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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 2930

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To:	Code 400, Room 3538	Date	3/18/53
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400

2930

Mr. Henry E. Ruckteschler
P. O. Box 671
Winnemucca, Nevada

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler & Carl E. Thomsen
Vernon Claims
Pershing County, Nevada

Dear Mr. Ruckteschler:

Your application for aid for an exploration project and other data available to us in Washington concerning the above referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of tungsten mineralization on your Vernon claims, indicates to us the scheelite is so erratically distributed that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
6-5-53
cc: Docket
Code 400
FT. REG. III
Adm. Reading File
R. W. Geehan, USBM
D. M. Lemmon, USGS
Operating Committee

400

JUN 8 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $10,146.08
Docket No. DMEA 2930 - Tungsten
Henry E. Rucktaschler & Carl E. Thomson
Vernon claims
Pershing County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant proposed to explore a short segment of a narrow quartz vein containing scheelite by the following program:
   a Crosscut 25 feet to the vein
   b Drift 50 feet north and 50 feet south along the vein from the end of the crosscut
   c Bulldoze two trenches to further explore the vein's extensions

   Past production is said to have been 5[illegible] tons containing 1.4 percent WO_3.

2. The quartz vein containing the scheelite, probably averaging in width from 1.5 feet to 2 feet, occupies a narrow fissure in granite. The vein has been traced on the surface for approximately 1,500 feet. Tungsten mineralization in the vein is apparently localized in small pods and lenses, some of which contain 1 percent or more of WO_3. The production of tungsten from these small, erratically-distributed lenses would not be economical even though hand sorting might produce a product containing 1.4 percent WO_3.

3. A field examination by Glenn G. Montry, Bureau of Mines, indicates the property has little merit.

4. The Field Team recommends denial.

5. The Geological Survey and Bureau of Mines concur with this denial.

FARutledge:foc
6-3-53
cc: Docket
Code 400
Adm. Reading File
Oper. Comm.

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 26 1953

Office of
DMEA Field Team
Region III

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

Reviewed by
DMEA OPERATING COMMITTEE
6-1-53
(date)

May 22, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2930 (Tungsten)
Henry E. Ruckteschler & Carl E. Thomsen
Vernon Claims, Pershing County, Nevada

Reference is made to your letter dated March 30, 1953, requesting a review and field examination of the subject claims.

Attached are four copies of a report entitled "DMEA-2930, Vernon Group of Mining Claims, Pershing County, Nevada, (Tungsten)," by Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, dated May 18, 1953.

According to the examining engineer, the property does not have sufficient scheelite mineralization to warrant an exploration loan. The quartz veins containing the scheelite are narrow and the scheelite mineralization is erratic. To date, 8 tons of tungsten ore have been produced from the Vernon No. 2 claim. The ore averaged about 1.4 percent WO_3, but the grade was high on account of selective mining and careful sorting.

According to the engineer's sampling, the grade of the scheelite-bearing quarts averages about 0.5 percent WO_3 and that the inferred reserve of such material is only 2000 tons. Material that grade might be mineable in a wide ore body of large tonnage, but is hardly economic in narrow quarts veins of small tonnage as that of the Vernon Claims.

The Field Team agrees with the examining engineer that the applicant's request for a DMEA loan be denied.

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

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2930, Vernon Group of Mining Claims,

Pershing County, Nev.

(Tungsten)

Glenn C. Gentry, Mining Engineer
U. S. Bureau of Mines

May 18, 1953

Reviewed by
DMEA OPERATING COMMITTEE

6-1-53
(date)

EXAMINATION REPORT

Docket No.: DMEA-2930 (Tungsten)

Name and address of applicant: Henry E. Ruckteschler, Winnemucca, Nev.
and
Carl P. Thomsen, Winnemucca, Nev.

Name and location of property: Vernon Group of Mining Claims,
Pershing County, Nev.

SUMMARY

The Vernon Group of Tungsten mining claims were examined on April 16, 17, and 18, 1963 by an engineer[1] of the Bureau of Mines, Region III. During the examination, the engineer was accompanied by Mr. Ruckteschler and Mr. Thomsen, owners of the mining property.

A quartz vein, varying somewhat in width, but probably averaging from 1.5 feet to 2.0 feet, occupies a narrow fissure in granite. The quartz vein can be traced on surface from the adit on the Vernon No. 2 claim to a pit on Vernon No. 3 claim, a distance of approximately 1,500 feet.

Scheelite mineralization has been found to occur at various places along the vein and in somewhat small and localized pods, some of which have contained ore of 1% and more of WO_3.

The mine, at this stage of operation, can only be considered as a prospect due to the very small amount of development accomplished by the applicant.

Eight tons of tungsten ore have been produced from an adit 51 feet in length and located on the Vernon No. 2 claim. One half ton of tungsten ore has been produced from a limestone exposure located on the

1/ Glenn G. Gentry.

Vernon claim. The 8.5 tons of ore was hand sorted, using a mineralight to estimate the grade, and shipped via truck to a small mill located at Toy, Nev. The ore is reported to have assayed 1.4% WO_3.

The applicant has constructed a narrow road for a distance of approximately one mile from the floor of the canyon to the mining locations. The road has a very steep gradient and at this time is only passable for a jeep, 4-wheel drive vehicle.

