it is just as easy to believe in this section that the Triumph vein weaves upward to crop out * * *"; elsewhere, "* * * and that the Independence vein passes into the footwall beneath the Triumph [structure] * * *."

The Triumph vein is a complex zone, as much as 40 feet thick, with a number of narrower but productive veins branching from it. The vein is sinuous in both strike and dip and is offset by numerous faults. Ore occurs in part as shoots of fissure ore within

the vein and in part as replacement bodies in limy beds intersected by the vein. Merriam (1942, p. 26) reports one such replacement deposit, the "complex" body, as having a strike length of 700 feet, a dip length of 170 feet, and a thickness ranging from 6 to 50 feet. The ore from this body averaged 0.02 ounce gold and 6.5 ounces silver per ton, 5.90 percent lead, and 13.0 percent zinc.

Ore shoots in the vein rake from east to west and are best developed where the vein dips about 30°. In flatter areas the shoots pinch out or, even though mineralized, are below ore grade. In the flattened areas there may be a considerable amount of sheared and crushed lead-zinc minerals throughout the fissured area. From this it can be inferred that the flattened zones of the vein may be caused by the intersection of post-mineral flat faults with the Triumph fissure rather than by changes of dip.

The common ore minerals include galena and sphalerite with lesser amounts of tetrahedrite, polybasite, proustite, and other silver- and copper-bearing sulpho salts. Arsenopyrite, pyrite, and pyrrhotite are universally associated with the ore minerals in varying amounts. The gangue consists principally of quartz, carbonates, and argillitic wall rock.

THE PROJECT

The bulk of the ore mined in the Triumph area has come from the steeper sections of the North Star, Triumph, and Independence veins. As shown on a section through the 820 crosscut (pl. 3), there was sound reason to believe that the target area might be cut by the downward extension of the Independence vein, also, that the Independence might merge with the Triumph vein. Because of elevation differences between the Triumph 700 level and the Independence 6 level, because of the flattened dip of the Triumph structure southwest of the target area, and because of the flattened dip of the Independence structure below the 6 level, an interval of steeper dip would very likely occur in the target area. Other factors enhancing the favorability of the target area include: (1) the existence of a productive zone in the Independence mine above the area to be explored and one below on the Triumph; (2) the possibility of the Koeninger and other known veins extending into the area; and (3) the known presence of limestone beds in the area which, if intersected by the vein system, might contain replacement deposits.

The contract crosscut, vertical raise, drifting, and inclined raises were designed primarily to search out and to explore a portion of the Triumph or Independence vein or veins at a locality in which it was inferred the structures would be steep and therefore likely to contain ore (pl. 3).

The applicant proposed to extend a branch of the main 70-820 haulage crosscut 750 feet in a N. 55° E. direction or until a strong vein structure should be discovered. If a vein were encountered, it would be drifted on easterly and westerly, but if no vein were found a maximum of 300 feet of vertical raise would be driven from a point 700 feet from the beginning of the work. If no vein were found in the raise, the project would be abandoned, but if a vein were found, it would be drifted on 500 feet to the west and 1,400 feet to the east and a total of 2,000 feet of inclined raises would be driven. The application was modified, reducing the inclined raise footage to 600 feet.

The approved contract dated August 9, 1934, for $143,354, in which the Government participation was 50 percent, was set up in two stages on an agreed unit cost basis. Stage I provided for a maximum crosscut length of 750 feet at $30 per foot and $6.50 per foot for timbering where necessary and a timbered 2-compartment vertical raise having a maximum height of 300 feet at $52.28 per foot. Stage II provided for a maximum of 1,900 feet of sublevel drifting from the top of the Stage I vertical raise at $34.47 per foot and $6.50 per foot for timbering where necessary, and a maximum of 600 feet of exploratory dip raises at $30.92 per foot and $6.50 per foot for timbering.

Project work on the 70-820 crosscut bearing N. 55° E. was started September 21, 1934, at Survey Station 738+ plus 8 feet (pl. 4). The crosscut was completed to a distance of 755 feet of which 750 feet was charged to the project. Three hundred fifty-two feet of drift was timbered and 184 feet was rock bolted requiring 290 bolts.

Amendment No. 1, dated March 1, 1935, with an effective date of August 9, 1934, permitted rock bolting in lieu of timbering at the rate of $3.84 per bolt placed provided the cost did not exceed $6.50 per linear foot.

Because the 70-820 crosscut heading did not encounter ore -- penetrating only barren interbedded limestones and argillites cut by a few minor faults -- the vertical raise provided for in the contract was driven. The Operator, on its own account, drove a slusher drift, at cap height, 30 feet into the south wall of the 70-820 crosscut from a point 680 feet northeast of the starting point. The DMEA 70-880 2-compartment vertical raise was driven from the face of the drift to a height of 196 feet (206 feet above the 700 level track) where it was stopped in limestone, completing Stage I. Each compartment is 5 by 5 feet in the clear. The first 82 feet of the raise was in flat-lying argillites and limestones cut by a few small flat slips. At a height of about 17 feet a small quartz stringer which contained pyrite and a trace of sphalerite was cut.

An 18-foot wide zone of sheared and crushed rock was cut at a height of 82 feet. From bottom to top this shear zone is made up of 12 feet of sheared and crushed argillite and limestone, 2-3 feet of crushed andesite porphyry and 4 feet of crushed limestone. The crushed limestone is overlain by about 22 feet of massive andesite porphyry which, in turn, is overlain by bedded limestone to the end of the raise at 196 feet. Although no ore minerals were seen in the shear zone, it appeared that this structure was probably the one being sought. Accordingly, a station was silled in 92 feet above the 700 level sill and a level known as the DMEA 540 sublevel was started (pl. 5).

Amendment No. 2, dated April 30, 1936, having an effective date of May 1, 1935, reduced the sublevel drift footage from 1,900 to 1,881 and provided 19 feet of drift to enlarge the 540 level drift at the raise.

The DMEA 540 sublevel north was driven 873 feet and the sublevel south 701 feet. The 54-887 dip raise was driven 312 feet and the 54-894 a distance of 197 feet. Dog-hole raises No. 1 and 2 were 31 and 39 feet, respectively. (See plate 5 for location of the raises and sections through the raises.)

Along the 540 sublevel drift north the structure consisted of from 2 to 10 feet of crushed argillite and limestone with considerable calcite and occasionally some fragments of quartz. With the exception of a few specks of sphalerite, no ore minerals were exposed by this work. At north coordinate 11845 and east coordinate 8760 a dog-hole raise into the hanging wall was driven 31 feet. A long hole into the back of this raise cut andesite porphyry. No sulfide minerals were found in this raise. At north coordinate 12020 and east coordinate 8560 a dog-hole raise into the hanging wall was driven 29 feet. A long hole into the back of this raise also cut andesite porphyry. No ore minerals were cut in this raise.

The 540 sublevel drift south was first driven along the structure a distance of 193 feet. At north coordinate 11500 and east coordinate 8850 a wide crushed zone branched off into the hanging wall of this heading, but the footwall structure was followed to the 193-foot mark. The footwall structure narrowed down to a width of 1 inch, and this leg of the heading was stopped. The hanging-wall structure was then followed a distance of 308 feet to north coordinate 11130 and east coordinate 9125 where the heading was stopped. The hanging-wall structure consists of 2-8 feet of crushed argillite and limestone with considerable calcite and some quartz. The last 350 feet showed some traces of sphalerite, galena, and pyrite.

At north coordinate 11485 and east coordinate 8875 in the 540 drift south an up-dip raise was run. This raise followed the footwall of a structure up dip for a distance of 130 feet. The structure, entirely barren, consists of 2-3 feet of very tight gouge and crushed argillite and limestone. The first 30 feet was steep, but the last 100 feet was nearly flat. At the point where it flattened, a steeper hanging-wall gouge branched off into the back. At a point in this raise 100 feet up dip from the chute a vertical raise was driven a distance of 32 feet. This raise left the hanging-wall structure 26 feet up. At this point the hanging-wall structure consisted of 2-3 feet of crushed argillite and limestone with considerable calcite and some quartz. Where the hanging-wall structure branched off into the back, 30 feet up from the chute, the back was knocked down and this structure followed for a distance of 150 feet. This structure, completely barren, consists of 2-3 feet of very tight crushed argillite and limestone with some calcite. Andesite porphyry occurs in the back at the face.

At north coordinate 11,370 and east coordinate 8910 an up-dip raise was started from the 540 drift south. This raise followed the structure up dip a distance of 46 feet. The first 40 feet the structure consisted of 4-6 feet of crushed argillite and limestone containing a narrow seam of galena, sphalerite, and pyrite. At the upper end of the raise a small fault crossed the zone, and the structure narrowed to 4-5 inches. About 35 feet up dip from the chute, an intermediate was run in a southeast direction on the structure a distance of 151 feet. The structure in this intermediate consisted of 4-5 feet of crushed argillite and limestone containing a 4- to 5-inch wide zone of sparsely disseminated galena, sphalerite, and pyrite over the entire distance.

At north coordinate 11212 and east coordinate 9000 a raise was driven up dip on the structure a distance of 71 feet. The structure in this heading consisted of 2-4 feet of crushed argillite and limestone with an occasional trace of sphalerite.

A "steep" in the vein system was not discovered by the project work nor was rock of even near-ore grade encountered (pl. 6). The structure explored on the DMEA 540 sublevel apparently is the Triumph vein or a split therefrom. The Operator and the Field Team were satisfied that the target area had been adequately explored, and the contract was terminated April 15, 1956, before completion of the work.

A Certification of Discovery or Development is not recommended.

Summary of Factual Data

Following are costs of project work completed under the contract on an agreed unit cost basis:

Item	Total cost	Cost per foot	
Stage I			
Crosscutting, 750 feet	$22,500.00	$30.00	
Timbering crosscut, 352 feet	2,288.00	6.50	$34.53
Rock bolting crosscut, 290 bolts	1,113.60	3.84	
2-compartment vertical raise, 196 feet	10,246.88	52.28	
Total	$36,148.48		
Stage II			
Sublevel drifting, 1,593 feet	$54,910.71	$34.47	
Sublevel drift timbering, 994 feet	6,461.00	6.50	$38.94
Sublevel drift rock bolting, 170 bolts	652.80	3.84	
Dip raises, 569 feet	17,593.48	30.92	$36.47
Timbering dip raises, 486 feet	3,159.00	6.50	
Total	$82,776.99		
Total for Stages I and II	$118,925.47		

Total amount of contract	$143,354.00
Government's share at 50 percent	$ 71,677.00
Total amount expended	$118,925.47
Government's participation	$ 59,462.74
Total amount unexpended	$ 24,428.53
Government's share unexpended	$ 12,214.27

There was no production from the project work; hence, no royalties are due the Government.

The Government did not have any equity in the equipment used on the project.

Discussion of Conclusions

The Operator is highly competent and performed the work without delay and in a most satisfactory, minerlike manner.

Exploration Possibilities

The target area has been adequately explored, and there is no target within the block of ground included under the contract (pl. 1) warranting additional exploration with Government support. The Triumph mine area includes many mineralized structures, quite complex in detail and not well understood, that are incompletely explored. A discussion of other portions of the mine area that might warrant Government supported exploration, should an application be received, is not within the scope of this report. It suffices to list Dockets No. DMEA-4412 and DMEA-3847 in which two other portions of the area were approved for DMEA supported exploration, but the contracts were not signed by the applicant, and to refer the reader to Killingsard's discussions of still other targets of potential interest (1950, p. 50, and 1954, p. 2-3).

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So. 157 Howard Street
Spokane 4, Washington

August 9, 1957

DMEA-3394

Mr. W. S. Martin, Acting Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3303 (Uranium)
Contract No. Idm-4799 (Terminated)
George M. Hoffman
White Pine Mine
Jefferson county, Montana

Dear Mr. Martin:

This is in reply to your letter of August 2, 1957, asking when you may expect to receive the final Field Team report on the above-referenced project.

This report, recommending that no certification be made, is ready for final typing. With 16 examination reports in various stages of preparation most of which will be ready for typing during the next two or three weeks, it is doubtful that this final will be typed until late in September unless you wish it be given priority. The same situation applies to the final Field Team report on the Triumph Mining Company project, Docket DMEA-3394.

By Field Team, Region I

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

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

cc: USBM (2)
USBM (AD)
Pinckney

COPY

So. 157 Howard Street
Spokane 4, Washington

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Incorrect
Betty

March 21, 1957

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

Re: Final Field Team Reports for
DMEA Dockets
Docket Nos. DMEA-2341, DMEA-2612,
DMEA-2907 and DMEA-3394

Dear Mr. Selfridge:

This is in reply to your letter of December 12, 1956, which was inadvertently filed without first being answered.

Docket DMEA-2341 - Western States Corporation. Our final report is in the final stages of preparation and should be completed within a week. The Operator's monthly reports and our own examinations contain all the pertinent information and it is doubtful that the Operator's final report would be of any particular value and we, therefore, recommend that the requirement be waived.

Docket DMEA-2612 - Granore Company. Our final report is being typed and should be mailed within the next day or so.

Docket DMEA-2907 - Norman Boe and Kenneth Curtiss. Our final report was mailed January 23, 1957.

Docket DMEA-3394 - Triumph Mining Company. Our final report will be completed within the next three weeks.

All other final reports now due are in various stages of preparation.

By Field Team, Region I, NW Dist.

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

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

cc: USBM(2)

Signed

500

DEC 12 1956

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

Re: Final Field Team Reports for
DMEA Dockets
Docket Nos. DMEA-2341, DMEA-2612,
DMEA-2907 and DMEA-3394

Dear Mr. Weissenborn:

The following projects have been concluded or terminated for a considerable period of time and we have received no final Field Team reports covering project results. In certain instances, as noted below, the final Operator's report is also lacking.

It may be that in certain cases final Field Team reports have been delayed pending property settlements and final audits. However, we can see no reason for such delay; actually the final report from the Field Team is not considered as being an exact financial statement. We must depend upon our Contract Administration and Audit Division for our final and precise data on expenditures.

