DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3394

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Routing Slip

To:	500	Date	6/21/54
To:	Oper Com	Date	8-4-54
To:	Oper Com	Date	12-22-55
To:	~~Oper~~ J. E. Johnson	Date	12-23-55
To:		Date	
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(1)

OFFICIAL FILE COPY

Date	Surname	Code
11/21		220.

PROJECT SUMMARY REPORT

By: W. R. Griswold November 21, 1957

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

Operator: Triumph Mining Company
Triumph, Idaho

Operator's Property rights. Owner.

2. Contract dated August 9, 1954.

Work Authorized:

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

Amendments

No. 1 Dated March 1, 1955.

Permits rock bolting in lieu of timbering.
No cost change.

Amendments (Con'd)

No. 2 Dated April 30, 1956.

Reduces sub-level drifting from 1,900 feet to 1,881 feet.
Permits the cutting of a small station at the top of the vertical raise.
No cost change.

Termination Agreement dated May 7, 1956, effective as of April 15, 1956.

Work Completed:

750 feet of crosscut @ $30.00/ft.	$ 22,500.00
352 feet crosscut timbering @ $6.50/ft.	2,288.00
292 rockbolts in crosscut @ $3.84	1,113.60
196 feet vertical raise @ $52.28/ft.	10,246.88
1,593 feet sublevel drifting @ $34.47/ft.	54,910.71
994 feet sublevel drifting timbering @ $6.50/ft.	6,461.00
170 rockbolts in sublevel drifting @ $3.84	652.80
569 feet dip raises @ $30.92/ft.	17,593.48
486 feet dip raises timbering @ $6.50/ft.	3,159.00
Total cost of project	$118,925.47
Government's participation, 50%	59,462.74

Work terminated in April, 1956.

3. Report of review dated June 11, 1956.
   Operator's final report received May 28, 1956
   Field Team's final report received November 7, 1957.

4. Certification of Discovery - None

5. Comments:

The work was done in a highly efficient manner. Results were negative and no more work would be warranted in the same area. However, the Triumph Company has large holdings and further work (possibly in the form of diamond drilling) might be warranted on other veins in the vicinity.

W. R. Griswold

WRG/er
Copy to: Docket
Chron.

[x] Audited Report of Re[illegible]ORK ANALYSIS SHEET - DMEA PROJE[illegible]

[ ] Actual Cost

[ ] Certified

Analysis as of Report of Review
Incl. Voucher for _____

[x] Agreed Unit Costs

Name Triumph Mining Company

Docket No. DMEA-3394

State Idaho

Commodity Lead-Zinc

Idm-E No. 696

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting/ft.	750' @$30. 1,900' @ $34.47	$22,500.00 65,493.00	750' 1,593' 2,343'	$ 22,500.00 54,910.71	$ 77,410.71
2 compartment -300' Raising Dip Raises - 600'	@ $52.28 per foot	15,684.00	196'	10,246.88	10,246.88
Timbering-Sub-level Drs. ~~Shafts~~	@ $30.92	18,552.00	569'	17,593.48	17,593.48
Drifts	1,900' @$6.50/ft. 750'	12,350.00 4,875.00	994' 352' 1,346'	6,461.00 2,288.00	8,749.00
~~Winzes~~ Rock Bolting Drifts	@ $3.84/bolt		460 bolts	1,766.40	1,766.40
~~Drilling~~ Timbering Dip (Specify) Raises	650' @ $6.50/ft.	3,900.00	486'	3,159.00	3,159.00
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$143,354.00		$118,925.47	$118,925.47

Prepared by W. P. Klugescheid/er

71626

☒ Audited 6/11/56. WORK ANALYSIS SHEET - DMEA PROJECT ☐ Actual Cost

☐ Certified Analysis as of 3/30/55 Incl. Voucher for April 1956. ☒ Agreed Unit Costs

Name TRIUMPH MINING COMPANY. Docket No. 3,394

State IDAHO Commodity LEAD-ZINC Idm-E No. 696

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	750 @ 30.00	$22,500.00	750'	$22,500.00	X —
	1900 @ 34.47	65,493.00	1,593'	54,910.71	X —
Raising 2 Compartment Dip Raises Rock Bolting	300' @ 52.28	15,684.00	196'	10,246.88	X —
	600' @ 30.92	18,553.00	569'	17,583.48	X —
~~Shafts~~ Rock Bolting of Shafts	1,900' @ 6.50	12,350.00	T994'	6,461.00	X —
Winzes Drift Timbering or Rock Bolting	750' @ 6.50	4,875.00	T352' 460 Bolts @ 3.84	3,288.00 1,766.40	X — X —
Drilling (Specify) Timbering of Raises, Rock Bolting	600' @ 6.50	3,900.00	T. 486'	3,159.00	X —
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$143,354.00		$118,925.47	118,925.47

Checks audit

Amend #1 incorporated.
Termination Agreement dated May 7, 1956.
Amend. #2 incorporated.

Prepared by W. H. Hugenschmidt

71626

Brunswick Mining Co. - Idaho - 1394.

Stage I. agreed unit costs

(5'x7') (1) 750' Crosscut @ 30.00 ✓ $ 22,500.00

750' Timbering or rock bolting @ 6.50 ✓ 4,875.00

(2) (5'x8') 300' - 2 Compart Vent Raise @ 52.28 ✓ 15,684.00

Stage II

(5'x7') 1,881' / ~~1,900'~~ 19' Sublevel Stoping @ 34.47 ✓ 64,838.07 ~~65,493.00~~

5'x7' Drift enlargement @ $34.47/ft. 654.93

1881' / ~~1900'~~ 19' Timbering or rock bolting @ 6.50 ✓ 12,226.50 ~~12,350.00~~

" " 6.50 123.50

(5'x7') 600' Dip Raise @ 30.92 ✓ 18,552.00

600' Timbering or rock bolting for dip raise @ 6.50 3,900.00

$ 143,354.00

Since about Rock Bolts introduced.
Rbolts @ 3.84/each placed but
not in excess of 6.50 per lin. ft. of
XC or Dr. or dip raise.

~~April~~ ~~June~~ ~~July~~ ~~August~~ ~~September~~ ~~October~~ ~~November~~ ~~Dec~~ Jan 1956 ~~Feb~~ ~~Mar~~ Apr,

~~April~~ ~~June~~ 1955.

750' Spent, $24,500.00

~~110'~~ ~~21,300.00~~

~~600'~~ Drilling @ 30.00 ~~18,000.00~~

~~331'~~ 352' ~~2,488.00~~

~~259'~~ Sinking @ 6.50 ~~2,173.50~~ ~~1,683.50~~

~~166~~ ~~80'~~ 196' Raising @ 52.28 10,246.88 ~~1,182.40~~ ~~5,670.48~~

~~187'~~ Roof Bolting @ 6.50 ~~1,196.00~~ from Before

~~388~~ 553' ~~458'~~ 460' 54,910.71 ~~47,297.92~~ 1766.40

~~Roof Bolts~~ @ 3.84 1593' ~~1,758.72~~ ~~1,439.96~~ ~~1,113.60~~

~~323~~ ~~268'~~ ~~513'~~ ~~738'~~ ~~725'~~ ~~998'~~ ~~1,488'~~ ~~17,663.11~~ ~~25,438.86~~ ~~1,686.81~~ ~~57,891.36~~ ~~x31,884.75~~ ~~39,401.06~~

~~Stoping~~ @ 39.47 ~~1,735.50~~ ~~5,491.50~~ ~~3,230.50~~

~~567'~~ ~~497'~~ ~~574'~~ ~~663'~~ ~~690'~~ ~~811'~~ 994' 646.10 ~~1,749.50~~ ~~357.50~~ ~~x4,309.50~~ ~~3,991.00~~

~~Sub Level Drift~~ Rock bolting @ 6.50

~~1,182'~~

~~140'~~ ~~343'~~ ~~406'~~ ~~554'~~ ~~569'~~ ~~10,605.56~~ ~~24,164.50~~

~~30~~ Drift Raising @ 30.92 ~~4,248.00~~ ~~147.60~~ ~~31,080.00~~ 117,593.48 ~~x12,553.52~~ ~~17,284.28~~

~~140'~~ ~~271'~~ ~~351'~~ ~~416'~~ 486' ~~910.00~~ ~~x2281.50~~

~~50~~ " Timbering or Roof Bolts @ 6.50 ~~1,500.00~~ ~~35,776.06~~ ~~1,891.50~~ ~~3,091.00~~

~~39,556.86~~ 3,159.00

118,925.47 Checks Audit

~~47,603.39~~

~~53,556.79~~

~~70,755.15~~

~~120,147.47~~ ~~99,571.40~~

~~88,558.07~~

~~118,925.47~~ ~~96,850.79~~

~~115,821.94~~

OFFICIAL FILE COPY

Date	Surname	Code
11-21	Chambers	

November 21, 1957

Memorandum

To: Mr. Jay Chambers, Director
Division of Contract Administration and Audit

From: Director, Division of Base Metals

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

The cited project may be regarded as having been finalized. No terminating letter will be sent.

W. R. Griswold

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

8623

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1.		
2.		
3.		
4.		
5.		
FROM:		

FOR: Check items for action desired

____ Action ____ Reply for signature of _____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS:

Only orig & 2 copies of final field team rpt. received from region, 1 cy of USGS: 1 B Mines; orig. copy to division. Covering letr only for Mails and files.

3394

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

Spokesman Review, March 1, 1957

EXTRA COPY
DMEA
RECEIVED MAR 11 1957
DATE INITIALS CODE
3/12 C 220
225

TRIUMPH MINE FORCED TO SHUT

GIMLET, Idaho, Mar. 1. (AP)—Lack of profitable operation was blamed today for an order closing Idaho's famed Triumph mine effective March 15.

Announcement of the closing was in a notice pinned on the workers' bulletin board at the lead and silver mine northeast of here.

No reason was given but in Salt Lake City, George Snyder, a large stockholder in the Triumph Mining company, said further operations "were not profitable under present conditions."

Lewis M. Robinson, mine manager, said company officials would meet with representatives of the International Union of Mine, Mill and Smelter Workers Saturday to discuss the shutdown.

70 Years Old

The Triumph mine was first located in the early 1880s and more than $90,000,000 worth of lead and silver has been taken from it. The Independent mine in the same general area was located about the same time and has produced an estimated $12,000,000 worth of metal. It and the North Star have been operated jointly with Triumph since 1940.

Robinson said the company will retain enough workmen at the mine to keep water out of it, at least for the time being.

Production at Triumph has declined in recent years.

HAILEY TRIUMPH MINE TO CLOSE

HAILEY, Idaho, March 1. (AP)—Operators of the Triumph mine, which in 70 years has produced more than $90,000,000 worth of lead and silver, announced today the mine will be closed, effective March 15.

George Snyder, large stockholder in the Triumph Mining company, said in Salt Lake City that further operations "were not profitable under present conditions."

Affected by the closing order also are the smaller Independent and North Star mines, in this same south central Idaho area, which have been operated by the Triumph mine since 1940.

Dockets No. DMEA-3394 and DMEA-4412

File Copy
Surname

Withdrawn
/s/ Duffy
JB
JE Jones

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

500

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-1194

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 - Gramore 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 (GB)

APPROVED

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

Thor H. Kiilsgaard (GB)
Member, Geological Survey

WRGriswold/er 12/10/56
Copy to: Docket (2)
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

XXXXXXXXXXXXXXXXXX
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.

June 13, 1956

Memorandum

To: Catherine Curtin, Statistics and Control Division

From: Hazel Berry, Operating Committee

Subject: Amendments to Contracts

Attached are the following docket copies of amendments to contracts which have been reviewed and approved by the Commodity Divisions and the Contract Administration and Audit Division. These amendments do not require clearance by Legal.

✓ Triumph Mining Co., DMEA-3394, Idm-E696, Amendment No. 2.

Hogan & Pohl, DMEA-3668, Idm-E811, Amendment No. 3.

Carolina Mining Co., DMEA-3689, Idm-E790, Amendment No. 2.

Hecla Mining Co., DMEA-3896, Idm-E910, Amendment No. 3.

Food Machinery & Chemical Corp., DMEA-3939, Idm-E934, Amendment No. 1.

Food Machinery & Chemical Corp., DMEA-3943, Idm-E932, Amendment No. 1.

Attachments

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

RECEIVED
JUN - 4 1956

May 29, 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 (Terminated)

Dear Mr. Selfridge:

Enclosed are the original and one copy of the Operator's final report, with a sketch and two maps, on a project conducted at the Triumph Mine. It is acceptable to the Field Team.

A recommendation that the project be certified is not contemplated.

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

Enclosure

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

RECEIVED
MAY 28 1956
U. S. G. S.
SPOKANE, WASH.

TRIUMPH MINING COMPANY
TRIUMPH, IDAHO

DMEA PROJECT--FINAL REPORT

This project was started in September 1954 and was terminated April 14, 1956. During this period 750 feet of cross-cut on the main Triumph 700 Level was driven, 196 feet of vertical 2-compartment raise, 1593 feet of sub-level drifting and 640 feet of up dip raising was completed.

The 70-820 Cross-Cut was started at Triumph north coordinate 11255 and east coordinate 8245 and was driven a distance of 750 feet terminating at north coordinate 11700 and east coordinate 8850. Only interbedded limestones and argillites and a few minor faults were cut by this heading.

At north coordinate 11625 and east coordinate 8800 which point is at the end of a 30 foot slusher drift driven from the 70-820 Cross-Cut a two compartment vertical raise was driven a distance of 196 feet or 206 feet above the 700 Level track. At a point 100 feet above the 700 Level track the footwall of a 12 foot crushed zone was cut. This zone consisted of crushed argillite and limestone. Overlying this crushed zone was 4 feet of crushed porphyry which was followed by 4 feet of limestone which in turn was followed by 22 feet of massive porphyry. Everything cut above the porphyry was bedded limestone.

DMEA

At the point in the raise where the crushed zone was intersected a station was cut and a level known as the 540 Level was started. Drifts were run from the station along the footwall of this wide crushed zone both to the NW and to the SE.

The 540 North Drift was driven along the structure a distance of some 890 feet. 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 rare specks of ZnS and pyrites no mineral was cut by this heading. This heading was stopped at north coordinate 11282 and east coordinate 8346.

At north coordinate 11842 and east coordinate 8760 in the 540 North Drift a dog-hole raise into the hangingwall was driven a distance of 31 feet. A long hole into the back of this raise cut porphyry. No mineral of any sort was cut in this raise.

At north coordinate 12031 and east coordinate 8566 in the 540 North Drift a dog-hole raise into the hangingwall was driven a distance of 29 feet. A long hole into the back of this raise also cut porphyry. No mineral of any sort was cut in this raise.

The 540 South Drift was first driven along the structure a distance of 195 feet to north coordinate 11464 and east coordinate 8885. At north coordinate 11500 and east coordinate 8842 a wide crushed zone took off into the hangingwall of this heading, but the footwall structure was followed to the 195 foot mark. This footwall structure narrowed down to a width of one inch and this leg of the heading was stopped. The hangingwall structure was then followed a distance of 508 feet to north coordinate 11130 and east coordinate 9125 where the heading was stopped. The hangingwall structure consists of 2 to 8 feet of crushed argillite and limestone with considerable calcite and some quartz. The last 350 feet showed some traces of ZnS, PbS and pyrites.

At north coordinate 11485 and east coordinate 8874 in the 540 South Drift an up dip raise was run. This raise followed the footwall of a structure up dip for a distance of 130 feet. The structure consists of 2 to 3 feet of very tight gouge - crushed argillite and limestone - no mineral. First 30 feet was steep but the last 100 feet

TRIUMPH MINING COMPANY
TRIUMPH, IDAHO

DRIFT PROJECT--TIMES REPORT

This project was started in September 1954 and was terminated April 14, 1956. During this period 750 feet of cross-cut on the main Triumph 700 Level was driven, 198 feet of vertical 2-compartment raise, 1593 feet of sub-level drifting and 640 feet of up dip raising was completed.

The 70-830 Cross-Cut was started at Triumph north coordinate 11555 and east coordinate 5845 and was driven a distance of 750 feet terminating at north coordinate 11750 and east coordinate 6850. Only interbedded limestone and argillite and a few minor faults were cut by this heading.

At north coordinate 11623 and east coordinate 6500 which point is at the end of a 30 foot slanter drift driven from the 70-830 Cross-Cut a two compartment vertical raise was driven a distance of 193 feet or 205 feet above the 700 level branch. At a point 100 feet above the 700 Level branch the footwall of a 12 foot crushed zone was cut. This zone consisted of crushed argillite and limestone. Overlying this crushed zone was 4 feet of crushed porphyry which was followed by 4 feet of limestone which in turn was followed by 22 feet of massive porphyry. Everything cut above the porphyry was bedded limestone.

At the point in the raise where the crushed zone was intersected a station was cut and a level known as the 840 Level was started. Drifts were run from the station along the footwall of this wide crushed zone both to the NW and to the SE.

The 840 North drift was driven along the structure a distance of some 690 feet. 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 rare specks of ZnS and pyrites no mineral was cut by this heading. This heading was stopped at north coordinate 11252 and east coordinate 6944.

At north coordinate 11342 and east coordinate 6940 in the 840 North drift a dog-hole raise into the footwall was driven a distance of 31 feet. A long hole into the back of this raise cut porphyry. No mineral of any sort was cut in this raise.

At north coordinate 11031 and east coordinate 6955 in the 840 North drift a dog-hole raise into the hangingwall was driven a distance of 29 feet. A long hole into the back of this raise also cut porphyry. No mineral of any sort was cut in this raise.

The 840 South drift was first driven along the structure a distance of 195 feet to north coordinate 11454 and east coordinate 6944. At north coordinate 11430 and east coordinate 6942 a wide crushed zone took off into the hangingwall of this heading, but the footwall structure was followed to the 195 foot mark. This footwall structure narrowed down to a width of one inch and this leg of the heading was stopped. The hangingwall structure was then followed a distance of 300 feet to north coordinate 11130 and east coordinate 6129 where the heading was stopped. The hangingwall structure consists of 2 to 8 feet of crushed argillite and limestone with considerable calcite and some quartz. The last 250 feet showed some traces of ZnS, FeS and pyrites.

At north coordinate 11455 and east coordinate 6844 in the 840 South Drift an up dip raise was run. This raise followed the footwall of a structure up dip for a distance of 120 feet. The structure consists of 2 to 3 feet of very slight gouge - crushed argillite and limestone - no mineral. First 20 feet was seen but the last 100 feet

nearly flat. At the point where it flattened a steeper hangingwall gouge took off into the back. At a point in this raise 100 feet up dip from the chute a vertical raise was put up a distance of 32 feet. This vertical raise cut the hangingwall structure at a point 26 feet up. At this point the hangingwall structure consisted of 2 to 3 feet of crushed argillite and limestone with considerable calcite and some quartz. At the point where the hangingwall structure took 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 consisted of 2 to 3 feet of very tight crushed argillite and limestone with some calcite. Porphyry was seen in the back at the face.

At north coordinate 11365 and east coordinate 8910 an up dip raise, 54-894, was started from the 540 South Drift. This raise followed the structure up dip a distance of 46 feet. The first 40 feet the structure consisted of 4 to 6 feet of crushed argillite and limestone containing a narrow seam of mineral - PbS, ZnS and pyrites. The last 5 feet a small fault crossed the zone and the structure narrowed down to 4 to 5 inches. At a point 35 feet up dip from the chute an intermediate was run in a SE direction on the structure a distance of 151 feet. The structure in this intermediate consisted of 4 to 5 feet of crushed argillite and limestone with a small - 4 to 5 inch - zone of very spotty mineralization the entire distance. Mineralization consists of PbS, ZnS and pyrites.

At north coordinate 11212 and east coordinate 9000 in the 540 South Drift and up dip raise - 54-900, was run up dip on the structure a distance of 71 feet. The structure in this heading consisted of 2 to 4 feet of crushed argillite and limestone with an occasional trace of ZnS.

The following is a list of all the samples taken during the course of this project showing sample number, location, length, and values. Au and Ag values are in oz's per ton and Pb and Zn in %.

540 LEVEL ASSAYS

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
		540 South Drift				
2-9687	Lower Face	4	Tr.	Tr.	Tr.	Tr.
2-9746	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9751	"	10	Tr.	Tr.	Tr.	Tr.
2-9697	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9757	Face	9	Tr.	Tr.	Tr.	Tr.
2-9761	"	10	Tr.	Tr.	Tr.	Tr.
2-9765	"	9	Tr.	Tr.	Tr.	Tr.
2-9769	Upper "	6	Tr.	0.5	0.2	Tr.
2-9776	" "	5-1/2	Tr.	Tr.	Tr.	Tr.
2-9802	Face	8	Tr.	Tr.	Tr.	Tr.
2-9783	"	9	Tr.	Tr.	Tr.	Tr.
2-9786	Upper "	4-1/2	Tr.	Tr.	Tr.	Tr.
2-9790	" "	6	Tr.	Tr.	Tr.	Tr.
2-9795	Center "	1	Tr.	Tr.	Tr.	0.5
2-9799	" "	3	Tr.	Tr.	Tr.	0.3
2-9854	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9982	" "	5	Tr.	Tr.	Tr.	Tr.
2-9846	" "	5	Tr.	Tr.	Tr.	Tr.
2-9847	" "	5	Tr.	Tr.	Tr.	Tr.

nearly flat. At the point where it flattened a steeper footwall goes back into the back. At a point in this raise 100 feet up dip from the crude a vertical raise was put up a distance of 30 feet. This vertical raise cut the footwall structure at a point 26 feet up. At this point the footwall structure consisted of 2 to 3 feet of crushed argillite and limestone with considerable calcite and some quartz. At the point where the footwall structure took off into the back 30 feet up from the crude the back was followed down and this structure followed for a distance of 150 feet. This structure consisted of 2 to 3 feet of very tight crushed argillite and limestone with some calcite. Porphyry was seen in the back at the face.

At north coordinate 11355 and east coordinate 8210 on up dip raise, 34-8?4, was started from the 540 South Drift. This raise followed the structure up dip a distance of 45 feet. The first 40 feet the structure consisted of 4 to 6 feet of crushed argillite and limestone containing a narrow seam of mineral - Pb, Zn and pyrites. The last 5 feet a small fault crossed the zone and the structure narrowed down to 4 to 5 inches. At a point 35 feet up dip from the crude an intermediate was run in a SE direction on the structure a distance of 121 feet. The structure in this intermediate consisted of 4 to 5 feet of crushed argillite and limestone with a small - 4 to 5 inch - zone of very smoky mineralization the entire distance. Mineralization consists of Pb, Zn and pyrites.

At north coordinate 11232 and east coordinate 9000 in the 540 South Drift and up dip raise - 34-900, was run up dip on the structure a distance of 71 feet. The structure in this heading consisted of 2 to 4 feet of crushed argillite and limestone with an occasional trace of Zn.

The following is a list of all the samples taken during the course of this project showing sample number, location, length, and values. Au and Ag values are in oz/ton and Pb and Zn in %.

540 LEVEL ASSAYS

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
		540 South Drift				
2-9047	Lower Face	4	Tr.	Tr.	Tr.	Tr.
2-9146	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9251	"	10	Tr.	Tr.	Tr.	Tr.
2-9427	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9757	Face	9	Tr.	Tr.	Tr.	Tr.
2-9761	"	10	Tr.	Tr.	Tr.	Tr.
2-9765	"	9	Tr.	Tr.	Tr.	Tr.
2-9769	Upper "	6	Tr.	0.5	0.2	Tr.
2-9776	" "	5-1/2	Tr.	Tr.	Tr.	Tr.
2-9802	Face	6	Tr.	Tr.	Tr.	Tr.
2-9763	"	9	Tr.	Tr.	Tr.	Tr.
2-9786	Upper "	4-1/2	Tr.	Tr.	Tr.	Tr.
2-9790	" "	6	Tr.	Tr.	Tr.	Tr.
2-9793	Center "	1	Tr.	Tr.	Tr.	0.5
2-9799	" "	3	Tr.	Tr.	Tr.	0.3
2-9834	Upper "	6	Tr.	Tr.	Tr.	Tr.
2-9982	" "	5	Tr.	Tr.	Tr.	Tr.
2-9846	" "	5	Tr.	Tr.	Tr.	Tr.
2-9847	" "	5	Tr.	Tr.	Tr.	Tr.

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
2-9991	Center Face	6	Tr.	Tr.	Tr.	Tr.
2-9995	Upper "	7	Tr.	0.2	0.2	Tr.
3-108	" "	5	Tr.	Tr.	Tr.	Tr.
3-112	Center "	4-1/2	Tr.	Tr.	Tr.	Tr.
3-121	Upper "	7	Tr.	Tr.	Tr.	Tr.
3-128	" "	5	Tr.	0.3	Tr.	Tr.
3-134	" "	4	Tr.	Tr.	Tr.	Tr.
A	Center "	1-1/2	Tr.	0.7	0.6	2.4
3-139	" "	1-1/2	Tr.	0.6	0.5	1.4
3-141	" "	2-1/2	Tr.	0.5	0.5	1.5
B	" "	1—1/2	Tr.	0.8	0.6	1.5
C	Upper "	1-1/2	Tr.	0.4	0.3	1.3
2-8858	" "	1	Tr.	4.4	0.8	2.1
2-8859	" "	1-1/2	Tr.	1.0	1.0	2.8
2-8860	" "	1-1/2	Tr.	3.6	4.2	5.8
3-160	" "	1-1/2	Tr.	1.2	1.3	2.7
3-242	" "	1	Tr.	0.2	0.2	2.0
3-246	Center Face	4	Tr.	Tr.	Tr.	0.3
3-250	" "	4	Tr.	0.2	Tr.	Tr.
3-256	" "	1-1/2	Tr.	0.3	Tr.	1.5
3-257	" "	4	Tr.	0.6	0.2	Tr.
3-265	Upper "	4	Tr.	0.3	0.2	1.0
3-273	" "	1-1/2	Tr.	Tr.	Tr.	Tr.
3-279	" "	3	Tr.	0.2	Tr.	Tr.
3-281	" "	3	Tr.	0.3	Tr.	1.0
3-291	Center "	2	0.01	2.0	1.9	3.3
3-300	" "	2-1/2	Tr.	Tr.	Tr.	1.2
3-402	" "	4	Tr.	Tr.	Tr.	1.2
		540 North Drift				
2-9747	Lower Face	6	Tr.	Tr.	Tr.	Tr.
2-9822	" "	6	Tr.	Tr.	Tr.	0.5
2-9825	" "	6	Tr.	Tr.	Tr.	Tr.
2-9827	Upper "	4	Tr.	0.1	Tr.	0.3
2-9903	Center "	5	Tr.	Tr.	Tr.	Tr.
2-9908	Lower "	8	Tr.	Tr.	Tr.	Tr.
2-9909	" "	8	Tr.	Tr.	Tr.	Tr.
2-9920	Center "	5	Tr.	Tr.	Tr.	Tr.
2-9835	Upper "	7	Tr.	Tr.	Tr.	Tr.
2-9837	Lower "	5	Tr.	Tr.	Tr.	Tr.
2-9838	" "	3-1/2	Tr.	Tr.	Tr.	Tr.
2-9839	Upper "	5	Tr.	Tr.	Tr.	Tr.
2-9937	" "	4	Tr.	Tr.	Tr.	Tr.
2-9943	" "	1	Tr.	Tr.	Tr.	Tr.
2-9945	Center "	3	Tr.	Tr.	Tr.	Tr.
2-9954	" "	2	Tr.	Tr.	Tr.	Tr.
2-9959	" "	4	Tr.	Tr.	Tr.	Tr.
2-9964	" "	5	Tr.	Tr.	Tr.	Tr.
2-9972	" "	4	Tr.	Tr.	Tr.	Tr.
2-9976	Lower "	8	Lost			
2-9979	Center "	5	Tr.	Tr.	Tr.	Tr.
2-9981	" "	2	Tr.	Tr.	Tr.	Tr.