CONCLUSIONS

Due to the very limited amount of development work on the principal quartz vein, the property must be considered as a prospect. An examination by mineralight of the surface exposures, indicates that scheelite does not occur uniformly along the strike of the vein and that scheelite mineralization would be found in the nature of small or moderate sized concentrations within the ore sheets or pipes. The horizontal distance between zones of enrichment is an unknown factor and the depth is also uncertain.

Granite exposures in the gulches adjacent to the mine show quartz stringers from 2 inches to 3 inches in width which appear frozen to the granite walls. This condition might reasonably be expected at a relatively moderate depth in following the downward extension of the main quartz vein.

The top of the mountain is partly covered with a mass of large, broken granite boulders, to the extent that definite tracing of the quartz vein for a distance of about 500 feet is difficult.

RECOMMENDATIONS

The examining engineer considers that further exploration work on this property by the Government is not justified and Government financial assistance is not recommended, for the following reasons:

1. The lack of uniform distribution of scheelite mineral along the surface of the vein exposure indicates the spotty nature of the mineralized occurrences.

2. The narrow width of the quartz vein indicates that only a small tonnage of tungsten ore of commercial grade could be expected.

3. Tungsten ore mined would have to be hand sorted in order to upgrade the product and to obtain a commercial grade of 1.0% WO_3 or more.

4. The probability that ore shoots, within the vein, will be small, of short strike length and the speculative nature of lateral distance between ore shoots.

5. The grade of the ore, represented by the samples taken, indicate the cost of exploration is not justified.

NAME AND LOCATION OF PROPERTY

The group of mining claims listed as the Vernon, Vernon No. 2, Vernon No. 3, Vernon No. 4 and Vernon No. 5, are located in sec. 3, T. 29 N., R. 28 E., Pershing County, Nev., along the east slope of the Seven Troughs range in the Seven Troughs Mining District and approximately 3 miles south of the old town of Vernon, Nev.[2/]

The mine camp is reached from Lovelock, Nevada by automobile, by

2/ U.S. Geological map of the Lovelock Quadrangle, Edition of 1935.

traveling a distance of 28 miles. Leaving Lovelock, the first two miles of this road is an all weather highway and the remaining 26 miles is via an unimproved desert road having a moderate gradient. The unimproved section of the road could be expected to be difficult for automobile travel during rainstorms and at times impassable during the winter months due to normal snow conditions.

COMPETENCY OF APPLICANTS

Mr. Henry Rucktesehler has been supplying all necessary funds for the past exploration and prospecting on the claims. He is a prominent business man of Winnemucca, Nev., having diversified interests in that town and presently engaged in operating a Shell Oil Co. service station. While he has only a very limited knowledge of mining operations, he is considered to be financially responsible.

Mr. Carl Thomsen has been doing all the exploration, road work, and mechanical repairs and apparently has had considerable experience in prospecting and mining in Nevada. From the character of the work accomplished, working alone, he has been energetic and resourceful.

APPLICANTS PROPERTY RIGHTS

The applicants, consisting of a partnership between Henry F. Rucktesehler and Carl E. Thomsen, have filed on the following mining claims and hold same by the Right of Location: Vernon, Vernon No. 1, Vernon No. 2, Vernon No. 3, Vernon No. 4, and Vernon No. 5. The mining claims, with the exception of Vernon No. 1, are recorded in Book No. 14, pages 76, 95 and 172, in the office of the County Clerk and Recorder of Pershing County, Nev., at Lovelock, Nev., which is

the County Seat of Gersbing County. The Vernon No. 1 mining claim has not been recorded, and all of the claims are unsurveyed.

The applicants report that the titles to the above mining claims are clear and that there are no mortgages, liens or other financial debts against the property.

DESCRIPTION OF PROPERTY

Housing facilities at the mine camp consists only of one house trailer occupied by Mr. Thomsen and of insufficient size to accommodate another man.

The applicants propose to employ only one extra man and expect to find living quarters for him in one of the buildings at the old town of Vernon, situated approximately three miles north of the mine camp.

The underground workings consist of an adit 31 feet in length on the Vernon No. 2 claim. Several shallow trenches have been excavated on the vein above the adit and two small pits have been excavated on the vein on the Vernon No. 3 claim.

Operating equipment, owned by the applicants and presently located on the property, consist of:

1 Air compressor, Gordon Smith head, Serial No. 4065, operated by a Ford, Model A gasoline engine.
1 C.P. Co. jackhammer, No. 22, Serial No. 866.
100 feet of air hose
1 D4 caterpillar tractor with dozer blade.

The equipment was reported to be in good condition but was not in operation during the examination.