In cases where final precise figures are not available, it would be sufficient if it was so noted in your final report, with an additional notation that such unit and over-all costs which you might have quoted were subject to minor revisions, depending upon matters of final settlement.

DMEA-2341 - Western States Copper Corporation
(Final Operator's Report also due)
Termination November 18, 1955.

DMEA-2612 - Granore Company
Concluded October, 1955.

DMEA-2907 - Norman Bee and Kenneth Curtis
Concluded July, 1955.

DMEA-3394 - Triumph Mining Company
Termination May 7, 1956.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WRGriswold/er 12/10/56
Copy to: Docket (4)
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

Grunwald
Betty

XXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
July 5, 1956

RECEIVED
JUL 9 - 1956

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW
1201 N. Division Street
Spokane 2, Washington

Re: Contract Idm-E696
Docket No. DMEA 3394
Triumph Mining Company

Dear Mrs. Purdy:

The work completed under the contract was done to the satisfaction of the Government. The contract was terminated by mutual agreement dated May 7, 1956. A final report covering project work has been presented by the operator and accepted by the Executive Officer.

The Government has no interest in supplies or equipment purchased for use on the project.

Certification of this project will not be recommended by the Field Team.

A final Report of Review dated June 11, 1956 by DMEA Auditor C. A. Turner has been received.

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

Sincerely yours,

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

cc: DMEA (2) ✓
USGS (2)

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

RECEIVED
MAY 25 1956

May 21, 1956

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Contract No. DMA-339 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Ida-[illegible]

Dear Mr. Robinson:

Enclosed are the original and six copies of a termination agreement which is effective April 15, 1956. If it meets with your approval, please sign all copies, retain the one marked for the Operator, and return the rest to this office.

Your attention is called to item 3 of the termination agreement which calls for a final report and final account. Article 6(c) states, "Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof."

Until we have received your final report and your account has been audited, we will be unable to make final payment to you or close out the account. Therefore, it would be to your advantage to give us your final report as soon as possible.

By Field Team, Region 1, N. Dist.

King G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Verne C. Fryklund, Jr., Acting Member
U. S. Geological Survey

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

~~Original~~
Betty
~~Unapproved~~

RECEIVED
JUN - 1 1956

May 28, 1956

Approved WPY

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Selfridge:

Enclosed are the Government, Docket, and Division copies of Amendment No. 2 to the contract; also enclosed are the Government, Docket, and Division copies of the Termination Agreement.

By copy of this letter other copies of both the amendment and the agreement are being distributed.

Sincerely yours,

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

Enclosures

cc: Finance Office w/encls.
USGM (2)
Quinlan

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

Griswold
Betty

May 9, 1956

RECEIVED
MAY 14 1956

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Robinson:

Enclosed are the original and six copies of Amendment No. 2, which is self-explanatory. If this amendment meets with your approval would you please sign all copies and return all but the copy marked for the Operator.

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

Sincerely yours,

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

Enclosures

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

500

MAY 7 1956

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Weissenborn:

As recommended in your April 17 letter, we are enclosing the original and five copies of a Termination Agreement for the cited contract. If it meets with your approval, please present it to the Operator for signature and distribute the copies in the usual manner. Otherwise, and if any proposed changes should lie beyond the range of your delegated authority, all copies should be returned to us with your comments.

We regret that this project has been so barren of results. We believe that any future work program on this property, if warranted, should take the form of a broad diamond drilling program, based upon a comprehensive geological study. We outlined this in our letter of August 8, 1955.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

WRGriswold/er 5/4/56

APPROVED:

P. F. Yopes

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

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

May 4, 1956

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Termination Agreement, Docket No. DMEA-3394 (Lead-Zinc), Triumph Mine, Blaine County, Idaho, Contract No. Idm-E696

The cited contract provided for a total expenditure of $143,354.00, and covered the following work:

750 feet of crosscut
300 feet of 2 compartment vertical raise
1,900 feet of sublevel drifting
600 feet of dip raising

Work to April 14 had been about as follows:

750 feet of crosscut
198 feet of vertical 2 compartment raise
1,488 feet sublevel drifting
569 feet of dip raising

Expenditures have been about $114,700.00.

Results have been completely negative and both the Operator and the Field Team feel that the objectives of the exploration project have essentially been attained, and that further work is unwarranted. We concur in such opinion. Therefore, a mutual termination of the project is recommended.

W. R. Griswold

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron.

May 1, 1956

ciate Solicitor, Division of Mineral Resources

ef, Base Metals Division

Preparation of Mutual Termination Agreement for Docket No. DMEA-3394 (Lead-Zinc), Triumph Mining Company, Triumph Mine, Blaine County, Idaho, Contract No. Idm-2696.

Will you kindly prepare an agreement of mutual termination for the cited contract.

Generally speaking the objectives of the exploration project have been attained, with completely negative results. Therefore, it appears that it would neither be to the best interest of the Government nor the Operator to do further work. The termination should not include a "pseudo certification".

The last day of work was April 14, 1956.

W. R. Griswold

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 23 1956

April 17, 1956

Gwen
Betty

Mr. L. M. Robinson, Gen. Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-8696

Dear Mr. Robinson:

Thank you for your letter of April 13, 1956.

We agree that termination at this time is mutually desirable. We have recommended to our Washington office that the necessary termination agreement be prepared. The contract will be in effect until the termination agreement is signed. We will schedule a final measurement as soon as possible.

By Field Team, Region I, NW Dist.

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

Verne C. Fryklund, Jr., Member
U. S. Geological Survey

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 23 1956

Griswold
Betty

April 17, 1956

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-8696

Dear Mr. Selfridge:

Enclosed are two copies of a letter dated April 13, 1956, from L. M. Robinson, General Manager, Triumph Mining Company, requesting termination of the contract.

We have considered further work at the property with the Operator, particularly on extension of the present long raise. The Operator did not want to do this work -- a doubtful venture at best, we admit -- and we did not wish to drive any more short raises from the barren drift.

We believe the objectives of the exploration have been attained and we recommend that a mutual termination agreement be prepared. The last day of work was April 14, 1956.

By Field Team, Region I, NW Dist.

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

Verne C. Fryklund, Jr., Member
U. S. Geological Survey

Enclosure 1 (in dup.)

cc: DEMM (2)
DEMM (AD)
Quinlan

(6)

RECEIVED
APR 23 1956

J. W. SWENT
PRESIDENT
EDWARD H. SNYDER
VICE PRESIDENT

TRIUMPH MINING COMPANY

TRIUMPH, IDAHO

L. M. ROBINSON
GENERAL MANAGER
HERBERT SHEAR
ASSISTANT SECRETARY
AND COMPTROLLER

April 13, 1956

Mr. A. E. Weissenborn, Exe. Officer
D. M. E. A.
Field Team, Region 1, N.W. District
So. 157 Howard Street
Spokane, 4, Washington

Re: Docket No. DMEA 3394 (Lead-Zinc)
Triumph Mining Company
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Weissenborn:

Your engineer Mr. Bardill called at the Triumph Mine to discuss the contents of our letter of April 3, to your office.

After considerable discussion, and an underground inspection of work that has been done to date, by Mr. Bardill, the idea of discontinuing the work and terminating the contract was mentioned.

Mr. Bardill later advised that he had communicated with you and that he had been authorized by you to terminate the development contract if that was agreeable with the Triumph Mining Company.

We feel that the purpose of the project has been accomplished and that any further effort would result in a useless expenditure of funds.

We therefor propose to suspend all work on this project April 14.

Will you please confirm the above at your earliest convenience.

Yours very truly,

TRIUMPH MINING COMPANY

By L. M. Robinson
L. M. Robinson, Gen. Manager

RECEIVED
APR 16 1956
U.S.M.S.
SPOKANE, WASH.

LMR:mw

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 16 1956

April 10, 1956

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Exploration Project Contr. No. Idm-E696

Dear Mr. Robinson:

We have carefully considered your request of April 3, 1956, to drive a raise 200 feet on the vein from the 540 level south drift starting at coordinate point N 11,214 and E 9,000.

We find little justification for approving the use of contract funds for such a raise. The 54-894 raise and intermediate south from this raise appear to adequately test the meager sphalerite and galena showings in the area. As a matter of fact the lower one-third to one-half of the proposed raise would essentially test the same area as the intermediate south from the 54-894 raise as it would pass within 30 to 35 feet of the intermediate about 60 feet from the level.

We understand that one of the recognized ore control factors in the mine is that ore occurs in the steeper portions of the vein and on this theorem it might be worth-while to drive a raise that would test the vein, say 400 to 600 feet above the level, to see if the vein steepens. It appears that this could best be done by extending the 84-887 raise and we would be glad to recommend an amendment to permit this as an alternative to your proposal. Mr. Quinlan has, we understand, already tentatively discussed this matter with Mr. Livingston of your staff and reports that you do not wish to undertake the raise at this time.

It is stated in your letter that you plan to extend the 540 level south drift another 250 feet. If no marked improvement is noted in the vein within this distance and you do not wish to consider

driving a long raise to test the vein above the level, it would appear that it would be to the best interest of both parties to terminate the contract on the completion of the 250 feet of proposed drifting.

By Field Team, Region I, NW Dist.

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

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

cc: DMEA (2) w/cys incoming
USBM (2)
USBM (AD)
Quinlan

J. W. SWENT
PRESIDENT
EDWARD H. SNYDER
VICE PRESIDENT

TRIUMPH MINING COMPANY

TRIUMPH, IDAHO

L. M. ROBINSON
GENERAL MANAGER
HERBERT SHEAR
ASSISTANT SECRETARY
AND COMPTROLLER

April 3, 1956

RECEIVED
APR 16 1956

Defense Minerals Exploration Administration
Region II
South 157 Howard Street
Spokane, Washington

Re: Docket No. DMEA-3394(Lead-Zinc)
Triumph Mine
Blaine County, Idaho

Gentlemen:

As of April 1st. the following amount of work is left to complete this project:

412 feet of sub-level drifting
104 feet of of 2-compartment vertical raise
31 feet of up dip raise
Total money left - $28,725.06

The 540 North Drift is within 50 feet of the end line of the block of ground to which this project is confined and has been stopped. This heading although on a structure has shown no promise what-so-ever.

The 540 South Drift is following a structure in which some mineral has been found. It is felt that some work up dip on this mineralized section of the structure should definitely be done.

We would like very much to trade some drift footage for some up dip raise footage. We propose to put up a 200 foot up dip raise from the 540 South Drift at north coordinate 11214 and east coordinate 6000 and to limit our drifting to 250 feet after April 1st.

We would appreciate your immediate consideration of this proposal and your decision as soon as possible.

Yours very truly,

L. M. Robinson, Gen. Manager

RECEIVED
APR 1956

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

RECEIVED
FEB - 3 1956

January 31, 1955

Forwarded
Betty

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Selfridge:

I am enclosing copies of a letter from L. M. Robinson, General Manager of the Triumph Mining Company in reply to my letter of January 20, copies of which have already been sent to you. Mr. Robinson's letter tends to confirm my belief that his refusal to sign the contract was due to something other than the fact the proposed work had been made an extension of the original contract but, if this is so, I cannot tell just what the real reason is for the refusal.

Sincerely,

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

Enclosures

cc: USBM (2)
USBM (AD)
Quinlan

(5)

J. W. SWENT
PRESIDENT
EDWARD H. SNYDER
VICE PRESIDENT

TRIUMPH MINING COMPANY

TRIUMPH, IDAHO

L. M. ROBINSON
GENERAL MANAGER
HERBERT SHEAR
ASSISTANT SECRETARY
AND CONTROLLER

January 24, 1956

RECEIVED
FEB - 3 1956

Mr. A. E. Weissenborn, Executive Officer
D. M. E. A.
Field Team, Region 1, N.W. District
So. 157 Howard Street
Spokane, 4, Washington

Re: Docket No. DMEA-3394(Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E 696

Dear Mr. Weissenborn:

Our refusal of the Amended Contract was based on our ability to carry out the diamond drilling phase on our own, and avoid the complications which seemed to be developing. We expect to obtain the information sought with the diamond drilling project from work which will eventually be done in the course of regular operations.

We wish to thank you and members of your Field Team for their assistance in developing this project.

Referring to the last paragraph of your letter of January 20, may we state that it is our intention to complete the existing contract.

Yours very truly,

TRIUMPH MINING COMPANY

By _____
L. M. Robinson, Gen. Mgr.

LMR:mw

RECEIVED
JAN 26 1956
U. S. G. S.
SPOKANE WASH.

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

JAN 20 1956

Mr. L. M. Robinson
General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. [illegible]-339A (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-[illegible]

Dear Mr. Robinson:

The Field Team has forwarded your letter of January 5 to us, together with five unsigned copies of the proposed amended contract with your company.

We note your objection to the amendment as drafted and that you prefer to drop the application if further assistance cannot be given independent of your present exploration contract with the Government. It is our standard practice to incorporate additional or supplemental work as part of the original program under an exploration contract. It does not appear to be in the best interest of the Government to depart from this practice in your case. Under the circumstances, therefore, we will consider your application for additional work at the Triumph Mine as having been withdrawn.

If you have not already returned the unsigned "Operator's" copy of the prepared amendment, please forward it at your earliest convenience.

Sincerely yours,

[redacted]d/FEJohnson/bih
1/20/56

H. O. Mittenderf

Administrator

cc to: Docket
Admr. Reading File
Operating Committee
Mr. Bishop
Mr. Kiilsgaard
Mr. Griswold
Mr. Johnson
Reg. I (NW Dist.) (2)

JAN 20 1956

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-8696

Dear Mr. Robinson:

The Field Team has forwarded your letter of January 5 to us, together with five unsigned copies of the proposed amended contract for your company.

We regret that you do not care to sign it, but it is our standard practice that, in such instances, the original work program and subsequent supplemental work must be so incorporated. We must therefore consider that your application for the diamond drilling work has been withdrawn.