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
2-9848	H.W.Raise 11'-17'	6	Tr.	0.2	0.2	Tr.
3-119	Upper Face	6	Tr.	Tr.	Tr.	Tr.
3-123	" "	6	Tr.	Tr.	Tr.	Tr.
3-127	Face	8	Tr.	0.1	Tr.	Tr.
3-136	"	8	Tr.	Tr.	Tr.	Tr.
3-138	Upper "	5-1/2	Tr.	Tr.	Tr.	Tr.
3-143	" "	5	Tr.	Tr.	Tr.	Tr.
3-147	Upper "	5	Tr.	Tr.	Tr.	Tr.
3-154	" "	5	Tr.	Tr.	Tr.	Tr.
3-158	" "	4	Tr.	0.2	Tr.	Tr.
3-163	" "	5	Tr.	Tr.	Tr.	Tr.
3-169	" "	4-1/2	Tr.	Tr.	Tr.	Tr.
3-171	Face	8	Tr.	0.1	Tr.	Tr.
3-181	Upper "	3-1/2	Tr.	Tr.	Tr.	Tr.
3-190	" "	5	Tr.	0.1	Tr.	Tr.
3-224	" "	5-1/2	Tr.	Tr.	Tr.	Tr.
3-237	" "	6-1/2	Tr.	Tr.	Tr.	Tr.
3-241	" "	4	Tr.	0.2	Tr.	Tr.
3-253	" "	7-1/2	Tr.	Tr.	Tr.	0.1
3-259	Center "	2-1/2	Tr.	0.2	Tr.	Tr.
3-269	Upper "	4-1/2	Tr.	0.1	Tr.	Tr.
		54-887 Raise				
2-9865	Center Face	1	Tr.	Tr.	Tr.	Tr.
2-9809	" "	6	Tr.	Tr.	Tr.	Tr.
2-9810	Lower "	3	Tr.	Tr.	Tr.	0.5
2-9812	" "	4	Tr.	Tr.	Tr.	Tr.
2-9882	Upper "	7	Tr.	Tr.	Tr.	Tr.
2-9885	Muck Grab		Tr.	Tr.	Tr.	Tr.
2-9813	Lower Face	4	Tr.	Tr.	Tr.	Tr.
2-9817	" "	2	Tr.	0.2	Tr.	Tr.
2-9821	Upper "	6	Tr.	Tr.	Tr.	0.6
2-9823	Lower "	2-1/2	Tr.	Tr.	Tr.	Tr.
209826	" "	3	Tr.	Tr.	Tr.	Tr.
2-9828	" "	3-1/2	Tr.	0.2	Tr.	0.4
2-9829	Center "	4	Tr.	Tr.	Tr.	Tr.
		(Vertical Raise)				
2-9900	North Wall -0'+o6'	6	Tr.	Tr.	Tr.	Tr.
2-9830	" " 6'-11'	5	Tr.	Tr.	Tr.	Tr.
2-9831	" " 11'-14'	3	Tr.	0.1	Tr.	Tr.
2-9905	" " 21'-26'	5	Tr.	0.1	Tr.	Tr.
		(Along H.W. from 9th Set)				
2-9833	Upper Face	3	Tr.	Tr.	Tr.	Tr.
2-9834	Face	7	Tr.	Tr.	Tr.	Tr.
2-9930	"	7	Tr.	Tr.	Tr.	0.6
2-9840	Upper Face	3	Tr.	Tr.	Tr.	Tr.
2-9841	" "	3	Tr.	Tr.	Tr.	Tr.
2-9842	Center Face	4	Tr.	Tr.	Tr.	Tr.

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
2-9843	Center Face	4	Tr.	Tr.	Tr.	Tr.
2-9946*	" "	1-1/2	Tr.	Tr.	Tr.	Tr.
2-9951	"	7	Tr.	Tr.	Tr.	Tr.
2-9957	"	7	Tr.	Tr.	Tr.	Tr.
2-9965	"	10	Tr.	0.2	Tr.	Tr.

* Crushed Porphyry

54-894 Raise

2-8861	Upper Face	1-1/2	Tr.	0.4	0.4	1.4
3-165	Center "	2-1/2	Tr.	1.0	0.5	3.2
2-8862	" "	1	Tr.	0.8	0.8	1.8
2-8863	" "	2	Tr.	0.1	Tr.	0.8
3-173	Lower Face	3-1/2	Tr.	0.7	0.4	1.7
3-174	" "	4-1/2	Tr.	0.4	0.3	1.6

54-894 Int. So.

2-8864	Lower Face	5	Tr.	0.7	0.6	1.5
2-8865	" "	4	Tr.	0.2	0.2	1.4
2-8866	" "	3	Tr.	0.5	0.3	1.7
3-180	Center "	2	Tr.	4.6	1.1	2.5
3-184	Lower "	5-1/2	Tr.	Tr.	Tr.	Tr.
3-188	Center "	4-1/2	Tr.	Tr.	Tr.	Tr.
3-189	" "	1	Tr.	1.0	1.1	2.7
2-8867	"	7	Tr.	Tr.	Tr.	0.3
3-192	Center "	5	Tr.	0.3	0.2	0.8
2-8868	" "	1-1/2	Tr.	0.5	0.3	1.6
3-195	Upper "	4	Tr.	0.8	0.8	2.9
3-200	" "	5	Tr.	2.0	1.6	3.3
3-36	" "	4	Tr.	0.5	0.3	2.5
3-205	" "	5	Tr.	12.2	10.1	5.2
3-40	" "	5	Tr.	6.1	6.4	3.0
3-211	Center Up-Dip Wall	4-1/2	Tr.	0.2	Tr.	0.8
3-212	Upper Face	6-1/2	Tr.	1.6	0.8	3.7
3-44	" "	6-1/2	Tr.	0.4	0.2	2.3
3-215	Face	9	Tr.	0.6	Tr.	2.5
3-218	Upper Face	6	Tr.	Tr.	Tr.	1.1
3-221	" "	5	Tr.	0.9	0.5	2.2
3-223	" "	5	Tr.	0.3	Tr.	2.2
3-227	Upper Face	5-1/2	Tr.	Tr.	Tr.	Tr.
3-229	" "	5	Tr.	0.3	0.2	1.2
3-230	" "	3	Tr.	0.6	0.2	1.2
3-231	" "	4-1/2	Tr.	0.1	Tr.	1.4
3-232	" "	4	Tr.	0.1	Tr.	Tr.
3-234	" "	4	Tr.	0.5	0.2	1.9
3-236	Center Face	2	Tr.	0.1	Tr.	1.3
3-238	" "	1-1/2	Tr.	0.2	Tr.	Tr.

54-900 Raise

3-288	Upper Face	1-1/2	Tr.	0.8	0.2	1.1
3-292	" "	3	Tr.	Tr.	Tr.	Tr.
3-294	" "	4-1/2	Tr.	0.5	Tr.	1.3
3-297	Center "	4	Tr.	Tr.	Tr.	Tr.

SAMPLE NO.	LOCATION	LENGTH-FEET	Au	Ag	Pb	Zn
3-299	Center Face	3	Tr.	Tr.	Tr.	0.6
3-319	" "	5-1/2	Tr.	Tr.	Tr.	Tr.
		Test Hole No. 1				
0'-5'			Tr.	Tr.	Tr.	Tr.
5'-10'			Tr.	Tr.	Tr.	Tr.
10'-15'			Tr.	Tr.	Tr.	Tr.
15'-20'			Tr.	Tr.	Tr.	Tr.
20'-25'			Tr.	Tr.	Tr.	Tr.
		Test Hole No. 2				
5'-10'			Tr.	Tr.	Tr.	Tr.
10'-15'			Tr.	Tr.	Tr.	Tr.
15'-20'			Tr.	Tr.	Tr.	Tr.
20'-25'			Tr.	Tr.	Tr.	Tr.
		Test Hole No. 3				
0'-5'			Tr.	Tr.	Tr.	Tr.
5'-10'			Tr.	0.3	Tr.	Tr.
10'-15'			Tr.	Tr.	Tr.	Tr.
15'-20'			Tr.	Tr.	Tr.	Tr.
		Test Hole No. 4				
0'-6'			Tr.	Tr.	Tr.	Tr.
6'-11'			Tr.	Tr.	Tr.	Tr.
11'-15'			Tr.	Tr.	Tr.	Tr.
15'-21'			Tr.	Tr.	Tr.	Tr.

In as much as no ore was found by this project it was decided by all concerned to stop all work April 14, 1956. It was felt that the 307 feet of drifting left to be done would not improve the picture.

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

RECEIVED
JUN - 1 1956

May 28, 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:

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

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

Enclosures

cc: Finance Office w/encls.
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
MAY 25 1956

May 21, 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-8696

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 I, NW Dist.

Wing 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

May 9, 1956

RECEIVED
MAY 14 1956

Mr. I. 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)
USGS (AD)
Alvord

File Copy
Surname

Chambers
Selfridge
Fitzsimons
Montenegro

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

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-3696

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 (GCS)

Enclosures

WRGriswold/er 5/4/56

APPROVED:

P. F. Yopes (PFY)
Member, Bureau of Mines

N. E. Nelson (NEN)
Member, Geological Survey

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

P.C.S.

File Copy
Surname
Griswold
Chambers
Selfridge

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

500

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Co., Triumph Mine
Blaine County, Idaho
Contract No. Ida-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 have always felt that a broad diamond drilling program, based upon a comprehensive geological study, would have been worthwhile at this property.

Sincerely yours,

Chairman, Operating Committee

Enclosures

WRGriswold/er 5/4/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

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

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

File Copy
Surname

Withdrawn
/s/ Duffudge
GEB
JE Jensen

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

500

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-3194

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.

File Copy
Surname
Nelson
Yoges

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

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

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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.

Stage II (continued)

	Authorized Feet	Completed Feet
Dip raises	600	
54-887 raise		312
54-894 raise		197
Doghole No. 1 raise		31
Doghole No. 2 raise		29
		569
Timbering and/or rock bolting	1,900	
540 level north, 170 bolts (347 feet)		170 bolts
540 level north, timber		269
540 level south		706
540 level enlargement		19
		994 feet
		170 bolts
Timbering dip raises	600	
54-887 raise		291
54-894 "		195
		486

Recapitulation

Stage I		
Main crosscut	750	750
2-compartment vertical raise	300	196
Timbering main crosscut	750	
Timber 352 feet		352
290 bolts (184 feet)		290 bolts
Stage II		
Sublevel drifting	1,900	1,593
Dip raises	600	569
Timbering sublevel drifts	1,900	
Timber 994 feet		994
170 bolts (347 feet)		170 bolts
Timbering dip raises	600	486

The 71 feet for the 54-900 raise is disallowed because the Operator was advised prior to commencing the raise that it would not be approved.

Nowhere in the project workings was mineralization of near ore grade encountered. Generally, ore is found where the vein structure is steep. The vein where exposed in the drifts and raises was relatively flat, seldom exceeding 20 degrees.

A certification of discovery will not be recommended.

John D. Bardill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
Turner
AD
JDB/he

3394

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 6-7

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. Docket Control Mails and Files
5. Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Brust

2.

3.

4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert E. Adams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN - 7 1956

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
May 1, 1956

Revised Copy

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Bardill, Bureau of Mines

Subject: Final inspection report, Docket No. DMEA-3394 (lead-zinc), Triumph Mining Company, Triumph Mine, Blaine County, Idaho, Contract No. Idm-E696

A final inspection of this project was made April 19, 1956 with Mr. Carroll Livingston, mine superintendent.

The project had been recessed April 14, pending approval of a request of the Operator and the Field Team to Washington to terminate the contract by mutual consent before completion of the work because it was agreed that the target area had been adequately prospected without success. A termination agreement dated April 15, 1956 was approved by Washington and forwarded to the Operator.

The following work was completed and settlement should be made on this basis:

	Authorized Feet	Completed Feet
Stage I		
Main crosscut	750	750
2-compartment vertical raise	300	196
Main crosscut	750	
Timber		352
290 bolts (184 feet)		290 bolts
Stage II		
Sublevel drifting	1,900	
540 level north		873
540 level south		701
540 level enlargement at raise		19
		1593

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

RECEIVED
MAY 21 1956

1201 N. Division St.
Spokane 2, Washington
May 1, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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Stage I	Authorized Feet	Completed Feet
Main Crosscut	750	750
2-compartment vertical raise	300	196
Stage II		
Sublevel drifting	1,900	
540 level north		873
540 level south		701
540 level enlargement at raise		19
		1593
Dip raises	600	
54-887 raise		312
54-894 raise		197
Doghole No. 1 raise		31
Doghole No. 2 raise		29
		569

	Authorized Feet	Completed Feet
Stage II (continued)		
Timbering and/or rock bolting	1,900	
540 level north, 170 bolts (347 feet)		170 bolts
540 level north, timber		269
540 level south		706
540 level enlargement		19
		994 feet
		170 bolts
Main crosscut	750	
Timber		352
290 bolts (184 feet)		290 bolts
Dip raises	600	
54-887 raise		291
54-894 "		195
		486

Recapitulation

Stage I		
Main crosscut	750	750
Two-compartment vertical raise	300	196
Stage II		
Sublevel drifting	1,900	1,593
Dip raises	600	569
Timbering, main crosscut		
Timber 352 feet)		352
290 bolts (184 feet))	750	290 bolts
Timbering, sublevel drifts	1,900	
Timber 994 feet		994
170 bolts (347 feet)		170 bolts
Timbering, dip raises	600	486

The 71 feet for the 54-900 raise is disallowed because the Operator was advised prior to commencing the raise that it would not be approved.

Nowhere in the project workings was mineralization of near ore grade encountered. Generally, ore is found where the vein structure is steep. The vein where exposed in the drifts and raises was relatively flat, seldom exceeding 20 degrees.

A certification of discovery will not be recommended.

cc: Orig. & 3 cys - Wash.
USGS (2)
DMEA--M/D--AD
Turner

John D. Bardill

File Copy
Surname

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

500

May 1, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

Subject: Preparation of Mutual Termination Agreement for Docket No. DMEA-3394 (Lead-Zinc), Triumph Mining Company, Triumph Mine, Blaine County, Idaho, Contract No. Idm-E696.

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

RECEIVED
APR 23 1956

April 17, 1956

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. Frykland, Jr., Member
U. S. Geological Survey

cc: DMEA (2)
USBM (2)
USGS (AB)
Quinlan

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

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

Enclosure 1 (in dup.)

cc: USBM (2)
USBM (AD)
Quinlan

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

RECEIVED
APR 23 1956

TRIUMPH MINING COMPANY

TRIUMPH, IDAHO

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

April 13, 1956

Mr. A. E. Weissenborn, Exec. 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:

DMEA

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. S.
SPOKANE, WASH.

LMR:mw

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
[redacted]
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-339A (Lead-Zinc)
Triumph Mine
Blaine County, Idaho
Exploration Project Contr. No. Ida-2696

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 E 11,214 and N 9,000.

We find little justification for approving the use of contract funds for such a raise. The 54-89A 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 54-89A 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 54-887 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

RECEIVED
APR 16 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 3, 1956

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

DMEA

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 6 1956
SPOKANE, WASH.

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 5, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

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

A routine inspection of the Triumph exploration project was made March 22, 1956, in company with Mr. Carroll Livingston, mine superintendent. At the time of the inspection, the following work had been completed:

Stage I	Authorized (max.)	Completed
(1) Crosscut on 700 level	750 feet	750 feet
(2) Vertical raise from 750 level	300 feet	196 feet

(Stage I of project completed June 1955)

Stage II		
(1) Sublevel drifting (540 level)	1,900 feet	1,265 feet
(2) Raises from 540 level	600 feet	569 feet

At the time of the inspection the Operator was working both the 540 level drift north and 540 level drift south on a two-shift basis. At the present rate of advance the Operator expects to complete the project about June 1, 1956.

The geology of the 540 level and the raises driven from the level to test the structure are shown on the map accompanying this memorandum.

As is evident on the accompanying map, the shear zone tested on the 540 level is a strong structure. In places it contains fair amounts of quartz, calcite and pyrite, and sparse amounts of sphalerite and galena. At no place is the concentration of sphalerite and galena sufficient to be of economic interest.

The best showing of sphalerite and galena is in the 54-894 intermediate "raise" from the 54-894 raise. Samples taken by the Operator from the intermediate "raise" indicate an average grade of Tr gold, 1.1 ounces silver per ton, 0.7 percent lead, and 1.3 percent zinc. A sample taken during the inspection at a point 123 feet south of the main raise where there was better than average sphalerite and galena assayed no gold, 0.4 ounce of silver per ton, 1.1 percent lead, and 1.9 percent zinc. This sample was cut over a width of 3.5 feet.

At the time of the inspection samples were also cut at the faces of the 540 level north and south drifts. The sample taken at the north face, 3.4 feet wide, assayed no gold, 0.05 ounce of silver per ton, no lead, and a trace of zinc. The sample taken at the south face, 4.4 feet wide, assayed no gold, 0.05 ounce of silver per ton, no lead, and 0.1 percent zinc.

I have plotted the boundary of the contract area on the map of the 540 level. It will be noted that the workings are approaching the boundary of the contract area. I was not aware of this condition at the time of the inspection and it was not until April 3 during the course of a telephone conversation with Mr. Livingston that I learned of it. Mr. Livingston reported that the north drift had been advanced to within 40 feet of the boundary line. I told him that work on this heading should stop immediately.

Attachment 1

Distribution:
DMEA (Orig. and 3)
USGS (2)
USBM (AD)
Docket
Quinlan

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, 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:

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

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

Enclosures

cc: USBM (2)
USBM (AD)
Quinlan

(5)

RECEIVED
FEB - 3 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

January 24, 1956

DMEA

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.~~

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JAN 23 1956

January 20, 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-8696

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 dantract 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

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)

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 1/25/56

REFERRED TO:

1. Mails & Files
2.
3.
4.

FOR:

	Action		Recommendation
	Approval		Record
	Comment		of
	Conference		Referring
	Consideration		to
X	Filing		Reply for signature of
	Instructions		
	Investigation		Rewriting
	Initials		Signature
	Mailing		Suggestions
	Previous correspondence		Your information

REMARKS: Please attached unsigned amended contract with other unsigned cc's in docket

Check (X) before the items needing attention.

W. R. [illegible]

Initials of sender.

GPO 16—63815-1

bjl

Operator's 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

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

TRIUMPH MINING COMPANY
(Operator)

By C D Mitchell

Administrator, Defense Minerals
Exploration Administration

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.

.....

[CORPORATE SEAL]

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

AMENDED

EXPLORATION PROJECT CONTRACT
Triumph Mining Company
Docket No. DMMA-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
Eula	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. DMRA-3394

ANNEX II

WHEREAS:

The parties to this Amended Contract are parties to a contract dated August 9, 1954, executed on Form NF-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
TRIBOPH MINING COMPANY
DOCKET NO. DMMA-3394
AMENDED CONTRACT NO. [illegible]-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 900 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 900 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

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

RECEIVED
OCT 24 1955

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, R18E, 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 seeItem Nol 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
$30.01 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]

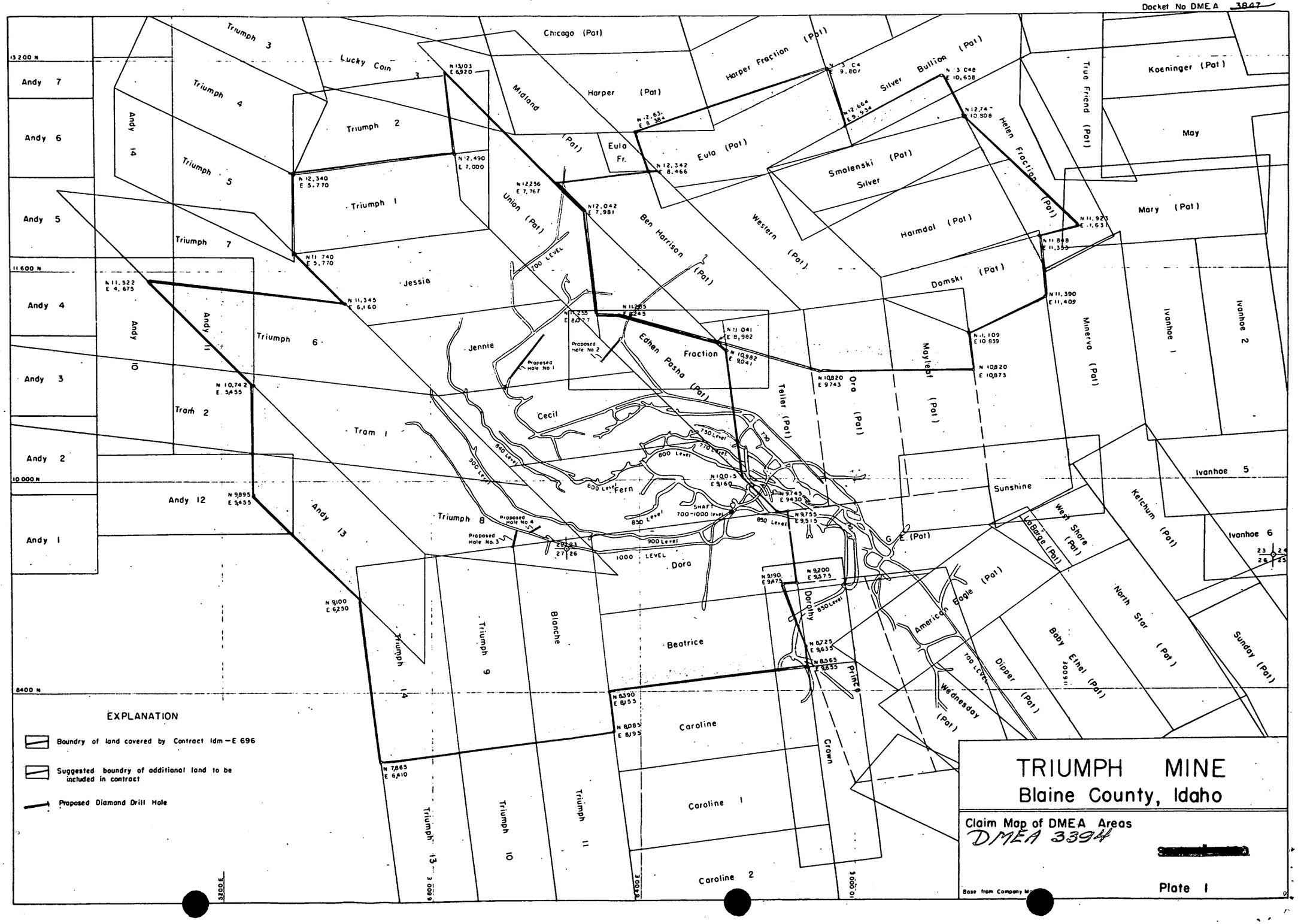
[Seal]

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 DMEA 3847



FILE COPY
SURNAME:

Fitzpatrick
Galbraith
Lakeman
Kilsgaard
Selfridge

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

JAN 20 1956

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

Re: Docket No. DMEA-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho
Contract No. Idm-5494

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,

C. O. Wheeler
(By ESF)
Administrator

WRGriswold/FEJohnson/bih
1/20/56
cc to: Docket
Admr. Reading File
Operating Committee
Mr. Bishop
Mr. Kiilsgaard
Mr. Griswold
Mr. Johnson
Reg. I (NW Dist.) (2)

P.G.B.

File Copy
Surname
Griswold

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

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

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

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
Base Metals
Mr. Bishop
Mr. Kiilsgaard
Reg. I (NW Dist) (2)
Chron.

File Copy
Surname
Griswold

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

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

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

Dear Mr. Robinson:

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

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

Sincerely yours,

Administrator

WRGriswold/bjl (1/19/56)

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

File Copy
Surname
Selfridge

500

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

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-2696

Dear Mr. Weissenborn:

We have the January 11 letter from your office enclosing the unsigned copies of the proposed amended contract for the cited Operator. Since it is out of the question that a separate contract be issued covering only the recent proposal, you may advise this company that its application for diamond drilling is considered as being withdrawn.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (SHB)

APPROVED:

O. M. Bishop (SHB)
Member, Bureau of Minos

Ivor H. Kiilsgaard (SHB)
Member, Geological Survey

WRGriswold/bjl (1/17/56)

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

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

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

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

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

Enclosures

cc: 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

January 5, 1956

RECEIVED
JAN 16 1956

Mr. Wing G. Agnew, Member
Field Team, Region I, M.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:mm

Encls.

DMEA

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

December 29, 1955

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. Ida-2696

Dear Mr. Robinson:

Enclosed are the original and five copies of proposed Amended Contract Ida-2696 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), USBM (AD), Quinlan

Docket copy

MF-200A
(Revised June 1954)

Docket No. DMEA 3394

Commodity Lead-zinc

Contract No. Idm-E Ida-2696

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

It is agreed this 2 3 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."

16—70618-1

(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 [illegible] 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

[redacted]
(Operator)

By C P Mittendorf
Administrator, Defense Minerals
Exploration Administration

By .....

.....

Rubin
Sawyer
Appd. Sol. Off.
Approved
Fisher
Chamberlin

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.

.....

[CORPORATE SEAL]

Selfridge
Johnson

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

AMENDED

EXPLORATION PROJECT CONTRACT
Triumph Mining Company
Docket No. DMRA-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
Eula	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
Ferh	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. DMEA-3394

ANNEX II

WHEREAS:

The parties to this Amended Contract are parties to a contract dated August 9, 1954, executed on Form MF-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 incomplete 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
TRIUMPH MINING COMPANY
DOCKET NO. IMEA-3394
AMENDED CONTRACT NO. Idm-E696

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 900 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 900 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 18E, 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]

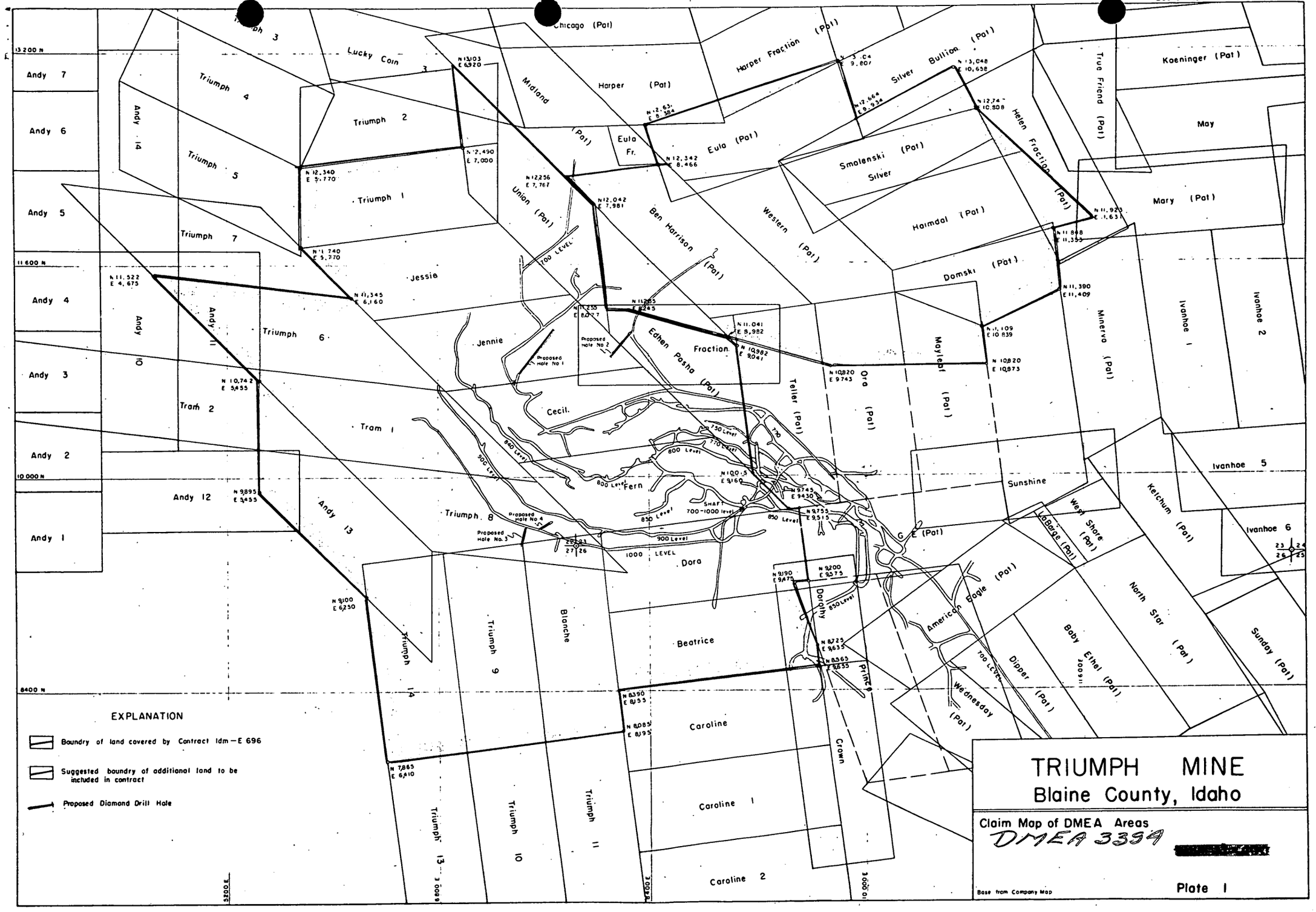
[Seal]

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 DMEA ~~3847~~



File Copy
Surname
Griswold
Fisher
Chambers
Selfridge
Kilsgaard

500

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

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

DEC 23 1955

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 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 (GCS)

Enclosures

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

APPROVED:

/s/ Robert W. Geehan (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

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-3394 (Lead-Zinc)
Triumph Mining Company
Triumph Mine
Blaine County, Idaho

As requested in Mr. Griswold'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 $2\frac{1}{2}$ to $12\frac{1}{2}$ 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

Robert P. Dwyer

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

DEC 15 1955

Memorandum

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

From: Associate Solicitor, Division of Mineral Resources

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

As requested in Mr. Griswold'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 5% 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: BMEA Docket
Sol. Docket
W.S.Martin (2)
G.C.Selfridge
R.P.Dwyer
H.C.Rubin
Chron.