SAMPLING

The following samples were taken during the examination:

Sample No.	Width	%, WO_3	Oz./T Au	Oz./T Ag	Location
BM-504	2 inches	0.01	Trace	0.10	Narrow quartz seam near bottom of lower pit (4'x6') on Vernon No. 3 claim. Vein strikes S75°W and dips 58°SE.
BM-505	chip & grab	2.09	"	Trace	From about 1/2 ton of broken and partially sorted ore from above upper pit on Vernon No. 3 claim.
BM-506	2 feet	0.77	"	"	Quartz vein on footwall side of upper pit. Quartz from No. 505 came from this pit.
BM-507	16 inches	1.04	"	0.10	Quartz vein in northeast end of upper pit and 10 feet northeast of BM-506.
BM-511	1.2 feet	0.45	0.01	0.10	Back of adit on Vernon No. 2 claim. Quartz vein, 28 feet. from portal.
BM-512	1.1 feet	0.19	Trace	Trace	Quartz vein in face of adit on Vernon No. 2 claim, 31 feet from portal.
BM-513	chip & grab	0.01	"	"	From about 2 tons of partly sorted ore on dump at portal of adit on Vernon No. 2 claim.
BM-514	1.0 feet	0.45	"	0.10	Quartz vein on hanging wall side of adit on Vernon No. 2 claim, 20 feet from portal.
BM-515	4.7 feet	0.02	"	Trace	Quartz vein in face of small open cut 20 feet above main adit on Vernon No. 2 claim. Trench is on the surface exposure of vein.
BM-516	3.0 feet	0.95	"	0.10	Surface exposure of quartz vein, 33 feet south of BM-515. Hard glassy quartz; WO_3 crystals noted.
BM-517	2.5 feet	1.77	"	Trace	Surface exposure of quartz vein 24 feet south of BM-516. About 50 feet above main adit. Vein strikes S65°W and dips 45°E.
BM-518	chip	2.58	"	"	From about 200 lbs. of quartz material from surface exposure of vein. 250 feet south of main adit on Vernon No. 2 claim. 150 feet above adit.

Sample No.	Width	% WO_3	Oz./T Au	Oz./T Ag	Location
BM-519	1.2 feet	0.09	Trace	Trace	Surface exposure of quartz vein on Vernon No. 2 claim, at site of location monument. Vein strikes S40°W; dips 60°E. Vein splits here.
BM-520	1.2 feet	0.01+	"	"	East face of lower pit on Vernon No. 3 claim; 3 feet above BM-504; quartz vein.
BM-521	0.7 feet	0.17	"	"	West face of lower pit on Vernon No. 3 claim; quartz vein; 4 feet above bottom of pit.
BM-522	0.9 feet	1.30	"	"	West end of upper trench, Vernon No. 3 claim near location monument.
BM-523	chip	0.06	"	"	Surface exposure of granite, S58° 40 feet from lower pit on Vernon No. 3 claim.
BM-524	chip	0.55	"	"	From 1 ton of limestone, broken, on the Vernon claim.

The average grade of the 17 samples taken was 0.7341% WO_3. However, eliminating samples BM-508 and BM-518, which were from small piles of partially sorted ore, the average grade of the 15 samples would be 0.52% WO_3.

GEOLOGY AND ORE RESERVES

The scheelite mineral occurs in a narrow quartz vein which occupies a fissure between granite walls. The vein has a general northeast to southwest strike and dips from 45° to 60° to the east. The quartz is iron stained, principally glassy and brittle, with the scheelite mineral noted along the fracture planes of the quartz.

Ore Reserves: Measured: About 3.5 tons of broken rock on dumps
Indicated: About 650 tons
Inferred: About 2,000 tons

PAST OPERATIONS

During the past year, Mr. Carl L. Thomsen, working alone, has completed approximately one mile of jeep road up the side of the mountain, transported a small portable air compressor and mining tools to the mine and has driven an adit 31 feet in length on the Vernon No. 2 claim. A small trench has also been excavated along the vein and about 20 feet above the adit.

On the Vernon No. 3 claim, two small pits have been excavated. The slope distance between the pits is 130 feet. The lower pit is from 4 feet to 8 feet in width by 6 feet in depth by 6 feet in length. The quartz vein exposed in this pit strikes S. 75° W. and dips 58° SE., and narrows from 6 inches wide at the top to 2 inches wide at the bottom.

The upper pit on the Vernon No. 3 claim is 17 feet in length by 3 feet in depth and averages 4 feet in width. On the Vernon claim the applicant has excavated a shallow trench by means of a bulldozer.

PAST PRODUCTION

From the 31 feet adit on Vernon No. 2 claim . . .	6.5 tons	(sorted ore)
From trench on the Vernon claims	2.0 "	(" ")
	8.5 "	@ 1.4% WO_3

AVAILABILITY OF MANPOWER, ETC.

Miners and laborers can usually be recruited in Lovelock, Nev., a small town on the Southern Pacific Railroad and the nearest source for mining supplies and materials. The supply of adequate mine labor is however, very scarce at this time and may become more difficult to obtain during the summer months when the ranches take up the slack of

unemployment. Other sources for labor, materials, supplies and equipment would be Reno, and Winnemucca, Nev.

The present wage scale is approximately $15.40 per day for miners and $14.00 per day for helpers. It may be necessary to increase these amounts due to the isolation of the mine and primitive living conditions.

Water:

There is no water supply at the mine workings. A small spring adjacent to the camp would probably supply sufficient water for drilling, but would have to be hauled to the adit by the jeep. The only other source of water is near the old town of Vernon and approximately three miles north of the mine camp.