Please return the unsigned "Operator's Copy" of the amended contract, if you have not already done so.

Sincerely yours,

Administrator

WRGriswold/bjl (1/19/56)

Copy to: Docket
Admr. R. File
Op. Committee
Bunce Metals
Mr. Bishop
Mr. Kiilsgaard
Reg. I (NW Dist) (2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JAN 23 1956

Gwendolyn
Betty

January 19, 1956

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Selfridge:

Reference is made to the Field Team letter of January 11 returning unsigned copies of Amended Contract Idm-E696.

Enclosed is the Operator's copy just received from Mr. Robinson.

Sincerely yours,

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

Enclosure

cc: USBM (2)
USBM (AD)
Quinlan

CC unsigned Amended Contract sent to mails & files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JAN 23 1956

January 20, 1956

Mr. L. N. Robinson
General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Robinson:

I wish to thank you for returning the Operator's copy of the Amended Contract. I regret that you did not find the terms of the amended Contract satisfactory, for the diamond drilling stipulated in the amended contract seems to be well-conceived exploration that might have yielded important results. We would, however, much prefer to have you refuse a contract than enter into one which is unsatisfactory to you.

In negotiating a contract it is sometimes possible to review the conditions to which an operator objects and arrive at a mutually satisfactory agreement. However, the only condition to which you have stated you object is that the new work is made a part of the current project. Evidently we failed to inform you that this would be the case. It has long been the policy of DMEA to make additional work on the same property a part of the original project rather than considering it as a new and independent contract. It is quite reasonable that this should be done and the policy is so firmly established that it would be useless to request DMEA to make an exception in your case, although if your objections concerned other conditions of the contract these could be reviewed and possibly rectified.

Your refusal to sign the amended contract in no way affects the existing contract and we presume that it is your intention to carry it forward to completion.

Sincerely yours,

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

cc: DMEA (2), USBM (2), Quinlan

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

RECEIVED
JAN 16 1956

January 11, 1956

Grunwald
Betty

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Selfridge:

Enclosed are copies of a letter dated Jan. 5, 1956, from Mr. L. M. Robinson, General Manager, Triumph Mining Company, declining the proposed Amended Contract. Also enclosed are only five copies of the proposed contract, as Mr. Robinson kept the Operator's Copy. We have written asking him to return it to us.

By Field Team, Region I, NW Dist.

Verne C. Fryklund, Jr.
Acting Executive Officer
U. S. Geological Survey

Stephen W. Zoldok
Acting Member
U. S. Bureau of Mines

Enclosures

cc: USGS (2)
USBM (AD)
Quinlan

J. W. SWENT
PRESIDENT
EDWARD H. SNYDER
VICE PRESIDENT

TRIUMPH MINING COMPANY

TRIUMPH, IDAHO

L. M. ROBINSON
GENERAL MANAGER
HERBERT SHEAR
ASSISTANT SECRETARY
AND COMPTROLLER

January 5, 1956

RECEIVED
BUREAU OF MINES
JAN 9 1956
SPOKANE

Mr. King G. Agnew, Member
Field Team, Region I, N.M. District
U. S. Bureau of Mines
So. 157 Howard Street
Spokane, 4, Washington

Re: Docket No. D.M.E.A.-3394(Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E 696

Dear Mr. Agnew:

We have for acknowledgement your letter of December 29, 1955 referring to the above subject.

Referring to your second paragraph we regret to inform you that we do not approve of the Amended Contract No. Idm-E 696. If this project cannot be negotiated on a basis independent of the current project, we would prefer to drop the application entirely.

We are therefor retaining the "Operator's Copy of the Amended Contract" for reference and returning the other copies to you.

Yours very truly,

TRIUMPH MINING COMPANY

By L. M. Robinson
L. M. Robinson, Gen. Mgr.

LMR:mw

Encls.

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

RECEIVED
JAN 16 1956

So. 157 Howard Street
Spokane 4, Washington

January 11, 1956

Mr. L. M. Robinson
General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Robinson:

We have forwarded your letter of January 5, 1956, to our Washington office.

All copies of the proposed Amended Contract must be returned to Washington. Will you please return the Operator's copy that you retained, at your earliest convenience.

By Field Team, Region I, NW Dist.

Verne C. Fryklund, Jr.
Acting Executive Officer
U. S. Geological Survey

Stephen W. Zoldok
Acting Member
U. S. Bureau of Mines

cc: DMEA (2)
USBM (2)
Quinlan

Division copy

MF-200A
(Revised June 1954)

Docket No. DMEA 3394

Commodity Lead-zinc

Contract No. Idm-E Idm-E696

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
AMENDED EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this DEC 23 1955 day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Triumph Mining Company, an Idaho corporation, whose mailing address is Triumph, Idaho, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, ~~and~~ Annex II, and a map

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

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Idaho, County of Blaine, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] See Annex I of [5] ..... in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] ....., [7] ....recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: none

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Consent to Lien of Idaho State Land Commissioner

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of lead and zinc. The work to be performed is described in Exhibit "A." The Operator on or before 60 days from date of the amended contract shall commence the work, and on or before August 9, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work, except as otherwise provided in "Exhibit A" with respect to stages of work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

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

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $161,240.00. The Government will contribute 50 percent of the fixed unit costs as work is performed, in a total sum not in excess of $80,620.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

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

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

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

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. **See Article 11.**

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

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

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

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

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

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

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

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

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

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

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

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

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

A. "date of the contract" means:

(1) "August 9, 1954," in Article 7(b)(1); and

(2) "date of the Amended Contract," in Article 7(b)(2)

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

TRIUMPH MINING COMPANY
(Operator)

By C. Mitchell Dorr
Administrator, Defense Minerals
Exploration Administration

Martin Dwyer
"Appd. Sol. Off."
Greenwald
Fisher
Chambers

By .....

.....

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

.....

Selfridge

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

AMENDED

EXPLORATION PROJECT CONTRACT
Triumph Mining Company
Docket No. [illegible]A-3394

ANNEX I

The land referred to in Article 2 of the contract includes all or parts of the land set forth below as outlined in red on the attached map entitled "Triumph Mine, Blaine County, Idaho .... Plate 1." The respective coordinates of all corners of the outlined land are shown with reference to the coordinate system of the Triumph Mine.

1. Patented Claims owned by the Operator

Edham Pasha	Domski
Ben Harrison	Mayleaf
Western	Oro
Kula	Teller
Silver Bullion	Helen Fraction
Smolenski	Union
Haimdal	

2. Unpatented Claims owned by the Operator

Location Notices of all unpatented claims are recorded in the Office of the Recorder of Blaine County, Idaho, as follows:

Name	Book	Page Number
Fraction	131	380
Silver	101	400
Triumph No. 1	1	169 (amended location)
Triumph No. 6	1	174 (amended location)
Triumph No. 8	1	176 (amended location)
Tram No. 1	1	166 (amended location)
Tram No. 2	1	167 (amended location)
Andy No. 13	156	351
Blanche	131	245
Beatrice	131	243
Cecil	1	163 (amended location)
Dora	131	242
Fern	1	162 (amended location)
Jennie	1	164 (amended location)
Jessie	1	165 (amended location)
Triumph No. 9	131	369 (amended location)
Triumph No. 14	141	340

3. Land held under lease from the State of Idaho (State Mineral Lease No. 898, dated January 17, 1950): N½ of the N½ of Sec. 27, T. 4 N., R. 18 E., B. M. Idaho.

Exception

Excluded from all of the above described land are: (1) any surface dumps as existing on August 9, 1954; and (2) any ore within the structure known as the main Triumph vein and any attendant replacement ore bodies thereof which were known to exist on August 9, 1954.

AMENDED

EXPLORATION PROJECT CONTRACT
Triumph Mining Company
Docket No. RMRA-3394

ANNEX II

WHEREAS:

The parties to this Amended Contract are parties to a contract dated August 9, 1954, executed on Form RF-200A (Revised February 1952), having the same contract and docket numbers as this Amended Contract and hereinafter called the "Prior Contract."

The parties desire to add work and land to the project described in the Prior Contract, to increase the estimated total cost of said project, and to restate their entire agreement in this Amended Contract.

NOW, THEREFORE, it is agreed that:

1. Effective August 9, 1954, the Prior Contract is superseded by this Amended Contract which shall govern all rights and obligations of the parties, except that any incompleted work under the Prior Contract shall be completed under said contract, and vouchers for work performed under the Prior Contract shall be submitted pursuant to and paid under said contract.

2. All work performed and the total costs incurred under the Prior Contract are hereby incorporated into this Amended Contract; and the total net amount contributed by the Government under the Prior Contract is repayable under the royalty provisions of this Amended Contract.

3. The Operator hereby releases and agrees to save the Government harmless from all claims and demands under or arising out of the Prior Contract, except as otherwise provided in this Annex II.

EXPLORATION PROJECT CONTRACT
TRIBUTE MINING COMPANY
DOCKET NO. DMRA-3394
AMENDED CONTRACT NO. 14m-2696

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore for lead and zinc ores. The work consists of the crosscutting, raising, and sublevel drifting outlined under Stages I and II of the Prior Contract, and the additional work set forth under Stages III and IV below. The Operator shall complete Stages I and II under the Prior Contract, and shall complete Stage III and as much of Stage IV as approved in advance by the Government.

Stage III

Prepare 4 drill stations, each 5 feet by 7 feet in cross section in the clear and 10 feet in length. Diamond drill 4 holes, not exceeding an aggregate of 550 feet of BX size hole, and 500 feet of AX size hole. The approximate locations and approximate relative lengths of the holes are shown on the attached map.

Stage IV

Prepare 4 drill stations, 5 feet by 7 feet in cross section in the clear and 10 feet in length. Diamond drill 550 feet of BX size hole, and 500 feet of AX size hole.

* * * * * * *

The location, direction, inclination, and extent of diamond drilling under Stages III and IV shall be subject to Government approval. Drill stations shall be timbered as necessary.

Not to exceed nine samples shall be assayed for lead and zinc under each stage.

Estimated Costs of the Project

Estimated Total Cost of Work under the Prior Contract (subject to audit)	$143,354.00

Fixed Unit Costs of Added Work

Stage III

4 diamond drill stations @ $350.00 each 1/	$1,400.00	
550 ft. BX diamond drilling @ $5.50 per ft.	3,025.00	
900 ft. AX diamond drilling @ $5.00 per ft.	4,500.00	
9 assays @ $2.00 per sample	18.00	$ 8,943.00

Stage IV

4 diamond drill stations @ $350.00 1/	$1,400.00	
550 ft. BX diamond drilling @ $5.50 per ft.	3,025.00	
900 ft. AX diamond drilling @ $5.00 per ft.	4,500.00	
9 assays @ $2.00 per sample	18.00	8,943.00
Estimated Total Cost of Stages III and IV		$17,886.00

S U M M A R Y

Estimated Total Cost of Work under the Prior Contract (subject to audit)	$143,354.00	
Government Participation @ 50%		$ 71,677.00
Estimated Total Cost of Stages III and IV	$ 17,886.00	
Government Participation @ 50%		8,943.00
Estimated Total Cost of Project	$161,240.00	
Government Participation @ 50%		$ 80,620.00

1/ The completed work constitutes the unit.

MF-203
Revised March 24, 1955

RECEIVED
OCT 24 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Blaine, State of Idaho, described as follows:1/

N 1/2 N 1/2 Section 27, T.4N, R 18 E, B.M. Idaho

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest ~~in the land and~~ upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

To pay to the lessor as royalty the attached percentage of the smelter returns upon all ores, minerals or precious metals recovered and shipped from said property during the term of this lease. (For Value see Item No. 5)

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

no exception

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

(Cont'd from Item 2)

NET SMELTER VALUE PER TON	% ROYALTY
$ 0.00 to $16.00	2.5
$16.01 to $20.00	3.0
$20.01 to $25.00	4.0
$25.01 to $30.00	5.0
$30.01 to $35.00	6.0
$35.01 to $40.00	8.0
$40.01 to $50.00	10.0
$50.01 and up	12.5

Dated this 16th day of August, 1955.