File Copy
Surname

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

December 5, 1955

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Base Metals Division

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

File Copy

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

December 5, 1955

Memorandum

To: Chief, Operations Control & Statistics Division

From: Chief, Base Metals Division

Subject: Withdrawal of Docket No. DMEA-3847, Triumph Mining Company, Triumph Mine, Blaine County, Idaho

Please be advised that application DMEA-3847, Triumph Mining Company, should be withdrawn since we are amending Contract No. Idm-2696, Docket No. DMEA-3394, 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. R. Griswold, Defense Minerals Exploration Administration

From: Thor H. 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 H. Kiilsgaard

Thor H. Kiilsgaard

RECEIVED
NOV 8 1955

IN REPLY REFER TO:

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

November 8, 1955

Memorandum

To: W. R. 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 3647, 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.

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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

IN REPLY REFER TO:

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

November 8, 1955

Memorandum

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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 $17,850 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. 5222
O. M. Bishop
Files

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

October 31, 1955

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(Pb, Zn; $119,516)
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Blaine County, Idaho

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Mr. Kilsgaard, Rm. 5222
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

October 31, 1955

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O. M. Bishop

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Copy to - Division of Minerals
Mr. Kilsgnard, Rm. 5222
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

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

Reviewed by
DMEA OPERATING COMMITTEE
10-28-55
(date)

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

Dear Mr. Selfridge:

Enclosed are memoranda by J. J. Quinlan, Geological Survey, and S. W. Zoldok, Bureau of Mines, recommending that Contract No. Idm-E696 (Docket No. DMEA-3394) 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.

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

Thomas E. Howard
for Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USBM (AD)
Quinlan

DMEA 3394

DOCKET INDEX

ACTION DOCUMENTS

1	APPLICATION		DATE RECEIVED	6/21/54
2	CONTRACT		DATE	8/9/54
3	TERMINATION AGREEMENT		DATE	5-7-54
4	CERTIFICATION		DATE	
5	AUDIT REPORT		DATE	
6	AMENDMENTS - NUMBERS	1	DATE	3/1/55

DOCKET COPY

RECEIVED

JUN - 1 1956

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-3334 (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 626 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 ~~II~~ I, NW District, in Order No. ~~2604~~ 2806 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 [signature]

THE UNITED STATES OF AMERICA

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

RECEIVED
JUN - 1 1956

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

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.

RECEIVED
JUN - 1 1956

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

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

Docket copy

RECEIVED
JUN - 1 1956

Burton Sawyer
"Approved"
Chambers
Selfridge
Johnson

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-2686 (Docket No. DMEA-1394), dated August 9, 1954, hereinafter called the "Contract," that:

1. Effective April 15, 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 O Mittendorf
Administrator, Defense Minerals
Exploration Administration

TRIUMPH MINING COMPANY

By T M Robinson

Title Gen. Manager

Docket copy

AMENDMENT NO. 1

It is agreed this 1st day of March 1955, 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. 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 August 9 1954.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~II~~ I, NW 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

Pmtrin 3/24/55

TRIUMPH MINING COMPANY
Exploration Project Contract Idm-2696
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 crossent @ $6.50/ft.	4,875.00
substitute	- 750 feet of timbering and/or rock boltings for crossent @ $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 boltings @ $6.50/ft. 1/	3,900.00
add	- Footnote 1/ Rock belting shall be paid for at the rate of $3.84 per bolt placed but payment for rock belting 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. BMEA 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

Docket 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[3] ~~xxxxx~~ 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*) ~~[illegible]~~.
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.

(*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 [signature] Administrator, Defense Minerals Exploration Administration

Author [signature]

TRIUMPH MINING COMPANY
(Operator)

By [signature]
L. M. Robinson

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.

[signature]
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 302.8 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 12,663.60 north and 9,933.60 east; thence, N82°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 Domski 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 Domski Lode claim to the SE or #2 corner of the Domski 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 Domski Lode claim to the South or #3 corner of the Domski 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 10,820.00 north and 10,873.24 east; thence, east 1130.24 feet across the Mayleaf Lode claim and part of the Oro Lode claim to a point in the Oro Lode claim which is located at Triumph coordinates 10820 North and 9743 east; thence, N73°48'W 1551 feet across the Oro 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.

Now is the time for all

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

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

Reviewed by
DMEA Operations Officer
10-28-55

S. W. Zoldok

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 18, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Docket No. DMEA-3874 (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-E696, 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.

Initialed by
DMEA Contract Commission
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. N. Bozion, 1942.

4. Unpublished memorandum report in Defense Minerals Exploration Administration files, Review of Triumph Mining Company Application, Docket No. DMEA-3394 (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-E696. 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. Kiilsgaard 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

Edhem Pasha
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 N., 7,850 W. (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. Kiilsgaard'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 Eula 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 1,450 feet) with provision for an additional 1,450 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 DMEA 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 70-783 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 $25.00 per foot 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 70-783 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. 10035 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:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
October 12, 1955

RECEIVED
OCT 24 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John M. West, Mining Engineer, Bureau of Mines

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

Recent work in the Triumph mine was examined on October 3, in the company of Mr. Carroll Livingston, mine superintendent, and Mr. John Barrett, mine engineer.

The 540 level north had been driven 36 feet north from station USBM 433, at which the face was on August 8, 1955. In driving north, the vein was lost, so a new heading on the vein was cut out to 14½ feet west of the first face. The 540 level south has also been driven southeast along the vein for a distance of 44 feet. The vein is weakly mineralized in the face.

A raise, number 54-887, measuring 5x7 inside the timber, has been driven on the vein from the 540 level south at a point about 75 feet southeast of station USBM 446. The raise extends about 40 feet on a 45° slope, then flattens to near-horizontal. The total length of the raise is 130 feet (all timbered on 5-foot centers) from the sill at the edge of the drift. The muck is removed from the raise by a slusher. A vertical raise is being driven about 100 feet above the 540 level south between sets 20 and 21 of the flattened dip raise. The vertical raise, timbered with 3 sets, was 18½ feet above the back of the dip raise at the time of inspection. At about 14 feet the raise intersected a 2½-foot vein with fair lead-zinc mineralization. The vein appears to branch from one being followed in the raise below. The lower vein has pinched out in the end of the dip raise, which is not unusual when the veins flatten.

The total contract work performed to October 3 was:

		Authorized	Completed
Stage I			
	Crosscut	750 feet	750 feet
	Timber	750 "	750 "
	Roof bolts (and/or timber)	750 "	184 " (290 bolts)
	Raising	300 "	196 " (completed)

Stage II	Authorized	Completed
Sublevel drifts	1900 feet	257 feet
Timbering	1900 "	222 "
Raising	600 "	148 "
Raise timbering	600 "	145 "

John M. West

John M. West

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JMW/he

/

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

Approved
Betty

September 2, 1955

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

Docket

Re: Docket No. [illegible]A-3347 (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. S. Weissenborn
Executive Officer, DMEA
Field Team, Region 1
Northwest District

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

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

RECEIVED
OCT 10 1955

September 1, 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John D. Bardill, Bureau of Mines, and James J. Quinlan and Don C. Alvard, Geologists, U. S. Geological Survey

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

An interim inspection of this project was made on August 12, 1955, by the above-named engineer and geologists, accompanied by Mr. Carroll Livingston, mine superintendent.

The 70-880 vertical raise had been driven 206 feet above the 700 level track, or a net distance of 196 feet. The sill of the 540 level is 92 feet above the 700 level track.

The station on the 540 level at the 70-880 raise is approximately 25 feet long and 20 feet wide. Each compartment of the raise is 5 feet by 5 feet. A chute with grizzly has been cut which discharges into the ore compartment of the raise.

The northwest drift from the station had been driven about 5 feet from the station and the southeast drift about 132 feet at the time of the inspection. The drifts are about 6 feet by 9 feet in the clear of timber. The sides of the drifts are lagged at random where necessary.

The structure exposed in the 540 level drift strikes S. to S. 30° E. and dips 20° to 25° W. It is 6 to 10 feet wide and contains mostly sheared and crushed wall rock (argillite and argillaceous limestone), some calcite, an occasional quartz lens, and minor amounts of disseminated pyrite and sphalerite.

It was agreed with Mr. Livingston, subject to Field Team approval, that it would be well to raise on the structure near the face of the 540 south drift to see if the structure might not steepen in dip. This possibility should be tested before too much more drifting is done on the 540 level as most of the ore within the structure occurs in the steeper dipping sections (average 30°).

The Company is keeping an adequate geologic record of the work. Maps are submitted with their monthly reports.

The total contract work performed to August 12 was:

	Authorized	Completed	
Stage I			
Crosscut	750 feet	750 feet	
Timber	750 "	750 "	
Roof bolts (and/or timber)	750 "	184 "	(290 bolts)
Raising	300 "	196 "	(completed)
Stage II			
Sublevel drifts	1900 feet	169 feet	
Timbering	1900 "	169 "	

John D. Bardill
James J. Quinlan

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JDB/he

DOCKET C

FILE TO	ACTION	NOTED	DATE
Glenn		Pg	8-22
VCF			10-20
Ceas			
ANSWERED			

(3)

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

August 18 1955

Mr. A. E. Weissenborn, Exe. Officer
DMEA Field Team, Region 1
Northwest District
South 157 Howard Street
Spokana, 4, Washington

RECEIVED
OCT 24 1955

Re: Docket No. DMEA-38~~74~~ 47
(lead-zinc) Triumph Mine

Dear Sir:

Having gone over the above mentioned application in detail with the DMEA Field Team - James Quinlan and D. Alvord - it was mutually agreed that this project should consist of ~~2000~~ 4000 feet of cross-cutting which should start on the 1000 Level at Triumph north coordinate 10155 and east coordinate 6940 and be driven N35°E¢ also, if one or more worth while structures were cut in this cross-cut that an additional ~~2000~~ 4000 feet of drifting on the structure or structures would be advisable; also, that an additional 500 feet of raising on the structure or structures would likewise be advisable.

It was also mutually agreed that a larger block of ground be included in this project and that any structure or structures found within this block of ground which lie in the footwall of the present known Main Triumph Structure be accepted as being discoveries with respect to the DMEA contract.

In as much as the above mentioned changes require some changes and or additions to the original application we are enclosing separately paragraphs, 3-a, 3-c, 3-d, 3-e, and 3-f as they should now be. Also, because some of the new area lies within State of Idaho Land which is under mineral lease to the Triumph Mining Company we are enclosing two copies of this lease along with six (6) copies of "Consent to Lien" forms which have been signed by the State of Idaho Land Commissioner.

Yours very truly,

TRIUMPH MINING COMPANY

By L M Robinson
L. M. Robinson, General Manager

LMR:mw

Encls.

Reviewed by
DMEA OPERATING COMMITTEE

(date)

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

CHANGES NECESSARY IN THE
DMEA-3874 APPLICATION

3. a. Beginning at the SE corner of the Fern Lode Claim which is located at Triumph north coordinate 9745 and east coordinate 9430; thence, 75 feet easterly along the north side line of the Dora Lode Claim to its NE corner which is at Triumph north coordinate 9755 and east coordinate 9515; thence, 555 feet southerly along the east side line of the Dora claim to its intersection with the north end line of the Prince Lode Claim which is at Triumph north coordinate 9200 and east coordinate 9575; thence, 100 feet westerly along the north end line of the Prince claim to its NW corner and which is at Triumph north coordinate 9475 and east coordinate 9190; thence, 500 feet southerly along the west side line of the Prince Claim to its intersection with the east end line of the Beatrice Lode Claim which point is at Triumph North coordinate 8725 and east coordinate 9635; thence, 165 feet southerly along the east end line of the Beatrice Claim to its SE corner which is at Triumph north coordinate 8565 and east coordinate 9655; thence, 1500 feet westerly along the south side line of the Beatrice Claim to its SW corner which is at Triumph north coordinate 8390 and east coordinate 8155; thence, 300 feet southerly along the east side line of the Blanche Lode Claim to its SE corner which point is at Triumph north coordinate 8085 and east coordinate 8195; thence, 1800 feet westerly along the south end lines of the Blanche Lode Claim, the Triumph No. 9, and the Triumph No. 14 Lode Claims to the SW corner of the Triumph No. 14 Lode Claim which point is at Triumph north coordinate 7865 and east coordinate 6410; thence, northerly 1235 feet along the west side line of the Triumph No. 14 Claim to its intersection with the south side line of the Andy No. 13 Lode Claim which point is at Triumph north coordinate 9100 and east coordinate 6250; thence, 1125 feet northwest along the south side line of the Andy No. 13 Claim to its SW corner which point is at Triumph north coordinate 9895 and east coordinate 5455; thence, 847 feet north along the west end line of the Andy No. 13 Claim to its NW corner which point is also on the west end line of the Tram No. 1 Lode Claim, and which is at Triumph north coordinate 10742 and east coordinate 5455; thence, 1100 feet north west along the west end line of Tram No. 1 Claim and Triumph No. 6 Lode Claim to the NW corner of Triumph No. 6

3. 2. (Cont'd)

Claim which point is at Triumph north coordinate 11522 and east coordinate 4675; thence, 1500 feet easterly along the north side line of the Triumph No. 6 Claim to its NE corner which lies on the west end line of the Jessie Lode Claim and which is at Triumph north coordinate 11345 and east coordinate 6160; thence, 550 feet northwest along the west end line of the Jessie Claim to its NW corner which is also the SW corner of Triumph No. 1 Lode Claim and which is at Triumph north coordinate 11740 and east coordinate 5770; thence, north 600 feet along the west end line of the Triumph No. 1 Claim to its NW corner which is at Triumph north coordinate 12340 and east coordinate 5770; thence, 1235 feet easterly along the north side line of the Triumph No. 1 Claim to its intersection with the west end line of the Union Lode Claim which point is at Triumph north coordinate 12490 and east coordinate 7000; thence, 630 feet northerly along the west end line of the Union Claim to its NW corner which point is at Triumph north coordinate 13103 and east coordinate 6920; thence, 3000 feet southeast along the east side line of the Union Claim and the Edhem Pasha Lode Claim to the NE corner of the Edhem Pasha Claim which point is at Triumph north coordinate 10982 and east coordinate 9041; thence, 974 feet southerly along the east end line of the Edhem Pasha Claim to its SE corner which is at Triumph North coordinate 10015 and east coordinate 9160; thence, 380 feet southeast along the east end line of the Fern Lode Claim to the point of beginning. The area to be explored by this project lies within the above described area and in the footwall of the main Triumph structure.

This block of ground is covered by the following lode claims:

Patented -	Edhem Pasha Union	
Unpatented -	Triumph No. 1	Blanche
	Triumph No. 6	Beatrice
	Triumph No. 8	Cecil
	Triumph No. 9	Dora
	Triumph No. 14	Fern
	Tram No. 1	Jennie
	Andy No. 13	Jessie
	Tram No. 2	

3. c. All the land which is described in (3-a) is owned by or under lease by the Triumph Mining Company. The N 1/2 N 1/2 of Section 27, T 4 N, R.18 E, B.M. Blaine County, Idaho is owned by the State of Idaho and who leases it to the Triumph Mining Company - State Mineral Lease No. 898.

3. d. State of Idaho Mineral Lease No. 898 is included, along with a "Consent to Lien" form signed by the State Land Commissioner.

3. e. No liens or encumberance on any of this land except that described in (3-c) and (3-d).

3. f. Listed with each unpatented lode claim in the area described in (3-a) is the book and page number where the claim is recorded in the Blaine County Recorder's Office:

Triumph No. 1	Bk. 1	Amended	pp. 169
Triumph No. 6	Bk. 1	Amended	pp. 174
Triumph No. 8	Bk. 1	Amended	pp. 176
Triumph No. 9	Bk. 131		pp. 369
Triumph No. 14	Bk. 141		pp. 340
Tram No. 1	Bk. 1	Amended	pp. 166
Andy No. 13	Bk.		
Blanche	Bk. 131		pp. 245
Beatrice	Bk. 131		pp. 243
Cecil	Bk. 1	Amended	pp. 163
Dora	Bk. 131		pp. 242
Fern	Bk. 1	Amended	pp. 162
Jennie	Bk. 1	Amended	pp. 164
Jessie	Bk. 1	Amended	pp. 165
Tram No. 2	Bk. 1	Amended	pp. 167

DMEA(1)

STATE MINERAL LEASE

No. 898 RECEIVED

OCT 24 1950

THIS INDENTURE, Made this 17th day of January 19 50, by between the STATE OF IDAHO, acting through the State Board of Land Commissioners, party of the first part, herinafter called the lessor, and

Triumph Mining Company, Triumph, Idaho

party of the second part, hereinafter called the lessee, under and pursuant to Title 46, Chapter 7, Idaho Code Annotated, as amended by Chapter 124, Session Laws of 1937, witnesseth:

That the party of the first part, in consideration of the rents and royalties to be paid and the covenants to be observed by the lessee, as hereinafter set forth, does lease and demise unto the lessee exclusive right and privilege to mine upon veins or lodes of quartz or other rock in place bearing gold, silver, cinnabar, lead, tin, copper, zinc or other valuable deposits, upon or under the following lands lying and situate in the County of Blaine, State of Idaho, more particularly described as follows, to wit:

N½N½ Sec. 27, Twp. 4 N., Rge. 18 E. B.M.
containing 160 acres indemnity school land.

together with the right to use and occupy so much of the surface of the said land as may be required for all purposes reasonably incident to the mining, operating and removal of said minerals upon and subject to the conditions laid down in Title 46, Chapter 7, Idaho Code Annotated, as amended by Chapter 124, Session Laws of 1937, for a period of ~~five (5)~~ ten (10) years from the date of this lease, with the preferential right in the lessee of renewal under such readjustment of the terms and conditions of lease as the Board may determine to be necessary in the interest of the lessor, unless other wise provided by law at the time of the expiration of the period of this lease.

In consideration of the foregoing the lessee hereby agree:

1. To pay to the lessor an annual rental for each acre covered by this lease the sum of (25¢) per acre per annum in advance on the first day of July of each year, the first year's rental being $40.00

payable upon the execution of this lease. Such rental paid for any year shall be credited against the royalties as they accrue for that year.

2. To pay to the lessor as royalty **the attached** percent**age** %) of the ~~gross~~ **net** smelter returns upon all ores, minerals or precious metals recovered and shipped from said property during the term of this lease. The term "gross smelter returns" shall be construed to mean the gross returns received from the smelter or from a sale otherwise of such ores, minerals or precious metals recovered and shipped from said property during the term of this lease, duplicate copies of all smelter returns or other sales to be furnished to the lessor on the following month next succeeding the production of ... ores, minerals or precious metals.

3. To commence actual mining operations upon the land embraced herein within **eighteen** from the execution of this lease, and thereafter to diligently prospect, develop and mine in or upon the leased land; and that all mining operations shall be done in a good and workmanlike manner, using the most approved methods of mining and to substantially protect all surface openings or workings where persons or animals are likely to be injured by falling therein, or endangered otherwise, except as the lessor shall otherwise direct.

4. This agreement shall be binding upon the **heirs, administrators, executors** and assigns of the lessee , and the said lessee may assign this lease, provided, however, that before any assignment shall take effect the said lessee shall file with the State Land Commissioner a notice in writing giving the name and address of said assignee or assignees.

5. To furnish written statements in detail and in such form as may be prescribed or approved by the lessor, showing the amount, quality and value of all minerals produced during the preceding month as the basis for computing the royalties due the lessor. The leased premises and all workings, improvements, machinery and fixtures thereon or connected therewith, and all books and accounts of the lessee whenever wanted shall be open at all times for the inspection of any person duly authorized by the State Board of Land Commissioners.

6. To furnish annually and at such times as the State Board of Land Commissioners shall require, in the manner and form prescribed by said Board, a plat showing all development work and improvements on the leased lands, and in case it is advisable to prospect by diamond drilling, an itemized statement of actual cost of drilling, location of drill hole and a complete log of each hole drilled; and other related information with a report as to all buildings,

structures or other work placed in or upon said leased lands, accompanied by a report in detail as to the stockholders, investments, depreciation and cost of operation, together with a statement as to the amount and grade of minerals produced and sold and the amount received therefor, by operations hereunder.

7. That all bullion taken from said premises shall be sold to the United States Mint or branch office or agency thereof, and the payment of royalties shall be accompanied by a copy of the mint returns from each and every shipment.

8. It is further stipulated and agreed that the party of the second part will notify the party of the first part by filing a written notice with the State Land Commissioner of any clean-up at least three (3) days in advance of any and all clean-ups, and that the lessor shall have the right to have a representative or representatives present upon any dredge, machine or device used by the said lessee at the time of any and all clean-ups.

9. To deliver up the premises leased with all permanent improvements thereon in good order and condition upon the termination of, cancellation or forfeiture of this lease.

10. To pay when due all taxes and assessments of any kind lawfully assessed and levied under the laws of this State.

11. To comply and be subject in all respects to the conditions, limitations, penalties and provisions contained in Title 46, Chapter 7, Idaho Code Annotated, as amended by Chapter 124, Session Laws of 1937, which are hereby made a part hereof to the same extent as if incorporated herein, and be subject also to the conditions, limitations, penalties and provisions of applicable Federal Statutes and Laws of the State of Idaho regarding the operation of mines and of the provisions of the Workmen's Compensation and State Fire Laws of the State of Idaho.

12. It is further expressly understood and agreed that the prospecting and mining rights and privileges leased as aforesaid extend to and include only gold, silver, cinnebar, lead, tin, copper or other valuable deposits in place on lode or quartz or other rock, and that no right or privilege respecting any other kind or character of mineral or minerals are granted, or intended to be granted, by this lease,,but the lessee shall promptly notify the lessor of the discovery of any valuable minerals other than those covered by lease; nor shall this lease be construed to prohibit the leasing of the lands in question for any purpose, including mining, other than for those minerals specifically covered herein.

13. It is further understood that upon failure to pay rentals or royal-

ties, as herein provided, or upon failure to comply with any of the conditions, provisions or covenants of this lease, the lessor may at its option, after thirty (30) days' notice by registered mail to the lessee , or assigns, cancel the lease.

14. And it is further understood and agreed that upon failure or refusal of the lessee to accept the readjustment of terms and conditions demanded by the lessor at the end of the period of this lease within thirty (30) days after the expiration thereof, such failure or refusal shall work a forfeiture of the preferential right of the lessee . Improvements, as defined by Chapter 7, Title 46, Idaho Code Annotated, as amended by Chapter 124, Session Laws of 1937, on expiration, cancellation or forfeiture of lease, shall be disposed of as provided for in said chapter.

15. It is further understood that the lessee may terminate this lease at any time upon giving one (1) month's notice in writing to the lessor, and upon payment of all rents and royalties and other sums due and payable to the lessor, and complying with the other terms of this lease.

16. It is further understood that there is expressly reserved the right to permit for joint or several use such easement or right of way upon, through or in the lands hereby leased, occupied or used as may be necessary or appropriate to the working of the same or of other lands containing mineral deposits, and the treatment and shipment of products thereof by or under authority of the lessor, its lessees, or permittees, and for other public purposes.

17. And there is further reserved the right to lease, sell or otherwise dispose of the surface of the lands embraced within this lease for any purpose, grazing, mining, agricultural or otherwise, insofar as said surface is not necessary for the use of the lessee in the extraction and removal of the minerals therein, and the said lessee also agree to take this lease subject to any outstanding leases or contracts for sale by the State of Idaho of any kind whatsoever.

18. It is also agreed that the lessee , or their assigns, shall not at any time fence any watering place upon these lands where the same is the only accessible and feasible watering place within a radius of one (1) mile, nor shall these premises, or any part thereof, be used in such manner that the waters running in the natural streams and creeks upon said lands, or waters from said lands which may reach natural streams or creeks, be polluted and made unfit for domestic or for irrigation use, and it is hereby made the duty of said lessee to see that such watersare not so polluted, or made unfit for such uses.

19. It is further agreed that the said lessee shall not interfere with the removal of timber purchased prior or subsequent to the issuance of this lease, nor shall the said lessee cut and/or remove any timber on said land without complying with the laws of this state respecting the cutting and/or removing of said state timber, and said lessee shall be responsible to the state and also to injured third parties for damage to state timber or timber purchased from the state and relating to the lands embraced within this lease.

20. It is further covenanted and agreed that every obligation hereunder shall extend to and be binding upon and every benefit hereof shall inure to the heirs, executors, administrators, successors or assigns of the respective parties thereto.

STATE OF IDAHO, Lessor

BY C. A. Robins
Governor

STATE BOARD OF LAND COMMISSIONERS

C. A. Robins
President

Countersigned:

Secretary of State

Edward Hoagby
State Land Commissioner

Triumph Mining Company
Lessee

By C. H. Thomas
General Manager

State of Idaho, County of Ada, SS.

On this 17th day of January in the year 19 50, before me, a Notary Public in and for said State, personally appeared

C. A. Robins, known to me to be the Governor of the State of Idaho and President of the State Board of Land Commissioners, and

Edward Woosley, known to me to be the State Land Commissioner of the State of Idaho, that executed the said instrument and acknowledged to me that such State Board of Land Commissioners and State of Idaho executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year last above written.

(seal)

Notary Public Residing at

Boise, Idaho

My commission expires

November 5, 19 51.

State Of Idaho)
) ss.
County of Blaine)

On this 27th day of June, in the year 19 50, before me, a Notary Public in and for the State of Idaho, personally appeared A. H. Shoemaker, known to me to be ~~the person~~ ~~(INDIVIDUAL ... Stock and foot and ankle)~~ ~~that executed the within instrument, and acknowledged to me that he executed the same~~.

~~(PARTNERSHIP ... Stock and foot and ankle)~~ ~~of the partnership that executed the within instrument or the person who executed the within instrument on behalf of said partnership, and acknowledged to me that such partnership executed the same~~.

~~(CORPORATION ... Stock and foot and ankle)~~

the General Manager of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

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

(Seal)

Notary Public for Idaho
Residing at Triumph, Idaho

My commission expires
Sept. 27, 1953.

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

August 12, 1955

RECEIVED
AUG 19 1955

Forwarded
Betty

Docket

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/ozp.

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

cc: USBM (2)
Quinlan

File Copy
Surname
Griswold
Martin
Johnson
Mittendorf

500

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

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

AUG - 8 1955

Re: Docket No. DMEA-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, crosscutting, 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. Kiilsgaard 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,

W. S. Martin
ACTING Chairman, Operating Committee

WRGriswold/bjl (8/4/55)

APPROVED:

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

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

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

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

Docket

Approved
Bobby

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.

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

Enclosures as indicated

cc: USBM (2)
Quinlan

DMEA

July 23, 1955

Mr. Wing G. Agnew, Acting Executive Officer
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

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

Dear Mr. Agnew:

As requested in the first paragraph of your letter of June 28, 1955, we are enclosing five copies showing the geology of the area in which this apparent split cuts across our main footwall drift.

As suggested in your last paragraph, we have reduced the footage for drifting to 500 feet. We are enclosing five copies of the last two pages (pp 4 & 5) of our application which should replace the last two pages of the original.

We had hoped that your Field Team would call on us around the first of July, as has been their custom in the past, and as was indicated that you would, by your administrator Mr. Mittendorf in his letter to us of July 6, 1955.

Your contention in the second paragraph of your June 28 letter that the "likelihood of a 6 - 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 sure small" is very sound.

Suppose, however, that instead of what we have been following up dip being the main shear zone, that it is a hanging wall split off of a main shear zone, which only reaches the 1000 level, or slightly below. In this event any mineralized split off to the foot wall may lead you to the main shear zone and a rejuvenation of the mine.

This cross feature first attracted our attention when it was found that by projecting it up it intersected the main shear zone at a point where the stoping widths were suddenly reduced from 10 - 15 feet to a few inches of high grade lead and variable widths of mineralized quartz. The trend of the mineralization also changed at this point. The values in the ore seemed to change from rougher equal amounts of silver and lead with the zinc running the same or higher, to high silver, high lead with relatively smaller amounts to no zinc.

