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EXTRA COPY DMEA		
RECEIVED MAR 14 1957		
DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

March 11, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2514 (Tungsten) W. C. Rogers (Lone Pine mine) Box Elder County, Utah

Enclosed are the original and one copy of a letter from W. C. Rogers, dated March 8, 1957, wherein it is requested that material submitted by the Applicant under Docket DMEA-2514 be returned.

We have one copy of the brochure in our files and await your instructions in the matter.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosures

JWT:jy
cc: Docket 2514
Chron.

17

March 8 1957

DMEA
DEPARTMENT OF THE INTERIOR
MAR 11 1957
REGION III
DENVER, COLORADO

Mr. W. H. King
Executive Officer, DMEA.
Field Team, Region IV
224 New Customhouse
Denver 2, Colorado,

Dear Mr. King;

I am writing in regards to our docket DMEA 2514 for exploration assistance to the Lone Pine Mine.

Would it be Possible to have our application and and what ever other information you have in your files returned to me for further study.

Yours truly
Lone Pine Mine
P. O. Box 124
Garland Utah W. C. Rogers, Secy. Treas.

EXTRA COPY
DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE

IF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 4/2/57

REFERRED TO:

1. Code 225
2.
3.
4.

FOR:

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

REMARKS:

Check (X) before the items needing attention.

Code 400
Initials of sender.

GPO 16—63815-1

MAR 21 1957

Mr. K. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 2524 - Tungsten
W. C. Rogers
Lone Pine Mine
Box Elder County, Utah

Dear Mr. Harshman:

Reference is made to your memorandum of March 11, 1957, and enclosed copy of letter from the Lone Pine Mine, W. C. Rogers, Secretary and Treasurer, requesting return of application and other data of the above noted application.

You are authorized to return to the applicant copies of the application, maps, and any other data which you may have received from the applicant. We are keeping our only copy of the application as a permanent record.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

TLChapman:sm 3/18/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. R. Halliday, USBM
T. Kiilsgaard, USGS

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/18	Chapman	400
3/18	Martin	400
3/21	Selfridge	130
"	[illegible]	110
"	[illegible]	100
3/23	[illegible]	220
		225

MAR 21 1957

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 2514 - Tungsten
W. C. Rogers
Lone Pine Mine
Box Elder County, Utah

Dear Mr. Harshman:

Reference is made to your memorandum of March 11, 1957, and enclosed copy of letter from the Lone Pine Mine, W. C. Rogers, Secretary and Treasurer, requesting return of application and other data of the above noted application.

You are authorized to return to the applicant copies of the application, maps, and any other data which you may have received from the applicant. We are keeping our only copy of the application as a permanent record.

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Chairman, Operating Committee

APPROVED:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

TLChapman:am 3/18/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. R. Holliday, USBM
T. Kiilsgard, USGS

8623

TLG

This was a "Region IV Case", that is, it was handled entirely in the field. It may have been stripped here because only one copy each of Form MF 103 and MF-100 remains in the docket.

Apparently the only maps submitted were marked-up copies of maps put out in 1951 by BLM; at least that's all there are left here now. Pls see me

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE
3/14	C	220
3/15	WSM	400
		225

March 11, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2514 (Tungsten) W. C. Rogers (Lone Pine mine) Box Elder County, Utah

Enclosed are the original and one copy of a letter from W. C. Rogers, dated March 8, 1957, wherein it is requested that material submitted by the Applicant under Docket DMEA-2514 be returned.

We have one copy of the brochure in our files and await your instructions in the matter.

E. N. Harshman

E. N. Harshman

Enclosures

Quiet
17

March 8 1957

DMEA
DEPARTMENT OF THE INTERIOR
MAR 11 1957
REGION III
DENVER, COLORADO

Mr. W. H. King
Executive Officer, DMEA.
Field Team, Region IV
224 New Customhouse
Denver 2, Colorado,

Dear Mr. King;

I am writing in regards to our docket DMEA 2514 for exploration assistance to the Lone Pine Mine.

Would it be Possible to have our qpplication and and what ever other information you have in your files returned to me for further study.

Yours truly
Lone Pine Mine
P. O. Box 124
Garland Utah W. C. Rogers, Secy. Treas.

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1957

DATE	REMARKS	CODE

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

...T OF THE INTERIOR
Minerals Administration
...PTED
NOV - 6 1953

224 New Customhouse
Denver 2, Colorado

November 2, 1953

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 2514 (Tungsten), W. C. Rogers, Lone Pine Mine, Box Elder County, Utah

Enclosed are four copies of the report of examination on the subject docket.

The applicant failed to submit a copy of the agreement under which he was operating. Later the applicant leased the property to Mr. John Boundy, who has failed to submit an application in his name.

The docket was closed September 15, 1953.

W. H. King
W. H. King

E. N. Hanshman
for A. H. Koschmann

Enclosure

WITHDRAWN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 6 1953

Mining Division
Region IV

July 23, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2514, (Tungsten), W. C. Rogers, Lone Pine Mine, Box Elder County, Utah

Enclosed are nine copies of the engineering report by M.H. Howes of the Bureau of Mines. The Geological Survey will not submit a report.

The exploration proposed by the applicant consists of five projects, totalling 500 feet of drifts and crosscuts, and 500 feet of inclined shafts at a cost of $32,212.00.

The Examining Engineer believes the proposed projects have been well chosen, and will result in additional ore discovery, and he recommends that the application be approved in the amount of $29,676.00. The Government participation would be $22,257.00.

We concur in this recommendation.

W. H. King

W. H. King

July 18, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMEA-2514, W. C. Rogers, Lone Pine mine, Box Elder County, Utah

Enclosed are the original and 8 copies of a report covering the subject property, prepared by M. H. Howes. Also attached are required copies of a Summary, Conclusions and Recommendations section. The report was prepared from information obtained during a Bureau of Mines examination in 1951, and from discussions with the operator. The Survey did not participate in the 1951 field examination, but the manuscript was approved by J. W. Hasler. Part of the geologic information was obtained from an investigation by S. Warren Hobbs of the Survey during 1943.

The applicant does not have the necessary facilities and equipment to perform under the short-form contract, thus a contract, if prepared, will require the long form.

I concur with the recommendations for exploratory work as outlined in the report.

The original brochure is attached.

Stephen R. Wilson

Stephen R. Wilson

Enclosures

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By M. H. Howes

The Lone Pine tungsten property in west-central Box Elder County, Utah, was examined by Bureau of Mines engineers during 1951. The Geological Survey worked in the area during 1943. Results of the two examinations have been used in preparation of the present report, which appraises an application for exploratory funds under DMEA docket 2514.

Sediments in the mine area have been intruded by a granite mass, forming irregular contacts with beds of quartzite and limestone, and sills between the beddings. Numerous small blocks of limestone remain as roof pendents. Scheelite is commonly found as fairly course-grained crystals associated with epidote, quartz, calcite, and occasional garnet, as replacement of limestone at or near the contacts, and in fracture zones in both limestone and granite adjacent to the contacts.

Sampling and geologic appraisal of mineralized zones have resulted in an estimate of 2,890 tons of measured and indicated ores lumped together, and 6,200 tons of inferred ores. The estimated assay value of the measured and indicated tonnage is 1.02 percent WO_3. The average assay value of the inferred ores is estimated to be 0.5 percent WO_3.

The exploration proposed by the applicant consists of five projects totaling 500 feet of drifts and crosscuts and 500 feet of inclined shafts. The examining engineer has estimated the total maximum cost of the exploration to be $32,212. It is believed the proposed projects have been

well chosen and will result in additional ore discovery. Recommendation is made that a loan be granted to conduct exploratory work as outlined in this report.

LONE PINE MINE
BOX ELDER COUNTY, UTAH
DMEA-2514
Tungsten

Engineering Report

By M. H. Howes
Mining engineer
Bureau of Mines

LONE PINE MINE
BOX ELDER COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Lone Pine mine, Box Elder County, Utah
Fig. 2 Claim map.
Fig. 3 Topographic and geologic map.
Fig. 4 Geologic plans of workings.
Fig. 5 Geologic sections.

INTRODUCTION

Mr. W. C. Rogers, secretary, Lone Pine mine (a partnership), made application on April 14, 1952, for Government assistance in exploratory work consisting of 500 feet of drifts and crosscuts and 500 feet of inclined shafts estimated to cost $33,000.

ACKNOWLEDGMENTS

Data for this report were derived mainly from results of an examination and report of the property in 1951 by engineers of the U. S. Bureau of Mines and from consultation with the applicant regarding project proposals and estimated costs.

A memorandum report of Lone Pine mine, Grouse Creek Range, Box Elder County, Utah, by G. Warren Hobbs, U. S. Geological Survey, May 1944, provided information on general geology and ore deposition.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Lone Pine mine lies in sec. 10, T. 9 N., R. 17 W., S.L.B.M., at the southern end of the Grouse Creek Range, west-central Box Elder County, Utah (fig. 1). Lucin, Utah, on the main line of the Southern Pacific Railroad, is 19 miles by road southwest of the property. The mine is connected with State Highway 70 by 7 miles of dirt road, which is in poor condition at present. From this junction to Lucin, a distance of 12 miles, the road is graded and graveled.

The mine is on the steep, west slope of a fairly rugged, north-south ridge. Pinon pine and juniper trees are moderately abundant in the area. The climate is semi-arid, hot and dry during the summer and cold with considerable snow in the winter months.

HISTORY AND PRODUCTION

Prospecting for tungsten was conducted in the southern part of the Grouse Creek Range as early as 1915, and scheelite ores were mined on the Massae property during the first World War. Considerable interest was shown in location of tungsten deposits during World War II, at which time several occurrences of scheelite were found in the area. The Oyler brothers of Garland, Utah, discovered and located the Lone Pine mine in 1940. More than 1,100 tons of ores averaging plus 3 percent WO_3 was produced from 1940 to 1944. Table 1, compiled from information submitted by the mine owners, shows the total production from the property.

Table 1. - Lone Pine mine production

Year	Tons ores produced	Units WO_3 recovered	Value per unit	Total value
1940 1/	100	440	$24.50	$10,780.00
1941	228	998.3822	24.50	24,460.36
1942	332.69	1,193.0988	24.50	29,230.92
1943	344.08	223.6	28.50	6,372.60
		834.4	30.00	25,032.00
1944	151.3	566.79	30.00	17,003.70
Total	1,156.07	4,256.271		$112,879.58

1/ Assay values estimated for 2 railroad carloads of ore shipped during 1940.

The property was closed in July 1944, when Metals Reserve Company discontinued purchasing the crude ores.

OWNERSHIP AND EXTENT

The Lone Pine mine consists of 15 unpatented lode mining claims as shown on the accompanying property map (fig. 2), and is owned by a partnership as follows:

Leo Oyler	Garland, Utah	president and director
Joe Oyler	Garland, Utah	manager and director
W. C. Rogers	Garland, Utah	secretary-treasurer and director
J. I. Taylor	Spanish Fork, Utah	vice president and director
L. E. Peterson	Richland, Wash.	director
Joe Murray	Tremonton, Utah	director
Leroy Oyler	Garland, Utah	director
Merlin Gleed	Ganet, Idaho	
Douglas Oyler	Brigham, Utah	
John Oyler, Sr., Estate	Garland, Utah	
Reed Oyler	Brigham, Utah	
Roy Oyler, Jr.	Garland, Utah	
Sherman Oyler	Garland, Utah	
Kenneth Shaffer	Garland, Utah	
Gale Welling	Fielding, Utah	
Vern Oyler	Garland, Utah	

DESCRIPTION OF THE DEPOSITS

A large intrusive mass of granite is exposed for 6 to 7 miles east and west and 3 to 4 miles north and south at the southern end of the Grouse Creek Range. In the area examined, the granite forms irregular contacts with beds of limestone and quartzite and is believed to underlie these sediments at comparatively shallow depth (figs. 3 and 4). Sills of granite appear between limestone beddings. In places, limestone has not been entirely eroded and remains as small roof pendents surrounded by granite. Limestone adjoining the granite has been metamorphosed.

Scheelite commonly occurs as fairly coarse-grained crystals up to 1 inch in diameter in a gangue of epidote, quartz, calcite, and occasional garnet, as replacements in limestone at or near contacts and in fracture zones in both limestone and granite adjacent to the contacts. Near the north end of the Lone Pine property the main contact strikes northerly and dips about 35° easterly. Here lenses of ore occur in favorable beds a short distance under the contact. Two of these horizons are shown in the upper part of section C-C' (fig. 5). A few small, normal, postmineral faults of northwesterly strike and steep, easterly dip appear to have displaced ore beds 5 to 6 feet in several places. These faults may account for ore apparently pinching out in its downward extension. In the open pit below the road, as shown in the lower end of section C-C' (fig. 5), scheelite occurs in a fractured zone on the

steeply dipping contact between limestone and granite. To the south scheelite occurs in the isolated blocks of limestone in the granite. The Glory Hole, as illustrated by section D-D' (fig. 5) is an example of this type deposit. Section E-E' (fig. 5) shows scattered scheelite in limestone at the contact and also in granite a short distance below the contact.

ORE RESERVES

An ultra-violet light was used in a reconnaissance of the surface and underground workings during the 1951 examination, and areas of scheelite mineralization were noted previous to sampling. A total of 49 samples were taken and determinations made for WO_3 and Mo. Locations of samples are shown on fig. 3 and the analyses are listed in table 2.