Arthur Wilson [Seal]

State Land Commissioner [Seal]

_____ [Seal]

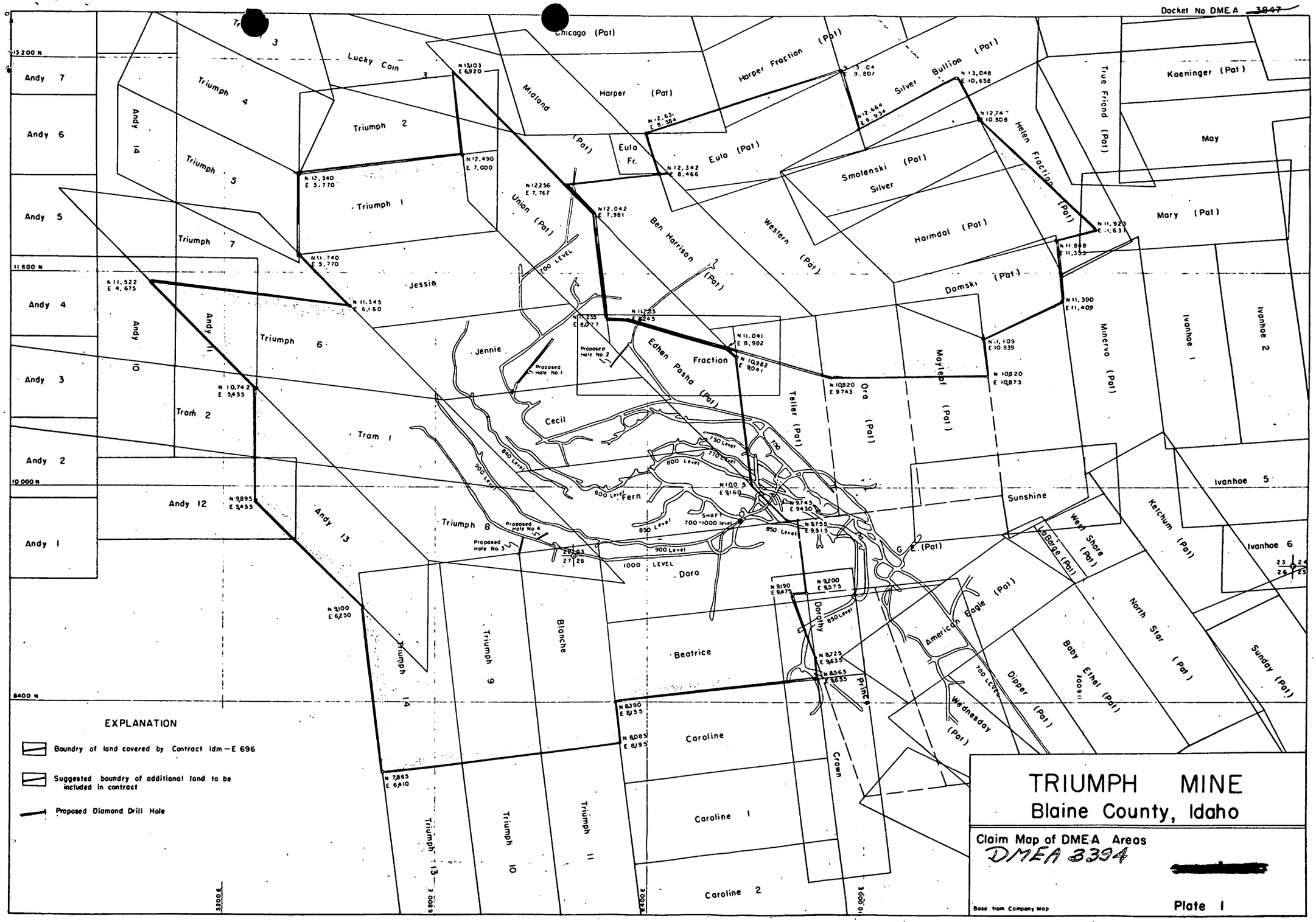
I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

RECEIVED
AUG 22 1955
U. S. G. S.
SPOKANE, WASH.

Docket No DME A ~~3847~~



TRIUMPH MINE
Blaine County, Idaho

Claim Map of DME A Areas

DMEA 3394

[redacted]

Base from Company Map

Plate I

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

RECEIVED JAN 3 1956

December 29, 1955

Gwendolyn
Betty

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Contract No. Idm-8696

Dear Mr. Robinson:

Enclosed are the original and five copies of proposed Amended Contract Idm-8696 for additional work at the Triumph mine.

If it meets with your approval please sign all copies, retain the one designated as the "Operator's copy", and return the others to this office. In the event that any part of it does not meet with your approval, please return all copies to us along with your comments for our consideration.

It seems that it will be necessary to require an additional Consent to Lien, signed by the Governor, the President of the State Board of Land Commissioners, and the Secretary of State because the lease agreement giving the Triumph Mining Co. mining rights to a part of the ground included in the Amended Contract was signed in the State's behalf by those individuals, including the State Land Commissioner. Our Washington office says, "Without making a legal examination of the authority of the Idaho State Land Commissioner to sign the Consent to Lien, we have our doubts as to the validity of the form of signature on it, in view of the fact that the lease executed in behalf of the State was signed by the Governor, the President of the State Board of Land Commissioners, the Secretary of State, and the State Land Commissioner. However, we have not made a full investigation of the matter because of the modifications made on the form by the State Land Commissioner."

Enclosed are seven copies of Consent to Lien form for signatures of officials of the State of Idaho. When signed, one copy should be attached to the copy of the Amended Contract retained by you (assuming, that is, the Amended Contract is acceptable to you), and five copies returned to this office.

By Field Team, Region I, NW District

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

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

Enclosures as indicated
cc: DMEA (2), USBM (2), USGS (AD), Quinlan

DEC 23 1955

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. IDM-3696

Dear Mr. Weissenborn:

As recommended in your letter of October 21, we are enclosing the original and five copies of an amended contract for the cited project. We are also enclosing two extra copies of Exhibit "A" and the map for the use of the Field Team.

If the amended contract meets with your approval, kindly present it to the Operator for signature and, when completed, distribute the copies in the usual manner. In the event that you do not approve, and any proposed changes should lie beyond the range of your delegated authority, all copies should be returned to us with your comments.

We call your attention to the enclosed copies of a memorandum dated December 15, by the Associate Solicitor, Division of Mineral Resources. You will note the various points which he brings up. However, since the State-owned land in question forms only a small part of the total land area under the contract, we doubt that the matter is of sufficient importance to delay presenting the contract for signature.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Gechoff

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WRGriswold/bjl (12/20/55)
Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Kiilsgaard
Chron.

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

DEC 15 1955

Memorandum

To: Administrator, DMEA
Attention: Chief, Base Metals Division

From: Associate Solicitor, Division of Mineral Resources

Subject: Docket No. DMEA-339A (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

As requested in Mr. Grinnell's memorandum dated December 5, 1955, we have prepared the attached Amended Contract.

Without making a legal examination of the authority of the Idaho State Land Commissioner to sign the Consent to Lien, we have our doubts as to the validity of the form of signature on it, in view of the fact that the lease executed in behalf of the State was signed by the Governor, the President of the State Board of Land Commissioners, the Secretary of State, and the State Land Commissioner. However, we have not made a full investigation of the matter because of the modifications made on the form by the State Land Commissioner. The grant of a lien upon the land has been deleted from the form, and it is not clear whether the remaining grant of a lien upon production is or is not subject to the State's right to a royalty, which ranges from 2½ to 12½ percent per ton, depending upon the smelter returns.

As the Operator owns all the land, except the State land, and the lien upon the owned land is subject to all royalty due the Government, you may consider that a new Consent to Lien from the State is unnecessary.

We have attached the State's Consent to Lien to the Amended Contract for whatever it may be worth.

Robert P. Dwyer

Attachment

HCRubin/wog--12/14/55
Copies to: DMEA Docket
Sol. Docket
W.S.Martin (2)
G.C.Selfridge
R.P.Dwyer
H.C.Rubin
Chron.

December 5, 1955

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Docket No. DMA-3394, Triumph Mining Company, Contract No. Idm-8696, Triumph Mine, Blaine County, Idaho

Will you kindly prepare an amended contract for the cited project as indicated on the attached sheets.

W. R. Griswold

W. R. Griswold

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

500

Docket DMEA-3294

December 5, 1955

Memorandum

To: Chief, Operations Control & Statistics Division

From: Chief, Base Metals Division

Subject: Withdrawal of Docket No. DMEA-3247, Triumph Mining Company, Triumph Mine, Blaine County, Idaho

Please be advised that application DMEA-3247, Triumph Mining Company, should be withdrawn since we are amending Contract No. Ida-2696, Docket No. DMEA-1324, to provide the requested additional work.

W. R. Griswold

W. R. Griswold

WRG/er

Copy to: Docket (2)
Admr R File
Base Metals (2)
Chron.

IN REPLY REFER TO:

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

November 8, 1955

Memorandum

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

From: Thor N. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report on the Triumph Mining Company application, DMEA Docket 3847, Blaine County, Idaho.

Following a series of conferences with the applicant, the Field Team has recommended revision of the applicant's proposed work, recommending that diamond drilling be substituted for the originally proposed drifting. They have presented excellent reasons substantiating their proposal, and noted that the applicant has agreed to the proposed revisions.

I concur with the Field Team's recommendations. The program they have presented will give more information on the Triumph vein structures than the applicant's program would have, while at the same time being cheaper. I recommend approval of the full amount of diamond drilling proposed by the Field Team, the work to be done as an amendment to the existing Triumph contract.

The only question concerning the proposed additional exploration that I have is that it may not be extensive enough to thoroughly test the target areas. Undoubtedly, if promising core is recovered from the drilled holes, the company will want to further explore the cored areas by underground workings. As the geology of the Triumph deposits is complex, such additional exploration would be necessary before any picture of the deposits could be obtained. I, therefore, believe DMEA should be prepared to increase the Government's participation in the Triumph contract by an additional amendment, although such action should be dependent upon the results of the work as now proposed.

Thor N. Kiilsgaard

TNKiilsgaard:iml
G-11/8/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
O. M. Bishop, 3617

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

October 31, 1955

Re: DMEA Docket-3874
(Pb, Zn; $119,516)
Triumph Mine
Blaine County, Idaho

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, Branch of Base Metals

Subject: Review of Field Reports Covering The Subject Application. Reports Transmitted October 21, 1955 and Received October 24, 1955

The original application proposed 2,000 feet of drifting on a footwall split off the 1,000-foot level of the mine with 800 feet of raising at four appropriate points. The merit of the proposal was questioned by the Washington staff and the DMEA field team, and as a result the company officials working with Quinlan (USGS) revised the proposal to permit exploration of both hanging and footwall structures by diamond drilling. The diamond drilling program consists of 4 holes totaling 1,450 feet with provision for 1,450 feet of additional drilling in 4 other holes should it be warranted by structures found as the program goes forward. Total cost of the amended program will be about $17,890 at prevailing costs. The complex geologic setting affords many choices in exploration. Although the program is not the first choice of the mine operators, it does appear to have considerable merit.

I recommend that the modified proposal be incorporated in the existing contract as an amendment following the recommendation of the field team.

O. M. Bishop

O. M. Bishop

Copy to - Division of Minerals
Mr. Kilsgaard, Rm. 5022
O. M. Bishop
Files

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

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 24 1955

October 21, 1955

DMEA
10-28-55

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

Re: Docket No. DMEA-387 (lead-zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are memoranda by J. J. Quinlan, Geological Survey, and E. W. Kolbek, Bureau of Mines, recommending that Contract No. Ida-1696 (Docket No. DMEA-134) be amended to include a diamond drilling program at the Triumph mine. Also enclosed are three copies of a letter dated August 18, 1955, from the Operator, one photostatic copy of a State Mineral Lease and six copies of Consent to Lien signed by the State Land Commissioner.

The Triumph mine is the only major lead-zinc mine in southern Idaho. It has been the opinion of personnel in this Region that there were several exploration targets in the mine area in addition to that being explored by the present contract. The latest request of the Operator, however, called for a major expenditure to test what seemed to be a relatively minor target.

The proposed exploration has been arrived at after considerable discussion, and is agreeable to the Operator even though the exploration is to be done by diamond drilling.

We are by no means convinced that this new program will find major ore bodies but we do feel that such exploration is needed if the Triumph mine is to remain a major producer. We feel that Government participation is justified and recommend that an amended contract be prepared incorporating the work outlined in the enclosed memoranda.

By Field Team, Region I, NW Dist.

Enclosures

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

cc: USGS (2)
USBM (AD)
Quinlan

King S. Aggas, Member
U. S. Bureau of Mines

See M+F docket for 10/18 ltr Oper. to Wiess.

xxxxxxxxxxxxxxxxxxx

1201 N. Division St.
Spokane 2, Washington
October 20, 1955

RECEIVED
OCT 24 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: S. W. Zoldok, Mining Engineer, Bureau of Mines

Subject: Cost analysis, Docket No. DMEA 3847 (lead-zinc), Triumph Mining Company, Blaine County, Idaho

After consultation with DMEA representatives, the company has agreed to do the proposed exploration by underground diamond drilling rather than crosscutting and drifting.

The preliminary drilling will total 1450 feet from four stations, with an additional 1450 feet of drilling if justified. It is anticipated that at least 550 feet of each drilling phase will be BX size.

Estimated Costs of the Project

The prevailing price for underground drilling in the region is $5.00 per foot for AX size and $5.50 per foot for BX size. The estimated cost of drill stations is computed from the unit cost of sublevel drifting, or very nearly $1.00 per cubic foot. Each drill station will be 10 feet in length and have a volume of 350 cubic feet.

Phase I

4 drill stations @	$350.00/ea.	$1,400.00	
550 feet BX hole @	5.50/ft.	3,025.00	
900 feet AX hole @	5.00/ft.	4,500.00	$8,925.00

Phase II

4 drill stations @	$350.00/ea.	1,400.00	
550 feet BX hole @	5.50/ft.	3,025.00	
900 feet AX hole @	5.00/ft.	4,500.00	8,925.00
Total cost of new work			$17,850.00

It is recommended that the new work be placed under Independent contracts as an allowable maximum, and handled as an amendment to the present contract No. Idm-E696, Docket No. DMEA 3394.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
Bardill

S. W. Zoldok

10-28-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
No. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 24 1955

October 18, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: James J. Quinlan, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3974 (lead-zinc), Review of Triumph Mining Company's Second Application, Triumph Mine, Blaine County, Idaho.

Introduction

This memorandum evaluates an application by the Triumph Mining Company for exploration assistance in testing a footwall split of the Triumph vein. The program originally proposed by the applicant is considered unacceptable. In its place I recommend that consideration be given to a small diamond drilling program that will not only test this footwall split but other possible structures in both the footwall and hanging wall of the main Triumph vein. The program will consist of 2,900 feet of diamond drilling and will cost approximately one-fifth as much as the applicant's original program that would have consisted of 2,000 feet of drifting and 800 feet of raising.

The company is presently exploring the Triumph vein, or split therefrom, above the Triumph 700 level under Exploration Project Contract No. Idm-P696, Docket No. DMEA-3394 (lead-zinc). Work under this contract is being conducted in an efficient manner, and there is no question that the company is technically and financially able to undertake a second project.

The geology, location, history and past production of the Triumph mine and adjacent area is partly or fully described in the following reports:

1. U. S. Geol. Survey Bulletin 814, Geology and Ore Deposits of the Wood River Region, Idaho, by J. B. Umpleby, et al.

Received by
DMEA [illegible]

10-28-55
(date)

2. Idaho Bureau of Mines and Geology, Pamphlet 90, The Geology and Ore Deposits of the Triumph-Parker Mine Mineral Belt, by Thor H. Kiilsgaard.