This supposed hanging wall feature which we have followed down from the 700 level has been very productive but at no point have we found this mineable

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JUL 25 1955
U. S. G. S.
SPOKANE, WASH.

ore zone to extend below the 1000 level. The structure has been cut at several points with the same result - no mineable ore and the mineralized zone becoming tighter and narrower.

If you will refer to the plan provided and in the extreme upper right you will note an area on the 700 level which produced 8500 tons of ore which assayed Au 0.03 - Ag 5^{oz} - Pb 3$^{%}$ - Zn 4$^{%}$. This ore possessed the mineralogical characteristics of ore previously mined on the main structure, whereas ore encountered on this supposed hanging wall structure would show the following mineral distribution - Au 0.07 - Ag 16^{oz} - Pb 6$^{%}$ - Zn 2$^{%}$.

When we were in this area on the 700 level this body of ore was regarded as an isolated deposit and no significance attached to it at the time. As you might suspect from the work indicated on the map, there was considerable confusion trying to determine its limits.

There are three ways in which this idea of possible ore occurrence can be tested.

1. Carry out the original plan and if this split on the 1000 level does not lead us to any mineralized zone turn and continue as a cross cut to the foot wall under the 700 mined area.
2. At some point near the end of the 1000 level cross cut to the foot wall some 1500 feet under the same 700 stoped area and raise 250 feet. In this case if ore is encountered when the split is cut with the cross cut, the drifting we are now proposing will still be necessary.
3. A 500-600 feet drift can be driven on the 700 level in the footwall of the 700 stoped area, a station and pockets cut and a winze sunk with a station cut 125 feet below the 700 level and a cross cut driven to the hanging wall in search of the downward extension of this ore.

The idea for this project greatly simplified is based on the supposition that we have been mining a hanging wall feature of later date than the main ore deposit and that this supposed split to the footwall may cross from the hanging wall ore shoot to what we hope will be the main ore shoot.

If all of the above seems a bit confusing we would appreciate going over these details with your Field Team in our office.

Yours very truly

TRIUMPH MINING COMPANY

By L. M. Robinson
L. M. Robinson, General Manager

L.M.R.:plr

Encls.

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JUL 25 1955
U. S. G. S.
SPOKANE, WASH.

5. a. The minerals to be explored for by this project are lead and zinc sulfides.

b. It is proposed to explore the area described in (3-a) by turning off the 10-894 Drift into the 10-772 Drift whose face is at north coordinate 9573 and east coordinate 7710 and drifting along on the structure which crosses the 10-894 Drift at north coordinate 9549 and east coordinate 7715. It is proposed to drift on this structure a distance of 500 feet.

A map is enclosed showing the present workings and the proposed work.

c. This work will start within 60 days and will be completed within 24 months after the date of the exploration project contract.

d. The Triumph Mining Company has been operating the Triumph Mine for the past 15 years and has been producing during that time an average of 7500 tons of silver, lead-zinc ores a month.

Mr. L. M. Robinson the General Manager of the Triumph Mining Company is a graduate of the Texas School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 34 years.

Mr. C. C. Livingston the Mine Superintendent is a graduate of the University of Idaho School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 20 years.

6. a. No independent contracts.

b. See enclosed wage rates at the Triumph Mine.
Mine Superintendent Salary $750.00 per Month.
Mine Foreman Salary $575.00 per month.
Mine Shift Boss Salary $475.00 per month.
Chief Engineer and Geologist Salary $525.00 per month
Assistant Engineer and Geologist Salary $483.00 per month.
Chief Accountant Salary $560.00 per month.

6. a,b,c,d,e,f,g and h on a unit cost basis.

Cost per foot of a 7' x 5' (minimum) drift

Labor	$18.00
Supervision & engineering	2.75
Powder, caps,fuse	3.25
Rail	1.50
Bits and steel	1.15
Pipe	1.00
Fittings and hose	0.20
Ventilation Pipe	1.00
Power	1.75
Repair parts	0.50
Depreciation on equipment	3.50
Insurance and payroll taxes	1.87
Lubricants	0.20

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U. S. G. S.
SPOKANE, WASH.

6. a,b,c,d,e,f,g and H on a unit cost basis

Cost per foot of a 7' x 5' (minimum) drift (Cont'd)

Total drift untimbered	$36.67
Timber	7.00
TOTAL DRIFT TIMBERED	43.67

6. g. Workmen's Compensation and employers' liability insurance and payroll are included in the items listed above.

6. Estimated total cost of project:

500 feet of drifting	$21,835.00

7. a. Triumph Mining Company is prepared to furnish its share of the costs of the proposed project in accordance with the regulations on Government participation.

b. The Triumph Mining Company is prepared to furnish its share in the costs in the form of money and in equipment.

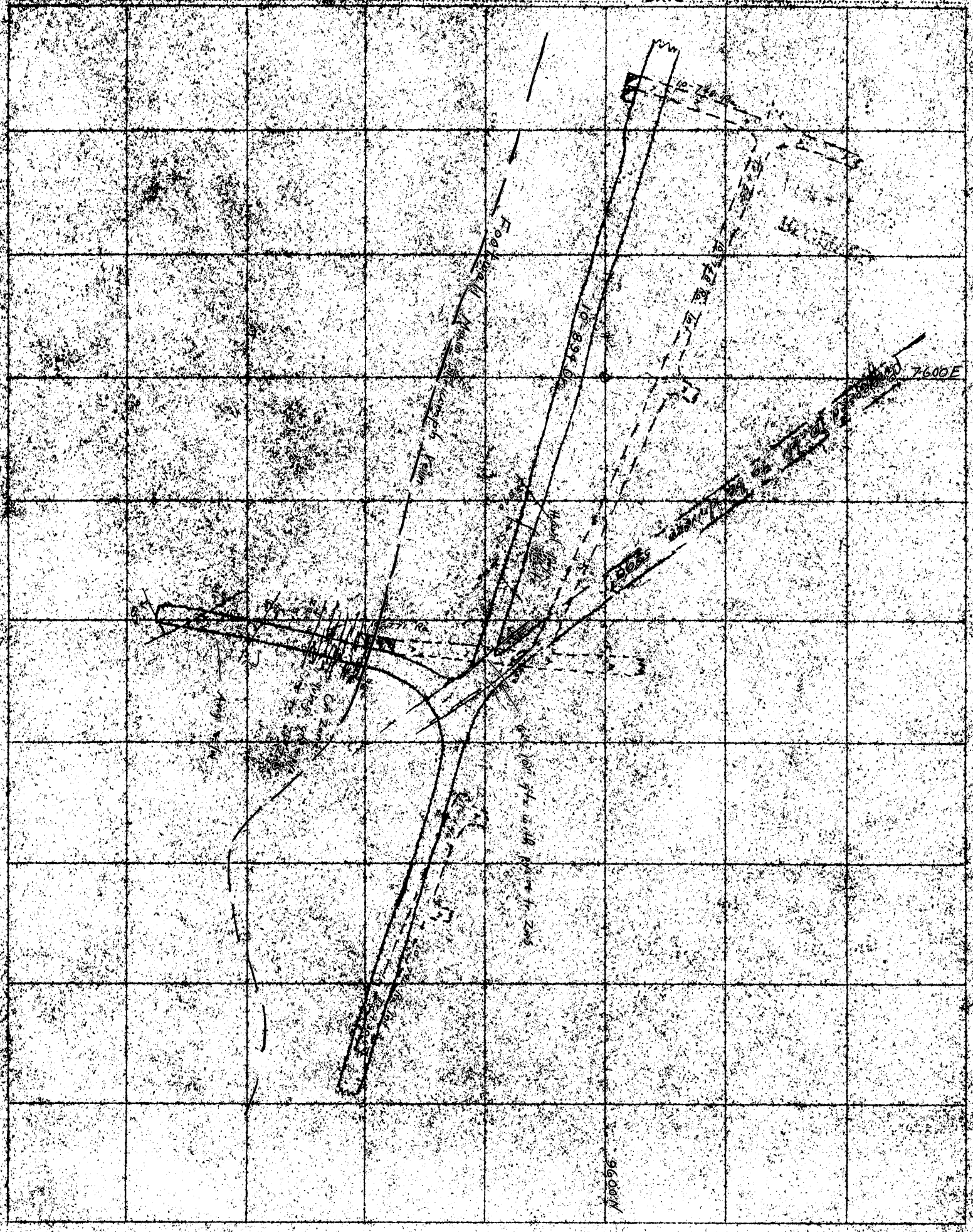
RECEIVED
JUL 25 1955
U. S. G. S.
SPOKANE, WASH.

LOCATION
SURVEY
GEOLOGY BY

MINE Triumph

SCALE 1" = 50'

LEVEL 1000
POSITION
DATE



xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

Unassisted
Betty

July 28, 1955

Docket

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

Re: Docket No. DMEA-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. 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.~~
1201 N. Division St.
Spokane 2, Washington
July 14, 1955

RECEIVED
JUL 25 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 C. Agnew, Acting Executive Officer
U. S. Geological Survey

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

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

File Copy
Surname

500

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

Air Mail

JUL - 6 1955

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

Re: Docket No. DMEA-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. H. 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 (GCS)

Enclosures 2

WRGriswold/bjl (7/5/55)

APPROVED:

/s/ Robert W. Geehan (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

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

File Copy
Surname
Griswold
Kiilsgaard
Gechen
Selfridge
H E Johnson

500

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

Air Mail

JUL - 6 1955

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

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 reveiwed 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 (for)

Administrator

WRGriswold/bjl (7/5/55)

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

R.C.B.

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 H. Kiilsgaard, 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 Dora.

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 DMEA 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

Thor H. Kiilsgaard

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL - 5 1955

June 28, 1955

Docket

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

Re: Docket No. DMEA-3847 (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 I, NW District

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

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

cc: DMEA(2)
USGS(2)
Fryklund

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
J. H. Hedges

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
June 16, 1955

RECEIVED
JUL 18 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

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

The mine was inspected on June 8, 1955, accompanied by Mr. Carroll Livingston, mine superintendent, and Mr. John Barrett, mine engineer.

The 70-880 vertical raise has been driven up about 180 feet. The operators plan to stop the raise at 200 feet which will enable them to hole through from the 400 level at a later date if necessary. Two 5-foot sets and one 7-foot set remain to be framed.

A strong shear zone was cut at about 100 feet above the level of the drift, and it is tentatively planned to explore the zone by sublevel drifting and dip raises as provided by the contract. A 7-foot set was framed in this area so that there would be room enough to start the drift.

The slusher drift has worked out very well and there has been no trouble from the muck hanging up and slowing operations.

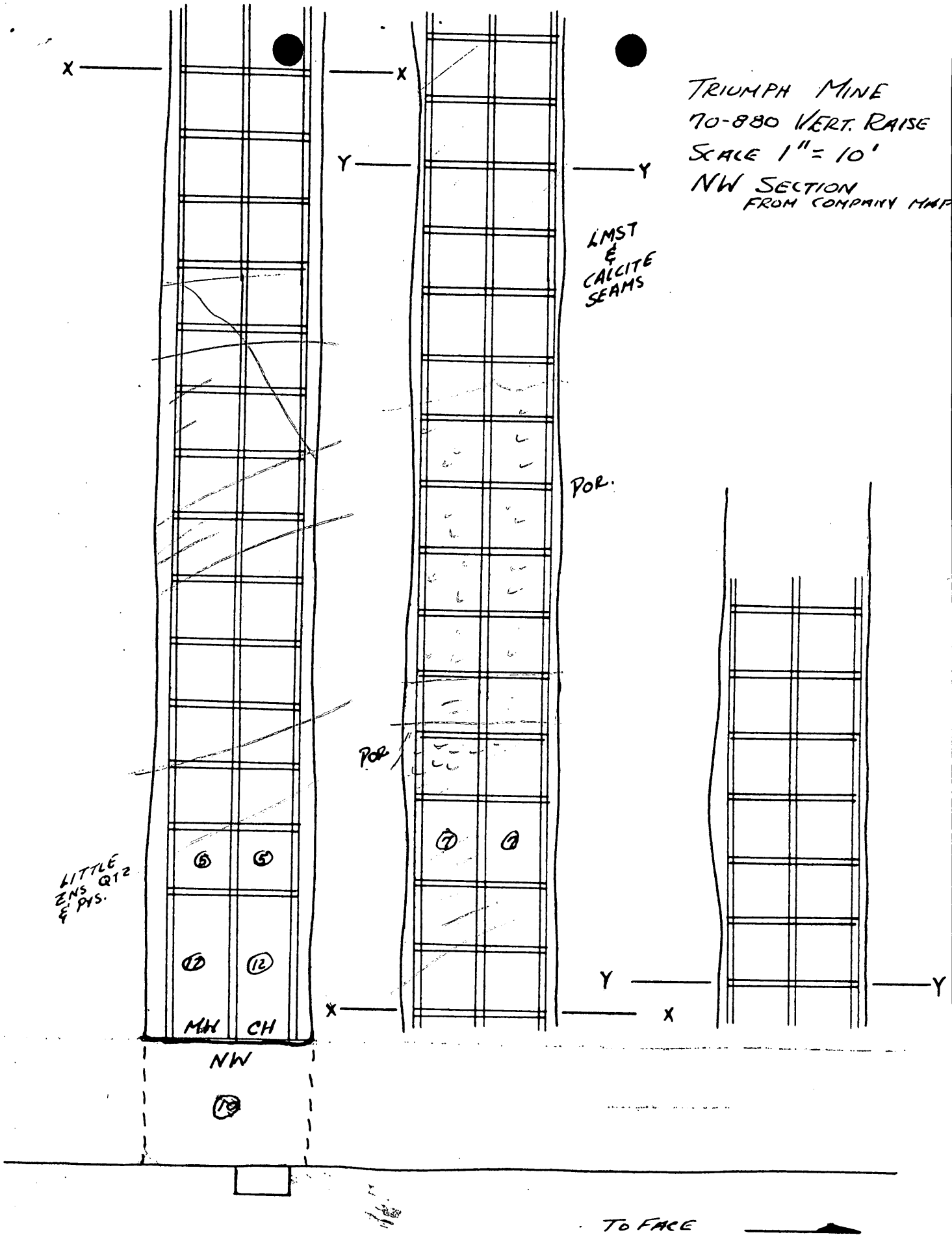
The raise is two compartment, each compartment measuring 5 feet by 5 feet. The workmanship and advance are very good.

The total contract work completed to June 8, 1955 is:

	Authorized	Completed
Stage I		
Crosscut	750 feet	750 feet
Timber	750 "	329 "
Roof bolts (and/or timber)	750 "	184 " (290 bolts)
Raising	300 "	180 "

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
ALS/he

A. L. Service
A. L. Service


TRIUMPH MINE
70-880 VERT. RAISE
SCALE 1" = 10'
NW SECTION
FROM COMPANY MAP
X
X
Y
Y
LMST & CALCITE SEAMS
POR.
POR
LITTLE ZNS QTZ & PYS.
5
5
12
12
MH
CH
NW
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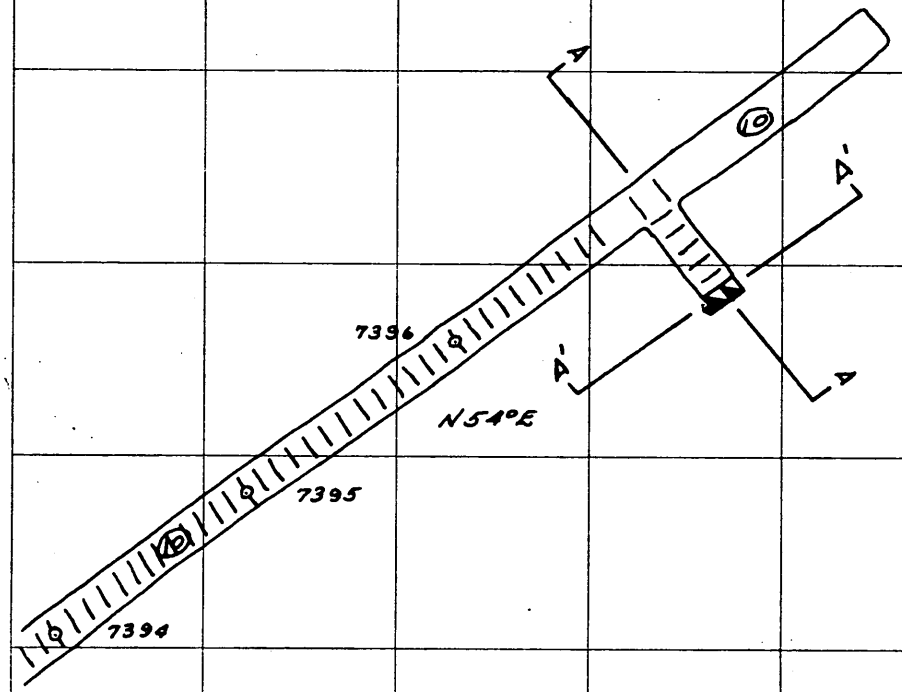
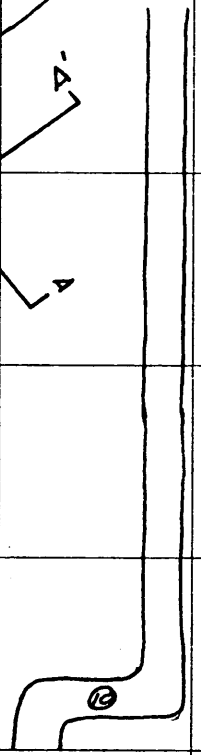
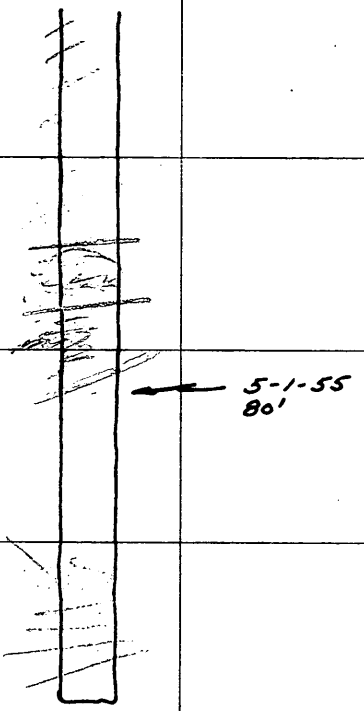
TO FACE





SECTION A-A



SECTION A'-A'

TRIUMPH MINE
BLAINE COUNTY, IDA.
CONTRACT IDM E696
SCALE 1" = 50'
JUNE 1955

File Copy
Surname
Griswold
Selfridge
Hedges
Kiilsgaard

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

JUN 13 1955

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

Re: Docket No. DMEA-3847 (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 (JHB)

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

WRGriswold/er 6/9/55

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

R.C.G.

June 7, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region I N. W. District

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region I N. W. District

DMEA 3847 Triumph Mining Company

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

June 9, 1955

Subject: DMEA-3847
Re: Exploration Assistance
Triumph Mine

Triumph Mining Company
Triumph, Idaho

Gentlemen:

The receipt of your application dated May 28, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3847 and referred to the Base Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

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

RECEIVED
JUN - 6 1955

June 1, 1955

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

3847

Re: DMEA ~~application~~ (lead-zinc)
Triumph 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
A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Enclosure

cc: USBM (2)
Nickelson

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

May 28, 1955

RECEIVED
JUN - 6 1955

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

Dear Mr. Weissenborn:

Enclosed in separate envelopes are five (5) copies of Application for D.M.E.A. assistance on a contemplated development project on our 1000 Level.

This project has been discussed with Mr. Nichalson from your department.

We hope the details are complete and that this application will be approved by your office. If any further details are required please advise.

Yours very truly,

TRIUMPH MINING COMPANY

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

LMR:mw

Encls.

RECEIVED
MAY 31 1955
U. S. G. S.
SPOKANE, WASH.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R1035.2.

RECEIVED
JUN 6 1955

RECEIVED
MAY 31 1955
U. S. G. S.
SPOKANE, WASH.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA 3847
Metal or Mineral Lead - Zinc
Date Received 6-6-55
Estimated Cost $119,516.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

Triumph Mining Company
Triumph, Idaho

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known.

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

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

(*e*) If you own the land, describe any liens or encumbrances on it

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

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

.....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 28, 1955, 195__

Triumph Mining Company
(Applicant)

By T M Robinson Gen Mgr.

.....

.....

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

RECEIVED
JUN - 6 1956

1000 FW Project

1. a. Triumph Mining Company, Triumph, Idaho

b. A corporation incorporated under the laws of the State of Idaho February 23, 1940

c. J. W. Swent, President, 100 Bush Street, San Francisco, California
E. H. Snyder, Vice President, Box 150, Salt Lake City, Utah
John W. Hamilton, Secretary, 100 Bush Street, San Francisco, California
L. M. Robinson, General Manager, Triumph, Idaho

d. Does not apply

3. a. Beginning at a point on a level plane at 6100 feet elevation which is located at Triumph north coordinate 9828 and east coordinate 7780, thence, N35W 1808 feet to north coordinate 11309 and east coordinate 6743; thence, N55E 979 feet to north coordinate 11871 and east coordinate 7545; thence, S15E 2222 feet to north coordinate 9724 and east coordinate 8119; thence, N73W 355 feet to the point of beginning. This block of ground shall be extended downward at a dip of 30° to the horizontal S55W and shall be outlined on the Triumph 1000 Level at the elevation of 5890 as follows: beginning at Triumph north coordinate 9620 and east coordinate 7482, which point is on the Triumph's 10-894 Drift; thence, N35W 1808 feet to north coordinate 11101 and east coordinate 6445; thence, N55E 979 feet to north coordinate 11663 and east coordinate 7247; thence, S15E 2222 feet to north coordinate 9516 and east coordinate 7821; ehich point is on the 10-894 Drift; thence, N73W 355 feet along the 10-894 Drift to the point of beginning.

This block of ground is covered on the surface by the following lode claims:

Patented	-	Edham Pasha	
Unpatented	-	Triumph No. 6	Fern
		Triumph No. 8	Cecil
		Tram No. 1	Jennie
		Blanche	Jessie

b. Triumph Mine

c. All land which is described in (3-a) is owned by Triumph Mining Company

d. Does not apply

e. No liens or encumbrances on the land described in (3-a)

f. A portion of each of the following claims covers a part of the land described in (3-A). Listed along with the claim is the book and page number where it is recorded in the Blaine County Recorder's Office:

Jessie	Bk.	1	Amended	pp.	165
Jennie	Bk.	1	Amended	pp.	164
Cecil	Bk.	1	Amended	pp.	163
Fern	Bk.	1	Amended	pp.	162
Blanche	Bk.	131		pp.	245
Triumph No. 6	Bk.	1	Amended	pp.	174
Triumph No. 8	Bk.	1	Amended	pp.	176
Tram No. 1	Bk.	1	Amended	pp.	166

4. a. There has been no underground work done in this particular block of ground in as much as its upper limit is 6100 feet elevation and this block lies within the footwall of an other work done in the immediate area. It is bounded on one side at 5890 feet elevation by the 10-894 Drift, the main haulage way of the Triumph Mine's 1000 Level. The Triumph Mine is an operating mine which produced an average of 7500 tons of ore per month and at the same time does approximately 600 feet of development work.

The Triumph Mine is owned and operated by the Triumph Mining Company.

The mine and its various operations are accessible at any time to any qualified person desiring to make an examination.

b. There has never been any production from this area.

c. All the known mineralized zones in the Triumph area are found well with in the Milligen formation which consists of interbedded argillites, quartzites and limestones of Mississippian age. The principal mineralization in the Triumph area occurs as fissure type filling of large shear zones - probably thrust faults. Some very important mineralization of replacement type has been found in the beds overlying the main fissure structures.

The Triumph area is beset with a number of geological problems, one of which is splits into the footwall from what is considered the main vein. The normal strike of the Triumph vein is considered to be from N35W to N50W although a considerable portion of its known length strikes E-W and even some strikes S70W, all with a 20° to 40° dip to the SW or S. At one or two locations where the vein is striking E-W small veins or mineral bearing (quartz and pyrites and occasionally ZnS) structures have been noted taking off into the footwall along a normal Triumph strike. Unfortunately, not one of these footwall splits has ever been followed.

In this particular section of the Triumph Mine - the western half - no footwall work has been done below the 700 Level or 6150 feet elevation. On the 700 Level at an elevation of 6150 in the vicinity of North coordinate 11400 and east coordinate 7800 an isolated body of ore was encountered in the footwall zone. This particular small ore body appeared to have been formed by the intersection of a flat fault and what appeared to be a structure with a normal Triumph strike and dip coming up from below.

4. c. At north coordinate 9549 and east coordinate 7715 in the 10-894 Drift on the Triumph 1000 Level one of these footwall splits was crossed. This structure consisted of 6 to 10 inches of quartz with pyrites and was striking N30-35°W and dipping 35° to 40° SW. It is conceivable that this particular structure could open into one of economic importance somewhere within the limits of the block of ground described in (3-a). Also, if this structure should take on a more northerly strike or should flatten, it would be possible to project this F.W. structure cut on the 1000 Level into the area on the 700 Level at north coordinate 11140 and east coordinate 7800.

d. The Triumph Mine is easily accessible. It is located 12 miles by road from Hailey, Idaho, the county seat of Blaine County. The first 6 miles from Hailey to Triumph is via U.S. Highway #93 which is oiled as is the last 6 miles from U.S. #93 via county road to the mines. The Shoshone-Ketchum branch of the Union Pacific Railway has a spur at Gimlet which is 6 miles from the mine near the point where the automobile road turns off from U. S. Highway #93. Two major truck lines, Garrett Freightlines, Inc. and Orange Transportation Co. make deliveries at the mine.

The largest portion of the Triumph employees live either at Hailey or Bellevue which is 5 miles south of Hailey. These employees travel to and from the mine via bus. A limited number of employees live at the mine.

e. At the present time there is an over abundance of manpower in the area.

The Triumph Mine maintains a well stocked warehouse and has adequate supplies and equipment to carry out this project as well as to maintain its daily operation of mining and milling approximately 300 tons of ore. Triumph is within easy reach of supply centers, namely, Twin Falls, Boise and Salt Lake City.

The Triumph Mining Company maintains its own water supply and has adequate wells, pumps and tanks to more than meet its present or future needs.

Power is supplies to the Triumph Mining Company at Triumph by the Idaho Power Company. At the present time the Triumph Mine has a demand of around 1300 KW and uses between 600,00 and 700,000 KW hours per month. The following is the present schedule that the Triumph Mining Company has with the Idaho Power Company.

Monthly Demand Charge

$2.50 per KW for the first 10 KW of Demand
$1.15 per KW for each additional KW of Demand

Monthly Energy Charges

11.5 mills per KWH for first 100 KWH per KW of Demand
10.5 Mills per KWH for the next 15,000 KWH
7.0 mills per KWH for the next 25,000 KWH
4.0 mills per KWH for the 150 KWH per KW of Demand
2.85 mills per KWH for all additional KWH

5. a. The minerals to be explored for by this project are lead and zinc sulfides.

b. It is proposed to explore the area described in (3-a) by turning off the 10-894 Drift on the Triumph 1000 Level and drifting along o n the structure which cross the 10-894 Drift at north coordinate 9549 and east coordinate 7715. It is proposed to drift on this structure in a north-westerly direction for a distance of 2000 feet. At the point where this structure is seen on the 1000 Level it is striking N35W. Also, if the structure warrants it, four up dip raises each 200 feet in length should be put on this structure at 500 foot intervals.

A map is enclosed showing the present workings and the proposed work.

c. This work will start within 60 days and will be completed within 24 months after the date of the exploration project contract.

d. The Triumph Mining Company has been operating the Triumph Mine for the past 15 years and has been producing during that time an average of 7500 tons of silver, lead-zinc ores a month.

Mr. L. M. Rob inson the General Manager of the Triumph Mining Company is a graduate of the Texas School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 34 years.

Mr. C. C. Livingston the Mine Superintendent is a graduate of the University of Idaho School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 20 years.

6. a. No independent contracts.

b. See enclosed wage rates at the Triumph Mine.
Mine Superintendent Salary $750.00 per Month.
Mine Foreman Salary $575.00 per month.
Mine Shift Boss Salary $475.00 per month.
Chief Engineer and Geologist Salary $525.00 per month.
Assistant Engineer and Geologist Salary $483.00 per month.
Chief Accountant Salary $560.00 per month.