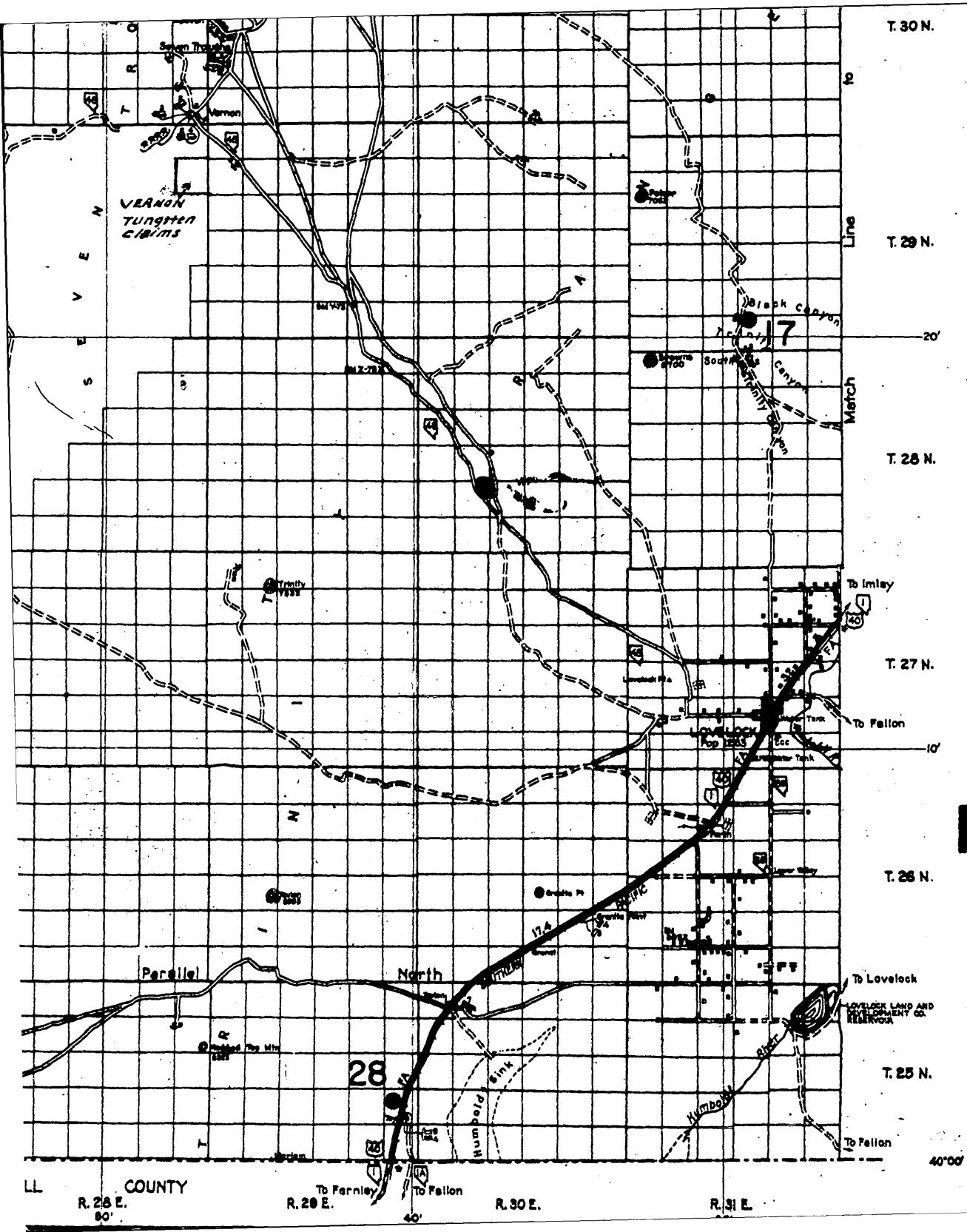
Power:

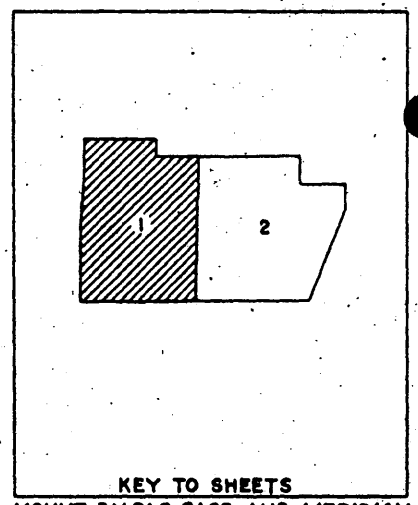
There is no transmitted electric power in the area and therefore all exploration equipment would probably be operated by means of Diesel or gasoline engines.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1973 MAY 10 AM 9:25

SAN FRANCISCO, CALIFORNIA





GENERAL HIGHWAY MAP
PERSHING COUNTY
NEVADA

PREPARED BY

STATE OF NEVADA
DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH THE
U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF PUBLIC ROADS