Table 2. - Analysis of samples

Sample No.	Cut, feet	Percent WO_3	Percent Mo	Sample No.	Cut, feet	Percent WO_3	Percent Mo
4	5	0.38	<0.02	17	6	<0.01	<0.01
5	1	3.9	<0.02	18	4	<0.01	<0.01
6	5	0.3	<0.02	19	3½	<0.01	<0.01
8	3	<0.01	<0.01	20	2	3.15	<0.01
9	3	0.08	<0.01	21	2½	<0.01	<0.01
10	3	<0.01	<0.01	22	2½	1.45	<0.01
11	5	0.55	<0.01	23	2	0.9	<0.01
12	4	0.25	<0.01	24	3	0.2	<0.01
13	6	0.08	<0.01	25	6	<0.01	<0.01
14	3	<0.01	<0.01	26	3	0.9	<0.01
15	3	0.6	<0.01	27	2½	0.05	<0.01
16	3	1.1	<0.01	28	4	<0.01	<0.01

Sample No.	Cut, feet	Percent WO_3	Percent Mo	Sample No.	Cut, feet	Percent WO_3	Percent Mo
29	3	0.4	<0.01	42	4	<0.01	<0.01
30	3	<0.01	<0.01	43	3	0.08	<0.01
31	2	0.4	<0.01	44	4	<0.01	<0.01
32	4	<0.01	<0.01	45	2	1.5	<0.01
33	4	<0.01	<0.01	46	3	0.7	<0.01
34	4	0.25	<0.01	47	2½	0.8	<0.01
35	3½	0.75	<0.01	48	3	0.12	<0.01
36	3	<0.01	<0.01	49	3	<0.01	<0.01
37	5	1.8	<0.01	50	3	<0.01	<0.01
38	3	0.65	<0.01	51	3	<0.01	<0.01
39	4	<0.01	<0.01	52	grab	3.85	<0.01
40	5	<0.01	<0.01	53	1	21.0	<0.01
41	5	0.05	<0.01				

Geology and topography were mapped to aid in determining the extent of mineralization. Sections (fig. 5) were prepared to clarify observed data.

An estimate of ore reserves was made from a study of the geology and analyses of samples. A lower assay limit of 0.5 percent WO_3 was followed as closely as possible in the calculations. Scheelite mineralization apparently follows certain favorable limestone beds or fracture zones in the limestone. Since areas of measurable ore are relatively small, the measured and indicated ores were outlined together in blocks as shown on fig. 3. Tonnages and grade are given in table 3.

Table 3. - Measured and indicated ores

Block	Area sq. feet	Average thickness, feet	Volume, cu. feet	1/ Ore, tons	Average weighted assay, percent WO_3	Units WO_3
I	800	2.3	1,840	175	1.42	250
II	800	2.8	2,240	210	0.52	100
III	1,000	2.5	2,500	240	0.44	100
IV	4,050	3.2	12,960	1,250	1.58	1,975
V	1,800	3.3	5,940	565	0.48	275
VI	500	3.0	1,500	150	0.9	135
VII	800	4.0	3,200	300	0.41	125
Total				2,890	1.02	2,960

1/ 10.5 cubic feet per ton estimated.

Reserves of inferred ore were estimated by extending the measured and indicated blocks in three areas: first, blocks I, II, III, IV, and V; second, block VI; and third, block VII (fig. 3). These ores are listed in table 4.

Table 4. - Inferred ores

Inferred area extension of:	Inferred block Dimensions in feet Length Width Thick	Volume, cu. feet	1/ Tons	2/ Ore, tons	Average Assay % WO_3	Units WO_3
Blocks I, II, III, IV and V	350 x 150 x 3	157,500	15,000	5,000	0.5	2,500
Block VI	150 x 20 x 3	9,000	750	250	0.5	125
Block VII	100 x 100 x 3	30,000	2,850	950	0.5	475
Total				6,200	0.5	3,100

1/ 10.5 cubic feet per ton estimated.

2/ 1/3 tonnage in inferred block estimated to be inferred ore.

PRESENT STATUS

Approximately 200 feet of inclined shafts and winzes, 900 feet of crosscuts and drifts, 50 feet of raises and 200 feet of open cuts and trenches have been driven to develop the ore mined and to explore for new ores and extensions of known deposits.

Structures on the property consist of a 12- x 20-foot cabin or cook house, a dugout cellar, a small dugout powder magazine, a small cap and fuse magazine, a compressor house, and two ore bins. Two mine skips, two mine cars, and a small amount of mine rails constitute the equipment at the mine. However, it is reported that the mine has two air hoists, a portable air compressor, a stationary air compressor, two jackhammers with mountings and bars, two pressure tanks, and a small quantity of mine rails, galvanized pipe and air hose stored in Garland, Utah. Water for mine and culinary use is available from a spring situated near the cabin, which is said to produce 35 gallons per minute.

PROJECT PROPOSALS

The proposed exploration work will be done on Rocky Ridge No. 1, Lone Pine No. 3, Lone Pine No. 5, and Lone Pine No. 6 lode mining claims.

Project 1A (see fig. 3)

It is proposed to drive a 5- x 7-foot drift 200 feet along the mineralized limestone-granite contact exposed by the open pit in block VI.

Project 2A (see figs. 3, 4 and 5)

It is proposed to drive a 5- x 7-foot crosscut 25 feet westerly into the footwall and 25 feet easterly into the hanging wall on the north side of the inclined shaft, block II, to find the possible downward extension of the ore zone. If this zone is encountered, it is proposed to sink the present inclined shaft (5- x 7-foot) a distance of 250 feet on the mineralized zone.

It is further proposed to drive a 5- x 7-foot drift 50 feet northerly from the end of the drift at the bottom of block I in the ore zone.

Project 1B (see figs. 3 and 5)

It is proposed to drive a 5- x 7-foot adit 200 feet southeasterly from a point on the slope about 50 feet lower in elevation than the present Glory Hole tunnel, to intercept the possible downward extension of the Glory Hole ore zones.

Project 2B (see figs. 3 and 5)

It is proposed to sink a 5- x 7-foot inclined shaft 50 feet northerly from the bottom of the Glory Hole incline in the ore zone.

Project 1C (see fig. 3)

It is proposed to sink a 5- x 7-foot inclined shaft 200 feet easterly from the open pit at the top of block V in the ore zone.

Time Schedule

The operator plans to use 2 crews of 2 men each, 1 shift per day on the proposed projects.

The time schedule is estimated on the basis of a crew of 2 men advancing 4 feet per shift in crosscuts and drifts, and 3 feet per shift in inclined shafts.

Project 1A	- drift, 200 feet		50 days
Project 2A	- crosscut, 50 feet	13 days	
	inclined shaft, 250 feet	84 "	
	drift, 50 feet	13 "	
			110 "
Project 1B	- drift, 200 feet		50 "
Project 2B	- inclined shaft, 50 feet		17 "
Project 1C	- inclined shaft, 200 feet		67 "
Total time for 1 crew of 2 men			294 days
Total time for 2 crews of 2 men each			147 days or 6 months

COSTS

Rehabilitation of existing facilities, buildings, installations and fixtures

Cook house	$500.00	
Cellar for cook house	50.00	
Powder magazine	50.00	
Cap and fuse magazine	50.00	
Compressor house	100.00	
		$750.00

Additional facilities, buildings, installations and fixtures

Spring pump house	$100.00	
1 ½-h.p. pump complete	300.00	
1 300-gallon water tank	200.00	
1 cook stove	100.00	
1 gas refrigerator	150.00	
2 sleeping tents (with board sides and floors) or army barracks	300.00	
		$1,150.00

Equipment to be purchased

1 2-ton truck with bed	$3,500.00	
1 jackhammer	300.00	
1 Mineralight (ultra-violet lamp)	150.00	
		$3,950.00

Equipment furnished by operator (depreciation for 6 months)

	Value	Depreciation	
1 portable air compressor	$2,000.00	$200.00	
1 stationary air compressor	5,000.00	500.00	
2 jackhammers with mountings and bars	575.00	57.50	
3 mine cars	300.00	30.00	
2 air hoists	600.00	60.00	
2 pressure tanks for jack-hammers	100.00	10.00	
			$ 857.50

Schedule of labor

2 miners at $15 per day each, plus overtime for 6 months	$5,070.00
2 muckers at $13.50 per day each, plus overtime for 6 months	4,563.00

1 foreman at $500 per month for 6 months	$3,000.00	
1 cook at $175 per month for 6 months	1,050.00	
	$13,683.00	
Payroll taxes at 14 percent	$ 1,915.62	
		$15,598.62

Materials, supplies, engineering, assaying, accounting, etc.

Explosives	$2,200.00
Timber (mine)	1,000.00
Oil and gasoline for compressors	550.00
Drill steel and bits	900.00
Carbide	20.00
1,000 feet mine rails	260.00
Track spikes, bolts, and splice bars	100.00
1,000 feet 1½-inch galv. pipe	300.00
400 feet 3/4-inch galv. pipe	100.00
4 50-foot lengths ½-inch water hose and fittings	102.00
4 50-foot lengths 3/4-inch air hose and fittings	136.00
Small tools (picks, shovels, bars, etc.)	300.00
Carbide lamps	12.00
Batteries for Mineralight	25.00
Cooking utensils, dishes, etc.	150.00
Truck expense (gas and oil, etc.)	600.00
Equipment maintenance	500.00

Boarding house loss at $100 per month for 6 months (maximum)	$600.00	
Contingencies	500.00	
Engineering (part-time at $150 per month)	900.00	
Assaying	200.00	
Accounting (part-time at $75 per month)	450.00	
		$ 9,905.00
Total cost of project		$32,211.12
Government participation at 75 percent		$24,158.34
Operator participation at 25 percent		$ 8,052.78

A suggested alternative plan for the item 1 2-ton truck at $3,500, under section, "Equipment to be purchased," is to rent a 2-ton truck with bed for the duration of the exploration project. Rental at a maximum of $175 per month for 6 months amounts to $1,050 and will allow a saving of $2,450.

Under section, "Equipment to be purchased," the Mineralight at $150 is a more elaborate ultra-violet lamp than is necessary for exploration purposes. It is believed that the lamp is intended for use in ore sorting in production, as well as for the exploration project. Mineralight model V42, priced at $64.50 retail, is adequate for exploration. It is therefore suggested that $64.50 be the maximum amount allowed in Government participation for the purchase of an ultra-violet lamp. A saving of $85.50 would be made on this item.

The saving on the above two items would reduce the total estimated cost of the project as follows:

Original total cost of project	$32,211.12
Saving - $2,450.00 plus $85.50	2,535.50
Resultant total cost of project	$29,675.62
Government participation at 75 percent	$22,256.72
Operator participation at 25 percent	$ 7,418.90

PROPOSED FINANCING

In accordance with the regulations on Government participation, as stated in DMEA Order-1, the applicant reports he is prepared to spend $8,053 in the proposed project, which is 25 percent of the total estimated cost of the project, $32,212.

CONCLUSIONS AND RECOMMENDATIONS

Production of more than 1,100 tons of ores assaying in excess of 3 percent WO_3 has been taken from a few small areas along the limestone-granite contacts, where the best mineralized showings occur either in outcrops or overburden. Haphazard exploration during the production period, conducted by means of relatively small footage of sinking, raising, drifting, crosscutting and trenching, did little to develop ore, but it did aid in the discovery of mineralized zones and suggests the probability of finding additional commercial ore bodies.

The present proposed projects have been well chosen to extend exploration along the contacts in the most favorable areas on the

property. Cost estimates have been closely scrutinized and are believed to be reasonable.

It is therefore recommended that the application for a Government loan be favorably acted upon.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV - 6 1953

224 New Customhouse
Denver 2, Colorado

November 2, 1953

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 2514 (Tungsten), W. C. Rogers, Lone Pine Mine, Box Elder County, Utah

Enclosed are four copies of the report of examination on the subject docket.

The applicant failed to submit a copy of the agreement under which he was operating. Later the applicant leased the property to Mr. John Boundy, who has failed to submit an application in his name.

The docket was closed September 15, 1953.

W. H. King
W. H. King

for E. N. Harshman
A. H. Koschmann

Enclosure

Reviewed by
DMEA OPERATING COMMITTEE
11-13-53
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 6 1953

Mining Division
Region IV

July 23, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2514, (Tungsten), W. C. Rogers, Lone Pine Mine, Box Elder County, Utah

Enclosed are nine copies of the engineering report by M.H. Howes of the Bureau of Mines. The Geological Survey will not submit a report.

The exploration proposed by the applicant consists of five projects, totalling 500 feet of drifts and crosscuts, and 500 feet of inclined shafts at a cost of $32,212.00.

The Examining Engineer believes the proposed projects have been well chosen, and will result in additional ore discovery, and he recommends that the application be approved in the amount of $29,676.00. The Government participation would be $22,257.00.

We concur in this recommendation.

W. H. King

W. H. King

Reviewed by
DMEA OPERATING COMMITTEE
11-13-53
(date)

July 18, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMEA-2514, W. C. Rogers, Lone Pine mine, Box Elder County, Utah

Enclosed are the original and 8 copies of a report covering the subject property, prepared by M. H. Howes. Also attached are required copies of a Summary, Conclusions and Recommendations section. The report was prepared from information obtained during a Bureau of Mines examination in 1951, and from discussions with the operator. The Survey did not participate in the 1951 field examination, but the manuscript was approved by J. W. Hasler. Part of the geologic information was obtained from an investigation by S. Warren Hobbs of the Survey during 1943.

The applicant does not have the necessary facilities and equipment to perform under the short-form contract, thus a contract, if prepared, will require the long form.

I concur with the recommendations for exploratory work as outlined in the report.

The original brochure is attached.