3. Unpublished report in U. S. Geological Survey files, Detailed Report on Triumph Mine, Blaine County, Idaho, by C. W. Merriam and C. H. Bosion, 1942.

4. Unpublished memorandum report in Defense Minerals Exploration Administration files, Review of Triumph Mining Company Application, Docket No. DMEA-5394 (lead-zinc), by Thor H. Kiilsgaard, June 1954.

As there is already a DMEA project at the mine, and the files contain much information about the mine and the applicant, this memorandum will primarily discuss those factors which bear on the second application. In particular it will attempt to answer questions raised in Thor H. Kiilsgaard's memorandum of July 1, 1955, reviewing the application and W. S. Martin's letter of August 8, 1955, regarding the possibility of undertaking a diamond drilling program in lieu of the applicant's original proposal.

The mine was examined by Donald C. Alvord, geologist, U.S.G.S., and the writer on August 11, 12, and 13, 1955. As the company did not wish to consider a diamond drilling program at that time, a modified program involving 1,000 feet of crosscutting, 1,000 feet of drifting and 500 feet of raising was planned, with company officials, to test the footwall area of the Triumph vein on and from the Triumph 1000 level. On returning to Spokane, maps were compiled, and the program discussed with other Field Team members. All agreed that a small drilling program would be much more advantageous than the modified footwall project. It was, therefore, decided to discuss the matter further with the applicant. The writer and company officials discussed the possibility of a diamond drilling project in lieu of the modified program at the company office on October 3, 1955. Although company officials much prefer the modified drifting and crosscutting program, they are willing to undertake in its place the diamond drilling program outlined in this memorandum. This drilling program was planned by company officials and the writer at the time of the October 3 meeting.

Recommendations

I recommend a drilling program consisting of 2,900 feet of holes. The location, length, bearing and inclination of four proposed holes are shown on the attached maps and are described in detail in this report. The total length of these four proposed holes is 1,450 feet. The number, location, length, bearing and inclination of additional holes will depend on what is found in the four proposed holes, but it is recommended that an additional 1,450 feet of drilling be provided.

The proposed drilling project should be made a part of the present Triumph contract, No. Idm-2696. The additional land that should be included in the contract is shown on plate 1 and described in detail below.

Property

The ground the applicant originally proposed to subject to contract terms does not adequately cover the area that would be benefited by the diamond drilling program, nor for that matter did it adequately cover the area that would have been benefited by the applicant's original proposal. Mr. Killagnard discussed this matter under heading No. 1 of his memorandum of July 1, 1955.

At the time of the October 3, 1955 meeting, company officials agreed to subject to the proposed contract terms the block of ground outlined in red on plate 1, excluding from it the structure that is now considered to be the main Triumph vein with known attendant replacement bodies. The main vein structure is shown on plates 2, 3, and 4, and it would be easy to keep ore from the main structure and known attendant ore bodies separate from any ore found under the new program. This is a reasonable exclusion as the proposed diamond drilling program is designed to test the walls of the main vein. Also, any surface dumps on this new block should be excluded from royalty obligations. The new block, together with land covered by the present contract, would more than adequately cover the area that would benefit by the proposed drilling program.

The new block covers land within the following claims:

Patented

Edison Fuche
Union

Unpatented (recorded in records of Blaine County, Idaho, as noted)

Name	Recorded in Book	Page No.
Triumph No. 1	1	169 (amended)
Triumph No. 6	1	174 (amended)
Triumph No. 8	1	176 (amended)
Triumph No. 9	131	369
Triumph No. 14	141	340
Tram No. 1	1	166 (amended)
Tram No. 2	1	167 (amended)
Andy No. 13	156	351
Blanche	131	245
Beatrice	131	243
Cecil	1	163 (amended)
Dora	131	242
Fern	1	162 (amended)
Jennie	1	164 (amended)
Jessie	1	165 (amended)

It will be noted on plate 1 that all or parts of the Triumph No. 8, Triumph No. 9, Triumph No. 14, Andy 13 and Blanche claims are in the N½N½ of sec. 27, T. 4 N., R. 18 E., B.M. This part of section 27 is state land. At the writer's request the company has submitted a copy of its lease on this state land, as well as a consent to lien agreement signed by the State Land Commissioner.

It will be noted that plate 1 shows the ground covered by the present contract as well as the proposed new block. In order to facilitate the metes and bounds description of the land, the coordinates of the boundary points of the blocks are shown on plate 1.

Exploration Targets

The applicant's original proposal involved testing of a split from the Triumph vein near Survey Station No. 10032 on the Triumph 1000 level (see pl. 3). This split from the Triumph vein appears to be a bedding or near-bedding plane structure. It consists of a shear, 6 to 7 feet wide, laced with thin stringers of quartz and calcite. Disseminated pyrite and minute amounts of sphalerite and galena occur throughout the shear. Since filing the application the applicant has followed this structure about 15 feet northwest from the main 1000 level heading. Although far from conclusive this work indicates that the split is weakening as it is followed from the main vein.

Although other small footwall splits from the Triumph vein are known, it is not possible on the basis of present available information to correlate this split on the 1000 level with any of the others. The applicant believes, however, that this footwall split may be related to the 70-783 ore body found on the 700 level in the vicinity of Coordinates 11,350 E., 7,850 N. (see pl. 2). The company mined 8,500 tons of ore averaging 0.03 ounce of gold per ton, 5.1 ounces of silver per ton, 3.8 percent lead, and 4.5 percent zinc from this body. The 70-783 stope area is no longer accessible, but available maps show that this stope is on the flat portion of the Triumph structure (see pl. 4). The applicant contends that the 70-783 ore body may be at the intersection of the flat portion of the Triumph shear with a major footwall split. Assuming that this is the case, the applicant further contends that the possible split may correlate with the 1000 level split. This seems like a remote possibility as there is no evidence of a major footwall split in any of the 700 level footwall workings, particularly in the 70-820 crosscut north which was extended under the present contract. The preceding discussion should answer the question raised under heading 2 of Mr. Killingsord's memorandum.

Mr. Kiilsgaard, under heading 4 of his memorandum, requests information as to the strength of the vein near the andesite contact on the 1000 level. Company maps indicate that, although the structure was strong near the contact, it contained little ore (see pl. 3). The 1000 level has now been rehabilitated to a point just west of Survey Station No. 10045. At present the company has no plans to rehabilitate the remaining 450 feet of drift on the 1000 level to the andesite contact. As no one ever got back to the face after the andesite was encountered, company officials are uncertain as to the nature of the contact. Company officials at first thought a dike or fault block had been cut but, on reconsidering, they are inclined to agree with Mr. Kiilsgaard that the 1000 level drift encountered an old land surface upon which the andesite was deposited.

There are several other exploration targets in the walls of the Triumph vein that the writer believes merit as much or more consideration than the applicant's footwall target. In following the Triumph vein the company usually follows the footwall of the vein. As a result, little work has been done in the western part of the 700 level to test the hanging-wall area of the vein where the main vein apparently flattens. The geologic section through the 70-820 crosscut (pl. 4) illustrates a possibility that may have been overlooked. It will be noted on this section that the flat portion of what is now considered the main Triumph vein may be a connecting structure between the Triumph and Independence veins and that the Triumph vein may continue above the 700 level at its normal dip of 30° - 35°. On this dip it would be possible to correlate it with the possible fault structure indicated in the surface diamond drill hole and with the Bula vein.

Little work has been done to test the hanging wall of the Triumph vein on the 1000 level. Considering that the largest ore body in the mine was a replacement body in the hanging wall of the main vein, exploration to test the hanging wall of the vein is also considered advantageous, particularly in areas of limestone rocks.

Proposed Exploration

The applicant originally proposed to drift 2,000 feet and raise 800 feet on the structure that splits from the Triumph vein on the 1000 level near Survey Station No. 10032. Present information indicates that exploration of this magnitude on a relatively weak structure, as this split is, is not warranted.

At the time the property was examined in August, consideration was given to a crosscutting and drifting program for testing the footwall area of the Triumph vein. This modified program involved driving a footwall crosscut 1,000 feet on bearing N. 35° E. from the 1000 level west heading near Survey Station No. 10045. If the crosscut encountered a favorable structure or structures, 1,000 feet of drifting and 500 feet of raising on these structures was proposed. Such a program would not only permit testing of the split that the applicant originally proposed to explore but a large area of the footwall of the main vein for other possible splits or parallel structures. The writer considered the program to be of a wildcat nature but outside of a drilling project, which the company at that time did not wish to consider, it appears to be the best method of testing the footwall area.

After discussing the modified proposal with other Field Team members and considering the thought expressed in Mr. Martin's letter of August 8, it was decided that even though the company was opposed to drilling it would be best to discuss the matter further with them. Particularly, since drilling appeared much more advantageous than the modified crosscutting and drifting program. On October 3, I called at the company office to discuss the possibility of a diamond drilling project. Although the company preferred the modified crosscutting and drifting program, they were willing to consider a drilling project in lieu of it. Therefore, a diamond drilling program, which is outlined below, was planned with company officials.

The proposed drilling project would involve the drilling of four holes (aggregating 1,430 feet) with provision for an additional 1,430 feet of drilling to test further any possible ore structures encountered in the first four holes. The drilling should not, however, be set up in two stages because some of the additional holes will probably be drilled from the same set up as the first four holes, and it would be advantageous to complete drilling in one area before moving to a different area. All four proposed holes are shown on the claim map of the DMMA area (pl. 1). Holes No. 1 and 2 are also shown on the geologic map of the 700 level (pl. 2) and on the geologic section through the 70-820 crosscut (pl. 4). Holes No. 3 and 4 are also shown on the geologic map of the 1000 level.

Proposed Drill Hole No. 1 is to be drilled from the 700 level 600 feet on bearing N. 40° E., and at an inclined angle of -45°. This hole is to test the footwall area of the Triumph vein for possible splits or parallel structures to the Triumph vein. This hole will test the same area as the modified crosscutting and drifting program. Although it would have been preferable to collar the hole nearer the 70-765 stope to test more adequately the applicant's hypothesis that this ore body is formed at the intersection of the flat portion of the Triumph vein with a large footwall structure,

the high cost of rehabilitating the 700 level workings into the area precludes this approach. The company estimates that rehabilitation in the area would cost close to $85.00 per feet and that about 600 feet of rehabilitation would be needed to reach a suitable drill site. A study of the 700 level map (pl. 2) indicated that it would be just as easy to drive a new crosscut to reclaim the 70-785 stope area but this again at too high a cost for a drill station.

Proposed Drill Hole No. 2 is to be drilled from the 700 level 500 feet on a bearing S. 40° W. and at an inclined angle of +60°. This hole is to test the area above the flat portion of the Triumph vein for the possible continuation of the vein on its normal dip.

Proposed Drill Hole No. 3 is to be drilled from the raise (approx. 40 feet above 1000 level sill) near Survey Station No. 10055 on the 1000 level. This hole is to be drilled 250 feet on bearing S. 15° W. and at an inclined angle of +60°. This hole is to test the hanging-wall area of the Triumph vein for possible parallel structures or replacement ore bodies. It has been located to test the area into which the favorable limestone horizon that contains the large replacement ore body on the 700 level projects.

Proposed Drill Hole No. 4 is to be drilled from the 1000 level 100 feet on bearing N. 60° E. and at an inclined angle of -45°. This hole is to test the split from the Triumph vein which the applicant originally proposed to explore by 2,000 feet of drifting and 800 feet of raising. This proposed hole should show whether the split is weakening away from the main vein.

Although the company has experienced some difficulty in the past with diamond drilling, the results have not been so unfavorable as to prevent its use as an exploration tool. In fact, at times the company has been able to obtain good core recovery. To insure good core recovery, that is essential, under the proposed drilling project, it is recommended that the first 300 feet of proposed Hole No. 1 and first 250 feet of proposed Hole No. 2 be BX in size. The remaining 300 feet of proposed Hole No. 1 and 250 feet of proposed Hole No. 2 could be AX in size. AX size should be adequate for both Holes No. 3 and 4; thus, 550 feet of BX size drilling and 900 feet of AX size drilling should be provided for the four proposed holes. The contract should provide the same ratio of BX to AX size hole for the unallocated 1,450 feet of drilling. Therefore, provision should be made for a total of 2,900 feet of drilling, of which approximately 1,100 feet will be of BX size and 1,800 feet of AX size.

Conclusion

The applicant's original proposal is considered to be unacceptable. In its place is recommended a program consisting of 2,900 feet of diamond drilling.

The drilling program will test both the footwall and hanging wall areas of the Triumph vein. Although in some respects the drilling program is of a wildcat nature, it could result in the finding of structures which would materially increase the life of the Triumph mine.

If the drilling program proves successful, consideration could then be given to a program of testing favorable target by mine opening.

Attachments
Distribution:
DMMA (4)
UKMM (2)
USGS (SRO)
Docket
Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
SEP - 6 1955

September 2, 1955

Pending

Mr. L. E. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. [illegible]A-3147 (lead-zinc)
Triumph Mine
Blaine County, Idaho

Dear Mr. Robinson:

In checking the description of the land involved in the new application, we find that we need the book and page number of the county record in which each of the unpatented claims is recorded.

We would appreciate this information at your earliest convenience.

Sincerely yours,

James J. Quinlan
For: A. J. Weissenborn
Executive Officer, DMEA
Field Team, Region 1
Northwest District

cc: [illegible](2)
[illegible](2)
Quinlan

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

Se 157 Howard Street
Spokane 4, Washington

Pending

August 12, 1955

RECEIVED
AUG 19 1955

Mr. W. S. Martin, Acting Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3847 (lead-zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Martin:

This will acknowledge your letter of August 8, 1955.

I had a telephone report today that our field men had just completed an examination of the Triumph mine and have had a long discussion with the Operator regarding the problems involved. I am informed that some sort of a revised program will be recommended, but I don't know at the moment what the details are. In recommending a program, we will give serious consideration to the diamond drilling which you suggest.