DATA OBTAINED FROM

STATE-WIDE HIGHWAY PLANNING SURVEY

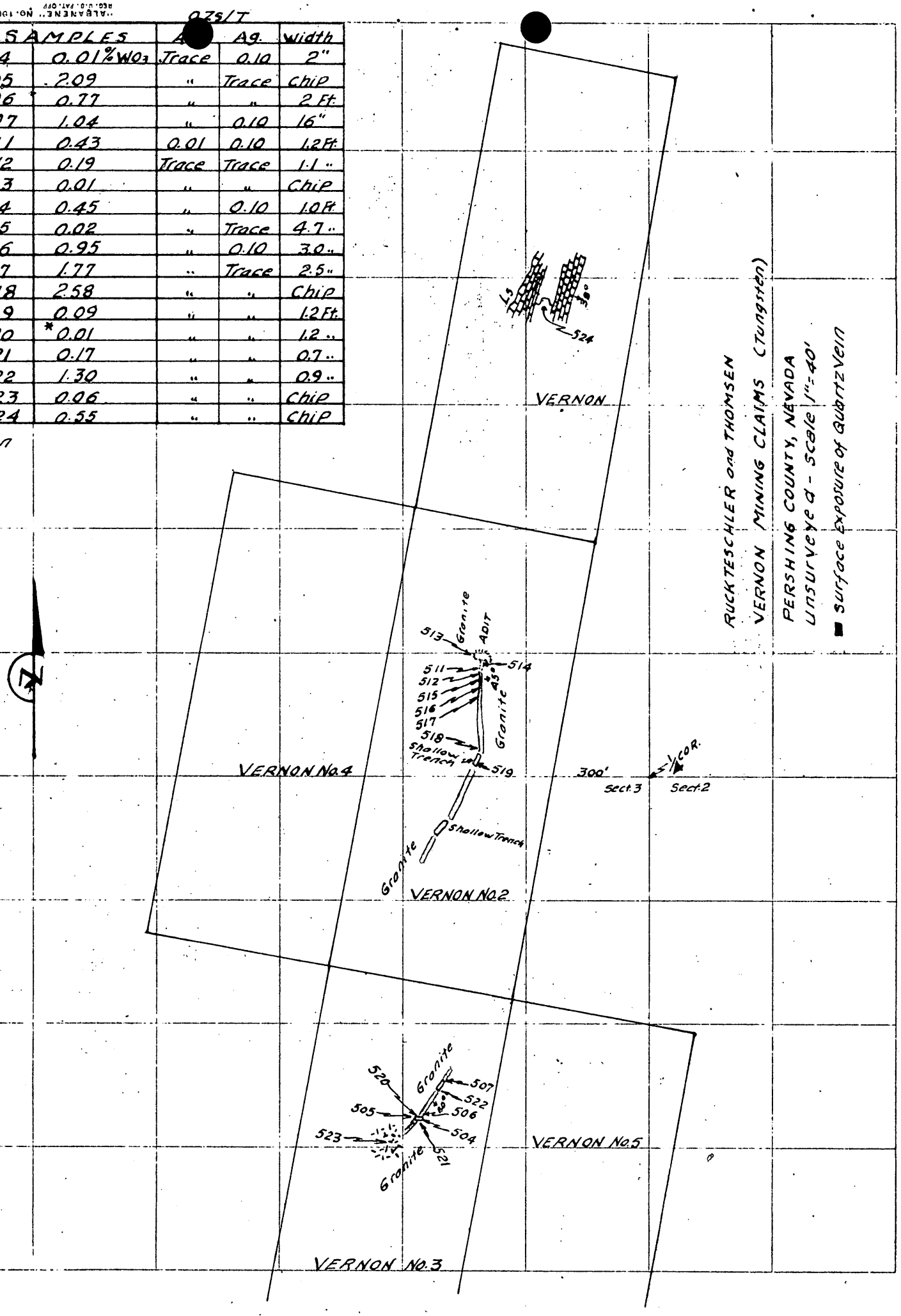
1 0 1 2 3 4 5 6 7 8 9 MILES

1937

Airways and road types on the Improved State Highway System shown as of Dec. 31, 1938

SAMPLES		Au	Ag.	width
BM 504	0.01% WO_3	Trace	0.10	2"
" 505	2.09	"	Trace	Chip
" 506	0.77	"	"	2 Ft.
" 507	1.04	"	0.10	16"
" 511	0.43	0.01	0.10	1.2 Ft.
" 512	0.19	Trace	Trace	1.1 "
" 513	0.01	"	"	Chip
" 514	0.45	"	0.10	1.0 Ft.
" 515	0.02	"	Trace	4.7 "
" 516	0.95	"	0.10	3.0 "
" 517	1.77	"	Trace	2.5 "
" 518	2.58	"	"	Chip
" 519	0.09	"	"	1.2 Ft.
" 520	* 0.01	"	"	1.2 "
" 521	0.17	"	"	0.7 "
" 522	1.30	"	"	0.9 "
" 523	0.06	"	"	Chip
" 524	0.55	"	"	Chip

* Less Than



400

Air Mail

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

MAR 31 1953

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Rucktaschler & Carl E. Thomsen
Vernon Claims
Pershing County, Nevada

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance which is being referred to your office for review and possibly a field examination.

Neither the property nor the tungsten occurrence is adequately described in the application. In reviewing the subject application, the following points were noted which should be discussed with the applicant if a project is recommended:

1. The use of the operator's equipment to be on a depreciation basis at monthly rate equal to 1/60 of present value.

2. If the applicant is not capable of submitting final operator's report, funds must be allotted for consultant.

A memorandum by D. M. Lemmon, U. S. Geological Survey, has been prepared and is enclosed for your information.

Sincerely yours,

George H. Selfridge

Chairman, Operating Committee

Enclosures
Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

cc: Docket
Code 400
Field Team, Region 3
Operating Committee
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
3/25/53

400

400

Mr. Henry E. Bucktesehler
P. O. Box 671
Winnemucca, Nevada

MAR 30 1953

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Bucktesehler and Carl E. Thomsen
Vermon Claims
Pershing County, Nevada

Dear Mr. Bucktesehler:

Your application for assistance in exploring tungsten occurrences on the Vermon claims, Pershing County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and possibly a field examination.