Stephen R. Wilson

Stephen R. Wilson

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11-13-53
(date)

Reviewed by
DMEA OPERATING COMMITTEE
11-19-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By M. H. Howes

The Lone Pine tungsten property in west-central Box Elder County, Utah, was examined by Bureau of Mines engineers during 1951. The Geological Survey worked in the area during 1943. Results of the two examinations have been used in preparation of the present report, which appraises an application for exploratory funds under DMEA docket 2514.

Sediments in the mine area have been intruded by a granite mass, forming irregular contacts with beds of quartzite and limestone, and sills between the beddings. Numerous small blocks of limestone remain as roof pendents. Scheelite is commonly found as fairly course-grained crystals associated with epidote, quartz, calcite, and occasional garnet, as replacement of limestone at or near the contacts, and in fracture zones in both limestone and granite adjacent to the contacts.

Sampling and geologic appraisal of mineralized zones have resulted in an estimate of 2,890 tons of measured and indicated ores lumped together, and 6,200 tons of inferred ores. The estimated assay value of the measured and indicated tonnage is 1.02 percent WO_3. The average assay value of the inferred ores is estimated to be 0.5 percent WO_3.

The exploration proposed by the applicant consists of five projects totaling 500 feet of drifts and crosscuts and 500 feet of inclined shafts. The examining engineer has estimated the total maximum cost of the exploration to be $32,212. It is believed the proposed projects have been

well chosen and will result in additional ore discovery. Recommendation is made that a loan be granted to conduct exploratory work as outlined in this report.

LONE PINE MINE
BOX ELDER COUNTY, UTAH
DMEA-2514
Tungsten

Engineering Report

By M. H. Howes
Mining engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
11-13-53
(Date)

LONE PINE MINE
BOX ELDER COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Lone Pine mine, Box Elder County, Utah
Fig. 2 Claim map.
Fig. 3 Topographic and geologic map.
Fig. 4 Geologic plans of workings.
Fig. 5 Geologic sections.

INTRODUCTION

Mr. W. C. Rogers, secretary, Lone Pine mine (a partnership), made application on April 14, 1952, for Government assistance in exploratory work consisting of 500 feet of drifts and crosscuts and 500 feet of inclined shafts estimated to cost $33,000.

ACKNOWLEDGMENTS

Data for this report were derived mainly from results of an examination and report of the property in 1951 by engineers of the U. S. Bureau of Mines and from consultation with the applicant regarding project proposals and estimated costs.

A memorandum report of Lone Pine mine, Grouse Creek Range, Box Elder County, Utah, by G. Warren Hobbs, U. S. Geological Survey, May 1944, provided information on general geology and ore deposition.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Lone Pine mine lies in sec. 10, T. 9 N., R. 17 W., S.L.B.M., at the southern end of the Grouse Creek Range, west-central Box Elder County, Utah (fig. 1). Lucin, Utah, on the main line of the Southern Pacific Railroad, is 19 miles by road southwest of the property. The mine is connected with State Highway 70 by 7 miles of dirt road, which is in poor condition at present. From this junction to Lucin, a distance of 12 miles, the road is graded and graveled.

The mine is on the steep, west slope of a fairly rugged, north-south ridge. Pinon pine and juniper trees are moderately abundant in the area. The climate is semi-arid, hot and dry during the summer and cold with considerable snow in the winter months.

HISTORY AND PRODUCTION

Prospecting for tungsten was conducted in the southern part of the Grouse Creek Range as early as 1915, and scheelite ores were mined on the Massae property during the first World War. Considerable interest was shown in location of tungsten deposits during World War II, at which time several occurrences of scheelite were found in the area. The Oyler brothers of Garland, Utah, discovered and located the Lone Pine mine in 1940. More than 1,100 tons of ores averaging plus 3 percent WO_3 was produced from 1940 to 1944. Table 1, compiled from information submitted by the mine owners, shows the total production from the property.

Table 1. - Lone Pine mine production

Year	Tons ores produced	Units WO_3 recovered	Value per unit	Total value
1940 1/	100	440	$24.50	$10,780.00
1941	228	998.3822	24.50	24,460.36
1942	332.69	1,193.0988	24.50	29,230.92
1943	344.08	223.6	28.50	6,372.60
		834.4	30.00	25,032.00
1944	151.3	566.79	30.00	17,003.70
Total	1,156.07	4,256.271		$112,879.58

1/ Assay values estimated for 2 railroad carloads of ore shipped during 1940.

The property was closed in July 1944, when Metals Reserve Company discontinued purchasing the crude ores.

OWNERSHIP AND EXTENT

The Lone Pine mine consists of 15 unpatented lode mining claims as shown on the accompanying property map (fig. 2), and is owned by a partnership as follows:

Leo Oyler	Garland, Utah	president and director
Joe Oyler	Garland, Utah	manager and director
W. C. Rogers	Garland, Utah	secretary-treasurer and director
J. I. Taylor	Spanish Fork, Utah	vice president and director
L. E. Peterson	Richland, Wash.	director
Joe Murray	Tremonton, Utah	director
Leroy Oyler	Garland, Utah	director
Merlin Gleed	Ganet, Idaho	
Douglas Oyler	Brigham, Utah	
John Oyler, Sr., Estate	Garland, Utah	
Reed Oyler	Brigham, Utah	
Roy Oyler, Jr.	Garland, Utah	
Sherman Oyler	Garland, Utah	
Kenneth Shaffer	Garland, Utah	
Gale Welling	Fielding, Utah	
Vern Oyler	Garland, Utah	

DESCRIPTION OF THE DEPOSITS

A large intrusive mass of granite is exposed for 6 to 7 miles east and west and 3 to 4 miles north and south at the southern end of the Grouse Creek Range. In the area examined, the granite forms irregular contacts with beds of limestone and quartzite and is believed to underlie these sediments at comparatively shallow depth (figs. 3 and 4). Sills of granite appear between limestone beddings. In places, limestone has not been entirely eroded and remains as small roof pendents surrounded by granite. Limestone adjoining the granite has been metamorphosed.

Scheelite commonly occurs as fairly coarse-grained crystals up to 1 inch in diameter in a gangue of epidote, quartz, calcite, and occasional garnet, as replacements in limestone at or near contacts and in fracture zones in both limestone and granite adjacent to the contacts. Near the north end of the Lone Pine property the main contact strikes northerly and dips about 35° easterly. Here lenses of ore occur in favorable beds a short distance under the contact. Two of these horizons are shown in the upper part of section C-C' (fig. 5). A few small, normal, postmineral faults of northwesterly strike and steep, easterly dip appear to have displaced ore beds 5 to 6 feet in several places. These faults may account for ore apparently pinching out in its downward extension. In the open pit below the road, as shown in the lower end of section C-C' (fig. 5), scheelite occurs in a fractured zone on the

steeply dipping contact between limestone and granite. To the south scheelite occurs in the isolated blocks of limestone in the granite. The Glory Hole, as illustrated by section D-D' (fig. 5) is an example of this type deposit. Section E-E' (fig. 5) shows scattered scheelite in limestone at the contact and also in granite a short distance below the contact.

ORE RESERVES

An ultra-violet light was used in a reconnaissance of the surface and underground workings during the 1951 examination, and areas of scheelite mineralization were noted previous to sampling. A total of 49 samples were taken and determinations made for WO_3 and Mo. Locations of samples are shown on fig. 3 and the analyses are listed in table 2.

Table 2. - Analysis of samples

Sample No.	Cut, feet	Percent WO_3	Percent Mo	Sample No.	Cut, feet	Percent WO_3	Percent Mo
4	5	0.38	<0.02	17	6	<0.01	<0.01
5	1	3.9	<0.02	18	4	<0.01	<0.01
6	5	0.3	<0.02	19	3½	<0.01	<0.01
8	3	<0.01	<0.01	20	2	3.15	<0.01
9	3	0.08	<0.01	21	2½	<0.01	<0.01
10	3	<0.01	<0.01	22	2½	1.45	<0.01
11	5	0.55	<0.01	23	2	0.9	<0.01
12	4	0.25	<0.01	24	3	0.2	<0.01
13	6	0.08	<0.01	25	6	<0.01	<0.01
14	3	<0.01	<0.01	26	3	0.9	<0.01
15	3	0.6	<0.01	27	2½	0.05	<0.01
16	3	1.1	<0.01	28	4	<0.01	<0.01

Sample No.	Cut, feet	Percent WO_3	Percent Mo	Sample No.	Cut, feet	Percent WO_3	Percent Mo
29	3	0.4	<0.01	42	4	<0.01	<0.01
30	3	<0.01	<0.01	43	3	0.08	<0.01
31	2	0.4	<0.01	44	4	<0.01	<0.01
32	4	<0.01	<0.01	45	2	1.5	<0.01
33	4	<0.01	<0.01	46	3	0.7	<0.01
34	4	0.25	<0.01	47	2½	0.8	<0.01
35	3½	0.75	<0.01	48	3	0.12	<0.01
36	3	<0.01	<0.01	49	3	<0.01	<0.01
37	5	1.8	<0.01	50	3	<0.01	<0.01
38	3	0.65	<0.01	51	3	<0.01	<0.01
39	4	<0.01	<0.01	52	grab	3.85	<0.01
40	5	<0.01	<0.01	53	1	21.0	<0.01
41	5	0.05	<0.01				

Geology and topography were mapped to aid in determining the extent of mineralization. Sections (fig. 5) were prepared to clarify observed data.

An estimate of ore reserves was made from a study of the geology and analyses of samples. A lower assay limit of 0.5 percent WO_3 was followed as closely as possible in the calculations. Scheelite mineralization apparently follows certain favorable limestone beds or fracture zones in the limestone. Since areas of measurable ore are relatively small, the measured and indicated ores were outlined together in blocks as shown on fig. 3. Tonnages and grade are given in table 3.

Table 3. - Measured and indicated ores

Block	Area sq. feet	Average thickness, feet	Volume, cu. feet	1/ Ore, tons	Average weighted assay, percent WO_3	Units WO_3
I	800	2.3	1,840	175	1.42	250
II	800	2.8	2,240	210	0.52	100
III	1,000	2.5	2,500	240	0.44	100
IV	4,050	3.2	12,960	1,250	1.58	1,975
V	1,800	3.3	5,940	565	0.48	275
VI	500	3.0	1,500	150	0.9	135
VII	800	4.0	3,200	300	0.41	125
Total				2,890	1.02	2,960

1/ 10.5 cubic feet per ton estimated.

Reserves of inferred ore were estimated by extending the measured and indicated blocks in three areas: first, blocks I, II, III, IV, and V; second, block VI; and third, block VII (fig. 3). These ores are listed in table 4.

Table 4. - Inferred ores

Inferred area extension of:	Inferred block Dimensions in feet Length Width Thick	Volume, cu. feet	1/ Tons	2/ Ore, tons	Average Assay % WO_3	Units WO_3
Blocks I, II, III, IV and V	350 x 150 x 3	157,500	15,000	5,000	0.5	2,500
Block VI	150 x 20 x 3	9,000	750	250	0.5	125
Block VII	100 x 100 x 3	30,000	2,850	950	0.5	475
Total				6,200	0.5	3,100

1/ 10.5 cubic feet per ton estimated.

2/ 1/3 tonnage in inferred block estimated to be inferred ore.

PRESENT STATUS

Approximately 200 feet of inclined shafts and winzes, 900 feet of crosscuts and drifts, 50 feet of raises and 200 feet of open cuts and trenches have been driven to develop the ore mined and to explore for new ores and extensions of known deposits.

Structures on the property consist of a 12- x 20-foot cabin or cook house, a dugout cellar, a small dugout powder magazine, a small cap and fuse magazine, a compressor house, and two ore bins. Two mine skips, two mine cars, and a small amount of mine rails constitute the equipment at the mine. However, it is reported that the mine has two air hoists, a portable air compressor, a stationary air compressor, two jackhammers with mountings and bars, two pressure tanks, and a small quantity of mine rails, galvanized pipe and air hose stored in Garland, Utah. Water for mine and culinary use is available from a spring situated near the cabin, which is said to produce 35 gallons per minute.

PROJECT PROPOSALS

The proposed exploration work will be done on Rocky Ridge No. 1, Lone Pine No. 3, Lone Pine No. 5, and Lone Pine No. 6 lode mining claims.

Project 1A (see fig. 3)

It is proposed to drive a 5- x 7-foot drift 200 feet along the mineralized limestone-granite contact exposed by the open pit in block VI.

Project 2A (see figs. 3, 4 and 5)

It is proposed to drive a 5- x 7-foot crosscut 25 feet westerly into the footwall and 25 feet easterly into the hanging wall on the north side of the inclined shaft, block II, to find the possible downward extension of the ore zone. If this zone is encountered, it is proposed to sink the present inclined shaft (5- x 7-foot) a distance of 250 feet on the mineralized zone.

It is further proposed to drive a 5- x 7-foot drift 50 feet northerly from the end of the drift at the bottom of block I in the ore zone.

Project 1B (see figs. 3 and 5)

It is proposed to drive a 5- x 7-foot adit 200 feet southeasterly from a point on the slope about 50 feet lower in elevation than the present Glory Hole tunnel, to intercept the possible downward extension of the Glory Hole ore zones.

Project 2B (see figs. 3 and 5)

It is proposed to sink a 5- x 7-foot inclined shaft 50 feet northerly from the bottom of the Glory Hole incline in the ore zone.

Project 1C (see fig. 3)

It is proposed to sink a 5- x 7-foot inclined shaft 200 feet easterly from the open pit at the top of block V in the ore zone.