Sincerely yours,

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

cc: DMEA (2)
Quinlan

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

AUG - 8 1955

Pending

Re: Docket No. DMA-3847 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

We have your letter of July 28, relative to the cited project. After reviewing the Applicant's letter of July 23, which was enclosed, we note that it apparently has a complex situation, both with regard to structure and to ore occurrence.

An off-hand opinion would be that this property is badly in need of a comprehensive diamond drilling program; not a lot of holes drilled haphazardly at random, but a program to be preceded by a thorough geologic study and analysis. We have no objection to a reasonable amount of drifting as proposed by the Applicant, but we question that drifting, in itself, would be sufficient to give a complete answer to the apparently complex problem.

The three possible and tentative projects outlined in the July 23 letter of the Applicant involve a large amount of drifting, cross-cutting, raising and winzing; all of this merely to test theories of possible occurrence. It is difficult to believe that much of the desired information could not be obtained by diamond drilling, at a great saving of time and funds.

Mr. Killsgaard has advised us that this company is prejudiced against diamond drilling, though he believes the veins would give satisfactory cores. Such an attitude seems strange on the part of a modern-day operator, especially when dealing with intricate patterns of ore deposition.

Sincerely yours,

WRGriswold/bjl (8/4/55)

W. S. Martin
ACTING Chairman, Operating Committee

/s/ N. E. Nelson
Member, Geological Survey

APPROVED:

/s/ Robert W. Goehan
Member, Bureau of Mines

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Killsgaard
Chron.

C
O
P
Y

So. 157 Howard Street
Spokane 4, Washington

July 28, 1955

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

Re: Docket No. DMEA-3847 (lead-zinc)
Triumph Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are three copies of a letter dated July 23, 1955, from Mr. L. M. Robinson, general manager of the Triumph Mining Company, with which he enclosed revised portions of his application previously submitted. This revised program was submitted at our request.

Please substitute the pages as indicated.

Sincerely yours,

Verne C. Fryklund, Jr.
for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosures as indicated

cc: USBM (2)
Quinlan

Operator's letter 7/23/55 filed in M & P docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
1201 N. Division St.
Spokane 2, Washington

RECEIVED
JUL 25 1955

July 14, 1955

Mr. L. M. Robinson, Gen. Mgr.
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA 3394 (lead-zinc)
Triumph Mining Company
Blaine County, Idaho
Contract No. Idm-E696

Dear Mr. Robinson:

This is your authority to proceed with the work under Stage II of the subject contract.

By Field Team, Region I, NW District

Wing G. Agnew, Acting Executive Officer
U. S. Geological Survey

Verne C. Fryklund, Jr., Member
U. S. Geological Survey

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

xxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

July 28, 1955

Pending

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMRA-3847 (lead-zinc)
Triumph Mine
Blaine County, Idaho

Dear Mr. Robinson:

We wish to thank you for your letter of July 23, 1955, enclosing revised portions of your application on the above-cited docket.

A field party will be in your area some time during the first week in August and will stop in to see you.

Very truly yours,

Verne C. Fryklund, Jr.
for A. H. Weissenborn
Executive Officer, DMRA
Field Team, Region I, NW Dist.

cc: DMRA (2)
USBM (2)
Quinlan

500

Air Mail

JUL - 6 1955

Pending

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

Re: Docket No. DMEA-3847 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

Referring to the cited application, we are enclosing copies of the memorandums of Mr. J. E. Hedges, USBM, dated June 24, and Mr. Thor H. Kiilsgaard, USGS, dated July 1. Mr. Kiilsgaard has covered the proposal in some detail.

It would seem, if the project should be approved, that it would be handled as an addition to the present contract of this company (Docket No. DMEA-3394).

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures 2

WRGriswold/bjl (7/5/55)

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

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

JUL - 6 1955

Air Mail

Mr. L. M. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Pending

Re: Docket No. DMEA-3847 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Robinson:

Your application for Government assistance to explore your property has been received by the Base Metals Division of the Defense Minerals Exploration Administration, and has been referred for a field examination to:

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

The Regional Office will contact you at an early date as to when an examination is to be made. Any assistance that you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

WPGriswold/bjl (7/5/55)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kiilsgaard
Mr. Bishop
Region I (NWD) (2)
Chron.

IN REPLY REFER TO:

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

July 1, 1955

Memorandum

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

From: Thor N. Killagnard, U. S. Geological Survey

Subject: Review of Triumph Mining Company application, DMEA Docket 3847, Blaine County, Idaho.

The applicant proposes to drift 2,000 feet on a footwall split off the Triumph vein on the 1000 level. From this drift a total of 800 feet of raising is proposed. Total cost of the project is estimated at $119,516.00.

The writer is familiar with the Triumph mine and considers it to have many excellent exploration possibilities. There are, however, several questions and observations concerning the cited application which should be clarified by the Field Team in their field report. A few of these, with comments, are listed below:

1. The amount of ground to be subjected to contract terms appears to be inadequate. The block barely covers the length of the proposed drift. It is bounded above by a plane at elevation 6,100 feet, only 210 feet above the proposed drift level. The lower limit of the block is not too clear, although I assume the applicant intends the limit to be on the 1000 level at an elevation of 5,890 feet. As the Footwall vein is unexplored it should pay royalties as far up as it can be mined, unless it should prove to be the main vein in the 70-783 stope, in which case an upper limit could be placed on the 700 level. The lower limit should be placed far enough down the dip of the vein to fix a base on a block of ground big enough to insure repayment. This could be done either by extending the down-dip boundary to the limits of mining, or by including the Tram 1, Tram 2, Andy 12, Triumph 9 and Triumph 14 claims, assuming DMEA prefers vertical boundaries. If the vein maintains a 30 degree dip, inclusion of these claims would give a down-dip length of about 2,000 feet below the 1000 level.

Further, it is suggested that the northwest boundary be extended to include the Jessie and Triumph No. 1 claims -- as the ore bodies are raking to the northwest --, and the southeast boundary extended to include all of the Triumph 8, Fern and Rora.

2. If the footwall split warrants 2,000 feet of drifting on the 1000 level, why don't it show in more workings on the 700 level, particularly in the 70-820 crosscut or in the continuation of that crosscut which was driven under BMKA contract? If it is assumed that this vein is the one mined in the 70-783 stope wouldn't it be practical to test its downward continuation by diamond drilling from the main 700 level drift or from the 800 or 900 levels before contemplating the long drift on the 1000 level?

The Triumph fissure zone is complex and there are many splits leading therefrom as there are intersecting and offsetting faults, but where else is this footwall split seen other than on the 1000 level?

3. Is the 1000 level still choked with debris from the flood beyond the split of the Footwall vein. If not why can't some diamond drill holes or even a crosscut from some place like near the 10-690 Rs. be run therefrom to check the position of the footwall vein. I realize the company frowns on drilling, but core information in this case would be of interest even if no ore was found. In this respect it might be noted that splitting veinlets of quartz, pyrite, and sphalerite are common in the Silver Star Queen and Minnie Moore mines but they rapidly feather-out away from the main vein and are not persistent. The geologic environment of these two mines is similar in many respects to that of the Triumph.

4. It is my understanding that in 1953 the northwest face of the 1000 level broke into andesite and an enormous flow of water that flooded the lower levels of the mine. Company officials were not sure of the type of occurrence of the andesite but thought it might be a dike or a fault block. In my mapping of the area in 1949, I did not agree with the postulation of a fault contact of andesite on the eastern side of the Wood River valley, as shown on Plate 1, U.S.G.S. Bull. 814, but instead thought the volcanics simply rested on an old eroded land surface. The fact that the 1000 level hit andesite more than 2,000 feet west of the eastern surface contact of the andesite and 600 feet lower in elevation is strong evidence that my contention was correct. The eastern surface contact of the andesite is approximately above where the 700 level crosses the 8400 E coordinate and the dip between this point and the face of the 1000 level drift is about 17 degrees, or what might be expected on a valley hillside. Assuming the andesite rests on an old land surface, the 1000 level probably went into valley fill and the footwall drift, if parallel to the Triumph vein as projected on the map, may be expected to do the same somewhere in the vicinity of the E 6800 coordinate. As the ore is pre-volcanic, there is considerable risk in exploring close to the old outcrop, both from a water standpoint and from the fact that no ore can be expected in the andesite. It would be well to learn what was found in the 1000 level drift in the vicinity of the andesite contact for if the main vein was unproductive there would be reason to suspect the footwall split to be the same.

A field examination of the applicant's property may not be necessary as much is already known of the mine and the management. The points covered in this memo should, however, be considered by the Field Team and possibly discussed with the applicant's managers before the field report is transmitted to Washington.

It is recommended that the Field Team be asked for their report.

Thor H. Kiilsgaard

THKiilsgaard:iml
C-7/1/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
G. M. Bishop, 3617

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 1, Washington

RECEIVED
JUL - 5 1955

June 23, 1955

Mr. [illegible] H. Robinson, General Manager
Triumph Mining Company
Triumph, Idaho

Pending

Re: Docket No. [illegible]A-3147 (lead-zinc)
Triumph Mine
Blaine County, Idaho

Dear Mr. Robinson:

This office has been attempting to evaluate your recent application for additional exploration at the Triumph mine, but unfortunately we do not have the information to do this properly. Before we can go any further in our evaluation, we will need four copies of a geologic map of that portion of the 1000 level where the vein split leaves the Triumph vein. If splits such as this are common in the mine, geologic maps of other such areas would be very useful in indicating what might be expected in this one.

On the basis of information on hand we would not feel justified in recommending an exploration of the magnitude you have requested. The likelihood of a 6- to 10-inch quartz and pyrite vein, which is a split off the Triumph vein, opening up as it passes out of the main shear zone to ore width and grade seems small. Any information you can present that other splits have developed into ore shoots would make it much easier to justify the proposal. Whether other splits have proved productive or not, the fact that such splits exist on a productive vein is of significance.

We suggest therefore that you revise your application to reduce the amount of drifting to no more than 500 feet. Final approval rests with our Washington office, but we feel that a more modest program could receive more serious consideration. If 500 feet of drifting on the vein gives encouraging results, the contract could probably be amended to do additional work.

By Field Team, Region [illegible], [illegible] District

[illegible]ing G. Agnew, Acting Exec. Officer
(U. S. Bureau of Mines)

John S. Shay, Member
(U. S. Geological Survey)

cc: [illegible]
[illegible]
[illegible]ryland

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

June 24, 1955

Memorandum

To: W. R. Griswold, DMEA

From: J. H. Hedges

Subject: Docket No. DMEA-3847 (lead-zinc) Triumph Mining Co., Triumph, Idaho

The company proposes to drift a distance of 2,000 feet on the 1,000 level of the mine, following a footwall split from what has been considered the main Triumph vein. It is stated that footwall splits are common but none has ever been followed. This circumstance in itself suggests caution in appraising the possibilities of footwall development. Furthermore the mine maps seem to indicate that the northwest section where the proposed work would be done has been less productive than the central and southeastern sections of the mine. The project would also include 800 feet of raising at four appropriate points in the exploration drift. The total cost is estimated at $119,516.

The proposal appears to have sufficient merit to justify an on-site investigation and a close study of the complex geologic setting. The block of ground proposed to be subordinated appears to be adequate except for its western boundary which certainly should be not less than 200 feet beyond the end of the projected drift. The application should be referred to the field for examination and recommendations.

J. H. Hedges

Copy to - Mr. Kiilsgaard, Rm. 5224
O. M. Bishop
Files

JUN 13 1955

Pending

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

Re: Docket No. DMEA-3647 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

We have your letter of June 1, forwarding the cited application.

We note that a field examination will be made if it is considered applicable. In any event we shall hold the matter in abeyance until hearing from you.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WRGriswold/er 6/9/55

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

C
O
P
Y

So. 157 Howard Street
Spokane 4, Washington

June 1, 1955

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

Re: DMEA 3847 (lead-zinc)
Truimph Mining Company
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application to explore the Triumph mine in Blaine County, Idaho. One copy of the application is being retained for the files of this office.

A field examination, if applicable, will be scheduled as soon as time permits.

Sincerely,

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

Enclosure

cc: USBM (2)
Nickelson

Above application filed in Gm + Nelson Ck

So. 157 Howard Street
Spokane 4, Washington

March 14, 1955

Approved: WPX
Klingenschmid
~~Gruewood~~
Betty

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

Re: Docket No. DMEA-3394 (lead-zinc)
Triumph Mining Company
Blaine County, Idaho
Contract No. Idm-2696

Dear Mr. Selfridge:

Enclosed are the Government, Docket, and Division copies of Amendment No. 1 to the above-cited contract, with attached justification.

Distribution of this amendment has been made in the usual manner.

Sincerely yours,

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

Attachment

cc: Finance Office
UGMM (2)
Nickelsen

Amendment

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

Jeannie
Betty

March 1, 1955

Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA 3394 (lead-zinc)
Triumph Mining Company
Blaine County, Idaho
Contract Idm-E696

Gentlemen:

Enclosed are the original and six copies of Amendment No. 1 to the cited contract which has been prepared in line with your request of February 18 to substitute rock bolting for timbering.

If the terms and conditions of this amendment meet with your approval, please sign all copies, retain the copy marked for the Operator, and return the remaining copies to this office.

Sincerely yours,

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

Enclosures

cc: DMEA (2)
USGS (2)

xxxxxxxxxxxxxxxxx

1201 N. Division St.
Spokane 2, Washington
February 24, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: A. L. Service, Mining Engineer, Bureau of Mines

Subject: Roof bolt costs, Docket No. DMEA 3394 (lead-zinc)
Triumph Mining Company, Blaine County, Idaho
Contract Idm-E696

The roof bolting costs submitted by the Triumph Mining Company with their letter of February 18 are acceptable with the exception of the labor costs of $21.00 per shift, which are high. These proposed costs are based on the number of feet of drift bolted.

The following suggested costs are calculated on a cost per bolt basis. The Operator's proposed costs were used, with an adjustment in the labor cost, to arrive at the final amount.