Should a field examination be required, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

O. C. Mittenden

Administrator

CC: Docket
Field Team, Region 3
Code 400
Admn. Read. File
R. W. Gaehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
3/25/53

IN REPLY REFER TO:
G-MD-CF

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

407

March 23, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application DMEA-2930
Henry E. Rickteschler and Tungsten
Carl E. Thomsen
Vernon claims
Seven Troughs district
Sec. 3, T. 29 N., R. 28 E., MDM
Pershing County, Nevada

The property is not well described in the application, but may be the same as the Scheelite Claim examined in 1943 by the Geological Survey. The Scheelite Claim, in the same section, township and range, was staked in 1943 by Carl E. Thomsen and E. W. Dingee. A few scattered crystals of scheelite were observed in a thin pegmatite dike in diorite.

This prospect probably merits no exploration. However, in the light of the applicants' statement that 8½ tons of ore assaying 1.4 percent WO_3 have been produced, I suggest that the application be referred to the Field Team for recommendation and possible field examination.

D. M. Lemmon

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
RECEIVED
MAR 17 1953

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 2930
Metal or Mineral
Date Received 3-17-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, [illegible] you will wish to contract, and your mailing address: Henry [illegible] and Carl [illegible] Thomson
P.O.Box 671, Winnemucca, Nevada

(*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 include any interest in land which is not to be included in the exploration project, contract. The Mining Claims Vernon No 1, Vernon No. 2, Vernon No. 3, Vernon No. 4 and Vernon No 5
located in the Seven Troughs Mining District, Pershing County, Nevada
Located in Sect. 3, T29, N.R.28E., M.D.B.M.
Vernon Mine

(*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 Owners of the Mining Claims

(*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 no liens or encumbrances

(*f*) If the land consists of [illegible] claims, [illegible] the description above, the book and page numbers for each recorded location notice. Book 14, pages 76, 85, 88, 172, Lovelock, Pershing County, Nevada
Vernon, Claim No. 1 not recorded

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 proje*[redacted]—(*a*) State the mineral or minerals for whic[redacted]u wish to explore Tungsten

(*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 10 days and be completed within 3 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?

[X] Money [X] 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 March 10, 1953

A E Rinkteschler Co-Partner
(Applicant)

By

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

Item 4:
Physical description: Exploring the surface of the vein exposure by hand work and with compressed air and jackhammer. Existing exploration has consisted of some trenching and a tunnel for a length of about tenfeet.

(b) Past production: 8½ tons of crude ore.
Current production very limited. Working on road to other mine workings.

(c) Vein type deposit, foot and hanging walls are granite. Limestone exposed about 600 feet west of the vein.
The 8½ tons of ore produced assayed 1.4 per cent WO3.
No geologic or Engineering reports have been made.

(d) The mining claims are situated approximately 28 miles North West of Lovelock, Nevada, which is the nearest shipping and supply center. The roads are unimproved desert roads, though accessible.

(e) Manpower, materials and supplies are usually available in Lovelock and Winnemucca, Nevada. Mining equipment can usually be purchased either in these towns or at Reno, Nevada.
Water: A small amount of water is available at the Claims.
Power: There is no transmitted electric power available in the area. Equipment would be operated by either Diesel or Gasoline engines.

Item 5:
On the Vernon No.3 claim it is proposed to Cross cut for a distanceof 25 feet to contact the vein at a depth of about 50 feet and to drift North East and South West along the vein for a total distance of 100 feet.

Total Cross Cut	25	feet
North East drift	50	"
South West "	50	"
	125	"

On the Vernon No.1 claim it is proposed to explore by means of two Bulldozer trenches. Each trench to be not more than 50 ft. in length.

(d) Mr. Henry E. Huckteschher, has been a prominent and successful Business man in Winnemucca, Nevada for the past thirty years.

Mr. Carl E. Thomsen has been mining and prospecting in thestate of Nevada for the past twenty years.

Item 6:
Estimate of costs:

25 ft.of Cross cutting @	$45.00 per ft.	$1125.00
100 ft. of drifting @	45.00 "	4500.00
2 bulldozer trenches,32 hrs.work @	$14.00 per hr.	448.00
		6073.00

Government participation @ 75% ----- $4554.75

(a) Independent contracts: None

(b) Labor: 2 Miners @ $15.40 per day,each
1 " helper @ $14.00 per day

Superintendent: None
Mining consultants: None

(c) Operating materials and supplies.