6. a,b,c,d,e,f,g and H on a unit cost basis

Cost per foot of a 7' x 5' (minimum) drift

Labor	$18.00
Supervision & engineering	2.75
Powder, caps, fuse	3.25
Rail	1.50
Bits and steel	1.15
Pipe	1.00
Fittings and hose	0.20
Ventilation Pipe	1.00
Power	1.75
Repair parts	0.50
Depreciation on Equipment	3.50
Insurance and payroll taxes	1.37
Lubricants	0.20

6. a,b,c,d,e,f,g and H on a unit cost basis

Cost per foot of a 7' x 5' (minimum) drift (Cont'd)

Total drift untimbered	$36.67
Timber	7.00
TOTAL DRIFT TIMBERED	$43.67

Cost per foot of a flat (10° - 45°) 5 x 7 Raise

Labor	$18.00
Supervision and Engineering	2.75
Powder, caps and fuse	3.25
Bits and steel	1.15
Pipe	.25
Power	1.75
Repair parts	.50
Depreciation on Equipment	3.50
Insurance and payroll taxes	1.87
Lubricants	.20
Timber	7.00
TOTAL	$40.22

6. g. Workmen's Compensation and employers' liability insurance and payroll taxes are included in the items listed above.

6. Estimated total cost of project:

2,000 Feet of Drifting	$ 87,340.00
800 Feet of Raises	32,176.00
TOTAL	$119,516.00

7. a. Triumph Mining Company is prepared to furnish its share of the costs of the proposed project in accordance with the regulations on Government participation.

b. The Triumph Mining Company is prepared to furnish its share in the costs in the form of money and in equipment.

EXHIBIT "A"

TRIUMPH MINING COMPANY
TRIUMPH, IDAHO

WAGE SCALE - EFFECTIVE OCTOBER 1, 1954

CLASS 1	RATE
Trammer	$13.74
Mucker	13.74
Motorman Helper	13.74
Drill Carg	13.74

CLASS 2	
Nipper	14.17
Water Hustler	14.17
Muggerman	14.17
Mill Helper	14.17
Tanger Helper	14.17
Timberman Helper	14.17
Carpenter Helper	14.17
Mechanic Helper	14.17
Electrician Helper	14.17
Sample Bucker	14.17

CLASS 3	
Crusher Operator	15.19
Ball Mill Operator	15.19
Shiftender	15.19
Miner	15.19
Motorman	15.19
Tracman	15.19
Hoistman Class "B"	15.19
Sager	15.19

CLASS 4	RATE
Sawyer	$15.69
Tractor Operator	15.69
Blacksmith	15.69

CLASS 5	
Steel Sharpener	15.97
Shaftsman	15.97
Hoistman Class "A"	15.97
Mechanic - Underground	15.97
Compressorman	15.97
Sampler	15.97
Timberman	15.97
Flotation Operator	15.97
Mechanic	15.97
Welder	15.97
Electrician	15.97
Armature Winder	15.97
Carpenter	15.97

HOURS PER SHIFT

Mine and Mill	8
Surface and Shops	7-1/2

CLASS "A" HOISTMAN - THOSE HOISTING MEN
CLASS "B" HOISTMAN - THOSE NOT HOISTING MEN

SHIFT DIFFERENTIALS

Day Shift	Base as shown above
Afternoon	4¢ per hour additional
Night	6¢ per hour additional
Graveyard	8¢ per hour additional

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
April 12, 1955

Defense Minerals Administration
RECEIVED
APR 12 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

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

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

An inspection of the Triumph mine was made on April 4, 1955 with Mr. Barrett and Mr. Carroll, mine engineers.

The project crosscut under Stage I was completed during the last month. The total footage is 755 feet, of which 750 feet is charged to the project. The face was in a hard blocky argillite.

A two-compartment slusher drift was driven, at roof level, in about 30 feet from the main crosscut. This slusher drift will be used instead of the conventional ore chute from the raise. Past experience has shown that the rock in the Triumph mine will hang and pile up in a chute until, in some instances, the chute is lost. The Operators believe that by dropping the rock directly from the raise to the drift this problem will be eliminated.

The slusher drift was nearly completed and raising was scheduled to start immediately.

The total contract units completed to April 4, 1955 are:

Stage I

	Authorized	Total completed
Crosscut	750 feet	750 feet
Timber	750 "	329 "
Roof bolts (and/or timbering)	750 "	184 " (290 bolts)

No work has been done under Stage II of the project.

The progress and workmanship have been very good.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
ALS/he

A. L. Service
A. L. Service

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
March 15, 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

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

Subject: Interim inspection, Docket No. DMEA 3394 (lead-zinc), Triumph Mining Co., Blaine County, Idaho, Contract No. Idm-E696

The Triumph mine was visited on March 7 with Mr. Carroll and Mr. Barrett, mine engineers.

The project crosscut has been advanced 154 feet since the last inspection. The ground has improved and timbering stopped at station 7396 + 46. The face was in a hard, blocky argillite that stood well, but was very hard to drill. Progress on the project has been good with about 9 feet remaining to finish the crosscut. The raise specified under item 2, Stage I, should start in a few days.

An amendment to permit roof bolting was approved and the Operator turned in 184 feet of roof bolting at $6.50 per foot. There were 290 roof bolts placed from station 7387 + 38 to station 7391 + 12. The roof bolts are apparently effective and considerable time and expense has been saved.

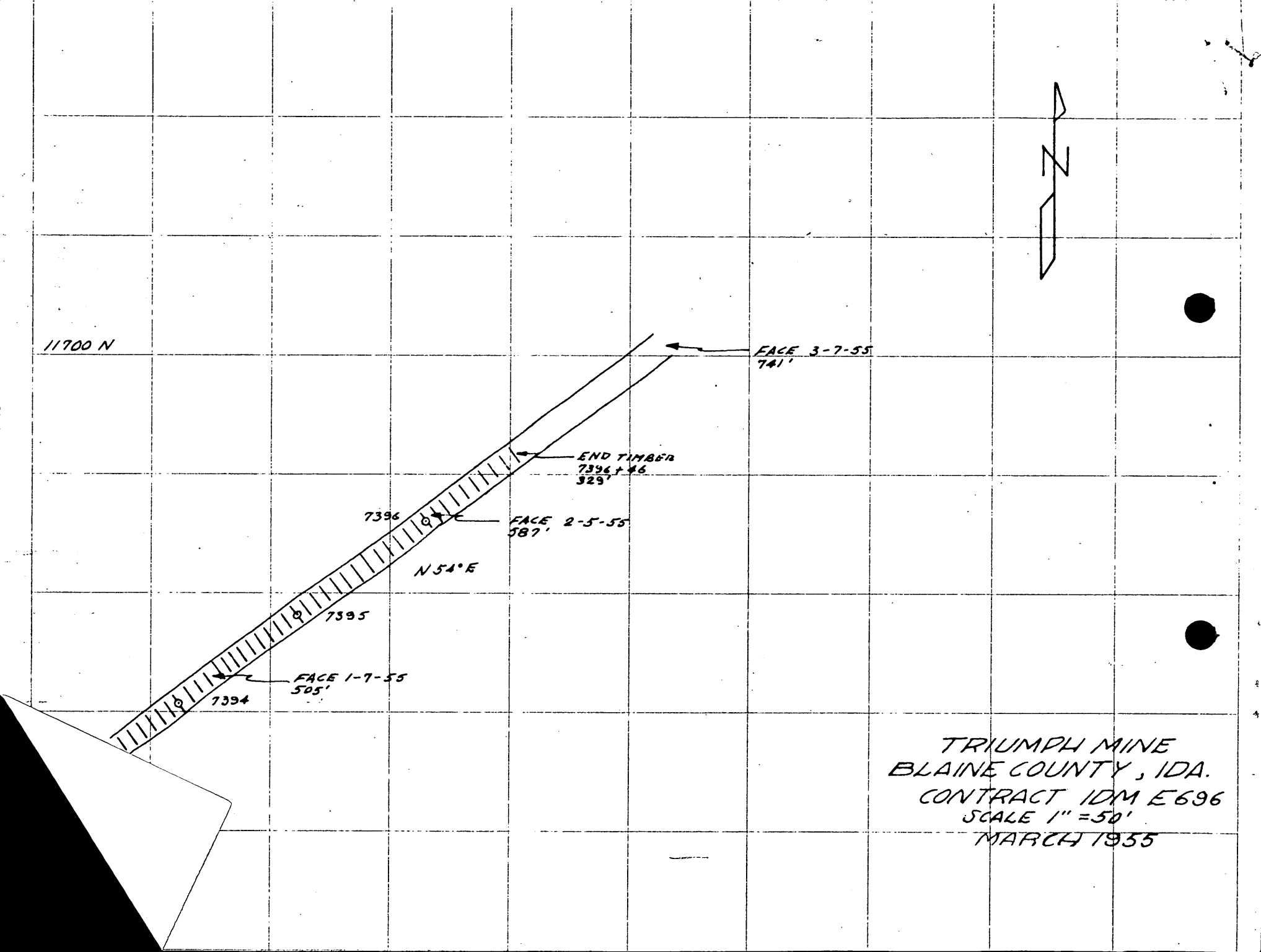
Total contract units completed to March 7 are:

Crosscut	741 feet
Timber	329 "
Roof bolting	184 " (290 bolts)

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
ALS/he

A. L. Service

A. L. Service


N
11700 N
FACE 3-7-55
741'
END TIMBER
7396 + 46
329'
7396
FACE 2-5-55
587'
N 54° E
7395
FACE 1-7-55
505'
7394
TRIUMPH MINE
BLAINE COUNTY, IDA.
CONTRACT IDM E696
SCALE 1" = 50'
MARCH 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

March 14, 1955

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-E696

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

Attachment

cc: Finance Office
USBM (2)
Nickelson

RECEIVED
MAR 23 1955
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

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)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
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 IDM-2696

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 adapt 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 $8.66 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.~~
1201 N. Division St.
Spokane 2, Washington
February 10, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: A. L. Service, mining engineer, Bureau of Mines

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

The property was inspected on February 5, 1955 with Mr. John Barrett, mine engineer.

The crosscut scheduled under item 1, Stage I, of the contract has advanced a total of 587 feet. The advance since the last inspection is 115 feet. Timbers have been required from station 7391 + 12. Progress for the month has been normal with no unusual conditions or problems encountered.

The present face of the drift is in argillite and calcite with small scattered quartz stringers. The cross section is about 9x8 feet. Timbers are set on 5-foot centers.

The average advance is about 6.5 feet per round with 30 to 35 holes. The workmanship and progress are good.

Total contract units completed to date are:

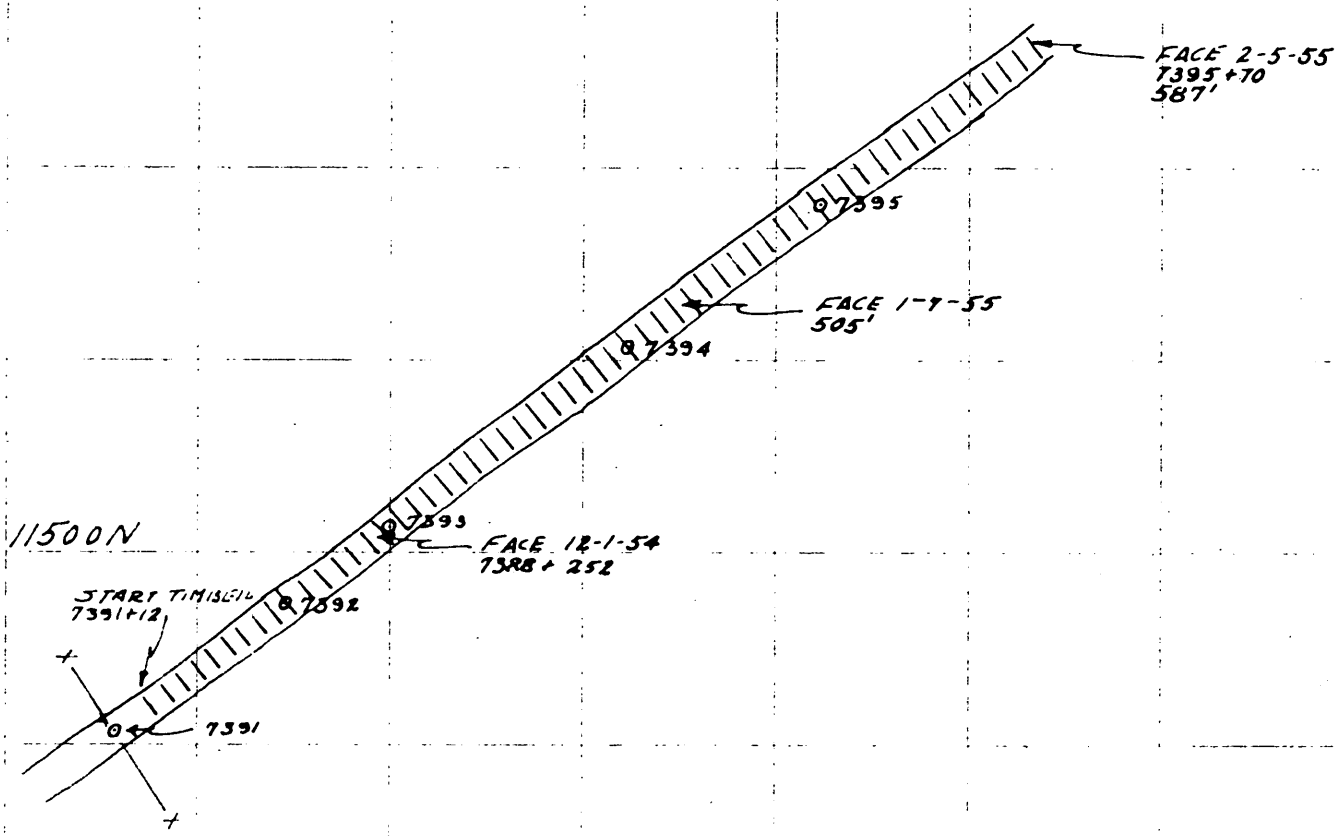
Crosscut	587 feet
Timber	286 "

If the present rate of advance continues, the crosscut will be finished during the month of February and the raise under item 2, Stage I, will be started.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
ALS/he

A. L. Service

A. L. Service



TRIUMPH MINING CO.
TRIUMPH, IDAHO
DMEA 3394 IDM E-696
1" = 50'

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
November 10, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: V. Z. Johnson, Mining Engineer, Bureau of Mines

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

The inspection was made on November 1, 1954 with Mr. John Barrett, mine engineer.

Two hundred and two feet of the 750-ft. crosscut scheduled under Item 1 of Stage I of this contract has been completed. From coordinates 11255 N and 8245 E on the main haulage level the project crosscut makes a gentle curve eastward and is then driven on a N. 55° E. course.

Timbering has not been required in the interbedded limestone quartzite bands. The cross section is unusually large - 9x8 feet.

Two Gardner-Denver jacklegs are used to drill 28 to 33 holes, 4 feet deep. An advance of about 3.7 feet has been the average for each round. One box of 40% dynamite is required per round. Thirteen 36 cu.ft. cars are usually broken by these rounds, and the Gardner-Denver rocker shovel completes mucking in about two hours. Incentive labor contracts are not used by this Operator. Two shifts of two men each are employed at the face.

The Operator is considering a raise at his own expense from near the present face to the overlying flat-dipping vein.

The advance and workmanship are good.

V. Z. Johnson

V. Z. Johnson

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
VZJ/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
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-3394 (lead-zinc)
Triumph Mining Company
Blaine County, Idaho
Contract No. Idm-E696

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,

A. E. Weissenborn

A. 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.~~
So. 157 Howard Street
Spokane 4, Washington

Docket

August 13, 1954

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 on 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)

File Copy
Surname
Griswold
Champion
Selfridge
Northrup

500

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

AUG 3 1954

Mr. A. E. 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 (J.H.B.)
Chairman, Operating Committee

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

Enclosures 6
APPROVED:

J. H. Hedges (J.H.B.)
Member, Bureau of Mines

Philip W. Guild (J.H.B.)
Member, Geological Survey

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

N. S. in Q. R.

August 4, 1954

Memorandum

To: Chairman, Operating Committee

From: Jay L. Chambers, Chief (Signed) J. L. Chambers
Contract Administration and Audit Division

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

I have summed the accompanying contract. I want to call attention however again to the fact that it would, in my opinion, be to the best interest of the Government to make contracts of this kind on a maximum cost basis, rather than an agreed unit cost basis.

All the cost items in this contract were figured by the Company and accepted by the Government as submitted. The only change is a small reduction in one type of work. A maximum unit cost contract limits the amount of money which the Government will pay and has the advantage of saving for the Government any costs below the estimates.

Attachment

JLChambers/wb
August 4, 1954

Copy to: Docket
Admr. Reading File
Mr. Chambers

File Copy
Surname

500

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

July 20, 1954

Memorandum

To: Acting Assistant Solicitor, DMEA

From: Chief, Base Metals Division

Subject: Docket No. DMEA-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.

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

July 20, 1954

Griswold
Betty

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Docket No. DMEA-3394: Triumph Mining Company, Blaine County, Idaho ($195,552)

I concur with the field team recommendation of June 29, 1954, approving the applicant's proposal to extend a branch of the main haulage level of the Triumph mine 750 feet, and if an ore structure is found to drift easterly and westerly. If no ore is found they propose 300 feet of vertical raising the work to be abandoned if no discovery is made, but if a vein is discovered they propose 1,900 feet of drifting with inclined raises on the vein to further test the ore structure.

The work appears to be well planned and should adequately test the target area as modified in the application. The costs seem reasonable as presented in the light of current day costs, as does the field team suggestion for revision of the block to be benefited by the exploration.

O. M. Bishop

O. M. Bishop

Copy to: Edward L. Newcomb
Minerals Division
O. M. Bishop
Files

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

July 20, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

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O. M. Bishop

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Copy to: Edward L. Newcomb
Minerals Division
O. M. Bishop
Files

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

July 20, 1954

Memorandum

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From: O. M. Bishop, USBM

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O. M. Bishop

O. M. Bishop

Copy to: Edward L. Newcomb
Minerals Division
O. M. Bishop
Files

IN REPLY REFER TO:

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

July 16, 1954

RE: DMEA-3394
Triumph Mining Co.
Warm Springs District
Blaine County, Idaho
$158,132
Lead-zinc

Memorandum

To: Mr. W. R. Griswold, DMEA

From: E. L. Newcomb, USGS

Subject: Recommendation for approval

The applicant requests exploration assistance to crosscut 750 feet, drift 1900 feet and raise 2,000-2,300 feet. The proposed work will explore for a favorable ore structure up dip from the Triumph mine in a block of ground located between the Triumph and Independence mine workings.

The field team has recommended the proposed work be approved. However, they have reduced the amount of raising to a maximum of 1,300 feet. Though the raises will not necessarily be equally spaced along the proposed drift they could theoretically be placed 400 feet apart. By reducing the amount of raising, the field team has brought this item within reasonable limits for exploration purposes.

I have reviewed the publications referred to by the field team. The proposed program is well planned, and thoroughly justified geologically by the data in these reports and in the field team report.

I recommend the project, as outlined by the field team, be approved.

E. L. Newcomb

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 16, 1954

RE: DMEA-3394
Triumph Mining Co.
Warm Springs District
Blaine County, Idaho
$158,132
Lead-zinc

Memorandum

To: Mr. W. R. Griswold, DMEA

From: E. L. Newcomb, USGS

Subject: Recommendation for approval

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I have reviewed the publications referred to by the field team. The proposed program is well planned, and thoroughly justified geologically by the data in these reports and in the field team report.

I recommend the project, as outlined by the field team, be approved.

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 16, 1954

RE: IMA-3394
Triumph Mining Co.
Warm Springs District
Blaine County, Idaho
158,132
Lead-zinc

Memorandum

To: Mr. W. R. Griswold, IMA

From: E. L. Newcomb, USGS

Subject: Recommendation for approval

The applicant requests exploration assistance to crosscut 750 feet, drift 1900 feet and raise 2,000-2,300 feet. The proposed work will explore for a favorable ore structure up dip from the Triumph mine in a block of ground located between the Triumph and Independence mine workings.

The field team has recommended the proposed work be approved. However, they have reduced the amount of raising to a maximum of 1,300 feet. Though the raises will not necessarily be equally spaced along the proposed drift they could theoretically be placed 400 feet apart. By reducing the amount of raising, the field team has brought this item within reasonable limits for exploration purposes.

I have reviewed the publications referred to by the field team. The proposed program is well planned, and thoroughly justified geologically by the data in these reports and in the field team report.

I recommend the project, as outlined by the field team, be approved.

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 16, 1954

RE: M A-3394
Triumph Mining Co.
Warm Springs District
Blaine County, Idaho
158,132
Lead-zinc

Memorandum

To: Mr. W. R. Grimwold, IM A

From: . L. Newcomb, USGS

Subject: Recommendation for approval

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The field team has recommended the proposed work be approved. However, they have reduced the amount of raising to a maximum of 1,300 feet. Though the raises will not necessarily be equally spaced along the proposed drift they could theoretically be placed 400 feet apart. By reducing the amount of raising, the field team has brought this item within reasonable limits for exploration purposes.

I have reviewed the publications referred to by the field team. The proposed program is well planned, and thoroughly justified geologically by the data in these reports and in the field team report.

I recommend the project, as outlined by the field team, be approved.

. L. Newcomb
Geologist

Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

July 1, 1954

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

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by Thor H. Kiilsgaard, Geological Survey, appraising the cited applicant's proposed exploration program.

Mr. Kiilsgaard notes that the application was reviewed by Mr. Zoldok, Bureau of Mines, and himself and that they approved the costs proposed by the applicant. Kiilsgaard recommends the program proposed by the applicant except that inclined raising be reduced to a total of 1,000 feet.

The Field Team concurs with the examiners and recommend granting a contract to the applicant, the work to be done at unit costs proposed in the application.

By Field Team, Region II

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

Thomas E. Howard
Thomas E. Howard
for: Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosures
cc: USBM(2)
Kiilsgaard

Reviewed by
DMEA OPERATING COMMITTEE

7-9-54
(date)

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

June 29, 1954

8/A/54

MEMORANDUM

To: DMEA Field Team, Region II

From: Thor H. Kiilsgaard, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3394 (Lead-Zinc), Review of Triumph Mining Company Application, Blaine County, Idaho.

RECOMMENDATION

It is recommended that the cited application be approved, the work to be done at unit costs proposed in the application. All proposed work is recommended except the inclined raising which should be reduced to a total length of 1,000 feet.

INTRODUCTION

On June 18, 1953, we forwarded from this office an application submitted by the Triumph Mining Company, whose Triumph mine is in Blaine County, Idaho. In our forwarding letter we stated that all proposed costs had been checked by DMEA examiners before the final draft of the application was prepared, therefore, no cost analysis would be submitted. We also stated that as our field men were familiar with the property, no field examination would be scheduled but that an appraisal of the proposed project would be prepared from data on hand. This memorandum is intended to evaluate the applicant's proposal and to describe briefly the geologic justification for the proposed work.

GEOLOGY

The geology and location of the Triumph area is described in the following reports:

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

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.

Reviewed by
DMEA OPERATING COMMITTEE

7-9-54
(date)

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

As these reports deal extensively with the regional geology of the Triumph area, only the veins to be explored will be discussed herein. Production statistics, although not up-to-date, can also be obtained from these publications.

Three strong veins have been productive in the Triumph area. These are the North Star, Triumph, and Independence. These veins are members of an imbricate vein pattern, formed from thrust faults, striking northwest and dipping rather gently to the southwest. The North Star vein crops out farthest to the east and is uppermost in the vein pattern. In the No. 3 tunnel of the Triumph mine the North Star vein overlies the Triumph vein by about 200 feet, but it merges with the Triumph vein on lower mine levels (see figure 18 in Killsgaard's report). As shown on the Composite Plan map submitted with the application, the North Star vein has been productive from about the East 12,600 coordinate to the East 10,500 coordinate, and from the outcrop down the dip of the vein for about 1,500 feet. On the outcrop the vein strikes across a ridge known as North Star Peak. East of this ridge, the outcrop is lost in North Star Canyon. West of the ridge, the outcrop disappears in Rose Gulch, but where followed underground to the west the vein flattens in dip, becomes barren, and very difficult to trace. There is even the possibility that it merges with the Triumph vein, although this has not been proven in the western area. The location of the vein in the western part of the mine is also complicated by a number of faults which have offset it.

The Triumph vein has a very short outcrop of a few hundred feet along the eastern side of Rose Gulch, passing through that block of ground bounded by coordinates 10,000 and 12,000 East, and 10,000 and 11,600 North, as shown on the Triumph claim map, copies of which accompany the application. As seen in figure 18 of Killsgaard's report, the Triumph vein has been largely undeveloped between the outcrop and the No. 3 tunnel level. This area presents excellent exploration possibilities. Below the No. 3 tunnel level the vein has been developed to the 1000 level, a total down-dip distance from the outcrop of about 3,250 feet. Maximum strike length of the productive part of the vein is difficult to measure but appears to be on the order of 2,000 feet.

The vein is not a simple fissure but instead is a complex zone as much as 50 feet thick from footwall to hanging wall. A number of less important but productive veins branch off from the Triumph vein. The ore produced from the Triumph has been in part fissure ore from the vein and in part replacement ore from limestone beds intersected by the vein. One of these replacement ore

bodies -- the "complex" body -- ranged from 6 to 50 feet in thickness, having a strike length of 700 feet and a dip length of 170 feet. Ore from this deposit averaged 0.02 ounce gold, 6.50 ounces silver, 5.90 percent lead, and 13.00 percent zinc.

Ore bodies in the Triumph fissure zone rake from east to west, as may be seen on the composite map. The downward extension of these bodies was being explored on and from the 1000 level during the winter of 1952-53, when the 1000 level heading hit an enormous flow of water that completely flooded the lower levels of the mine. When the mine was dewatered, it was found that the 1000 level had been largely demolished and was unusable. Exploration on and below that level has not been resumed; therefore, little is known of the characteristics of the ore bodies in those lower areas, although the ore is known to extend below the 1000 level.

In following the raking Triumph ore bodies to the west, the vein was found to be sinuous both in strike and in dip. Also, the vein zone was found to be offset by numerous faults. In those areas where the vein flattened the ore pinched out, elsewhere, in areas of normal dip -- about 30 degrees -- the vein was productive. In the flattened areas although the ore became nonproductive, there was a considerable amount of crushed and broken lead-zinc mineralization throughout the fissured area. This would imply that the flattened areas of the vein are actually caused by post-mineral flat faults instead of changes in dip, as postulated in cross section A-A', as submitted with the application.

The Independence vein crops out on the north side of Independence peak. It is the lowermost of the Triumph vein series, lying about 800 feet below the projected outcrop of the Triumph vein, but trending roughly parallel to it. The Independence is the smallest producer of the three veins, having been productive from the outcrop down dip for about 700 feet and along the strike for an over-all distance of about 1,000 feet. The mine has been inactive since 1922. Below the 6 level the dip of the vein flattened abruptly and the vein ceased to be productive. At the time the mine was producing, the ore was milled at the Independence mill near the head of Independence Gulch. The mill had a limited water supply and was in a snowslide area; therefore, to facilitate operations, the Plummer tunnel was driven from the North Star surface plant to tap the downward extension of the Independence vein and to be used primarily as a haulage level of Independence ore, which was to be milled in the North Star mill. From the Plummer tunnel, the No. 1 raise was driven to help through on the 6 level of the Independence mine (see plate 23, U. S. Geol. Survey Bull. 814). The 10 level was driven off this raise to intersect the flattened Independence vein, but it was not extended far enough to accomplish this purpose.

In driving the Plummer tunnel a strong but barren structure having a similar attitude of the Independence vein was intersected several hundred feet south of the foot of the No. 1 raise. This vein was so far to the south that it was not suspected as being the Independence vein and consequently was never explored. Subsequent development in the Triumph mine on lower levels indicates that it is the Independence vein and this is one of the reasons why the applicant now wishes to explore the proposed target area, as the vein would project westerly and at lower levels into the area to be explored.

APPLICANT'S PROPOSAL

The applicant proposes to extend a branch of the main haulage level of the Triumph mine, the 70-820 crosscut, in a N. 55°E. direction for a distance of 750 feet or until a strong vein structure is discovered. If a vein is found, it will be drifted on both easterly and westerly, but if no vein is found, a maximum of 300 feet of vertical raise will be driven from a point 700 feet from where project work in the 70-820 crosscut began. If no vein is found in the raise, the project will be abandoned, but if a vein is found -- a very good probability -- it will be drifted on 500 feet westerly and 1,400 feet easterly. From these drifts, a total of 2,000 feet of inclined raises are to be driven to further test the structure explored by the drifts.