Bolts	$1.00
Bearing plate (steel)	.50
Bearing plate (wood)	.10
Bits, air, steel, etc.	.15
Cost per bolt	$1.75

The Operator estimates that 2 men will be able to set 15 bolts during an average shift.

Labor - 2 men @ $15.71/shift

$\frac{31.42}{15}$ = $2.09 labor cost per bolt

Total cost for labor and material $3.84

Cost for 290 bolts $1113.60

DMEA, Wash. (2)
USGS (2)
DMEA
AD
ALS/he

February 18, 1955

Field Team
Defense Minerals Exploration Administration
1201 N. Division Street
Spokane, Washington

Re: Docket DMEA 3394 (Lead - Zinc)
Contract ID64-8696

Dear Sir:

We have roof bolted a section of our cross-cut which is being driven under the above mentioned DMEA contract. We have found that roof bolting costs more than does timbering, but we can roof bolt at the same time that the heading is being advanced which we can not do in the case of timbering.

We would like to have roof bolting included in our contract at the same price as timbering is, i.e. $6.50 per foot. This price would have to be on a basis of not less than 1.4 bolts per foot of ground; any number of bolts less than that would have to be prorated accordingly.

We bolted 184 feet of this cross-cut with 290 bolts. We kept careful track of the costs for bolting this section and they are included on a separate enclosure. It is true that at the beginning of this work our two man crew was not as adept at this as they were at the end, but it seems that 14 to 15 five foot bolts is a days work for two men. Our costs for this section averaged $6.66 per foot of ground bolted; consequently, we feel that $6.50 per foot is not at all unreasonable.

We would appreciate your consideration of this matter and trust that you can include it in our contract.

Yours very truly,

TRIUMPH MINING COMPANY

By _____
C. C. Livingston
Mine Superintendent

CCL:mw
Encl.

ROOF BOLTING

DOCKET NO. D.M.E.A. 3394 (Lead-Zinc)
CONTRACT IDM-E696

Roof Bolts	290	@	$ 1.00	Or	$ 290.00
Bearing Plates(Metal)	290	@	$ 0.50	or	145.00
Bearing Plates(Treated Timber)	31	@	$ 1.00	or	31.00
Labor	52 Man Shifts	@	$21.00	or	1,092.00
Bits, Compressed Air, Steel, etc. 1160'		@	$ 0.0305	or	35.38
		TOTAL			$1,593.38

Lineal Ft. of Crosscut Bolted - 184

Cost per foot - $$1,593.38 divided by 184 or $8.66 per foot

PROPOSED PRORATING OF BOLT COSTS

Over 1.4 bolts/ft.	pay	$6.50
1/4 bolts/ft.	"	6.50
1.3 bolts/ft.	"	6.00
1.2 bolts/ft.	"	5.50
1.1 bolts/ft.	"	5.00
1.0 bolts/ft.	"	4.50
.9 bolts/ft.	"	4.00

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

August 20, 1954

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

Re: Docket No. DMEA-3334 (lead-zinc)
Triumph Mining Company
Blaine County, Idaho
Contract No. Idm-2695

Dear Mr. Selfridge:

Enclosed are the original and two signed copies of the above-cited contract.

Distribution of this contract is being made in the usual manner.

Sincerely,

H. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: Finance Office w/encl.
USBM

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
No. 157 Howard Street
Spokane 4, Washington

August 13, 1954

Pending

Mr. C. C. Livingston
Triumph Mining Company
Triumph, Idaho

Re: Docket No. DMEA-3394 (lead-zinc)
Triumph Mine
Blaine County, Idaho

Dear Mr. Livingston:

Enclosed are the original and five copies of a DMEA contract for exploration at your Triumph mine. The contract needs the signature of an official of the Triumph Mining Company to become effective; therefore, if the terms and conditions of the contract are acceptable, please sign all copies, retain that copy marked for the Operator and return the remaining copies to this office.

Your attention is directed to Annex I of the contract which needs additional information before it can become effective. This information is a description by metes and bounds of the land described in Article 2 of the contract.

Ordinarily, when a contract is negotiated with an applicant, and where the land covered in the contract is as claims or groups of claims, no metes and bounds description is necessary; however, in this case we are dealing with fractions of claims and while these fractions can be and are shown on the attached map it is believed that from an engineering and legal viewpoint the land should be more adequately described, hence the request for the metes and bounds delineation of the land "shaded" on the attached map. If this metes and bounds description cannot be typed in the appropriate blank on Annex I, an additional sheet should be used, a copy of which should be attached to each copy of the contract.

Sincerely yours,

John S. Vhay
Acting Member, DMEA
Field Team, Region II

Enclosures

cc: DMEA (2)
USBM (2)

Pending

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

Referring to your letter of July 1, we are enclosing the original and five copies of a contract covering the cited project. We believe the contract follows your recommendations, with the exception that we have allowed only a total of 600 feet of dip raising which we feel should be adequate to permit a reasonable degree of exploratory work from the proposed sublevel.

We call to your attention a deficiency in the contract which you should complete. In Annex I, you will note the statement, "the land is described by metes and bounds as follows". Following this, a proper delineation of the correct metes and bounds should be written, using another sheet if necessary. Undoubtedly, the Applicant can supply this detail, following the general scheme which it used in its application, but which is now incorrect due to the subsequent enlargement of the block of ground covered by the contract.

Ordinarily, when entire claims are covered by a contract, no such "metes and bounds" delineation is necessary, but in this case we are dealing not only with whole claims but also certain claim fractions. Hence, it would be inadequate, both from an engineering and from a legal viewpoint, to indicate the land merely by "shading on the map".

If the contract meets with your approval please present it to the Operator for approval and signature and, when completed, distribute the copies in the usual manner. If the contract is not satisfactory, return all copies to us with your comments.

Sincerely yours,
George C. Selfridge
Chairman, Operating Committee

WRGriswold/bjl (8/3/54)
Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Chron.
Mr. Gildersleeve

Enclosures 6
APPROVED:

J. H. Hedges
Member, Bureau of Mines

Philip W. Guild
Member, Geological Survey

July 20, 1954

Memorandum

To: Acting Assistant Solicitor, DMFA

From: Chief, Base Metals Division

Subject: Docket No. DMFA-3394, Triumph Mining Company, Blaine County, Idaho

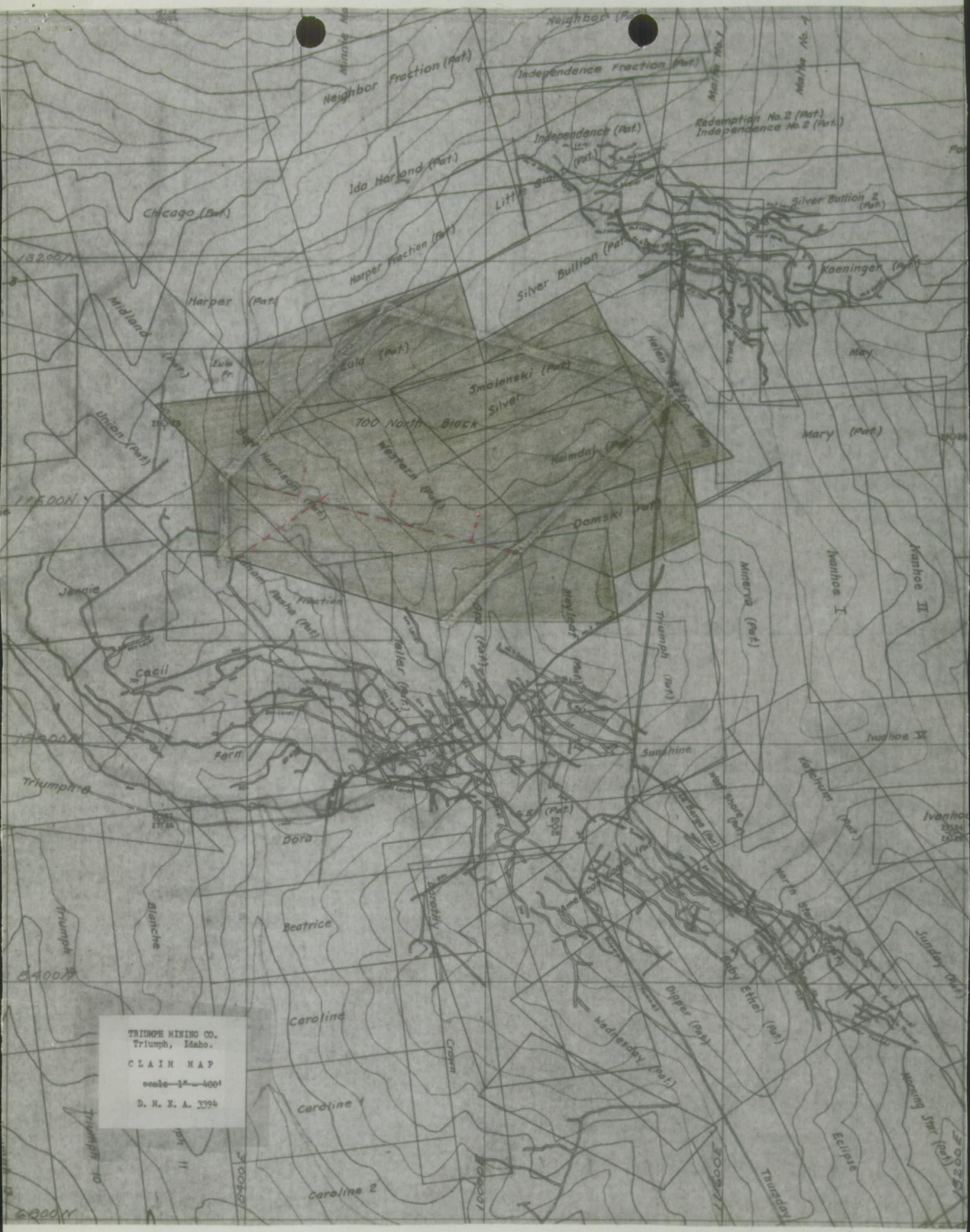
Will you kindly prepare a short form, unit cost contract along the lines as shown on the attached proposed contract for the cited applicant.