27 Bxs.of 40% dynamite @	$12.00	$324.00
4000 ft.of fuse @	14.00	56.00
13 Bxs.Blasting caps @	2.41	31.20
10 detachable bits @	12.50	125.00
150 ft.of 2" air line @	0.78	117.00
150 " 1" water line @	0.31	46.50
Misc.drill steel		50.00
720 gals.gasoline @	0.27	194.40
Compressor and lubricating oils		25.00
2 inch and 1 inch pipe fillings		25.00
		994.10

(d) Operating equipment
Owned by the applicant:
1-Model A compressor with Gordon Smith head,Serial No.4065 ---------- Cost $500.00
1-CP Co,Jackhammer,No.22,Serial No.866
100 ft.of air hose

1-D4 cat,dozer ---------- $1,000.00

Rental of compressor,Jackhammer,hose and drill steel @ $25.00 per month-3 months ---------- $75.00

(e) Rehabilitation and repairs: None

(f) New buildings,improvements,installations: None

(g) Misc.
Equipment maintenance and repair cost ---------- $100.00
Assaying ---------- 50.00
Workmens compensation insurance: add 15.4%

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1953 MAR 12 AM 9:05

SAN FRANCISCO, CALIFORNIA

FILE COPY
SURNAME:

400

Rutledge
Hopkins
Geehan
Lemmon
Hedges
Gillenwater
Jeffrey

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

JUN 8 1953

BL

Mr. Henry E. Ruckteschler
P. O. Box 671
Winnemucca, Nevada

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler & Carl E. Thomsen
Vernon Claims
Pershing County, Nevada

Dear Mr. Ruckteschler:

Your application for aid for an exploration project and other data available to us in Washington concerning the above referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of tungsten mineralization on your Vernon claims, indicates to us the scheelite is so erratically distributed that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
6-5-53
cc: Docket
Code 400
FT. REG. III
Adm. Reading File
R. W. Geehan, USBM
D. M. Lemmon, USGS
Operating Committee

FILE COPY
SURNAME:

400

Lemmon
Rutledge

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

JUN 8 1953

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P. O. Box 671
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E. Thomsen
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O. O. Wisenbaker

Administrator

FARutledge:foc
6-3-53
cc: Docket
Code 400
FT. Reg. III
Adm. Reading File
R. W. Geehan, USBM
D. M. Lemmon, USGS
Operations

FILE COPY
SURNAME:

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Lemmon
Rutledge
Gutkan
Hopkins

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

MEMORANDUM

JUN 8 1953

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $10,146.08
Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler & Carl E. Thomsen
Vernon claims
Pershing County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant proposed to explore a short segment of a narrow quartz vein containing scheelite by the following program:
   a Crosscut 25 feet to the vein
   b Drift 50 feet north and 50 feet south along the vein from the end of the crosscut
   c Bulldoze two trenches to further explore the vein's extensions

   Past production is said to have been 8½ tons containing 1.4 percent WO_3.

2. The quartz vein containing the scheelite, probably averaging in width from 1.5 feet to 2 feet, occupies a narrow fissure in granite. The vein has been traced on the surface for approximately 1,500 feet. Tungsten mineralization in the vein is apparently localized in small pods and lenses, some of which contain 1 percent or more of WO_3. The production of tungsten from these small, erratically-distributed lenses would not be economical even though hand sorting might produce a product containing 1.4 percent WO_3.

3. A field examination by Glenn G. Gentry, Bureau of Mines, indicates the property has little merit.

4. The Field Team recommends denial.

5. The Geological Survey and Bureau of Mines concur with this denial.

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

FARutledge:foc
6-3-53
cc: Docket
Code 400
Adm. Reading File
Oper. Comm.

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

400

MEMORANDUM

JUN 8 1959

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $10,146.08
Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler & Carl E. Thomsen
Vernon claims
Pershing County, Nevada

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J. A. Rutledge for
W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

Docket

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

Department of the Interior
Defense Minerals Administration
RECEIVED
MAY 26 1953

Office of
DMEA Field Team
Region III

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

May 22, 1953

WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2930 (Tungsten)
Henry E. Ruckteschler & Carl E. Thomsen
Vernon Claims, Pershing County, Nevada

Reviewed by
DMEA OPERATING COMMITTEE
6-1-53
(date)

Reference is made to your letter dated March 30, 1953, requesting a review and field examination of the subject claims.

Attached are four copies of a report entitled "DMEA-2930, Vernon Group of Mining Claims, Pershing County, Nevada, (Tungsten)," by Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, dated May 18, 1953.

According to the examining engineer, the property does not have sufficient scheelite mineralization to warrant an exploration loan. The quartz veins containing the scheelite are narrow and the scheelite mineralization is erratic. To date, 8 tons of tungsten ore have been produced from the Vernon No. 2 claim. The ore averaged about 1.4 percent WO_3, but the grade was high on account of selective mining and careful sorting.

According to the engineer's sampling, the grade of the scheelite-bearing quarts averages about 0.5 percent WO_3 and that the inferred reserve of such material is only 2000 tons. Material that grade might be mineable in a wide ore body of large tonnage, but is hardly economic in narrow quarts veins of small tonnage as that of the Vernon Claims.

The Field Team agrees with the examining engineer that the applicant's request for a DMEA loan be denied.

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

OK
CW
6-1-53

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
RECEIVED
MAY 26 1953

4/5/53

DMEA-2930, Vernon Group of Mining Claims,

Pershing County, Nev.

(Tungsten)

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

May 18, 1953

Reviewed by
DMEA OPERATING COMMITTEE
6-1-53
(date)

EXAMINATION REPORT

Docket No.: DMEA-2930 (Tungsten)

Name and address of applicant: Henry E. Ruckteschler, Winnemucca, Nev.
and
Carl E. Thomsen, Winnemucca, Nev.

Name and location of property: Vernon Group of Mining Claims,
Pershing County, Nev.

SUMMARY

The Vernon Group of Tungsten mining claims were examined on April 16, 17, and 18, 1953 by an engineer[1/] of the Bureau of Mines, Region III. During the examination, the engineer was accompanied by Mr. Ruckteschler and Mr. Thomsen, owners of the mining property.