Time Schedule

The operator plans to use 2 crews of 2 men each, 1 shift per day on the proposed projects.

The time schedule is estimated on the basis of a crew of 2 men advancing 4 feet per shift in crosscuts and drifts, and 3 feet per shift in inclined shafts.

Project 1A	- drift, 200 feet		50 days
Project 2A	- crosscut, 50 feet	13 days	
	inclined shaft, 250 feet	84 "	
	drift, 50 feet	13 "	
			110 "
Project 1B	- drift, 200 feet		50 "
Project 2B	- inclined shaft, 50 feet		17 "
Project 1C	- inclined shaft, 200 feet		67 "
Total time for 1 crew of 2 men			294 days
Total time for 2 crews of 2 men each			147 days or 6 months

COSTS

Rehabilitation of existing facilities, buildings, installations and fixtures

Cook house	$500.00	
Cellar for cook house	50.00	
Powder magazine	50.00	
Cap and fuse magazine	50.00	
Compressor house	100.00	
		$750.00

Additional facilities, buildings, installations and fixtures

Spring pump house	$100.00	
1 ½-h.p. pump complete	300.00	
1 300-gallon water tank	200.00	
1 cook stove	100.00	
1 gas refrigerator	150.00	
2 sleeping tents (with board sides and floors) or army barracks	300.00	
		$1,150.00

Equipment to be purchased

1 2-ton truck with bed	$3,500.00	
1 jackhammer	300.00	
1 Mineralight (ultra-violet lamp)	150.00	
		$3,950.00

Equipment furnished by operator (depreciation for 6 months)

	Value	Depreciation	
1 portable air compressor	$2,000.00	$200.00	
1 stationary air compressor	5,000.00	500.00	
2 jackhammers with mountings and bars	575.00	57.50	
3 mine cars	300.00	30.00	
2 air hoists	600.00	60.00	
2 pressure tanks for jackhammers	100.00	10.00	
			$ 857.50

Schedule of labor

2 miners at $15 per day each, plus overtime for 6 months	$5,070.00
2 muckers at $13.50 per day each, plus overtime for 6 months	4,563.00

1 foreman at $500 per month for 6 months	$3,000.00	
1 cook at $175 per month for 6 months	1,050.00	
	$13,683.00	
Payroll taxes at 14 percent	$ 1,915.62	
		$15,598.62

Materials, supplies, engineering, assaying, accounting, etc.

Explosives	$2,200.00
Timber (mine)	1,000.00
Oil and gasoline for compressors	550.00
Drill steel and bits	900.00
Carbide	20.00
1,000 feet mine rails	260.00
Track spikes, bolts, and splice bars	100.00
1,000 feet 1½-inch galv. pipe	300.00
400 feet 3/4-inch galv. pipe	100.00
4 50-foot lengths ½-inch water hose and fittings	102.00
4 50-foot lengths 3/4-inch air hose and fittings	136.00
Small tools (picks, shovels, bars, etc.)	300.00
Carbide lamps	12.00
Batteries for Mineralight	25.00
Cooking utensils, dishes, etc.	150.00
Truck expense (gas and oil, etc.)	600.00
Equipment maintenance	500.00

Boarding house loss at $100 per month for 6 months (maximum)	$600.00	
Contingencies	500.00	
Engineering (part-time at $150 per month)	900.00	
Assaying	200.00	
Accounting (part-time at $75 per month)	450.00	
		$ 9,905.00
Total cost of project		$32,211.12
Government participation at 75 percent		$24,158.34
Operator participation at 25 percent		$ 8,052.78

A suggested alternative plan for the item 1 2-ton truck at $3,500, under section, "Equipment to be purchased," is to rent a 2-ton truck with bed for the duration of the exploration project. Rental at a maximum of $175 per month for 6 months amounts to $1,050 and will allow a saving of $2,450.

Under section, "Equipment to be purchased," the Mineralight at $150 is a more elaborate ultra-violet lamp than is necessary for exploration purposes. It is believed that the lamp is intended for use in ore sorting in production, as well as for the exploration project. Mineralight model V42, priced at $64.50 retail, is adequate for exploration. It is therefore suggested that $64.50 be the maximum amount allowed in Government participation for the purchase of an ultra-violet lamp. A saving of $85.50 would be made on this item.

The saving on the above two items would reduce the total estimated cost of the project as follows:

Original total cost of project	$32,211.12
Saving - $2,450.00 plus $85.50	2,535.50
Resultant total cost of project	$29,675.62
Government participation at 75 percent	$22,256.72
Operator participation at 25 percent	$ 7,418.90

PROPOSED FINANCING

In accordance with the regulations on Government participation, as stated in DMEA Order-1, the applicant reports he is prepared to spend $8,053 in the proposed project, which is 25 percent of the total estimated cost of the project, $32,212.

CONCLUSIONS AND RECOMMENDATIONS

Production of more than 1,100 tons of ores assaying in excess of 3 percent WO_3 has been taken from a few small areas along the limestone-granite contacts, where the best mineralized showings occur either in outcrops or overburden. Haphazard exploration during the production period, conducted by means of relatively small footage of sinking, raising, drifting, crosscutting and trenching, did little to develop ore, but it did aid in the discovery of mineralized zones and suggests the probability of finding additional commercial ore bodies.

The present proposed projects have been well chosen to extend exploration along the contacts in the most favorable areas on the

property. Cost estimates have been closely scrutinized and are believed to be reasonable.

It is therefore recommended that the application for a Government loan be favorably acted upon.

Docket mtl Region 4 case

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

224 New Customhouse
Denver 2, Colorado

September 15, 1953

Mr. W. C. Rogers
Lone Pine Mine
Box 124
Garland, Utah

Re: Docket No. DMEA 2514

Dear Mr. Rogers:

Reference is made to our letter of June 17, 1953, in which we suggested that if you leased your property to Mr. Boundy he could submit another application for exploration assistance.

We have not heard from you or Mr. Boundy since that date and we are now closing your docket 2514.

Very truly yours,

W. H. KING

Original in Hickman

W. H. King
Executive Officer, DMEA
Field Team, Region IV

HMC:jp
cc Subject
Chron
SRWilson
AHKoschmann
COMittendorf (2)
HMConnors

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

224 New Customhouse
Denver 2, Colorado

September 15, 1953

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W. H. King
Executive Officer, DMEA
Field Team, Region IV

HMC:jp
cc Subject
Chron
SRWilson
AHKoschmann
COMittenderf (2)
HMConners

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

224 New Customhouse
Denver 2, Colorado

June 17, 1953

Mr. W. C. Rogers
Lone Pine Mine
P. O. Box 124
Garland, Utah

Dear Mr. Rogers:

Reference is made to your letter dated May 11, 1953 regarding your application for exploration assistance, Docket No. DMEA 2514.

In this letter you stated you are entering into a lease with Mr. John Boundy, and that Mr. Boundy would contact our office for the purpose of going ahead with the exploration work. We have not heard from Mr. Boundy so we are plasing your application in our inactive files.

If at some later date Mr. Boundy would care to make a new application for exploration assistance as lessee of your property, we would be glad to consider his application.

Very truly yours,

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:fwo

cc COMittendorf
SRWilson
Shaw
Koschmann (2)
Subject
Chron

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

224 New Customhouse
Denver 2, Colorado

October 24, 1952

BL

Mr. W. C. Rogers
P. O. Box 124
Garland Boxelder County, Utah

Dear Mr. Rogers:

We have not received a reply to our letter dated August 15, 1952, in which we requested certain information necessary for completion of an Exploration Project Contract covering your application for exploration assistance, Docket DMEA 2514.

If we do not hear from you within 30 days we will assume that you are no longer interested in exploration assistance and your application will be placed in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Administrator, DMEA (2)
SRWilson
AHKoschmann (2)
Subject
Chron
Shaw

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

224 New Customhouse
Denver 2, Colorado

October 24, 1952

Mr. W. C. Rogers
P. O. Box 124
Garland Boxelder County, Utah

Dear Mr. Rogers:

We have not received a reply to our letter dated August 15, 1952, in which we requested certain information necessary for completion of an Exploration Project Contract covering your application for exploration assistance, Docket DMEA 2514.

If we do not hear from you within 30 days we will assume that you are no longer interested in exploration assistance and your application will be placed in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Administrator, DMEA (2)
SRWilson
AHKoschmann (2)
Subject
Chron
Shaw

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

224 New Customhouse
Denver 2, Colorado

July 23, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA, Docket 2514, (Tungsten), W. C. Rogers, Lone Pine Mine, Box Elder County, Utah.

Exploration assistance in the amount of $29,676.00 has been approved, Government participation--$22,257.00, and the contract will be prepared by this office.

Four copies of the report will be forwarded you when the contract is signed.

The original and one copy of Form 3b is attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

W.H.K.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 28 1952

Reg. IV case

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

224 New Customhouse
Denver 2, Colorado

July 23, 1952

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 28 1952

DMEA Form 3b
(Revised)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMEA Docket No. 2514

Name of Applicant W.C. ROGERS, LONE PINE MINE

Change:	From		To	
	III 1	☐	III 1	☒ 7-23-52
	III 2	☐	III 2	☐
	III 3	☐	III 3	☐
	III 4	☒	III 4	☐
	III 5	☐	III 5	☐

Add:

II 7 $ 32,212.00

II 8 $ 29,675.62

II 8a % 75%

Remarks:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 28 1952

Initials of person preparing sheet HMC

Date sheet prepared 7-23-52

17367

DMEA Form 3b
(Revised)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMEA Docket No. 2514

Name of Applicant W.C. ROGERS, LONE PINE MINE

Change:	From		To	
	III 1	☐	III 1	☒ 7-23-52
	III 2	☐	III 2	☐
	III 3	☐	III 3	☐
	III 4	☒	III 4	☐
	III 5	☐	III 5	☐

Add:

II 7 $ 32,212.00

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Remarks:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 28 1952

Initials of person preparing sheet HMC

Date sheet prepared 7-23-52

17367

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2514
Metal or Mineral
Date Received 5-5-52
Amount $
Participation (Government %)

MAY 5 1952

Lone Pine Mine
A Partnership

Name and address of applicant

W.C. Rogers,
P.O. Box 124
Garland Boxelder Co.
Utah
April 14- 1952

If you have already filed MF-100, give date filed ....., type of assistance requested Loan,

DMA Docket Number (if available) Not Available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

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

Lone Pine Mine Partnership (Name of company) By William G. Rogers (Signature of authorized official)

April 14-1952 (Date) Secy. Treas. (Title)

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—64067-2

#(1)

(A)- The property is located in consisting of twelve clames.

The proposed exploration work will be done on clames,

Rocky Ridge #1 Lone Pine #3-5 &6

(B) We are the Owners, Calmes were located and filed in the

County Court House at Brigham City, Box Elder County Utah.

(C) The exploration work will be done on clames, Rocky Ridge # 1

Lone Pine #3-5 & 6

Note (1)

(A) and (C) are the same areas.

#(2)

(A) In the proposed exploration work we expect to locate additional

ore beds or veins of scheelite ore.

(B) The ore is located in beddings of lime stone next to the granet.

In the mining we found the ore beddings and veins cut off by

faulting.

We feel that we can by the proposed exploration work find the

extent of the faulting and pick up the ore beddings again.

#(3) (A)
Project #1 (A)

It is proposed to drive a tunnel 5'x 7' approximate two hundred feet on Block Six as shown on map.

#(3) Project #2 (A)

It is proposed to cross cut 25' east and 25' west in the present incline shaft, if ore bedding or vein is encountered it is proposed to sink incline on ore bedding or vein approximate 250' also drift 50' on ore bedding.

#(3) Project #1 (B)

It is proposed to drive a tunnel 5'x 7' approximate two hundred feet on Block Seven as shown on map.

#(3) Project #2 (B)

It is proposed to sink incline shaft 50' on ore vein on Block Seven. as shown on map.

#(3) Project #1 (C)

It is proposed to sink incline shaft two hundred feet on ore bedding on Block Five as shown on map.

#(3)
(B) It is proposed to start the project thirty days after loan is granted. It will be compleated approximately two years or less from time project was started.

#(4) Attached is maps as requested.

#(5)- 1-Cook house

1- Powder house

1- Cellar

1- Cap and Fuse house

2- Ore bins

1- Compressor house

Roads

Estimated cost of rehabilitation of facilities.

(Cook house)

Repair roof

" Windows

" Walls and doors

Total cost for repairs listed $ 580.00

(Powder house)

Clean out litter and repair door

Total cost for repairs listed $ 100.00

(Cellar)

Clean out litter and repair door

Total cost for repairs listed $ 50.00

(Cap and Fuse house)

Clean out litter and repair door

Total cost for repairs listed $ 100.00

(Compressor house)

Total cost for repairs listed $ 100.00

(Ore bins)

General overhaul

Total cost for repairs listed $ 300.00

(Roads)

Grading & Widening, Fills on Washouts $ 500.00

Clean out spring, & build pump house $ 100.00

(6) (Additional Facilities to be Purchased.)