DISCUSSION OF APPLICANT'S PROGRAM

A casual glance at the applicant's Composite Plan map indicates that the Triumph veins form an imbricate but an echelon pattern with the North Star being uppermost and farthest to the east; the Triumph being in the center and being the most explored on lower western levels; and the Independence being lowermost and whose outcrop is farthest to the west. There is strong reason to believe that the Triumph and North Star merge, at least locally, although this fact is believed to have been proven in only one working place. There is also reason to believe that the Triumph and Independence veins merge on dip although this cannot be proven. Such a merger is indicated on the applicant's cross section A-A, although it is just as easy to believe in this section that the Triumph vein weaves upward to crop out at the site of the Keuninger hanging wall and footwall veins, and that the Independence vein passes in the footwall beneath the Triumph workings. The fact is that the Triumph, since 1927, has mined in good ore in the Triumph fissure area and has done very little exploration for the very simple reason that there has been little need for exploration. The present proposed program marks the first time they have seriously considered testing the footwall of the Triumph zone.

The target area they propose to test has excellent possibilities. They will determine whether the Independence vein continues downward as a footwall structure, in which case the vein should be hit in the 700 level crosscut. There are even good possibilities that ore will be found in the 70-820 crosscut. Farther to the northwest the 70-759 drift followed a strong vein containing small bodies of good ore, but for the most part the vein had a flat dip, was badly broken and quite barren. If the vein is intersected in the proposed 70-820 crosscut, in a segment with a steep dip, it could be productive. If no vein is found in the crosscut, they will raise to intersect what would appear to be the merger of the Independence and Triumph veins. Because of the difference in elevation between the Triumph 700 level and the Independence 6 level and because of the flattened dip of the Triumph vein in the area southwest of the target area and the flattened dip of the Independence vein below the 6 level, there has to be an interval in the intervening area where the dip of the vein is steeper. The proposed vertical raise, drifting, and inclined raises are designed to explore that part of the vein having a steeper dip, as diagrammatically shown in section A-A'. As the bulk of the ore mined in the three veins has come from steeper-dipping sections of the veins, it is logical to assume the anticipated steeper-dipping section in the target area will also be productive. The exploration possibilities are doubly enhanced by the existence of a productive zone in the Independence mine above the area to be explored and one below in the Triumph. Added to the possibility of a merger of the Triumph and Independence at depth is the possibility of Koeninger veins and other known veins extending into the target area. There is also known to be limestone beds in this footwall area. If these beds intersect the vein system, there is the possibility of other replacement deposits such as were mined in the Triumph.

The proposed exploration work appears to be well planned and should adequately test the target area. All of the work is justified except the excessive amount of inclined raising. As shown on the applicant's composite map the raising would actually develop the block for mining. It is, therefore, recommended that only 1,000 feet of inclined raising be allocated in the contract instead of the 2,000 feet requested. The raises to be driven would not be of uniform length and spacing as shown on the applicant's map, but would be located at sites jointly approved by the operator and the Government. Their purpose would be not to block out ore but to test the extent of the ore bodies. As the ore will probably occur on a dip of about 30 degrees and as it will probably rake to the west, it can best be explored by inclined raises. This will be particularly true in those areas where the dip is flatter than 30 degrees. It is believed, however, that 1,000 feet of inclined raising is sufficient to test the target area.

GROUND TO BE COVERED IN THE CONTRACT

On the Triumph claim map, the applicant has shown by a red line the block of ground to be covered in the contract. Listed in the application are the claims or fractions of claims falling within these marked limits. The proposed intermediate level drifting would extend from the eastern to the western limits of this block of ground.

In setting up the block of ground for the contract, the applicant did not intend to establish limits at the points where drifting would cease. Instead, the applicant confined the limits to that area where ore was expected. In other words, ore is not expected beyond the eastern and western block limits, as ore was not found beyond those limits in either the Independence or Triumph mines. By the same reasoning, the up-dip portion of the vein northeast of the northern limits will be in an area of flattened dip where ore is not expected, as will the down-dip extension of the vein between the southwestern border of the block and the lower Triumph mine workings. When it was explained to Mr. Livingston, mine superintendent for the applicant, that drifting would extend to the eastern and western limits of the block, he readily agreed to change the shape of this block of ground. On the basis of this conversation, it is proposed to limit the block of ground to the claim outlines, except for the southern side which will remain as is, except that the block will extend on a due east line from the southeast corner in the Oro claim to the eastern edge of the Mayleaf claim, and on a due west line from the southwest corner in the Edham Pasha claim to the western-end line of the Edham Pasha claim. A small overlay map showing this proposed change in ground outline is enclosed. It is believed this proposed ground is adequate for contract purposes.

APPLICANT

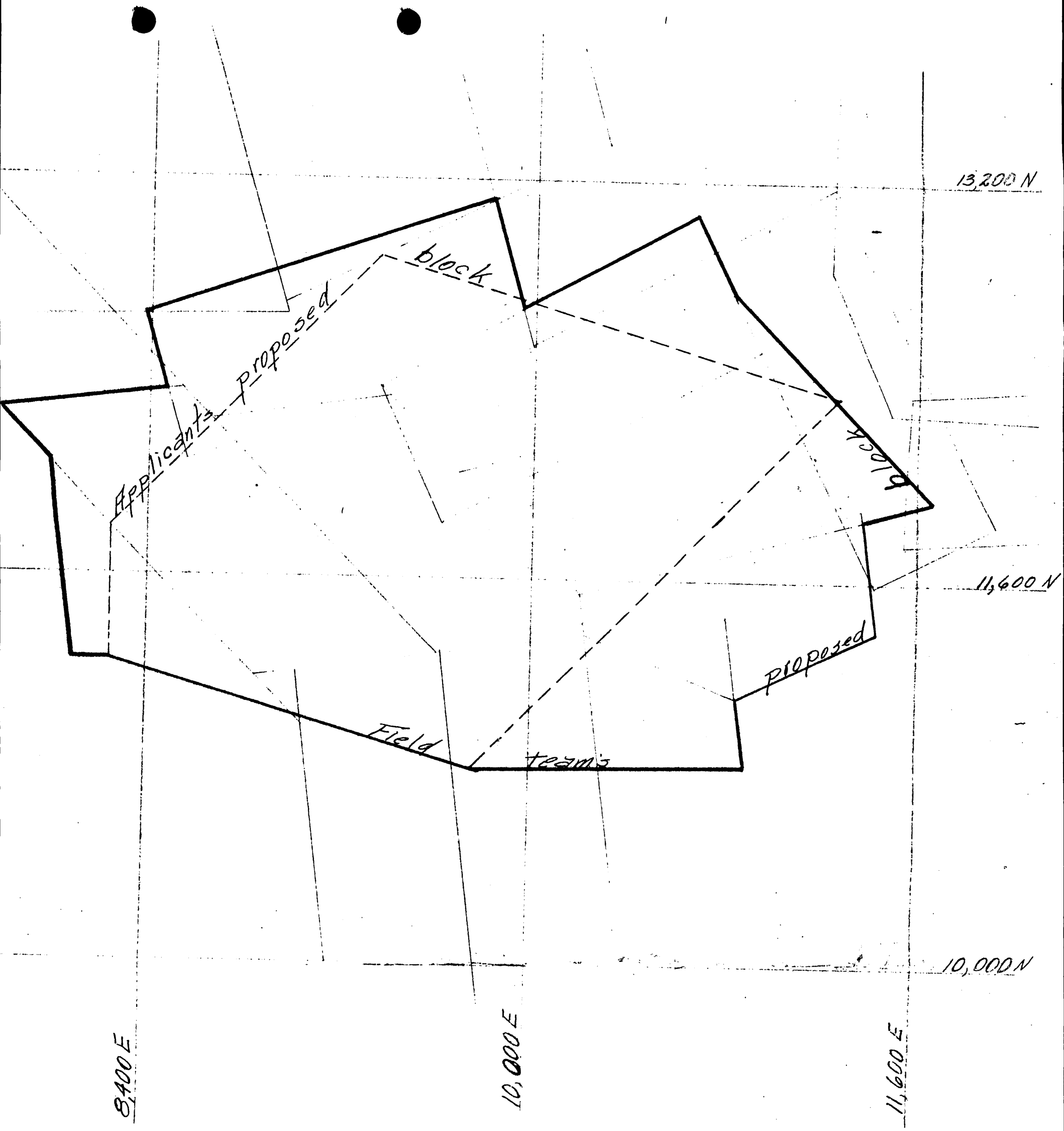
The Triumph mine has been an active producer of lead, zinc, and silver since 1927, for the past 15 years being operated by the Triumph Mining Company. Throughout most of that time it has been one of the larger producers in the State of Idaho. It is the largest lead-zinc producer outside of the Coeur d'Alene district, for several years being rated as the fifth largest producer in the state. Total production of the Triumph properties has not been determined but is believed to be in excess of $30,000,000.

The property is well managed by capable engineers and well stocked with equipment and supplies. It is believed the proposed program would be handled efficiently by the Triumph people and to the satisfaction of the Government.

COST ANALYSIS

Mr. C. C. Livingston, mine superintendent for the applicant, brought a rough draft of the application to this office for analysis by DMEA personnel. Mr. Steve Zoldok, Bureau of Mines engineer, and the writer, went over these costs and suggested certain changes which were subsequently incorporated into the revised application. As the costs proposed in the application were acceptable to the examiners, it is recommended that they be incorporated into the proposed contract.

Enclosure
Distribution:
DMEA(4)
USBM(2)
USGS(SRO)
Killsgaard
Vhay
Docket



Overlay For Triumph Claim Map

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

July 1, 1954

Sherwold
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

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by Thor H. Kiilsgaard, Geological Survey, appraising the cited applicant's proposed exploration program.

Mr. Kiilsgaard notes that the application was reviewed by Mr. Zoldok, Bureau of Mines, and himself and that they approved the costs proposed by the applicant. Kiilsgaard recommends the program proposed by the applicant except that inclined raising be reduced to a total of 1,000 feet.

The Field Team concurs with the examiners and recommend granting a contract to the applicant, the work to be done at unit costs proposed in the application.

By Field Team, Region II

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

Thomas E. Howard
for: Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosures
cc: DSBM(2)
Kiilsgaard

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

June 29, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: Thor H. Kiilsgaard, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3394 (Lead-Zinc), Review of Triumph Mining Company Application, Blaine County, Idaho.

RECOMMENDATION

It is recommended that the cited application be approved, the work to be done at unit costs proposed in the application. All proposed work is recommended except the inclined raising which should be reduced to a total length of 1,000 feet.

INTRODUCTION

On June 18, 1953, we forwarded from this office an application submitted by the Triumph Mining Company, whose Triumph mine is in Blaine County, Idaho. In our forwarding letter we stated that all proposed costs had been checked by DMEA examiners before the final draft of the application was prepared, therefore, no cost analysis would be submitted. We also stated that as our field men were familiar with the property, no field examination would be scheduled but that an appraisal of the proposed project would be prepared from data on hand. This memorandum is intended to evaluate the applicant's proposal and to describe briefly the geologic justification for the proposed work.

GEOLOGY

The geology and location of the Triumph area is described in the following reports:

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

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. Geol. Survey files, Detailed Report on Triumph Mine, Blaine County, Idaho, by C. W. Merriam and C. N. Bozion, 1942.

As these reports deal extensively with the regional geology of the Triumph area, only the veins to be explored will be discussed herein. Production statistics, although not up-to-date, can also be obtained from these publications.

Three strong veins have been productive in the Triumph area. These are the North Star, Triumph, and Independence. These veins are members of an imbricate vein pattern, formed from thrust faults, striking northwest and dipping rather gently to the southwest. The North Star vein crops out farthest to the east and is uppermost in the vein pattern. In the No. 3 tunnel of the Triumph mine the North Star vein overlies the Triumph vein by about 200 feet, but it merges with the Triumph vein on lower mine levels (see figure 18 in Killsgaard's report). As shown on the Composite Plan map submitted with the application, the North Star vein has been productive from about the East 12,600 coordinate to the East 10,500 coordinate, and from the outcrop down the dip of the vein for about 1,500 feet. On the outcrop the vein strikes across a ridge known as North Star Peak. East of this ridge, the outcrop is lost in North Star Canyon. West of the ridge, the outcrop disappears in Rose Gulch, but where followed underground to the west the vein flattens in dip, becomes barren, and very difficult to trace. There is even the possibility that it merges with the Triumph vein, although this has not been proven in the western area. The location of the vein in the western part of the mine is also complicated by a number of faults which have offset it.

The Triumph vein has a very short outcrop of a few hundred feet along the eastern side of Rose Gulch, passing through that block of ground bounded by coordinates 10,000 and 12,000 East, and 10,000 and 11,600 North, as shown on the Triumph claim map, copies of which accompany the application. As seen in figure 18 of Killsgaard's report, the Triumph vein has been largely undeveloped between the outcrop and the No. 3 tunnel level. This area presents excellent exploration possibilities. Below the No. 3 tunnel level the vein has been developed to the 1000 level, a total down-dip distance from the outcrop of about 3,250 feet. Maximum strike length of the productive part of the vein is difficult to measure but appears to be on the order of 2,000 feet.

The vein is not a simple fissure but instead is a complex zone as much as 40 feet thick from footwall to hanging wall. A number of less important but productive veins branch off from the Triumph vein. The ore produced from the Triumph has been in part fissure ore from the vein and in part replacement ore from limestone beds intersected by the vein. One of these replacement ore

bodies -- the "complex" body -- ranged from 6 to 50 feet in thickness, having a strike length of 700 feet and a dip length of 170 feet. Ore from this deposit averaged 0.02 ounce gold, 6.50 ounces silver, 5.90 percent lead, and 13.00 percent zinc.

Ore bodies in the Triumph fissure zone rake from east to west, as may be seen on the composite map. The downward extension of these bodies was being explored on and from the 1000 level during the winter of 1952-53, when the 1000 level heading hit an enormous flow of water that completely flooded the lower levels of the mine. When the mine was dewatered, it was found that the 1000 level had been largely demolished and was unusable. Exploration on and below that level has not been resumed; therefore, little is known of the characteristics of the ore bodies in those lower areas, although the ore is known to extend below the 1000 level.

In following the raking Triumph ore bodies to the west, the vein was found to be sinuous both in strike and in dip. Also, the vein zone was found to be offset by numerous faults. In these areas where the vein flattened the ore pinched out, elsewhere, in areas of normal dip -- about 30 degrees -- the vein was productive. In the flattened areas although the ore became nonproductive, there was a considerable amount of crushed and broken lead-zinc mineralization throughout the fissured area. This would imply that the flattened areas of the vein are actually caused by post-mineral flat faults instead of changes in dip, as postulated in cross section A-A', as submitted with the application.

The Independence vein crops out on the north side of Independence peak. It is the lowermost of the Triumph vein series, lying about 800 feet below the projected outcrop of the Triumph vein, but trending roughly parallel to it. The Independence is the smallest producer of the three veins, having been productive from the outcrop down dip for about 700 feet and along the strike for an over-all distance of about 1,000 feet. The mine has been inactive since 1922. Below the 6 level the dip of the vein flattened abruptly and the vein ceased to be productive. At the time the mine was producing, the ore was milled at the Independence mill near the head of Independence Gulch. The mill had a limited water supply and was in a snowslide area; therefore, to facilitate operations, the Plummer tunnel was driven from the North Star surface plant to tap the downward extension of the Independence vein and to be used primarily as a haulage level of Independence ore, which was to be milled in the North Star mill. From the Plummer tunnel, the No. 1 raise was driven to hole through on the 6 level of the Independence mine (see plate 23, U. S. Geol. Survey Bull. 814). The 10 level was driven off this raise to intersect the flattened Independence vein, but it was not extended far enough to accomplish this purpose.

In driving the Plummer tunnel a strong but barren structure having a similar attitude of the Independence vein was intersected several hundred feet south of the foot of the No. 1 raise. This vein was so far to the south that it was not suspected as being the Independence vein and consequently was never explored. Subsequent development in the Triumph mine on lower levels indicates that it is the Independence vein and this is one of the reasons why the applicant now wishes to explore the proposed target area, as the vein would project westerly and at lower levels into the area to be explored.

APPLICANT'S PROPOSAL

The applicant proposes to extend a branch of the main haulage level of the Triumph mine, the 70-820 crosscut, in a N. 55°E. direction for a distance of 750 feet or until a strong vein structure is discovered. If a vein is found, it will be drifted on both easterly and westerly, but if no vein is found, a maximum of 300 feet of vertical raise will be driven from a point 700 feet from where project work in the 70-820 crosscut began. If no vein is found in the raise, the project will be abandoned, but if a vein is found -- a very good probability -- it will be drifted on 500 feet westerly and 1,400 feet easterly. From these drifts, a total of 2,000 feet of inclined raises are to be driven to further test the structure explored by the drifts.

DISCUSSION OF APPLICANT'S PROGRAM

A casual glance at the applicant's Composite Plan map indicates that the Triumph veins form an imbricate but en echelon pattern with the North Star being uppermost and farthest to the east; the Triumph being in the center and being the most explored on lower western levels; and the Independence being lowermost and whose outcrop is farthest to the west. There is strong reason to believe that the Triumph and North Star merge, at least locally, although this fact is believed to have been proven in only one working place. There is also reason to believe that the Triumph and Independence veins merge on dip although this cannot be proven. Such a merger is indicated on the applicant's cross section A-A, although it is just as easy to believe in this section that the Triumph vein weaves upward to crop out at the site of the Kouninger hanging wall and footwall veins, and that the Independence vein passes in the footwall beneath the Triumph workings. The fact is that the Triumph, since 1927, has mined in good ore in the Triumph fissure area and has done very little exploration for the very simple reason that there has been little need for exploration. The present proposed program marks the first time they have seriously considered testing the footwall of the Triumph zone.

The target area they propose to test has excellent possibilities. They will determine whether the Independence vein continues downward as a footwall structure, in which case the vein should be hit in the 700 level crosscut. There are even good possibilities that ore will be found in the 70-820 crosscut. Farther to the northwest the 70-759 drift followed a strong vein containing small bodies of good ore, but for the most part the vein had a flat dip, was badly broken and quite barren. If the vein is intersected in the proposed 70-820 crosscut, in a segment with a steep dip, it could be productive. If no vein is found in the crosscut, they will raise to intersect what would appear to be the merger of the Independence and Triumph veins. Because of the difference in elevation between the Triumph 700 level and the Independence 6 level and because of the flattened dip of the Triumph vein in the area southwest of the target area and the flattened dip of the Independence vein below the 6 level, there has to be an interval in the intervening area where the dip of the vein is steeper. The proposed vertical raise, drifting, and inclined raises are designed to explore that part of the vein having a steeper dip, as diagrammatically shown in section A-A'. As the bulk of the ore mined in the three veins has come from steeper-dipping sections of the veins, it is logical to assume the anticipated steeper-dipping section in the target area will also be productive. The exploration possibilities are doubly enhanced by the existence of a productive zone in the Independence mine above the area to be explored and one below in the Triumph. Added to the possibility of a merger of the Triumph and Independence at depth is the possibility of Koeninger veins and other known veins extending into the target area. There is also known to be limestone beds in this footwall area. If these beds intersect the vein system, there is the possibility of other replacement deposits such as were mined in the Triumph.

The proposed exploration work appears to be well planned and should adequately test the target area. All of the work is justified except the excessive amount of inclined raising. As shown on the applicant's composite map the raising would actually develop the block for mining. It is, therefore, recommended that only 1,000 feet of inclined raising be allocated in the contract instead of the 2,000 feet requested. The raises to be driven would not be of uniform length and spacing as shown on the applicant's map, but would be located at sites jointly approved by the operator and the Government. Their purpose would be not to block out ore but to test the extent of the ore bodies. As the ore will probably occur on a dip of about 30 degrees and as it will probably rake to the west, it can best be explored by inclined raises. This will be particularly true in those areas where the dip is flatter than 30 degrees. It is believed, however, that 1,000 feet of inclined raising is sufficient to test the target area.

GROUND TO BE COVERED IN THE CONTRACT

On the Triumph claim map, the applicant has shown by a red line the block of ground to be covered in the contract. Listed in the application are the claims or fractions of claims falling within these marked limits. The proposed intermediate level drifting would extend from the eastern to the western limits of this block of ground.

In setting up the block of ground for the contract, the applicant did not intend to establish limits at the points where drifting would cease. Instead, the applicant confined the limits to that area where ore was expected. In other words, ore is not expected beyond the eastern and western block limits, as ore was not found beyond those limits in either the Independence or Triumph mines. By the same reasoning, the up-dip portion of the vein northeast of the northern limits will be in an area of flattened dip where ore is not expected, as will the down-dip extension of the vein between the southwestern border of the block and the lower Triumph mine workings. When it was explained to Mr. Livingston, mine superintendent for the applicant, that drifting would extend to the eastern and western limits of the block, he readily agreed to change the shape of this block of ground. On the basis of this conversation, it is proposed to limit the block of ground to the claim outlines, except for the southern side which will remain as is, except that the block will extend on a due east line from the southeast corner in the Ore claim to the eastern edge of the Mayleaf claim, and on a due west line from the southwest corner in the Edham Pasha claim to the western-end line of the Edham Pasha claim. A small overlay map showing this proposed change in ground outline is enclosed. It is believed this proposed ground is adequate for contract purposes.

APPLICANT

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The property is well managed by capable engineers and well stocked with equipment and supplies. It is believed the proposed program would be handled efficiently by the Triumph people and to the satisfaction of the Government.

COST ANALYSIS

Mr. C. C. Livingston, mine superintendent for the applicant, brought a rough draft of the application to this office for analysis by DMEA personnel. Mr. Steve Zoldok, Bureau of Mines engineer, and the writer, went over these costs and suggested certain changes which were subsequently incorporated into the revised application. As the costs proposed in the application were acceptable to the examiners, it is recommended that they be incorporated into the proposed contract.

Enclosure
Distribution:
DMEA(4)
USBM(2)
USGS(SRO)
Killsgaard
Vhay
Docket

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

June 21, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA-3394 Triumph Mining Co.

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

June 21, 1954

Triumph Mining Co.
Triumph
Idaho

Subject: DMEA-3394
Re: Exploration Assistance
Triumph Mine

Gentlemen:

The receipt of your application dated June 9, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3394 and referred to the Base Metals Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

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

June 18, 1954

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

Re: DMEA application (lead-zinc)
Triumph Mining Company
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by the Triumph Mining Company, Triumph, Idaho. One copy of the application has been retained for the files of this office.

The applicant proposes to explore by crosscutting, raising, and drifting an untested area between the Triumph and Independence mines. The target area is considered to have excellent possibilities both by the applicant and by DMEA personnel familiar with the area. Included in the target area is not only the downward projection of the Independence vein, a notable producer on upper levels, but also a number of parallel veins of somewhat lesser importance.

The geology of the area is described in the following publications:

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

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.

In addition to these two published reports is an unpublished report in the U. S. Geological Survey files entitled "Detailed Report on the Triumph mine," Blaine County, Idaho, by C. W. Merriam and C. N. Bozion, 1942.

Prior to submitting the application, Mr. C. C. Livingston, mine superintendent for the applicant, called at this office and presented a rough draft of the application, which was thoroughly examined by Steve Zoldok, Bureau of Mines, and Thor Kiilsgaard, Geological Survey. The proposed work and costs were studied in detail and certain changes were suggested. These changes have since been incorporated in the application.

As the proposed costs have been analyzed and found acceptable, and as the proposed exploration work is believed to be the most feasible way of testing the target area, no field examination of the applicant's property will be scheduled. Instead, a Field Team memorandum describing the geology and the proposed work will be prepared, this memo to be based on information now in our possession.

The Field Team will recommend granting the applicant a contract to do the proposed work, less some of the inclined raising, the work to be at unit costs requested in the application.

By Field Team, Region II

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

Thor H. Kiilsgaard, Acting Member
U. S. Geological Survey

Enclosure

cc: USBM (2)

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

June 18, 1954

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

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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.

In addition to these two published reports is an unpublished report in the U. S. Geological Survey files entitled "Detailed Report on the Triumph mine," Blaine County, Idaho, by C. W. Merriam and C. N. Bozion, 1942.

Prior to submitting the application, Mr. C. C. Livingston, mine superintendent for the applicant, called at this office and presented a rough draft of the application, which was thoroughly examined by Steve Zoldok, Bureau of Mines, and Thor Kiilsgaard, Geological Survey. The proposed work and costs were studied in detail and certain changes were suggested. These changes have since been incorporated in the application.

As the proposed costs have been analyzed and found acceptable, and as the proposed exploration work is believed to be the most feasible way of testing the target area, no field examination of the applicant's property will be scheduled. Instead, a Field Team memorandum describing the geology and the proposed work will be prepared, this memo to be based on information now in our possession.

The Field Team will recommend granting the applicant a contract to do the proposed work, less some of the inclined raising, the work to be at unit costs requested in the application.

By Field Team, Region II

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

Thor H. Kiilsgaard, Acting Member
U. S. Geological Survey

Enclosure

cc: USBM (2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN 14 1954
U. S. G. S.
SPOKANE, WASH.

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3394
Metal or Mineral Lead-Zinc
Date Received
Estimated Cost $195,552
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: TRIUMPH MINING CO.
TRIUMPH, IDAHO

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known.

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

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

(*e*) If you own the land, describe any liens or encumbrances on it

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

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

.....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated June 9, 1954

TRIUMPH MINING COMPANY
(Applicant)

By [signature]
President

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

700 MINE PROJECT

1. a. Triumph Mining Company, Triumph, Idaho

b. A corporation incorporated under the laws of the State of Idaho February 23, 1940.

c. J. W. Sweet, President, 100 Bush Street, San Francisco, California
E. H. Snyder, Vice President, Box 150, Salt Lake City, Utah
J. W. Hamilton, Secretary, 100 Bush St., San Francisco, California
L. M. Robinson, General Manager, Triumph, Idaho

d. Does not apply.

3. a. Beginning at a point which is 771.11 feet S34°24.5'E of the 1/4 corner between Sections 22 and 23, T4N, R18E, B.M., Blaine County, Idaho and which is at Triumph north coordinate 11255 and east coordinate 8245; thence, north 540 feet to Triumph north coordinate 11795 and east coordinate 8245; thence, N45°E 1550 feet to Triumph north coordinate 12091 and east coordinate 9341; thence, N74°E 2000 feet to Triumph north coordinate 12340 and east coordinate 11263; thence, S45°W 2150 feet to Triumph north coordinate 10880 and east coordinate 9743; thence, N73°45'W 1551 feet to the point of beginning. This block of ground is covered by the following lode claims.

Patented Claims		Unpatented Claims
Hilma Fedin	Hannibal	Fraction
Ben Harrison	Dunaki	Silver
Western	Mayleaf	
Bela	Gro	
Silver Bullion	Zeller	
Sanlaraki	Helen Fraction	

b. Triumph Mine

c. All land which is described in (3-a) is owned by the Triumph Mining Company.

d. Does not apply

e. No liens or encumbrances on the land described in (3a).

f. A portion of the following unpatented lode claims covers a part of the land described in (3-a). Linked along with the claim is the book and page number where it is recorded in the Blaine County Recorder's Office

Fraction	Bk. 131 pp 380
Silver	Bk. 131 pp 400

4. a. There has been no underground work done in this block except 500 feet of drifting on the Triumph structure on the 400 Level at an elevation of 6440 feet which is all confined to the southern portion of the block; and 120 feet of the Pioneer cross-cut which crosses the NE corner of the block at an elevation of 6715 feet.

(700 North Project)

4. a. This block of ground lies between the Triumph Mine and the Independence Mine. The Triumph Mine is an operating mine which produces and mills an average of 7500 tons of ore per month and at the same time does approximately 600 feet of development work. The Independence Mine was a rich producer in the early part of the century, it has not operated since 1922.

All of these operations and properties are owned by the Triumph Mining Company.

The mine and the various operations are accessible at any time to any qualified person desiring to make an examination.

b. There has never been any production from this area.

c. All of the known mineralized zones in the Triumph area are found well within the Milligan formation which consists of interbedded argillites, quartzites and limestones of Mississippian age. The principle mineralization in the Triumph area occurs as fissure type filling of large shear zones - probably thrust faults. Some very important mineralization of replacement type has been found in the beds overlying the main fissure structures.

The Triumph area is beset with a number of geological problems, one of which is flat faults. The normal dip of the mineralized structures in the Triumph area is 35°. There are a number of instances where the normal structure is interrupted by a flat structure along which the mineralization appears to have turned and followed. True, this mineralization in the flat zones is rarely in sufficient quantities to be minable, but there is an important amount of it scattered over a wide zone. We have evidence of two of these flat zones in or near the area described in (3-a). The 840-900 highly mineralized steep (normal dip) ore shoot extends from the 1000 Level of the Triumph Mine which is an elevation of 5870 up to a point just above the Triumph 700 level at an elevation of 6050 where it flattens off into a flat zone known as the 700 North Flat. The 700 North Flat has been followed for considerable distance, but its limits have not been reached. The second flat zone in this area is the Independence Flat which is at an elevation of 7150 feet. The Independence ore shoot outcrops from the surface at an elevation of 7600 feet down on a normal dip to 7150 feet elevation at which point it flattened off into a flat zone. This flat zone was followed for some distance, but its limits were not reached.