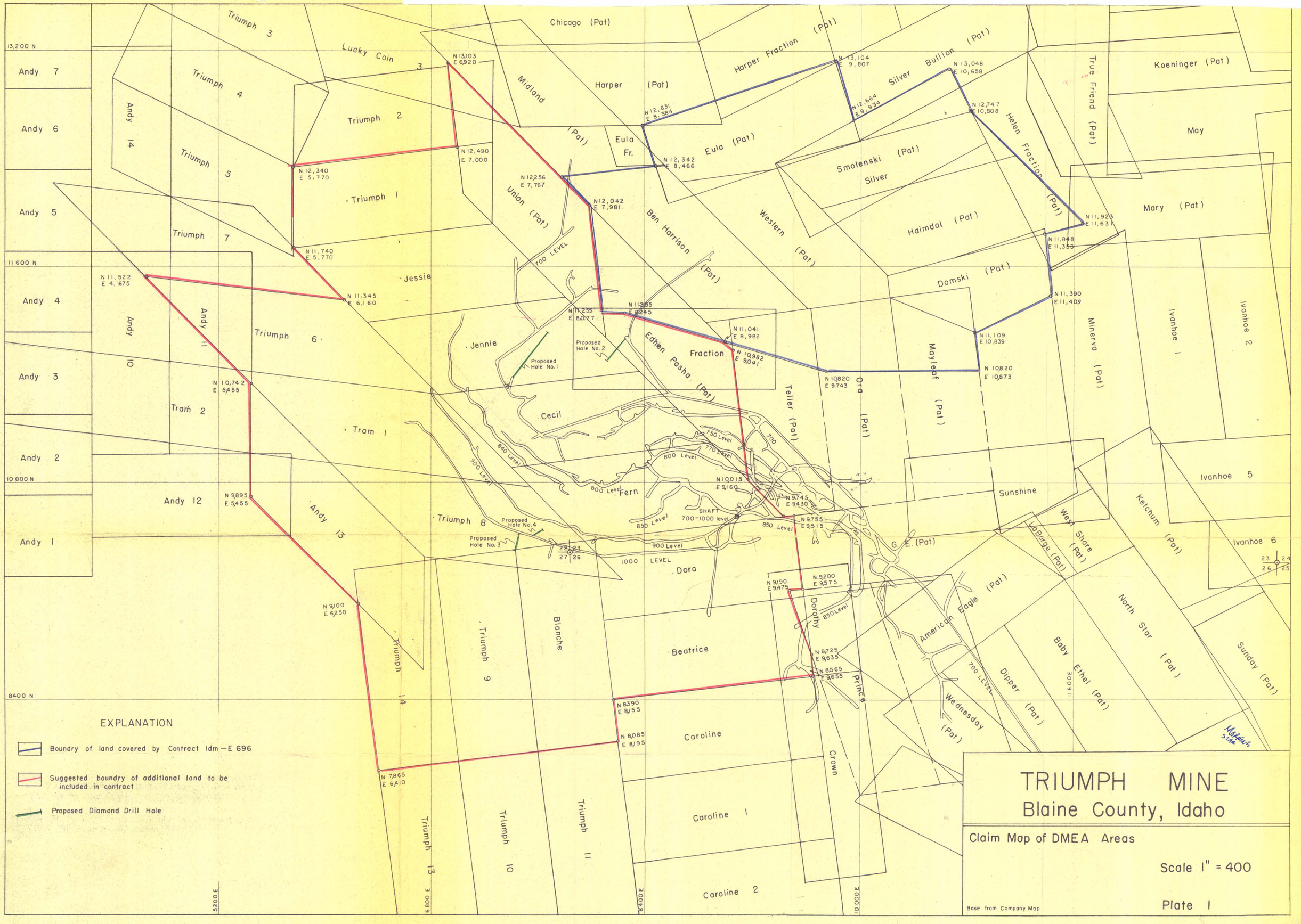
W. R. Griswold

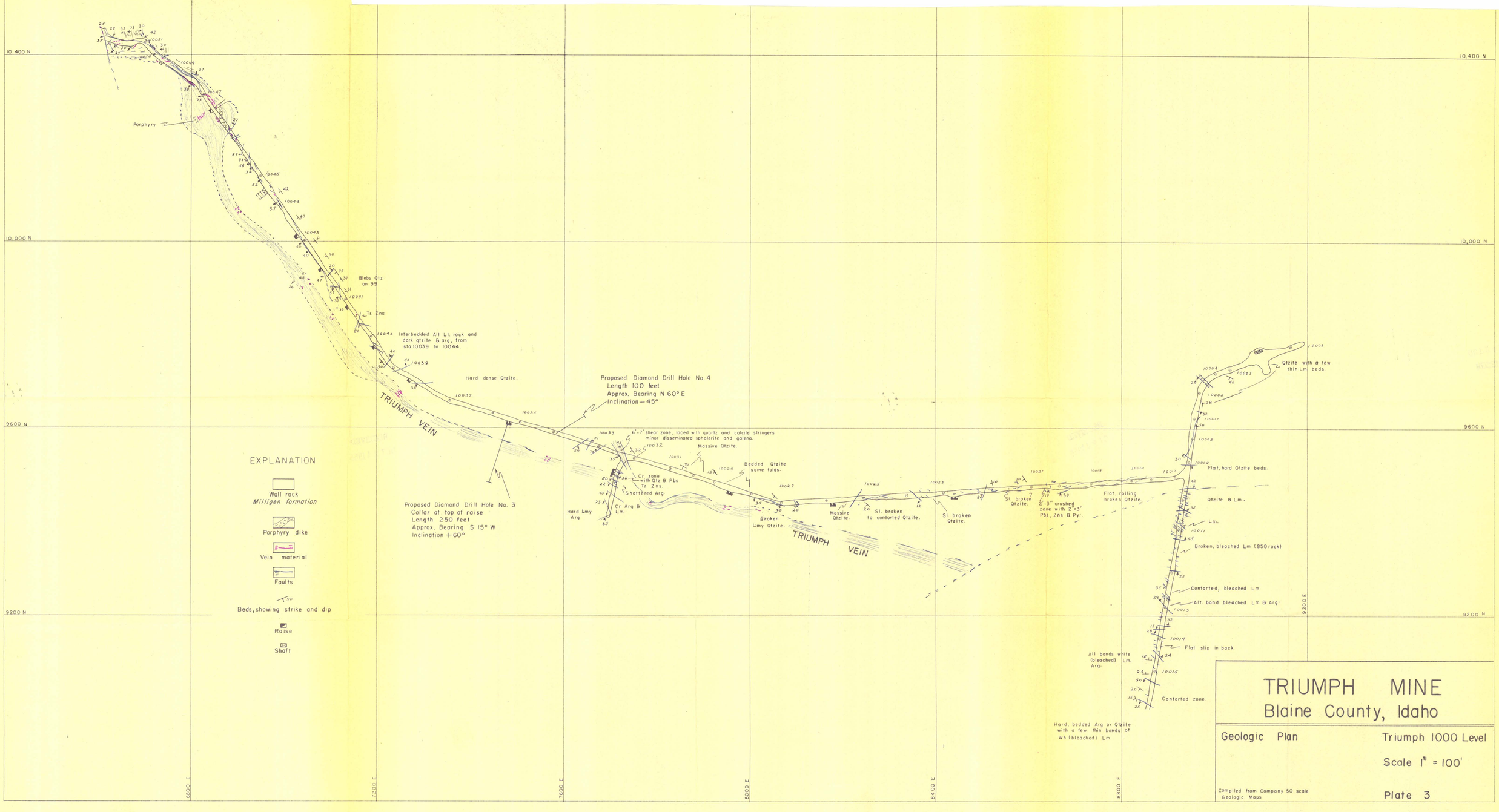
W. R. Griswold

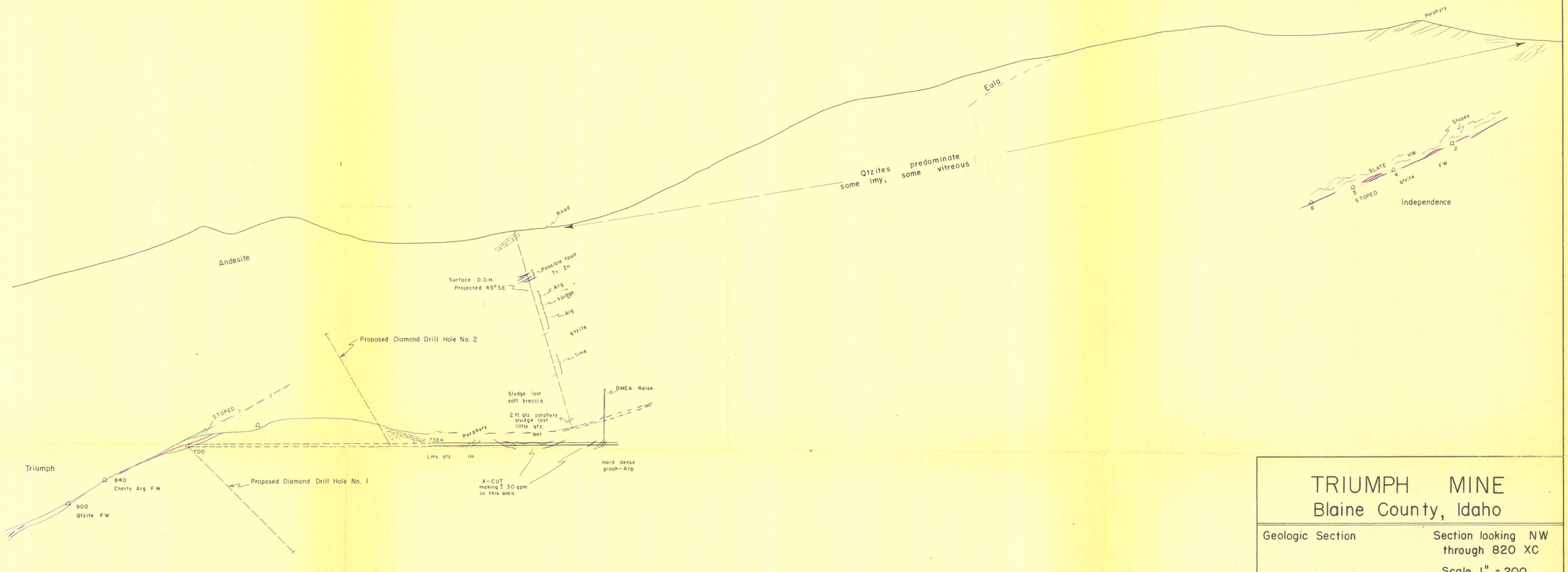
WRGriswold/bjl

Copy to: Docket
Base Metals
Chron.


Neighbor (Pat.)
Neighbor Fraction (Pat.)
Independence Fraction (Pat.)
Redemption No. 2 (Pat.)
Independence No. 2 (Pat.)
Independence (Pat.)
Ida Harland (Pat.)
Little Giant
Silver Bullion (Pat.)
Chicago (Pat.)
Harper Fraction (Pat.)
Silver Bullion (Pat.)
Koeninger (Pat.)
Harper (Pat.)
Midland
Zula (Pat.)
Smolenski (Pat.)
Silver
700 North Block
Mary
Mary (Pat.)
Union (Pat.)
Harrison (Pat.)
Weiss (Pat.)
Kolmdal (Pat.)
Domski (Pat.)
Jessie
Cecil
Fern
Triumph 8
Doro
Beatrice
Blanche
Triumph 13
Caroline
Caroline 1
Caroline 2
Triumph 10
Triumph (Pat.)
Maylief (Pat.)
Minerva (Pat.)
Ivanhoe I
Ivanhoe II
Ivanhoe V
Sunshine
Kalchen (Pat.)
Wednesday (Pat.)
Dipper (Pat.)
Baby Ethel (Pat.)
Thursday
Eclipse
Morning Star (Pat.)
Sunday (Pat.)
Crown
Pretty
Ameco
TRIUMPH MINING CO.
Triumph, Idaho.
CLAIM MAP
~~scale 1" = 400'~~
D. M. E. A. 3394


TRIUMPH MINE
Blaine County, Idaho
Claim Map of DMEA Areas
Scale 1" = 400
Plate 1
Base from Company Map
EXPLANATION
Boundry of land covered by Contract Idm—E 696
Suggested boundry of additional land to be included in contract
Proposed Diamond Drill Hole
Chicago (Pat)
Harper Fraction (Ppt)
Silver Bullion (Pat)
Koeninger (Pat)
Lucky Coin
Midland
Harper (Pat)
Eula Fr.
Eula (Pat)
Smolenski (Pat)
Silver
Helen Fraction (Pat)
True Friend (Pat)
May
Mary (Pat)
Haimdal (Pat)
Domski (Pat)
Union (Pat)
Ben Harrison (Pat)
Western (Pat)
Edhen Pasha (Pat)
Fraction
Teller (Pat)
Ora (Pat)
Maylebf (Pat)
Minerva (Pat)
Ivanhoe 1
Ivanhoe 2
Ivanhoe 5
Ivanhoe 6
Kerchum (Pat)
Sunshine
West Shore (Pat)
LaBirge (Pat)
G. E. (Pat)
American Eagle (Pat)
North Star (Pat)
Baby Ethel (Pat)
Dipper (Pat)
Sunday (Pat)
Wednesday (Pat)
Dorothy
Prince
Crown
Beatrice
Caroline
Caroline 1
Caroline 2
Blanche
Triumph 1
Triumph 2
Triumph 3
Triumph 4
Triumph 5
Triumph 6
Triumph 7
Triumph 8
Triumph 9
Triumph 10
Triumph 11
Triumph 13
Triumph 14
Andy 1
Andy 2
Andy 3
Andy 4
Andy 5
Andy 6
Andy 7
Andy 10
Andy 11
Andy 12
Andy 13
Andy 14
Tram 1
Tram 2
Jessie
Jennie
Cecil
Fern
Dora
Proposed Hole No. 1
Proposed Hole No. 2
Proposed Hole No. 3
Proposed Hole No. 4
SHAFT 700-1000 level
700 LEVEL
730 Level
770 Level
800 Level
840 Level
850 Level
900 Level
1000 LEVEL
13,200 N
11 600 N
10 000 N
8400 N
5200 E
6900 E
8400 E
10 000 E
11 600 E
N 13,103 E 6,920
N 12,490 E 7,000
N 12,340 E 5,770
N 11,740 E 5,770
N 11,522 E 4,675
N 11,345 E 6,160
N 10,742 E 5,455
N 9,895 E 5,455
N 9,100 E 6,250
N 7,865 E 6,410
N 12,256 E 7,767
N 12,042 E 7,981
N 12,631 E 8,384
N 12,342 E 8,466
N 11,255 E 8,077
N 11,255 E 8,245
N 11,041 E 8,982
N 10,982 E 9,041
N 10,820 E 9,743
N 10,820 E 10,873
N 11,109 E 10,839
N 11,390 E 11,409
N 11,848 E 11,353
N 11,923 E 11,631
N 12,747 E 10,808
N 13,048 E 10,658
N 13,104 E 9,807
N 12,664 E 9,934
N 10,015 E 9,160
N 9,745 E 9,430
N 9,755 E 9,515
N 9,190 E 9,475
N 9,200 E 9,575
N 8,725 E 9,635
N 8,565 E 9,655
N 8,390 E 8,155
N 8,085 E 8,195


10,400 N
10,000 N
9600 N
9200 N
6800 E
7200 E
7600 E
8000 E
8400 E
8800 E
9200 E
Porphyry
Blebs Qtz on 99
Tr. Zns
Interbedded Alt Lt. rock and dark qtzite & arg., from sta.10039 to 10044.
Hard dense Qtzite.
TRIUMPH VEIN
Proposed Diamond Drill Hole No. 4
Length 100 feet
Approx. Bearing N 60° E
Inclination — 45°
6'-7' shear zone, laced with quartz and calcite stringers minor disseminated sphalerite and galena.
Massive Qtzite.
Bedded Qtzite some folds.
Cr. zone with Qtz & Pbs Tr. Zns.
Shattered Arg.
Cr. Arg & Lm.
Hard Lmy Arg.
Broken Lmy Qtzite.
Massive Qtzite.
Sl. broken to contorted Qtzite.
Sl. broken Qtzite.
Sl. broken Qtzite.
2'-3" crushed zone with 2"-3" Pbs, Zns & Py.
Flat, rolling broken Qtzite.
Qtzite with a few thin Lm. beds.
Flat, hard Qtzite beds.
Qtzite & Lm.
Lm.
Broken, bleached Lm (850 rock)
Contorted, bleached Lm.
Alt. band bleached Lm & Arg.
Flat slip in back
All bands white (bleached) Lm. Arg.
Contorted zone.
Hard, bedded Arg or Qtzite with a few thin bands of Wh (bleached) Lm
Proposed Diamond Drill Hole No. 3
Collar at top of raise
Length 250 feet
Approx. Bearing S 15° W
Inclination + 60°
EXPLANATION
Wall rock
Milligen formation
Porphyry dike
Vein material
Faults
Beds, showing strike and dip
Raise
Shaft
TRIUMPH MINE
Blaine County, Idaho
Geologic Plan
Triumph 1000 Level
Scale 1" = 100'
Compiled from Company 50 scale Geologic Maps
Plate 3



TRIUMPH MINE
Blaine County, Idaho

Geologic Section

Section looking NW through 820 XC

Scale 1" = 200

After section prepared by Company.

Plate 4

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
FINAL REPORT

Docket No. D.M.E.A. ~~4412~~ 3394

CLAIM MAP OF THE TRIUMPH MINE AREA

Blaine County, Idaho

Base From Company Map

0 200 400 800 FEET

DATE - 1956

EXPLANATION

Boundary of land covered by contract Idm - E 696

Boundary of land included in application Docket No. D.M.E.A. 4412

PLATE - I