(A) None

(B) 1- Cook Stove	$	100.00
1- Water Tank 300Gal. Cap.	$	200.00
2- Sleeping Tents or army barricks	$	100.00
Floors and side walls for tents	$	200.00
Additional roads and dugways	$	500.00
1- 1/2 H.P. Water pump compleet	$	300.00
1- Gas Refrigator	$	150.00
Cooking Utenelee	$	150.00

#7(Equipment)

(A) None

(B)	One two ton truck with bod	$ 3800.00
	1- Jack hammer	$ 300.00
	1000' 1½ " Galv. pipe	$ 300.00
	400' 3/4 " "	$ 100.00
	1000' Mine rail	$ 260.00
	Small tools	$ 300.00
	10- 50' Lengths 3/4" air hose fitted	$ 340.00
	10- 50' " 1/2" water " "	$ 255.00
	Carbide lights	$ 12.00
	Mineral light	$ 150.00

(7) C-(Equipment Furnished)

	Value	Depreciation
1- Portable air compressor	$ 2000.00	$ 333.33
1- Stationary air "	$ 5000.00	833.33
2- Jack hammers	$ 400.00	$ 66.66
3- Mine cars	$ 300.00	$ 50.00
1000' Mine rail	$ 200.00	$ 33.33
1000' Air hose fitted	$ 600.00	$ 100.00
1000' Galv. pipe	$ 260.00	$ 43.33
2- Air hoists	$ 600.00	$ 100.00
500' Steel cable	$ 75.00	$ 12.50
2- Jack hammer mountings with bars	$ 175.00	$ 29.17
2- Pressure tanks for jack hammers	$ 100.00	$ 16.67

MT-103

(8)-(Schedule of Labor)

Two Miners	@ $ 18.00	Per Day
Two Muckers	@ $ 14.00	Per Day
One Foreman	@ $ 25.00	Per Day
One Cook	@ $ 175.00	Per Mo.

Plus Social security taxes.

Unemployment Insurance.

Liability Insurance.

14% of gross pay roll.

(#9) (Materials)

Explosives	$ 1500.00
Timbers	$ 1000.00
Oil	$ 50.00
Gasoline	$ 500.00
Drill Steel	$ 300.00
Tool Bits	$ 150.00
Carbide	$ 20.00
Rail Spikes	$ 23.60
Track Bolts	$ 24.00
Splice Bars	$ 120.00
Supplies	$ 500.00
Engineering	$ 3000.00
Assaying	$ 200.00
Accounting	$ 1000.00
Moving equipment from Garland to mine	$ 300.00
Car Expence	$ 1000.00
Maintenance	$ 500.00
Batterys for mineral lights	$ 25.00

(10)

(A) We are prepared to invest, $ 8333.33

(B) This amount is sufficient to pay our part of the cost of the project, according to the Goverment regulation Mineral Order # 5 under Defence Production Act of 1950.

(11) To the best of my knowledg the conditions and circumstances regarding the property are sufficently brought out by the foregoing questions.

Form MF-100
(May 1951)

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2514

Date received 5-5-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 5 1952

Lone Pine Mine
A Partnership

W.C. Rogers,
P.O.Box 124
Garland Boxelder Co.
Utah

Name and address of applicant

Date April 14- 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production 1941-42-43-&44

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant — ~~Corporation~~ Partnership — Common (e)	Preferred (f)	Life Insurance Carried for Benefit of Applicant — Amount (g)	Net Cash Surrender Value After Loans (h)
Leo Oyler Garland Utah	President (D)	None		5 3/8			
Joe Oyler Garland Utah	Manager (D)	"		4			
W.C. Rogers Garland Utah	Secy.Treas. (D)	"		4 1/4			
J.I. Taylor Spanish Fork Utah	Vice Pres. (D)	"		4 1/4			
L.E. Peterson Richland Wash.	(D)			4			
Joe Murray Tremonton Utah	(D)			3			
Leroy Oyler Garland Utah	(D)			4			
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

1- Materials Produced

(A)- Scheelite Ore
(B)- None

#2- Lone Pine Mine, Under ground workings with one pit.

(A)- Two Hundred feet.
(B)- One Hundred feet.
(C)- Eight Hundred & fifty feet.
(D)- One Hundred feet of open cross trenching.

The mine is not flooded, Pumping is not required .

Productive capacity has not been proven.

3-
(A)- Eighteen miles north east of Lucin Utah. Rail road shipping point.

(B)- Unorginised.

(C)- Section 10- Township 9N- Range 17 W. Salt Lake Mdr.

(D)- Boxelder County Utah.

4-
(A)- The property is not now in operation.

(B)- We are operating the property as owner.

5- The mine was in operation for four years during 1941-42-43& 44. Estemated date when production will begin depends on the sucess of the proposed exploration work and necessary arangements are completed to process the ore.

6- W.C.Rogers Applicant, is presently employed with the Utah Idaho Sugar Co. as Assistant Master Mechanic, at the Garland Factory. Mr. Rogers has had considerable experience in prospecting and mining, he has worked at the mine as a miner off and on for the last ten years, He is a home owner and a good reliable citizen.

Mr. Joe Oyler, proposed Manager has been in the mining and prospecting business most of his adult life.

He has been employed at different mines in the State of Utah and has been in charge most of the time on the work and mining of scheelite ore on the Lone Pine Mining clames.

Mr. Oyler is a successful rancher and contractor and has considerble experence along buisness lines.

Summary.

During the period the mine was producing, the price paid per unit of WO3 was about $ 22.00.

In order to make the mine show a profit the ore had to assay at least 4% WO3 to pay for expenses and pay the partners a small profit.

Also during thewar years we were unable to secure labor to operate the mine

During the period from 1943 to the present time assesment work was carried out and some exploration work was done but no ore was shiped .

We have had several Mimimg Engineers on the property, and they all recommended that we continue the exploration work.

It is our beleif that with the proposed loan we can discover the ore beds and veins that surface and underground workings indicate are thereand bring the mine to producing Tungsten that the Goverment is so urgently in need of.

#(7) History,

(A) In the spring of 1941 the Lone Pine clames were located and filed on.

The first exploration work was done on what is known as the glory hole . After the sheelite ore was discovered near the top of the hill, a tunnel was driven about fifty feet and contact made with the ore bed which proved to be of high grade ore running from about 3% WO3 to as high in small streaks or veins of 22% WO3.

This discovery bed produced about one hundred and fifty tons of sheelite ore averaging about 5% WO3.

After all the shipping ore had been mined ~~and shi~~ there still remained some low grade ore and small high grade veins that cost of mining and shipping and milling made futher mining at this location unprofitable.

The next exploration carried on was south west of the glory hole where cross trenching showed good indications of mineralization.

A tunnel was driven approximatly two hundred feet with no showings.

The property was then leased to a Japanese Co. These people took out one car load of ore, but we were forced to take the property back as they had done considerable damage to the property.

The next exploration work carried on was north west of the glory hole.

After cross trenching and finding good indications, a tunnel was ~~about~~ driven about one hundred and fifty feet, No shipping ore was discovered. North of this tunnel a vein or bedding of ore was uncovered and an incline shaft was driven on the ore bed, This ore proved to be high in WO3 running about 5%WO3 average.

#7 History.

(A) This bedding was followed down on an incline of about 22 degrees pitch for seventy five feet where a fault cut off the ore bed.

About three hundred tons of ore was mined and shipped.

The incline shaft was driven through the fault for about twenty five feet with showings of fromone half to one percent WO3.

As this ore was to low in WO3 for shipping at the price paid per unit, about $ 22.000 No more work was done on the incline shaft.

Small rich veins running north east were not followed. The formation was cross cut to the south about seventy five feet on a good vein of ore. Most of this wad mined out.

An incline shaft was driven on a small but high grade vein for seventy five feet , fault was encountered and the work was stoped.

The next exploration work was carried on below the road and directly below the incline shaft, here good scheelite ore was discovered and mined in a trench but no tunnels or shafts were driven or sunk.

A considerable amount of small exploration work was done on the claims and some good showings were discovered and a small tonage of ore was mined.

The years we were producing 1941 to 44-

We produced. 3813.0610 Units of WO3

#(8)

Name And Address.	Title	Shares Stock
Merlin Gleed Ganet Idaho		1
Douglas Oyler Brigham Utah		1/8
John Oyler Jr. Estate Garland Utah		4
John Oyler Sr. Estate Garland Utah		4
Reed Oyler Brigham Utah		1/8
Roy Oyler Jr. Garland Utah		1/2
Sherman Oyler Garland Utah		1/2
Kenneth Shaffer Garland Utah		1/2
Gale Welling Fielding Utah		1/4
Vern Oyler Garland Utah		1/8

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Has not been proven				
Indicated (probable)	Probable Reserve Shown on Maps				

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

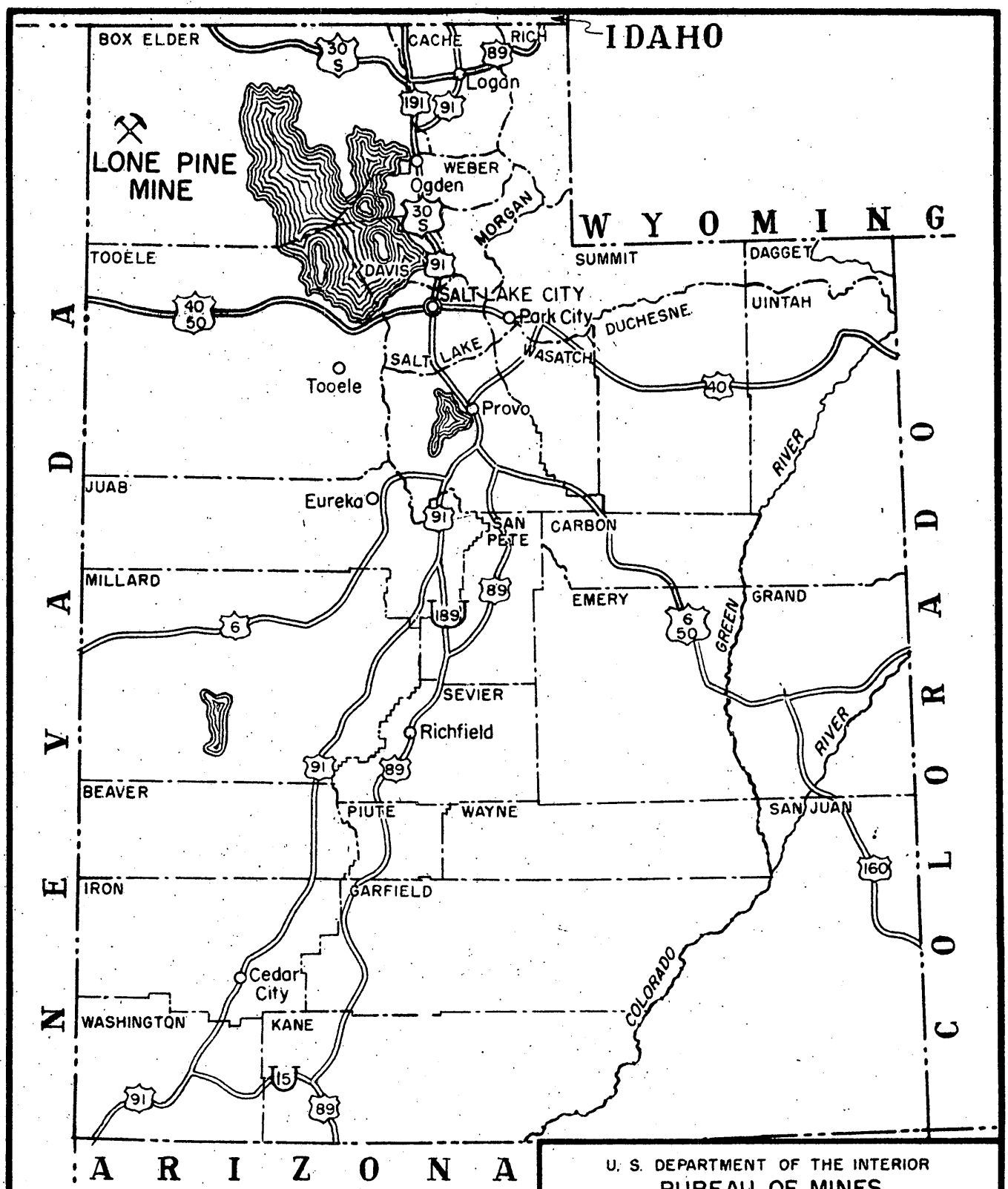
The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Lone Pine Mine Partnership By William L Rogers
(Name of company) (Signature of authorized official)

April 14 - 1952 Secy. Treas
(Date) (Title)