Based on the normal dip of the ore bearing structures throughout the area a theory has been postulated that the flat zones are approximately 750 feet apart and that they terminate in a steep (normal dipping) structure. If this theory is correct then there should be a steep zone lying within the area described in (3-a).

The normal rake of the ore shoots in the Triumph area is from east to west. The Independence and the 840-900 ore shoots line up perfectly with this general rule. Also, as far as can be determined today, these two high grade ore shoots contained a number of very similar characteristic minerals. If the theory of steeps and flats is correct and the Independence and the 840-900

(700 North Project)

4. c. ore shoots are closely related, a very intriguing pattern can be postulated concerning the area described in (3-a).

d. The Triumph Mine is easily accessible. It is located 12 miles by road from Hailey, Idaho, the county seat of Blaine County. The first 6 miles from Hailey to Triumph is via U.S. Highway #93 which is oiled as is the last 6 miles from U.S. #93 via county road to the mines. The Shoshone-Bingham branch of the Union Pacific Railway has a spur at Chalet which is 6 miles from the mine near the point where the automobile road leaves off from U.S. Highway #93. Two major truck lines, Summit Freightlines, Inc. and Orange Transportation Co. make deliveries at the mine.

The largest portion of the Triumph employees live either at Hailey or Ketchum which is 5 miles south of Hailey. These employees travel to and from the mine via bus. A limited number of employees live at the mine.

e. At the present time there is an over abundance of manpower in the area.

The Triumph Mine maintains a well stocked warehouse and has adequate supplies and equipment to carry out this project as well as to maintain its daily operation of mining and milling approximately 300 tons of ore. Triumph is within easy reach of supply centers, namely, Twin Falls, Boise and Salt Lake City.

The Triumph Mining Company maintains its own water supply and has adequate wells, pumps and tanks to more than meet its present or future needs.

Power is supplied to the Triumph Mining Company at Triumph by the Idaho Power Company. At the present time the Triumph Mine has a demand of around 1300 KW and uses between 600,000 and 700,000 KW hours per month. The following is the present schedule that the Triumph Mining Company has with the Idaho Power Company.

<u>Monthly Demand Charge</u>

$2.50 per KW for the first 10 KW of Demand
$1.15 per KW for each additional KW of Demand

<u>Monthly Energy Charges</u>

11.5 mills per KWH for first 100 KWH per KW of Demand
10.5 mills per KWH for the next 15,000 KWH
7.8 mills per KWH for the next 35,000 KWH
4.0 mills per KWH for the next 150 KWH per KW of Demand
2.65 mills per KWH for all additional KWH

5. a. The minerals to be explored for by this project are lead and zinc sulfides.

b. It is proposed to explore the area described in (3-a) by advancing the 701-500 cross-cut the face of which is at Triumph north coordinate 11255 and east coordinate 6265. This cross-cut is a branch of the main haulage level of the Triumph Mine. This heading should be driven [illegible] until the structure is hit or a maximum of 750 feet. If the structure is cut

(700 North Project)

5. b. by the cross-cut — this is very doubtful — it should be drifted on both ways. If no structure is cut by the cross-cut then a two compartment vertical raise should be put up at a point 700 feet from the starting point. This raise should be driven until the structure is cut or a maximum of 300 feet. If no structure is cut before 300 feet is reached in the raise, then the theory of steeps and flats is wrong and the project should be abandoned. If a structure is cut either in the raise or the cross-cut then it should be drifted on a distance of 500 feet to the NW and 1400 feet to the SE. Also, from these drifts up dip raises on the structure should be driven at least every 200 feet and should be at least 200 feet in length.

A map is enclosed showing the present workings and the proposed work.

c. This work will start within 60 days and will be completed within 24 months after the date of the exploration project contract.

d. The Triumph Mining Company has been operating the Triumph Mine for the past 15 years and has been producing during that time an average of 7500 tons of silver, lead zinc ores a month.

Mr. L. M. Robinson the General Manager of the Triumph Mining Company is a graduate of the Texas School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 34 years.

Mr. C. C. Livingston the Mine Superintendent is a graduate of the University of Idaho School of Mines and has been actively engaged in the mining industry, with the exception of the World War II years, for the past 20 years.

6. a. No independent contracts.

b. See enclosed wage rates at the Triumph Mine.
Mine Superintendent Salary $700.00 per month.
Mine Foreman Salary $550.00 per month.
Mine Shift Boss Salary $455.00 per month
Chief Engineer and Geologist Salary $500.00 per month.
Assistant Engineer and Geologist Salary $460.00 per month.
Chief Accountant Salary $560.00 per month.

6. a,b,c,d,e,f,g, and h on a unit cost basis

Cost per foot of a 7' x 5' (minimum) main level drift or cross-cut

Labor	$12.00
Supervision & Engineering	2.75
Powder, Caps & Fuse	3.25
Rail	1.50
Bits and Steel	1.10
Pipe	1.00
Fittings and hoses	0.20
Ventilation Pipe	1.00
Power	1.50
Repair Parts	0.50
Depreciation on Equipment	3.50
Insurance & Payroll Taxes	1.50
Lubricants	0.20
	30.00

(700 North Project)

6. a,b,c,d,e,f,g, and H on a unit cost basis

Cost per foot of a 7' x 5'(minimum) main level drift or cross-cut (Cont'd)

Total drift untimbered	$30.00
Timber	6.50
Total for timbered drift	$36.50

Cost per foot of a 5 x 7(minimum) intermediate level drift

Labor	$16.00
Supervision and engineering	2.75
Powder, caps and fuse	3.25
Rail	1.50
Bits and steel	1.10
Pipe	1.00
Fittings and hoses	0.20
Ventilation Pipe	1.00
Power	1.50
Repair parts	0.50
Depreciation on Equipment	3.50
Insurance and payroll taxes	1.87
Lubricants	0.20
Total Drift untimbered	$34.47
Timber	6.50
Total drift timbered	$40.87

Cost per foot of a two compartment vertical square set raise

Labor	$20.00
Supervision and engineering	2.75
Powder, caps and fuse	3.25
Bits and steel	1.10
Pipe	1.00
Fittings and hoses	0.20
Ventilation Pipe	1.00
Power	1.50
Repair Parts	0.50
Depreciation of Equipment	3.50
Insurance & Payroll Taxes	2.28
Lubricants	0.20
Timber	15.00*
Total	$52.28

* Estimated that it requires 300 board feet of timber per foot of raise which includes chute lining, ladders and landings. Cost of timber is $50.00 per L.board feet.

(700 North Project)

6 a,b,c,d,e,f,g, and h on a unit cost basis (Cont'd)

Cost per foot of a flat(10° - 45°) 5 x 7 raise.

Labor	$16.00
Supervision and Engineering	2.75
Powder, caps and fuse	3.25
Bits and steel	1.10
Pipe	0.25
Power	1.50
Repair Parts	0.50
Depreciation of Equipment	3.50
Insurance and Payroll Taxes	1.87
Lubricants	0.20
Timber	6.50
Total	$37.42

g. Workmen's compensation and employers' liability insurance and payroll taxes are included in the items listed above.

6. Estimated total cost of the project

750 feet of cross-cutting @ $36.50	$ 27,375.00
300 feet of raising(vertical) @ $52.28	15,684.00
1900 feet of drifting @ $40.87	77,653.00
2000 feet of up dip raising @ $37.42	74,840.00
TOTAL	$195,552.00

a. Triumph Mining Company is prepared to furnish its share of the costs of the proposed project in accordance with the regulations on Government participation.

b. The Triumph Mining Company is prepared to furnish its share in the costs in the form of money and in equipment.

TRIUMPH MINING COMPANY
TRIUMPH, IDAHO

EXHIBIT "A" TO LABOR CONTRACT OF SEPTEMBER 1, 1953

CLASS 1	RATE
Trammer	$13.10
Mucker	13.10
Motorman Helper	13.10
Bull Gang	13.10

CLASS 2	
Nipper	13.53
Timber Rustler	13.53
Tuggerman	13.53
Mill Helper	13.53
Sawyer Helper	13.53
Timberman Halper	13.53
Carpenter Helper	13.53
Mechanic Helper	13.53
Electrician Helper	13.53
Sample Bucker	13.53

CLASS 3	
Crusher Operator	14.55
Ball Mill Operator	14.55
Skiptender	14.55
Miner	14.55
Motorman	14.55
Trackman	14.55
Hoistman Class "B"	14.55
Cager	14.55

CLASS 4	RATE
Sawyer	$15.05
Tractor Operator	15.05
Blacksmith	15.05

CLASS 5	
Steel Sharpener	15.33
Shaftman	15.33
Hoistman Class "A"	15.33
Mechanic - Underground	15.33
Compressorman	15.33
Sampler	15.33
Timberman	15.33
Flotation Operator	15.33
Mechanic	15.33
Welder	15.33
Electrician	15.33
Armature Winder	15.33
Carpenter	15.33

HOURS PER SHIFT

Mine and Mill	8
Surface and Shops	7-1/2

CLASS "A" HOISTMAN - THOSE HOISTING MEN
CLASS "B" HOISTMAN - THOSE NOT HOISTING MEN

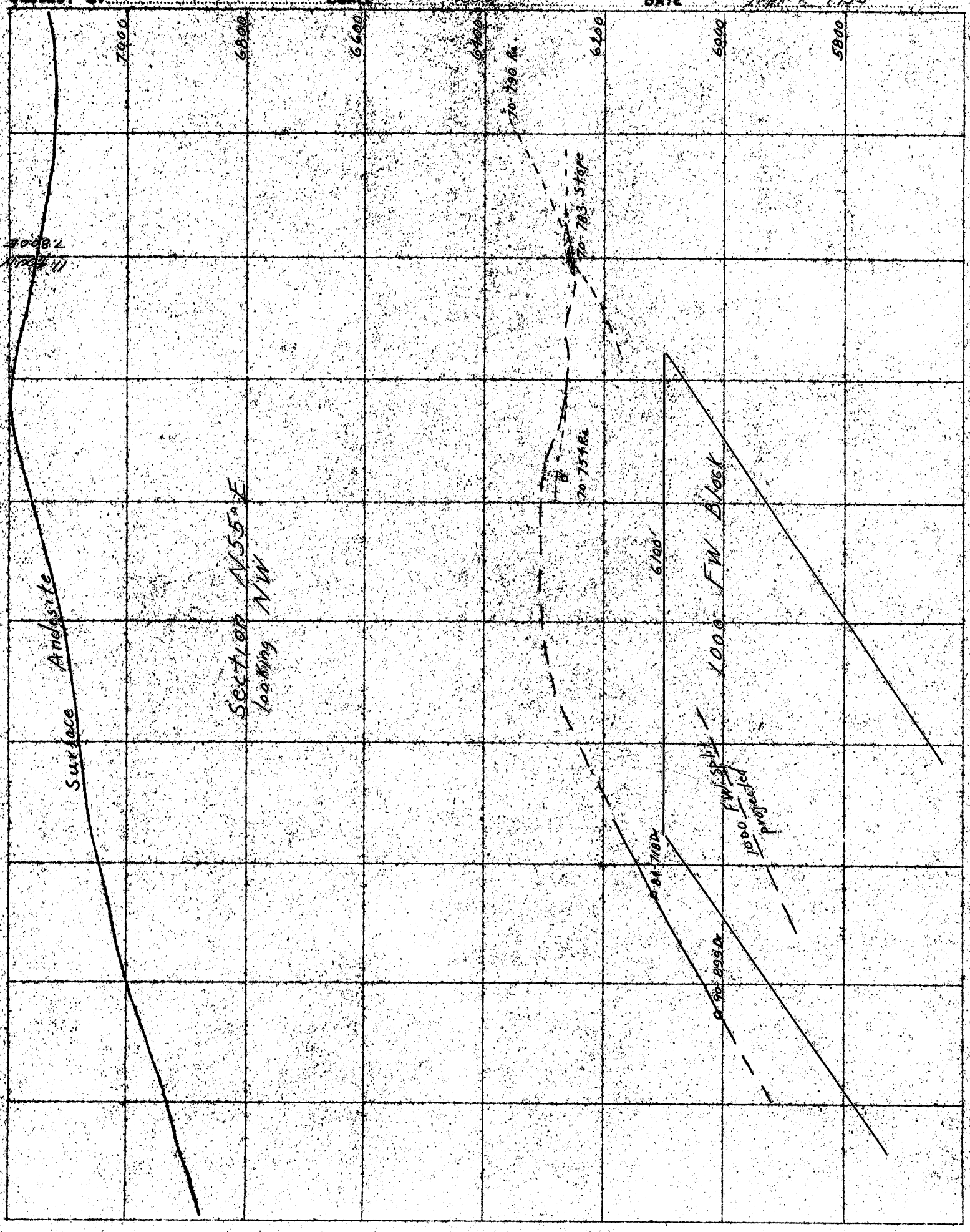
SHIFT DIFFERENTIALS

Day Shift	Base as shown above
Afternoon	4¢ per hour additional
Night	6¢ per hour additional
Graveyard	8¢ per hour additional

LOCATION ..... MINE Triumph ..... LEVEL Section N 55° W

SURVEY ..... POSITION Thru 11400 N & 7800 E

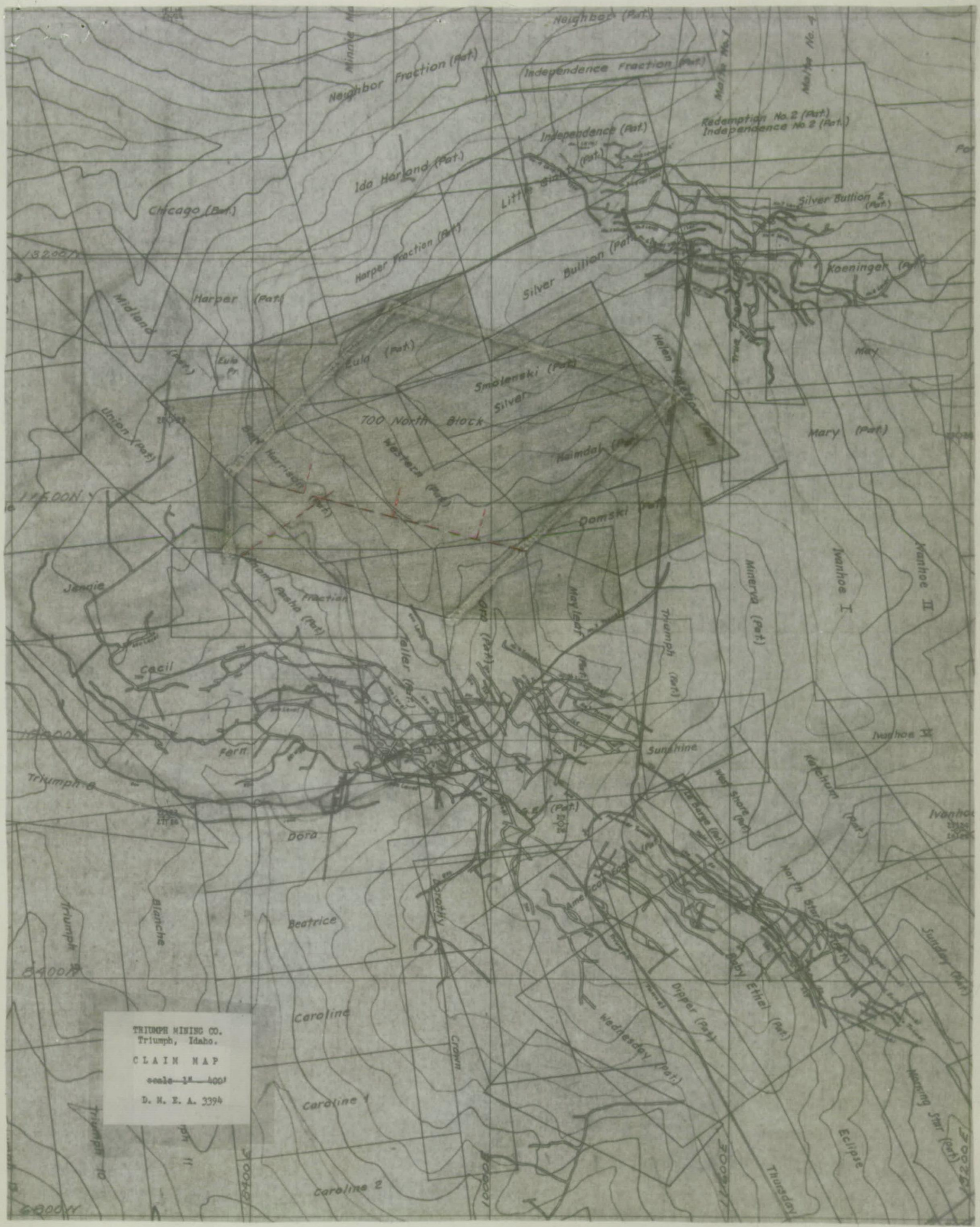
GEOLOGY BY ..... SCALE 1" = 200' ..... DATE April 1953



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

SAN FRANCISCO CALIF. NOV 18 '54 U.S. POSTAGE 27 PB. 160.145

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


Neighbor (Pat.)
Neighbor Fraction (Pat.)
Independence Fraction (Pat.)
Redemption No. 2 (Pat.)
Independence No. 2 (Pat.)
Independence (Pat.)
Ida Harland (Pat.)
Little Giant (Pat.)
Silver Bullion Z (Pat.)
Chicago (Pat.)
Harper Fraction (Pat.)
Silver Bullion (Pat.)
Koeninger (Pat.)
Harper (Pat.)
Midland
Eula (Pat.)
Smolenski (Pat.)
Silver
700 North Block
Mary
Mary (Pat.)
Union (Pat.)
Harrison (Pat.)
Western (Pat.)
Naimdal (Pat.)
Domski (Pat.)
Jennie
Cecil
Fern
Triumph
Dora
Beatrice
Caroline
Caroline 1
Caroline 2
Blanche
Triumph 10
Triumph 11
Triumph 12
Fraction
Teller (Pat.)
Dora (Pat.)
Mayleaf
Triumph (Pat.)
Minerva (Pat.)
Ivanhoe I
Ivanhoe II
Ivanhoe IV
Sunshine
Ketchum (Pat.)
West Shore (Pat.)
Pretty
Crown
Dipper (Pat.)
Wednesday (Pat.)
Baby Ethel (Pat.)
Thursday
Eclipse
Morning Star (Pat.)
Sunday (Pat.)
13200N
11600N
10400N
9200N
8400N
6400N
TRIUMPH MINING CO.
Triumph, Idaho.
CLAIM MAP
~~scale 1" = 400'~~
D. M. E. A. 3394

rec'd 11-7-57

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

October 25, 1957

15 Com 100

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. Ian-E696

Dear Mr. Selfridge:

Enclosed are three copies of a Field Team final report on this contract by John D. Merrill, 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, 1955, when the contract was terminated by mutual consent of the Operator and the Government. Completed work comprised 759 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,[illegible].47, of which the Government's share is 50 percent, or $59,[illegible].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, Exec. Officer
U. S. Geological Survey

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

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

11-13-57

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
Sp. [illegible] Grant Street
Spokane [illegible], Washington

October [illegible], 1957

Mr. George C. Seifried, Director
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

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

Dear Mr. Seifried:

Enclosed are three copies of a Field Team Final Report on this contract by [illegible], Metallurgist, Bureau of Mines, and Donald C. Alvord, [illegible], Geological Survey.

Work under the contract was started September 21, 1954, and continued until April [illegible], 1957, when the contract was terminated by mutual consent of the contractor and the Government. Completed work comprised 750 feet of [illegible] on the Triumph 750 level, 196 feet of [illegible], [illegible] raising, 1,[illegible] feet of sublevel drifting, and [illegible] feet of raising above the sublevel. The total cost of the completed work is $[illegible] of which the Government's share is 50 percent, or $[illegible].

No ore was mined and the examiners conclude that the target area was minimally explored. They recommend that no discovery be certified and that further expenditure of Government funds to explore this area be discontinued.

We concur with these conclusions and recommendations.

My Field Team, Region I

A. S. Weissenborn, Lieut. Col., USAF
U. S. Geological Survey

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

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

RECEIVED MAY 14 1956

AMENDMENT NO. 2

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

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 ~~II~~ 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 _____

THE UNITED STATES OF AMERICA

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

AMENDMENT NO. 2

It is agreed this 20th 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-3726 (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 II, in Order No. 2008 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) THE UNITED STATES OF AMERICA

By _____ By _____
A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region II I, NW Dist.

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

RECEIVED
MAY 14 195

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

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

Amendment No. 2

Exhibit "A"

Changes and modifications:

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

delete

I. 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

I. 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

RECEIVED
MAY 14 1956

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.

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. IMEA-3394

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

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

Justification of Amendment No. 2

It was necessary to enlarge the sublevel drift at the 540 level at the head of the 3-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. Burdill

TRIUMPH MINING COMPANY

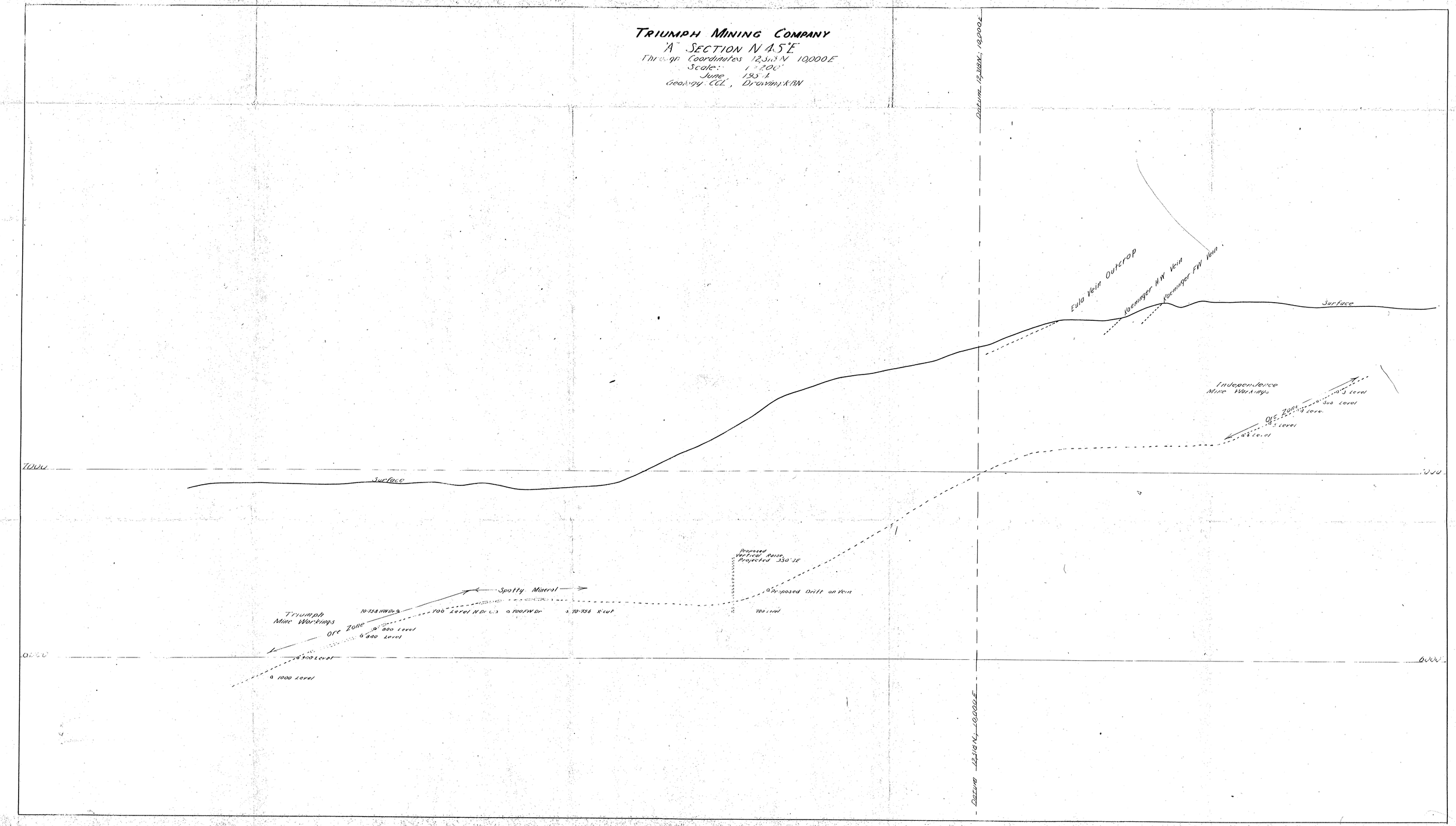
"A" SECTION N 45°E

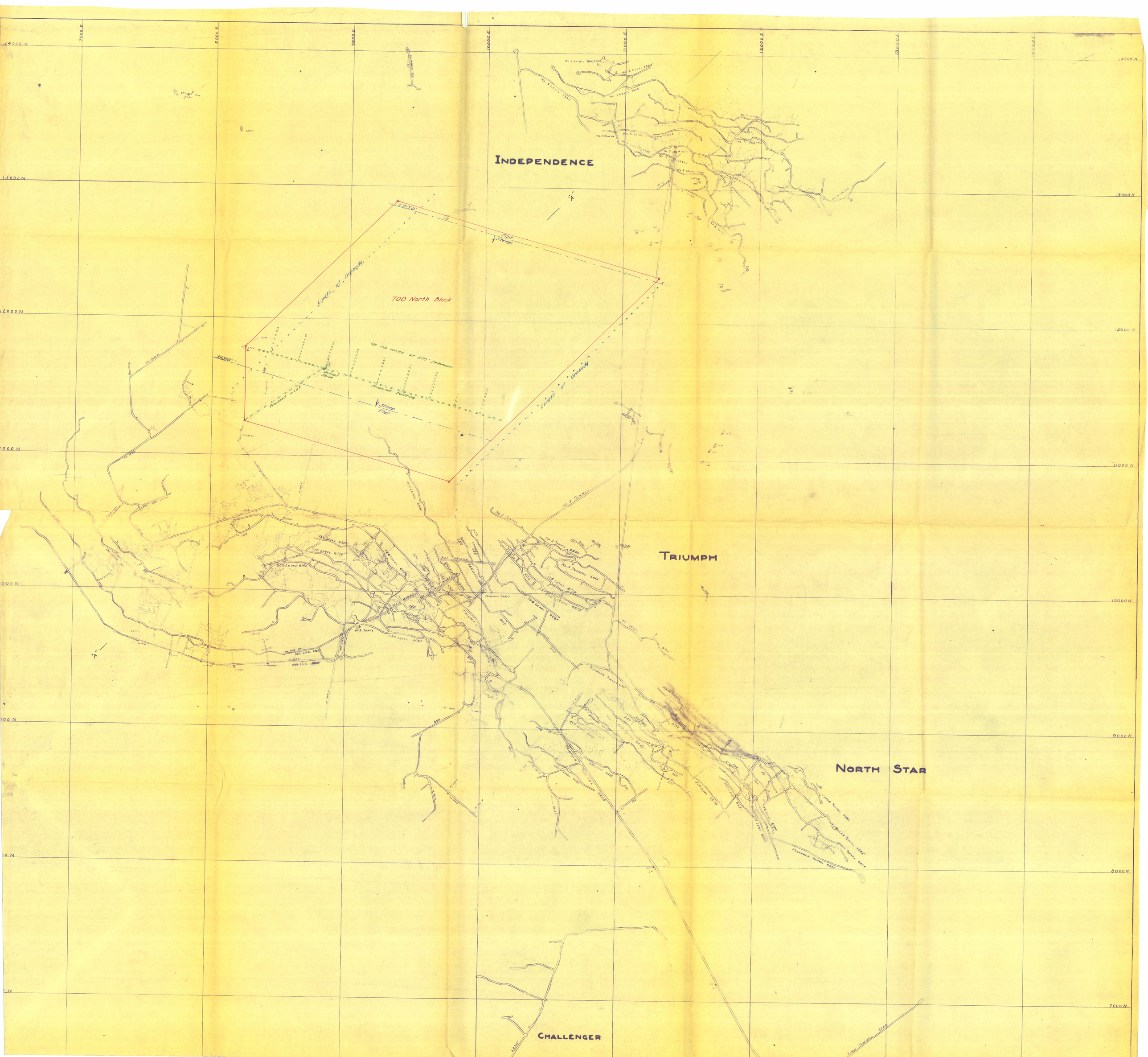
Through Coordinates 12,318 N 10,000 E

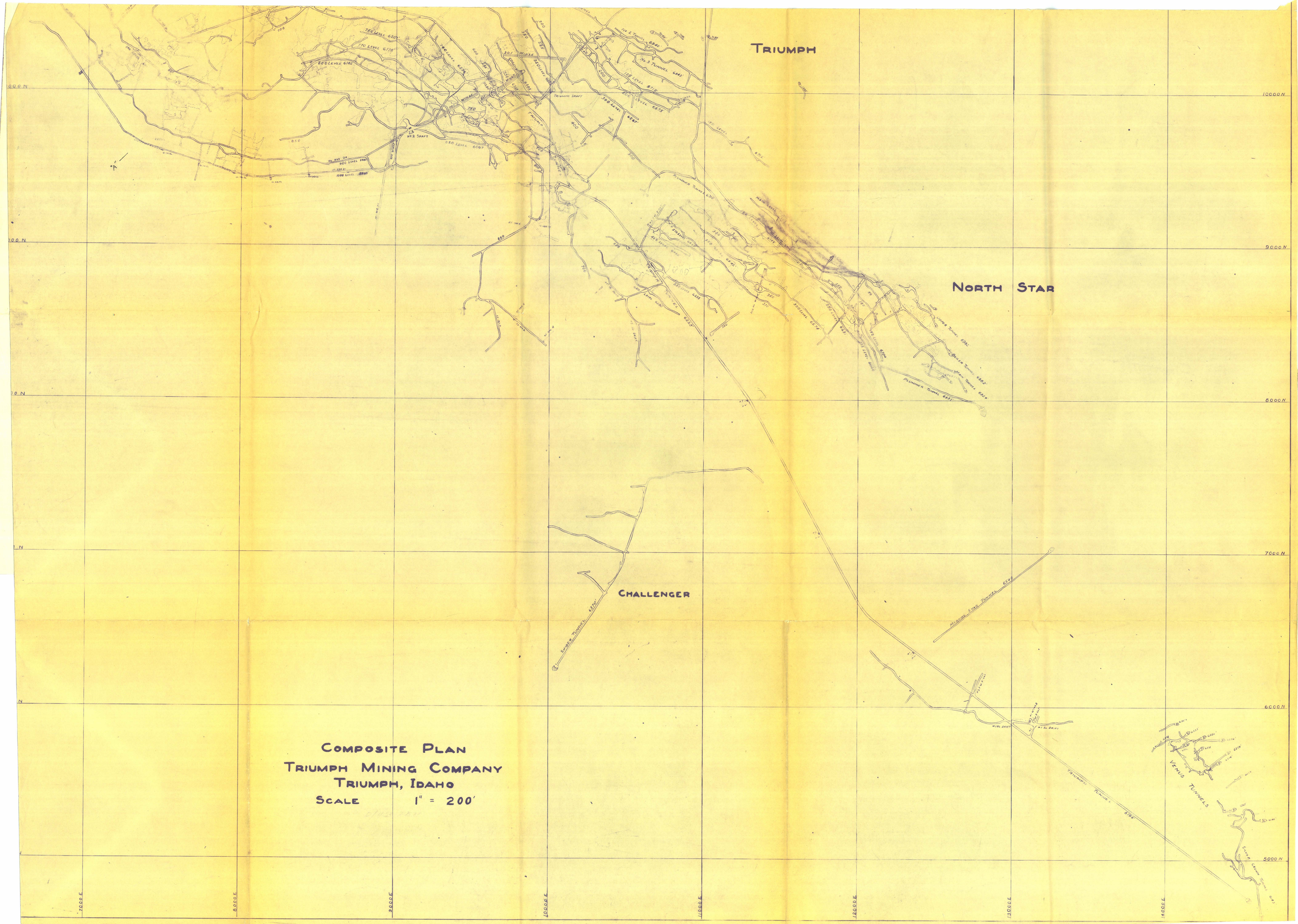
Scale: 1" = 200'