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—63792-1



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

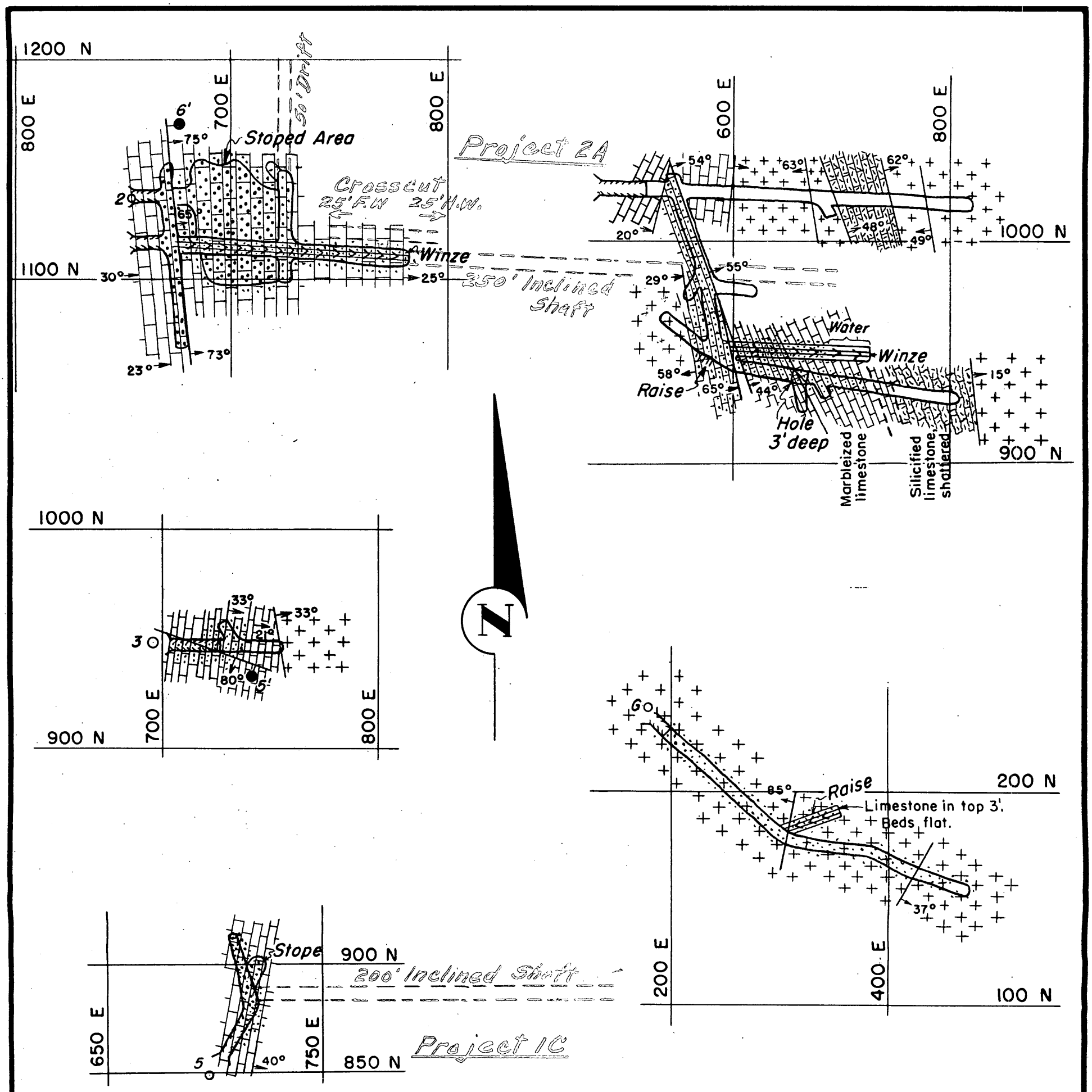
Fig. 1 Project No.

Location Map

LONE PINE MINE

BOX ELDER CO., UTAH

ENGINEER: M. H. H. & H. F. B.	DATE: JUNE 7, 1951
TRACED: JUNE, 1951; A. P. T. S.	700 - 160 - E
CHECKED:	



LEGEND

- MINERALIZATION
- GRANITE
- LIMESTONE WITH DIP (23°)
- SILICIFIED LIMESTONE (?)
- UNDERGROUND MINE WORKING
- FAULT OR FISSURE WITH DIP (75°)
- CONTACT

0 50 100 150
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 4 Proj. No.

Geologic Plans of Workings
LONE PINE MINE
BOX ELDER CO., UTAH

ENGINEER: M.H.H. & H.F.B.	DATE: JUNE 13, 1951
TRACED: JUNE, 1951; A.P.T.S.	700-164-F
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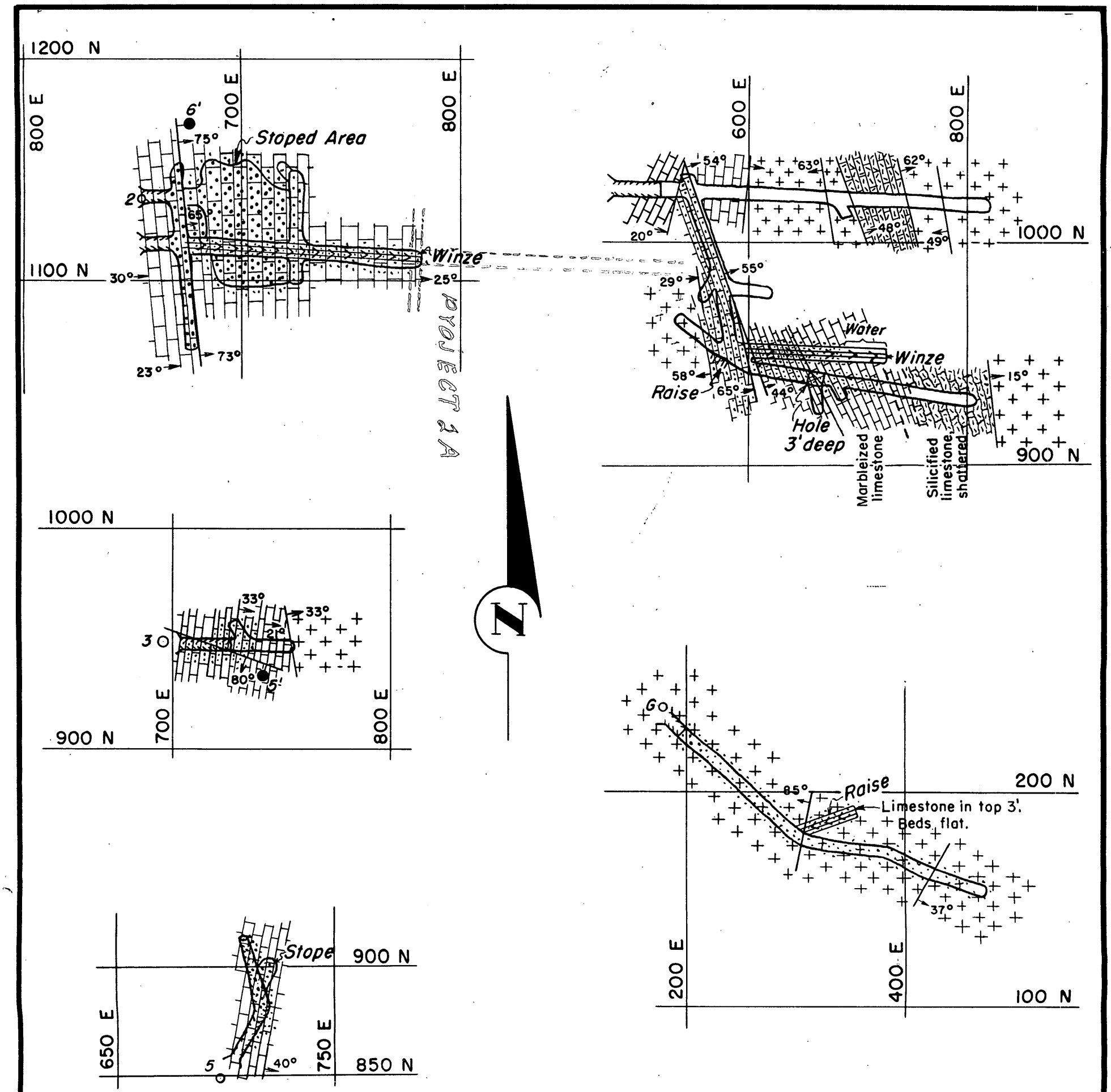


LEGEND

- MINERALIZATION
- GRANITE
- LIMESTONE WITH DIP (23°)
- SILICIFIED LIMESTONE (?)
- UNDERGROUND MINE WORKING
- FAULT OR FISSURE WITH DIP (75°)
- CONTACT

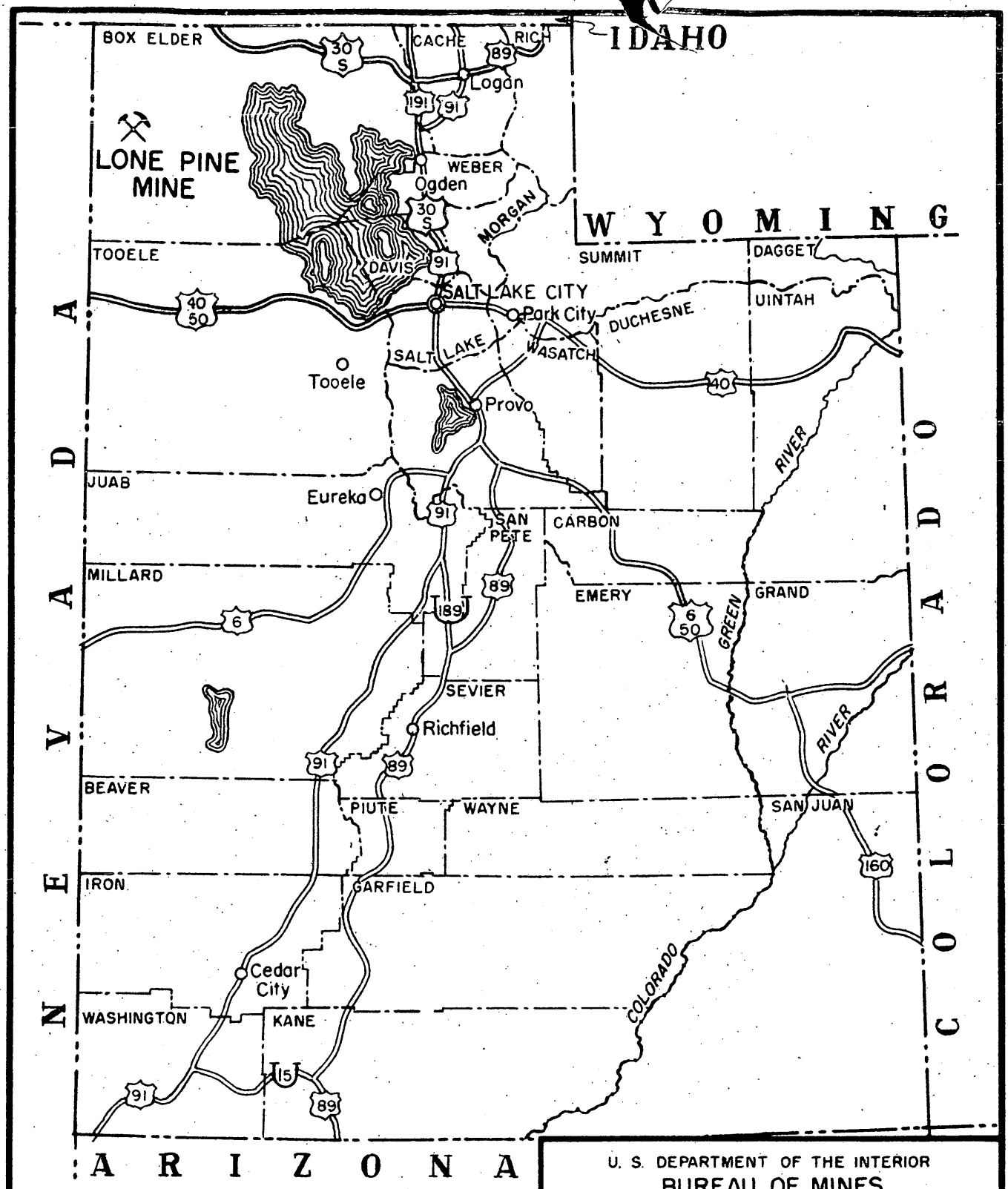
0 50 100 150
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 4 Proj. No.

Geologic Plans of Workings
LONE PINE MINE
BOX ELDER CO., UTAH

ENGINEER: M.H.H. & H.F.B.	DATE: JUNE 13, 1951
TRACED: JUNE, 1951; A.P.T.S.	700-164-F
CHECKED:	



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 Project No.

Location Map

LONE PINE MINE

BOX ELDER CO., UTAH

ENGINEER: M. H. H. & H. F. B.	DATE: JUNE 7, 1951
TRACED: JUNE, 1951; A. P. T. S.	700 - 160 - E
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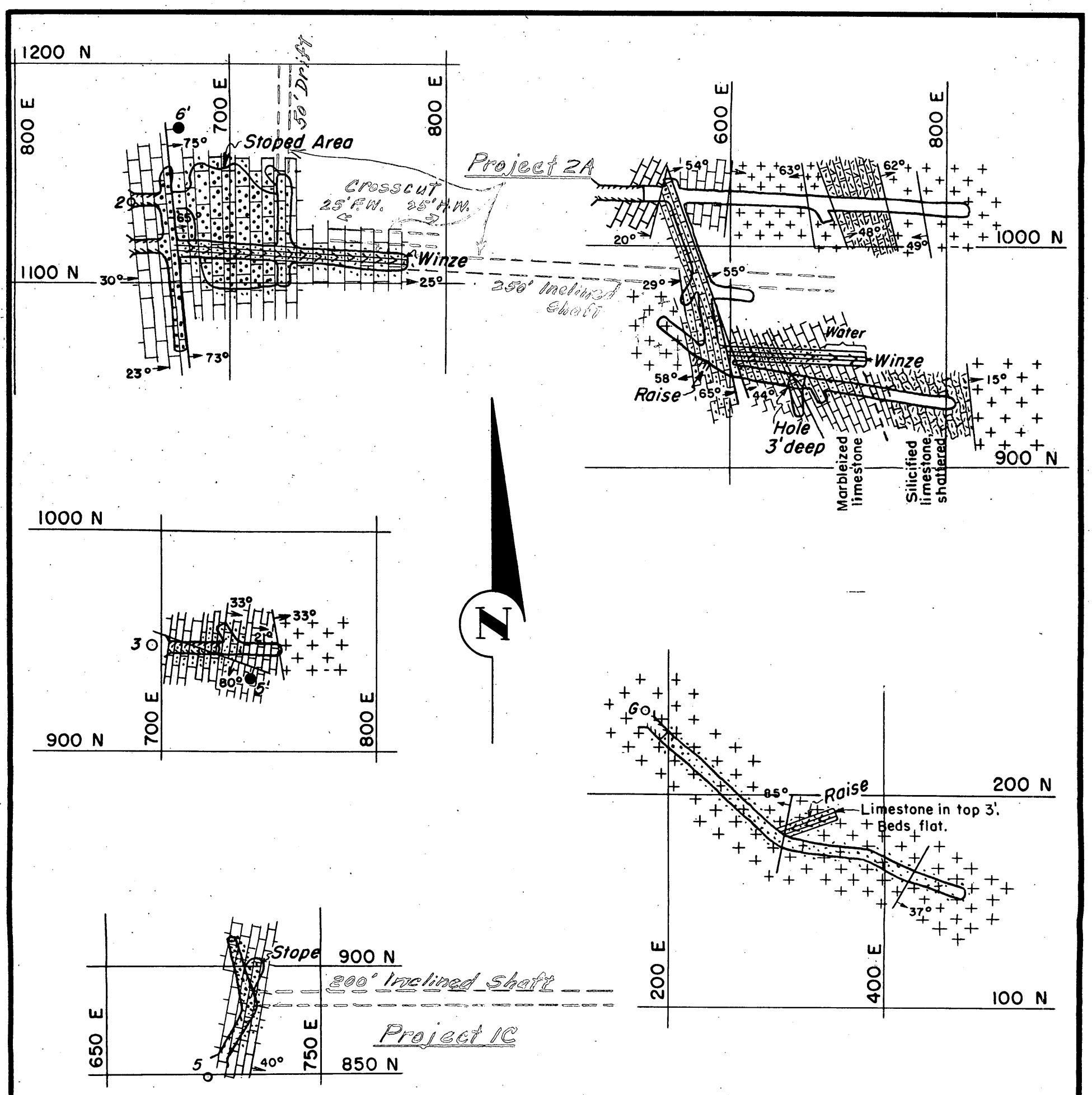

LEGEND

- MINERALIZATION
- GRANITE
- LIMESTONE WITH DIP (23°)
- SILICIFIED LIMESTONE (?)
- UNDERGROUND MINE WORKING
- FAULT OR FISSURE WITH DIP (75°)
- CONTACT

0 50 100 150
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 4 Proj. No.

Geologic Plans of Workings
LONE PINE MINE
BOX ELDER CO., UTAH

ENGINEER: M.H.H. & H.F.B.	DATE: JUNE 13, 1951
TRACED: JUNE, 1951; A.P.T.S.	700-164-F
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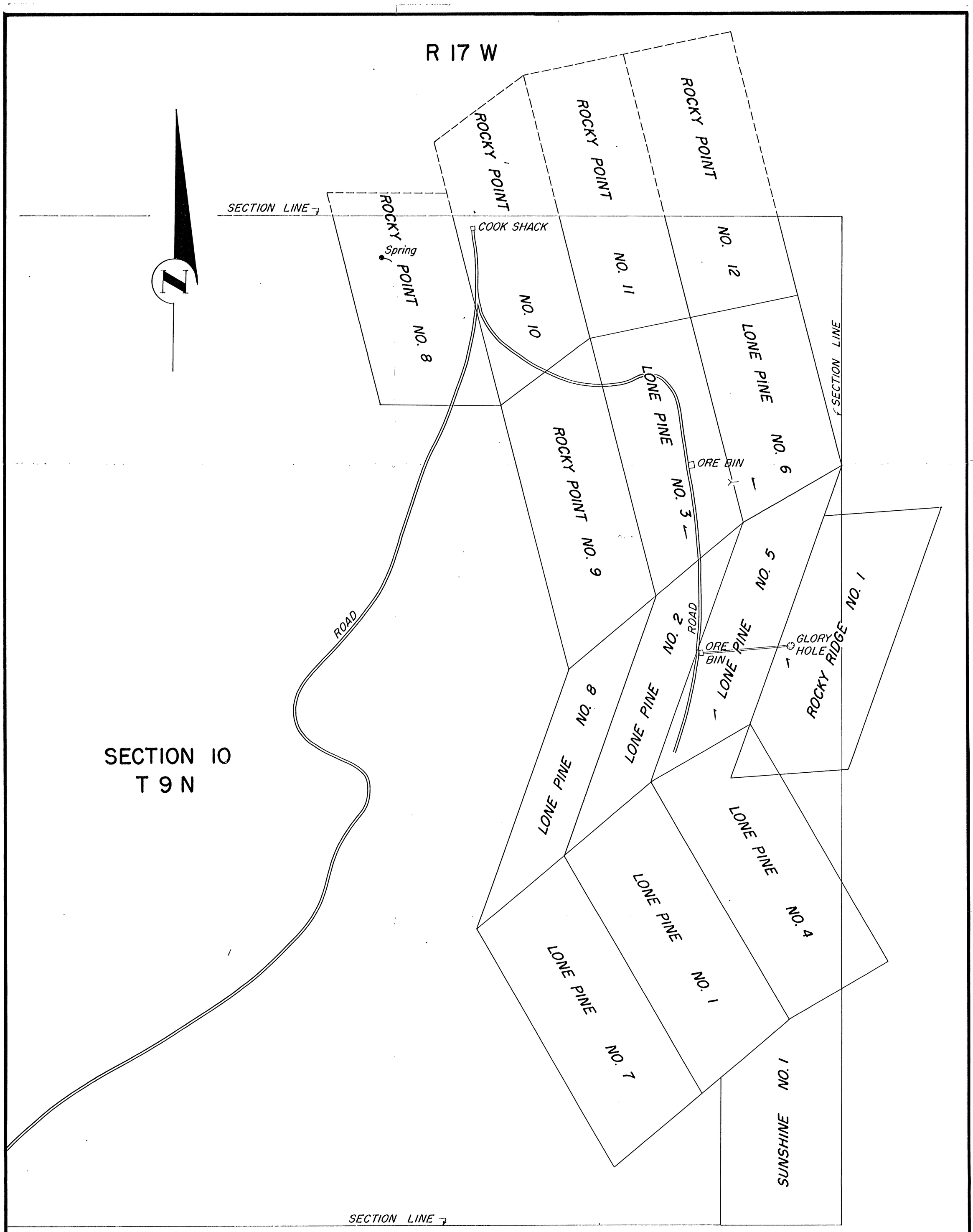
Washington 25, D. C.



NOTE

DATA DRAWN FROM INFORMATION FURNISHED BY THE LONE PINE MINE.

0 300 600 900 1200
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 Proj. No.

Claim Map

LONE PINE MINE

BOX ELDER CO., UTAH

ENGINEER: M.H.H. & H.F.B.	DATE: JUNE 8, 1951
TRACED: JUNE, 1951; BY: A.P.T.S.	700 - 161 - C
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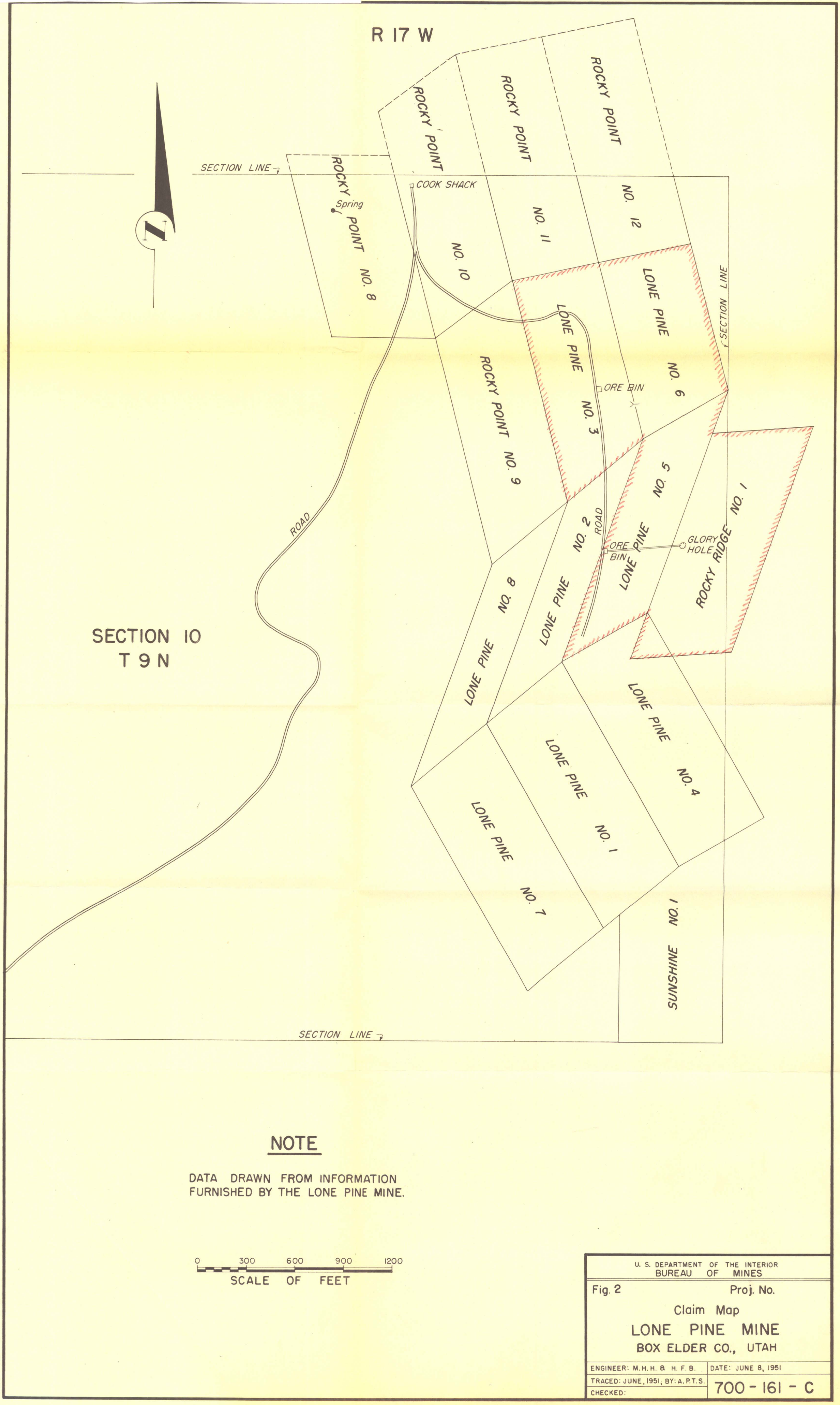


NOTE

DATA DRAWN FROM INFORMATION FURNISHED BY THE LONE PINE MINE.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

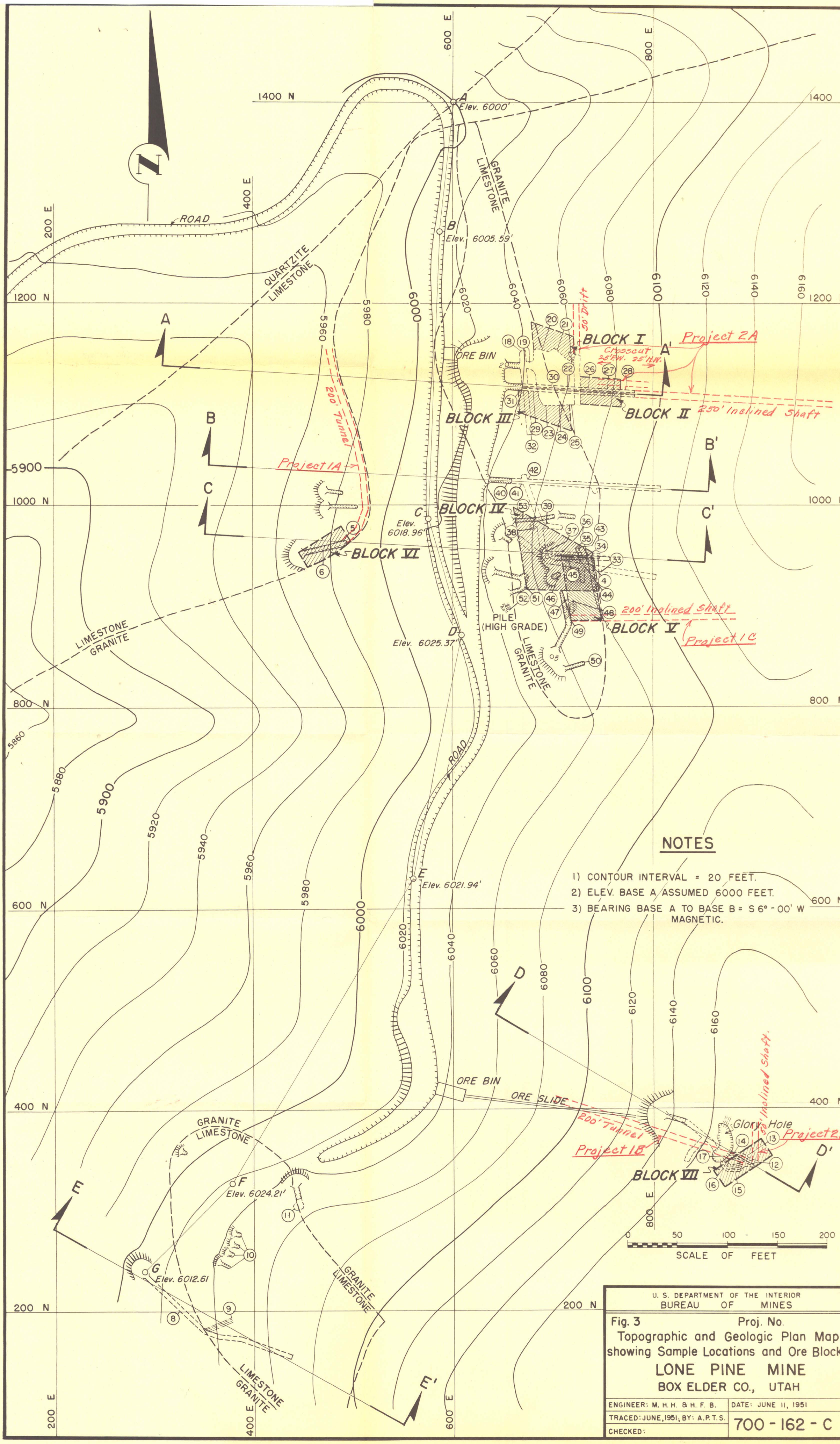
Fig. 2 Proj. No.