June 1954

Geology: CCL, Drawing: KBN

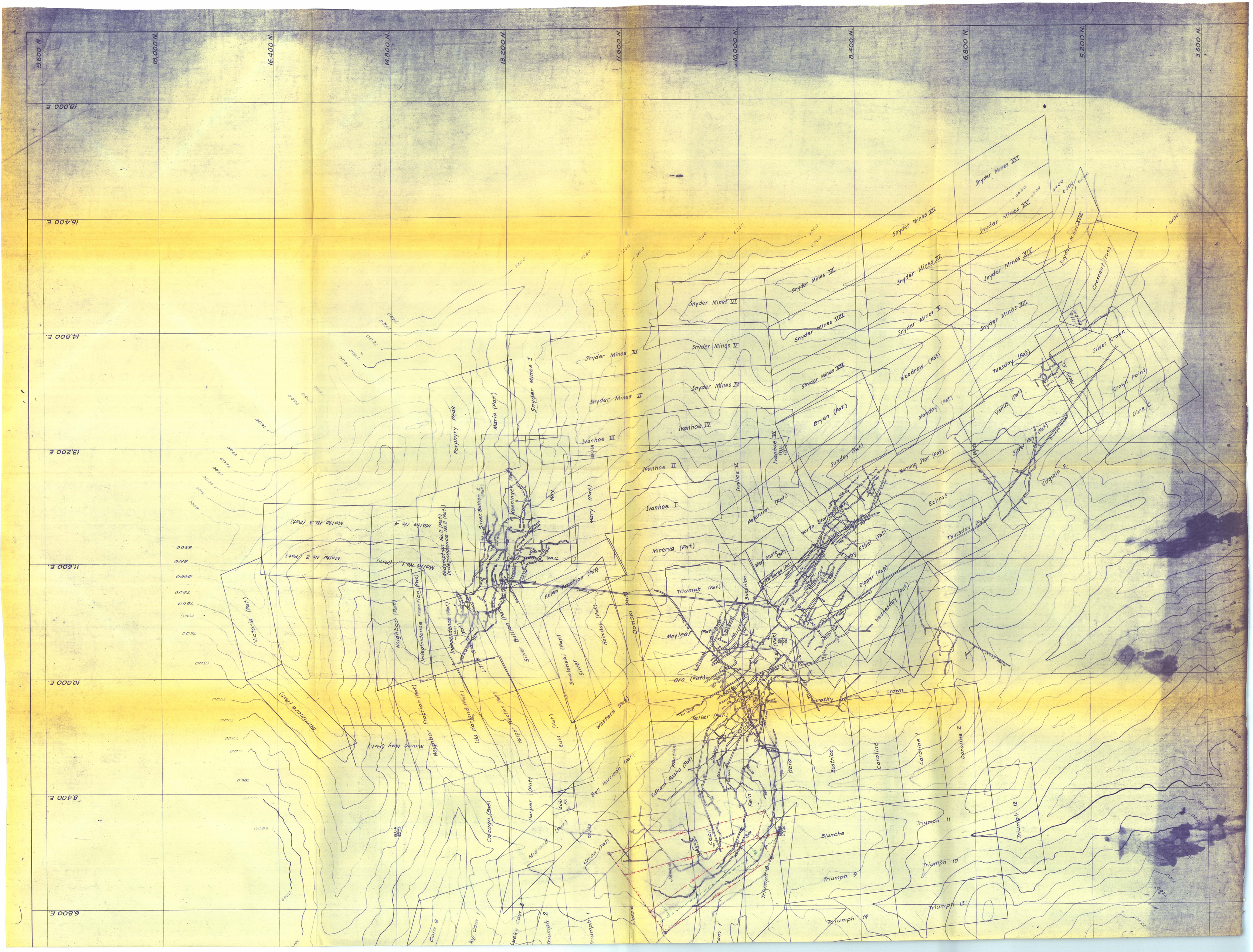



INDEPENDENCE
TRIUMPH
NORTH STAR
CHALLENGER
700 North Block
Limits of Orebody
Limits of Orebody
Flat
Steep
Steep
Flat
Up dip raises at 200' intervals
Proposed Drifting
Proposed Cut
Main Level
No 1 Level 3600'
No 2 Level 1782
No 4 Level 1332
No 1 Level 1932
No 1 Winze
No 5 Level 1866
No 2 Winze
No 3 Level
No 6 Level 1350
No 7 Level
No 8 Level
No 9 Level
No 3 Tunnel
No 2 Tunnel
No 3 Tunnel 6841
750 Level 6201
770 Level 6178
800 Level 6142
850 Level 6007
900 Level 5981
1000 Level 5860
No 2 Shaft
Triumph Shaft
Plummer Tunnel 6690
Main Level
Upper Tunnel 6582
Boiler Tunnel 6882
Main Tunnel 6654
Plummer Tunnel 6831
Stope Tunnel 6548
7000 N
8000 N
9000 N
10000 N
11000 N
12000 N
13000 N
14000 N
7600 E
8000 E
9000 E
10000 E
11000 E
12000 E
13000 E
14000 E



COMPOSITE PLAN
TRIUMPH MINING COMPANY
TRIUMPH, IDAHO

SCALE 1" = 200'


19,600 N.
18,000 N.
16,400 N.
14,800 N.
13,200 N.
11,600 N.
10,000 N.
8,400 N.
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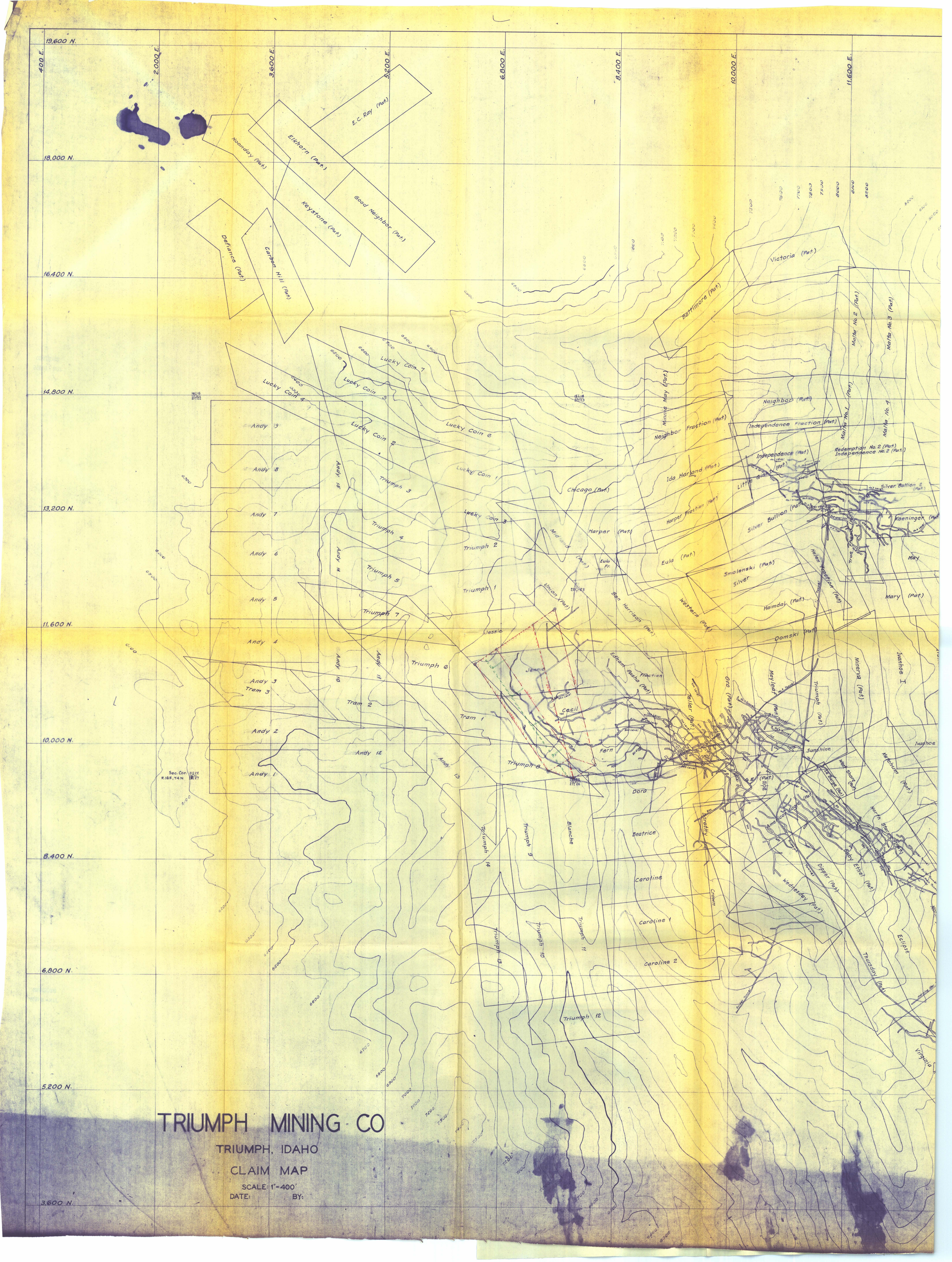
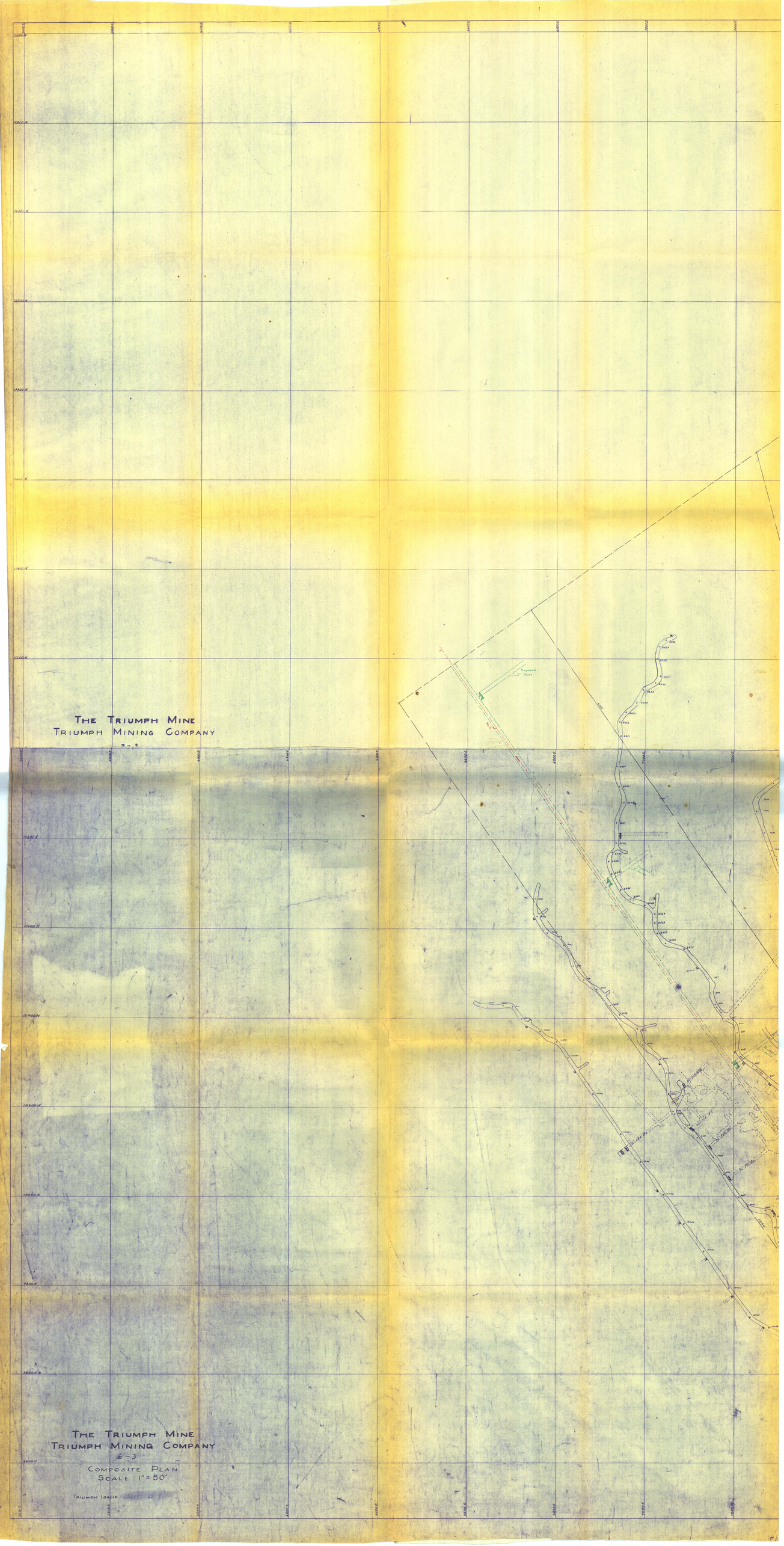
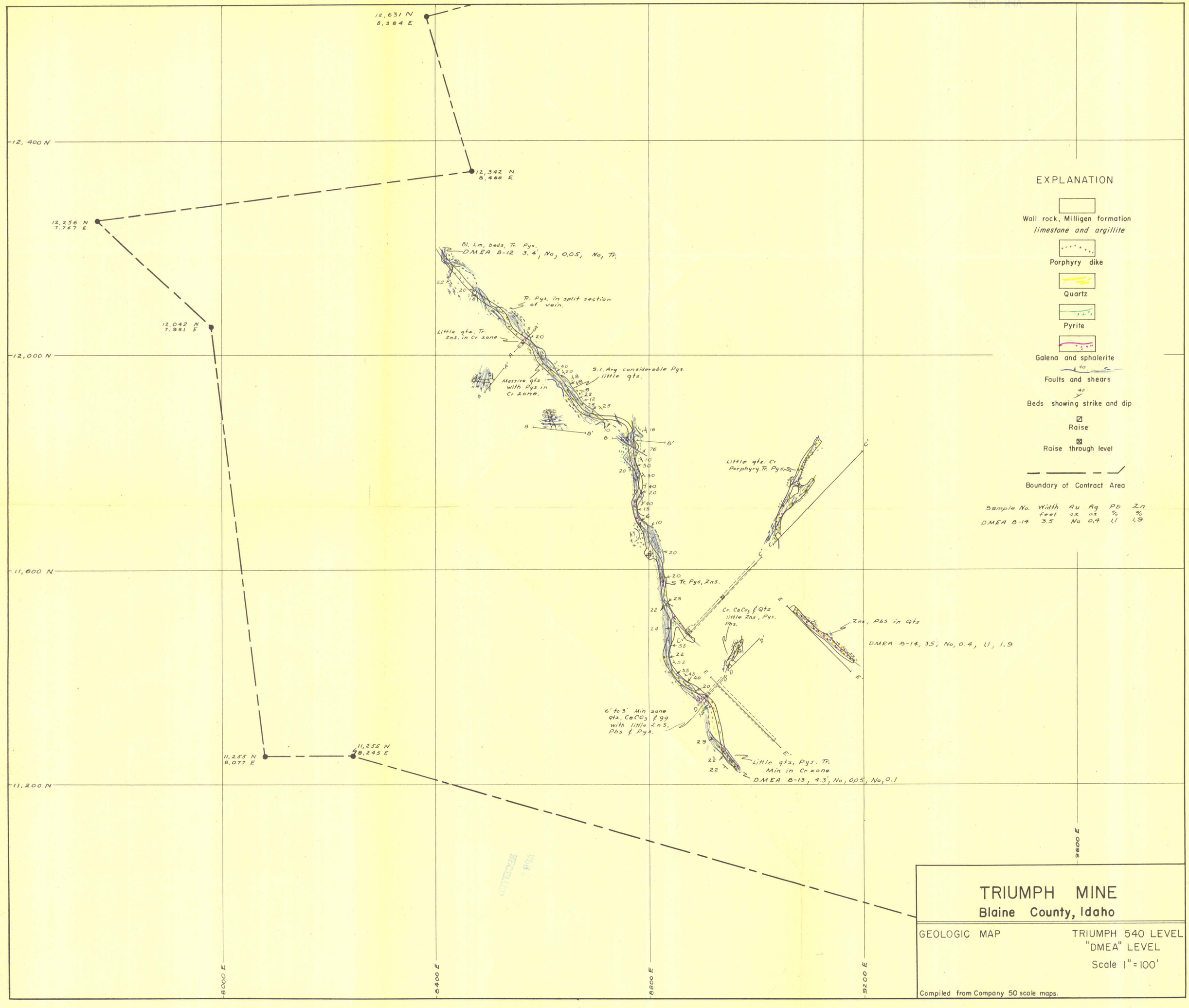
5,200 N.
3,600 N.
18,000 E.
16,400 E.
14,800 E.
13,200 E.
11,600 E.
10,000 E.
8,400 E.
6,800 E.
Snyder Mines I
Snyder Mines II
Snyder Mines III
Snyder Mines IV
Snyder Mines V
Snyder Mines VI
Snyder Mines VII
Snyder Mines VIII
Snyder Mines IX
Snyder Mines X
Snyder Mines XI
Snyder Mines XII
Snyder Mines XIII
Snyder Mines XIV
Snyder Mines XV
Snyder Mines XVI
Snyder Mines XVII
Ivanhoe I
Ivanhoe II
Ivanhoe III
Ivanhoe IV
Ivanhoe V
Ivanhoe VI
Porphyry Peak
Maria (Pat.)
Mary (Pat.)
May
Koeninger (Pat.)
Silver Bullion
True
Little Bill
Silver Bullion
Silver Lake
Helen Fraction (Pat.)
Independence (Pat.)
Independence Fraction (Pat.)
Redemption No. 2 (Pat.)
Independence No. 2 (Pat.)
Malta No. 1 (Pat.)
Malta No. 2 (Pat.)
Malta No. 3 (Pat.)
Malta No. 4
Victoria (Pat.)
Neighbor (Pat.)
Neighbor Fraction (Pat.)
Minnie May (Pat.)
Baltimore (Pat.)
Ida Harland (Pat.)
Harper Fraction (Pat.)
Eula (Pat.)
Eula Fr.
Smolenski (Pat.)
Silver
Hainsby (Pat.)
Domski (Pat.)
Western (Pat.)
Ben Harrison (Pat.)
Chicago (Pat.)
Harper (Pat.)
Midland (Pat.)
Union (Pat.)
Minerva (Pat.)
Triumph (Pat.)
Mayleaf (Pat.)
Oro (Pat.)
Teller (Pat.)
Ketchum (Pat.)
Sunshine
West Shore (Pat.)
Ida Barge (Pat.)
North Star (Pat.)
Baby Ethel (Pat.)
Dipper (Pat.)
Wednesday (Pat.)
Sunday (Pat.)
Bryan (Pat.)
Morning Star (Pat.)
Woodrow (Pat.)
Monday (Pat.)
Tuesday (Pat.)
Venus (Pat.)
Silver Key (Pat.)
Eclipse
Thursday (Pat.)
Virginia
Crescent (Pat.)
Silver Crown
Crown Point
Dixie
Crown
Dorothy
Edham Pasha (Pat.)
Fern
Cecil
Dora
Beatrice
Caroline
Caroline 1
Caroline 2
Blanche
Triumph 1
Triumph 2
Triumph 3
Triumph 6
Triumph 9
Triumph 10
Triumph 11
Triumph 12
Triumph 13
Triumph 14
Coin 6
Coin 1
Lucky Coin
Castle


TRIUMPH MINING CO
TRIUMPH, IDAHO
CLAIM MAP
SCALE: 1"=400'
DATE:
BY:
19,600 N.
18,000 N.
16,400 N.
14,800 N.
13,200 N.
11,600 N.
10,000 N.
8,400 N.
6,800 N.
5,200 N.
3,600 N.
400 E.
2,000 E.
3,600 E.
5,200 E.
6,800 E.
8,400 E.
10,000 E.
11,600 E.
E.C. Ray (Pat.)
Elkhorn (Pat.)
Noonday (Pat.)
Keystone (Pat.)
Good Neighbor (Pat.)
Defiance (Pat.)
Carbon Hill (Pat.)
Victoria (Pat.)
Baltimore (Pat.)
Malta No. 2 (Pat.)
Malta No. 3 (Pat.)
Malta No. 1 (Pat.)
Malta No. 4
Lucky Coin 7
Lucky Coin 5
Lucky Coin 4
Lucky Coin 6
Lucky Coin 2
Lucky Coin 1
Lucky Coin 3
Minnie May (Pat.)
Neighbor (Pat.)
Neighbor Fraction (Pat.)
Independence Fraction (Pat.)
Independence (Pat.)
Redemption No. 2 (Pat.)
Independence No. 2 (Pat.)
Ida Harland (Pat.)
Little Giant
Silver Bullion 2 (Pat.)
Silver Bullion (Pat.)
Chicago (Pat.)
Harper Fraction (Pat.)
Harper (Pat.)
Koeninger (Pat.)
Andy 9
Andy 8
Andy 7
Andy 6
Andy 5
Andy 4
Andy 3
Tram 3
Andy 2
Andy 1
Andy 15
Andy 14
Andy 10
Andy 11
Andy 12
Andy 13
Triumph 3
Triumph 4
Triumph 5
Triumph 7
Triumph 6
Triumph 8
Triumph 2
Triumph 1
Tram 2
Tram 1
Sec. Cor. 21|22 R.18E, T4N 28|27
Midland (Pat.)
Eula Fr.
Union (Pat.)
Ben Harrison (Pat.)
Eula (Pat.)
Smolenski (Pat.)
Silver
Helen Fraction (Pat.)
Western (Pat.)
Haimdal (Pat.)
Mary (Pat.)
May
Domski (Pat.)
Jessie
Jennie
Cecil
Fern
Edham Pasha Fraction
Teller (Pat.)
Ora (Pat.)
Mayleaf (Pat.)
Triumph (Pat.)
Minerva (Pat.)
Ivanhoe I
Ivanhoe
Sunshine
Ketchum (Pat.)
West Shore (Pat.)
La Barge (Pat.)
Dora
Beatrice
Caroline
Caroline 1
Caroline 2
Dorothy
Crown
Triumph 14
Triumph 9
Blanche
Triumph 13
Triumph 10
Triumph 11
Triumph 12
Wednesday (Pat.)
Dipper (Pat.)
Baby Ethel (Pat.)
North Star (Pat.)
Eclipse
Thursday (Pat.)
Virginia

6600E
6800E
7000E
7200E
7400E
7600E
7800E
12600N
12400N
12200N
12000N
11800N
11600N
11400N
11200N
11000N
10800N
10600N
10400N
10200N
10000N
9800N
9600N
9400N
Area produced
8500 tons
Au- 0.03
Ag- 5.1
Pb- 3.8
Zn- 4.5
Proposed Raise
Proposed Raise
Proposed Raise
Proposed Raise
Vein
Vein
Proposed Drift
6100'
5890'
700
800
900


THE TRIUMPH MINE
TRIUMPH MINING COMPANY
7-3
THE TRIUMPH MINE
TRIUMPH MINING COMPANY
6-3
COMPOSITE PLAN
SCALE: 1" = 50'
TRIUMPH IDAHO


12,631 N
8,384 E
12,342 N
8,466 E
12,256 N
7,767 E
12,042 N
7,981 E
11,255 N
8,077 E
11,255 N
8,245 E
12,400 N
12,000 N
11,800 N
11,200 N
8000 E
8400 E
8800 E
9200 E
9600 E
Bl, Lm, beds, Tr. Pys.
DMEA B-12 3.4', No, 0.05, No, Tr.
Tr. Pys. in split section of vein.
Little qtz. Tr. Zns. in Cr zone
Massive qtz with Pys in Cr zone.
S.I. Arg considerable Pys. little qtz.
Little qtz. Cr Porphyry. Tr. Pys.
Tr. Pys, Zns.
Cr. CaCO3 & Qtz little Zns, Pys, Pbs.
Zns, Pbs in Qtz
DMEA B-14, 3.5', No, 0.4, 1.1, 1.9
6" to 3' Min zone qtz, CaCO3 & gg with little ZnS, Pbs & Pys.
Little qtz, Pys. Tr. Min in Cr zone
DMEA B-13, 4.3', No, 0.05, No, 0.1
EXPLANATION
Wall rock, Milligen formation
limestone and argillite
Porphyry dike
Quartz
Pyrite
Galena and sphalerite
Faults and shears
Beds showing strike and dip
Raise
Raise through level
Boundary of Contract Area
Sample No. Width Au Ag Pb Zn
feet oz oz % %
DMEA B-14 3.5 No 0.4 1.1 1.9
TRIUMPH MINE
Blaine County, Idaho
GEOLOGIC MAP
TRIUMPH 540 LEVEL
"DMEA" LEVEL
Scale 1" = 100'
Compiled from Company 50 scale maps.