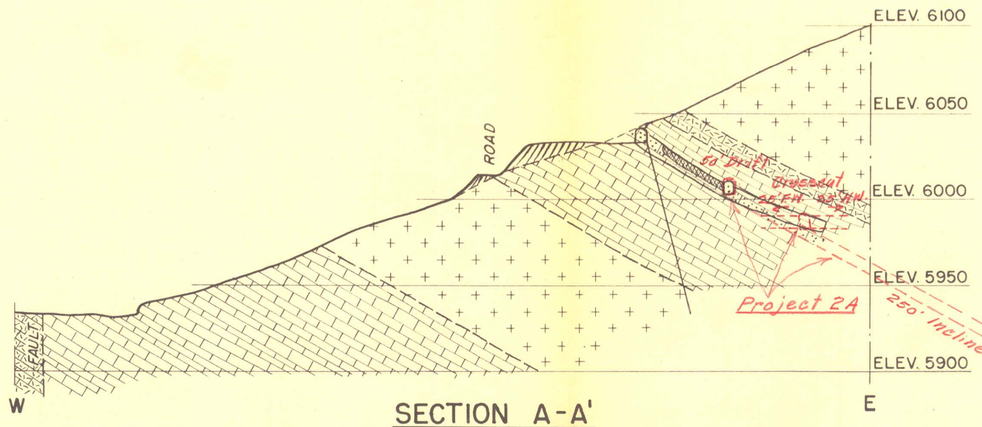
Claim Map

LONE PINE MINE

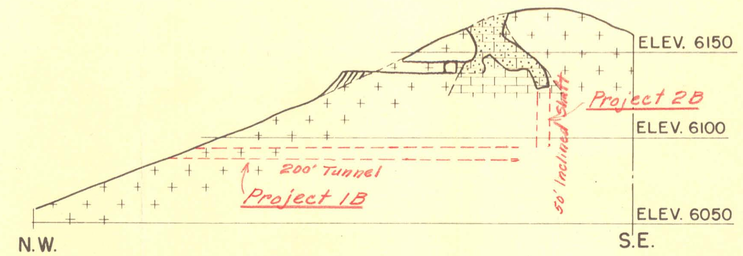
BOX ELDER CO., UTAH

ENGINEER: M.H.H. & H.F.B.	DATE: JUNE 8, 1951
TRACED: JUNE, 1951; BY: A.P.T.S.	700 - 161 - C
CHECKED:	

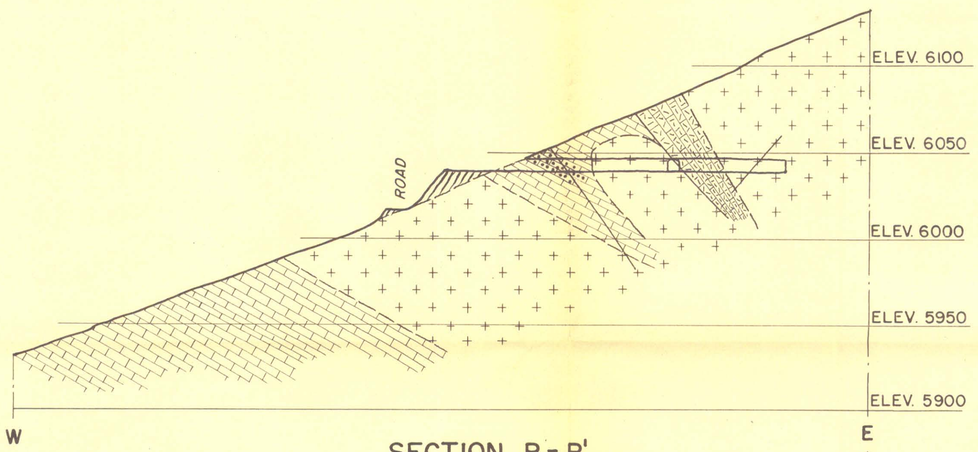

N
ROAD
QUARTZITE
LIMESTONE
GRANITE
LIMESTONE
A
Elev. 6000'
B
Elev. 6005.59'
C
Elev. 6018.96'
D
Elev. 6025.37'
E
Elev. 6021.94'
F
Elev. 6024.21'
G
Elev. 6012.61'
ORE BIN
BLOCK I
BLOCK II
BLOCK III
BLOCK IV
BLOCK V
BLOCK VI
BLOCK VII
Project 2A
Crosscut 25' F.W. 25' H.W.
50' Drift
250' Inclined Shaft
200' Tunnel
Project 1A
200' Inclined Shaft
Project 1C
PILE (HIGH GRADE)
ORE SLIDE
Project 1B
Glory Hole
50' Inclined Shaft
Project 2
NOTES
1) CONTOUR INTERVAL = 20 FEET.
2) ELEV. BASE A ASSUMED 6000 FEET.
3) BEARING BASE A TO BASE B = S 6° - 00' W MAGNETIC.
SCALE OF FEET
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Fig. 3
Proj. No.
Topographic and Geologic Plan Map showing Sample Locations and Ore Blocks
LONE PINE MINE
BOX ELDER CO., UTAH
ENGINEER: M. H. H. & H. F. B.
DATE: JUNE 11, 1951
TRACED: JUNE, 1951; BY: A.P.T.S.
CHECKED:
700 - 162 - C



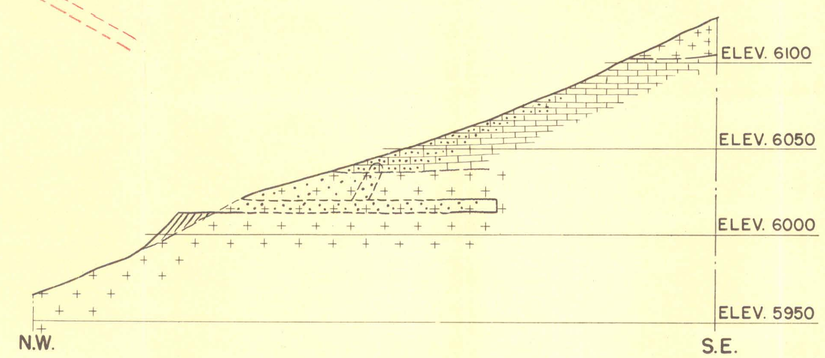
SECTION A-A'
LOOKING NORTH



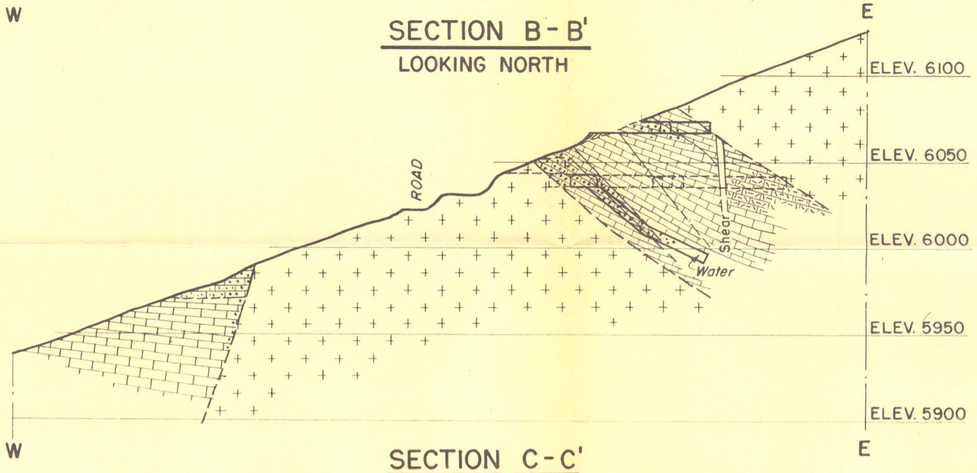
SECTION D-D'
LOOKING N.E.



SECTION B-B'
LOOKING NORTH



SECTION E-E'
LOOKING N.E.



SECTION C-C'
LOOKING NORTH

LEGEND

- MINERALIZATION
- GRANITE
- LIMESTONE
- SILICIFIED LIMESTONE (?)
- UNDERGROUND MINE WORKING
- FAULT OR FISSURE
- CONTACT
- DUMP
- STOPED AREA

0 50 100 150 200
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 5 Proj. No.

Geologic Sections

LONE PINE MINE

BOX ELDER CO., UTAH

ENGINEER: M. H. H. & H. F. B.	DATE: JUNE 12, 1951
TRACED: JUNE, 1951, BY: A.P.T.S.	700 - 163 - C
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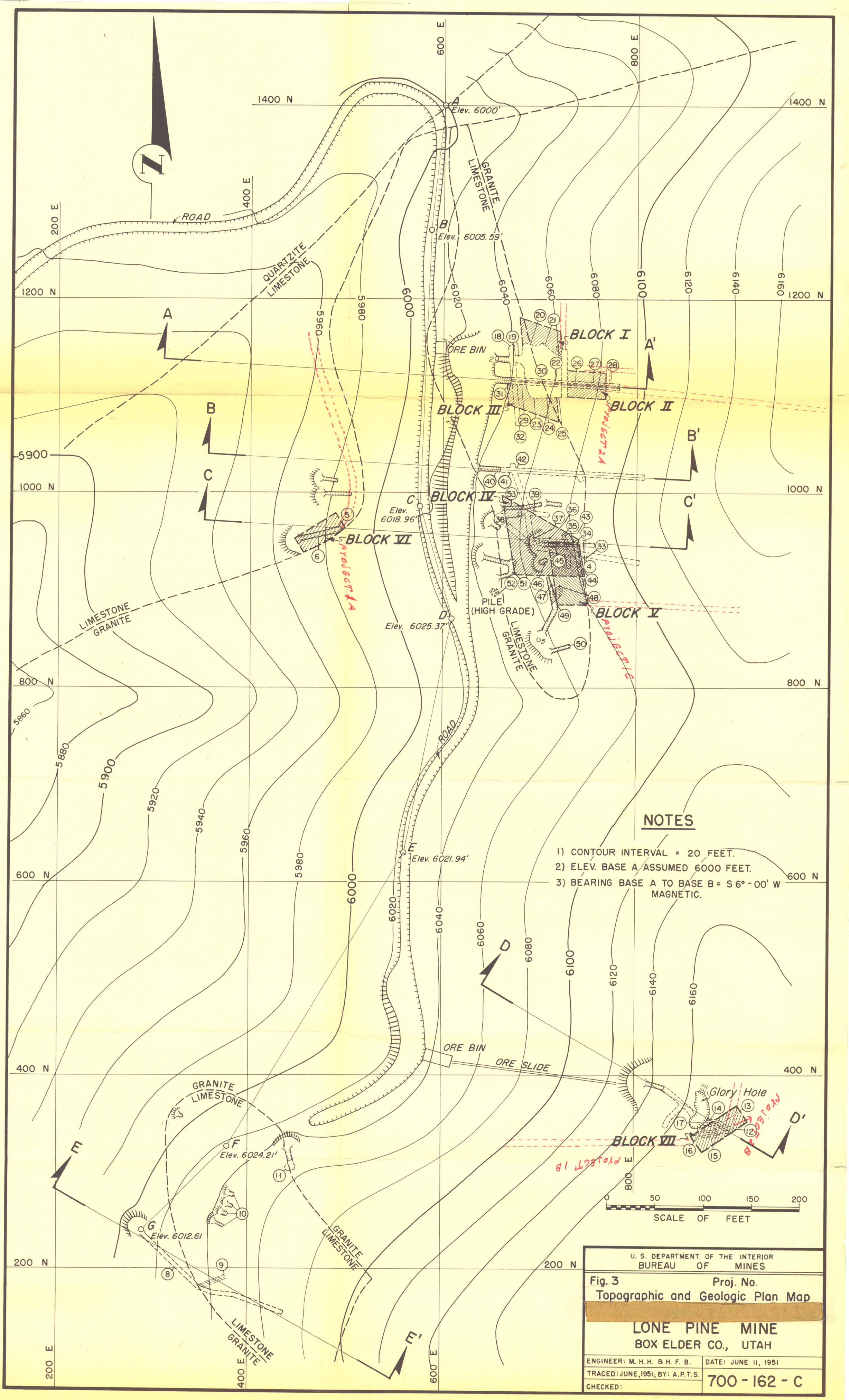

NOTES

1) CONTOUR INTERVAL = 20 FEET.
2) ELEV. BASE A ASSUMED 6000 FEET.
3) BEARING BASE A TO BASE B = S 6° - 00' W MAGNETIC.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 Proj. No.
Topographic and Geologic Plan Map

LONE PINE MINE
BOX ELDER CO., UTAH

ENGINEER: M. H. H. & H. F. B.	DATE: JUNE 11, 1951
TRACED: JUNE, 1951; BY: A.P.T.S.	700 - 162 - C
CHECKED:	