A quartz vein, varying somewhat in width, but probably averaging from 1.5 feet to 2.0 feet, occupies a narrow fissure in granite. The quartz vein can be traced on surface from the adit on the Vernon No. 2 claim to a pit on Vernon No. 3 claim, a distance of approximately 1,500 feet.

Scheelite mineralization has been found to occur at various places along the vein and in somewhat small and localized pods, some of which have contained ore of 1% and more of WO_3.

The mine, at this stage of operation, can only be considered as a prospect due to the very small amount of development accomplished by the applicant.

Eight tons of tungsten ore have been produced from an adit 31 feet in length and located on the Vernon No. 2 claim. One half ton of tungsten ore has been produced from a limestone exposure located on the

1/ Glenn G. Gentry.

Vernon claim. The 8.5 tons of ore was hand sorted, using a mineralight to estimate the grade, and shipped via truck to a small mill located at Toy, Nev. The ore is reported to have assayed 1.4% WO_3.

The applicant has constructed a narrow road for a distance of approximately one mile from the floor of the canyon to the mining locations. The road has a very steep gradient and at this time is only passable for a jeep, 4-wheel drive vehicle.

CONCLUSIONS

Due to the very limited amount of development work on the principal quartz vein, the property must be considered as a prospect. An examination by mineralight of the surface exposures, indicates that scheelite does not occur uniformly along the strike of the vein and that scheelite mineralization would be found in the nature of small or moderate sized concentrations within the ore shoots or pipes. The horizontal distance between zones of enrichment is an unknown factor and the depth is also uncertain.

Granite exposures in the gulches adjacent to the mine show quartz stringers from 2 inches to 3 inches in width which appear frozen to the granite walls. This condition might reasonably be expected at a relatively moderate depth in following the downward extension of the main quartz vein.

The top of the mountain is partly covered with a mass of large, broken granite boulders, to the extent that definite tracing of the quartz vein for a distance of about 500 feet is difficult.

RECOMMENDATIONS

The examining engineer considers that further exploration work on this property by the Government is not justified and Government financial assistance is not recommended, for the following reasons:

1. The lack of uniform distribution of scheelite mineral along the surface of the vein exposure indicates the spotty nature of the mineralized occurrences.

2. The narrow width of the quartz vein indicates that only a small tonnage of tungsten ore of commercial grade could be expected.

3. Tungsten ore mined would have to be hand sorted in order to upgrade the product and to obtain a commercial grade of 1.0% WO_3 or more.

4. The probability that ore shoots, within the vein, will be small, of short strike length and the speculative nature of lateral distance between ore shoots.

5. The grade of the ore, represented by the samples taken, indicate the cost of exploration is not justified.

NAME AND LOCATION OF PROPERTY

The group of mining claims listed as the Vernon, Vernon No. 2, Vernon No. 3, Vernon No. 4 and Vernon No. 5, are located in sec. 3, T. 29 N., R. 28 E., Pershing County, Nev., along the east slope of the Seven Troughs range in the Seven Troughs Mining District and approximately 3 miles south of the old town of Vernon, Nev.[2/]

The mine camp is reached from Lovelock, Nevada by automobile, by

2/ U.S. Geological map of the Lovelock Quadrangle, Edition of 1935.

traveling a distance of 28 miles. Leaving Lovelock, the first two miles of this road is an all weather highway and the remaining 26 miles is via an unimproved desert road having a moderate gradient. The unimproved section of the road could be expected to be difficult for automobile travel during rainstorms and at times impassable during the winter months due to normal snow conditions.

COMPETENCY OF APPLICANTS

Mr. Henry Ruckteschler has been supplying all necessary funds for the past exploration and prospecting on the claims. He is a prominent business man of Winnemucca, Nev., having diversified interests in that town and presently engaged in operating a Shell Oil Co. service station. While he has only a very limited knowledge of mining operations, he is considered to be financially responsible.

Mr. Carl Thomsen has been doing all the exploration, road work, and mechanical repairs and apparently has had considerable experience in prospecting and mining in Nevada. From the character of the work accomplished, working alone, he has been energetic and resourceful.

APPLICANTS PROPERTY RIGHTS

The applicants, consisting of a partnership between Henry E. Ruckteschler and Carl E. Thomsen, have filed on the following mining claims and hold same by the Right of Location: Vernon, Vernon No. 1, Vernon No. 2, Vernon No. 3, Vernon No. 4, and Vernon No. 5. The mining claims, with the exception of Vernon No. 1, are recorded in Book No. 14, pages 76, 95 and 172, in the office of the County Clerk and Recorder of Pershing County, Nev., at Lovelock, Nev., which is

the County Seat of Pershing County. The Vernon No. 1 mining claim has not been recorded, and all of the claims are unsurveyed.

The applicants report that the titles to the above mining claims are clear and that there are no mortgages, liens or other financial debts against the property.

DESCRIPTION OF PROPERTY

Housing facilities at the mine camp consists only of one house trailer occupied by Mr. Thomsen and of insufficient size to accommodate another man.

The applicants propose to employ only one extra man and expect to find living quarters for him in one of the buildings at the old town of Vernon, situated approximately three miles north of the mine camp.

The underground workings consist of an adit 31 feet in length on the Vernon No. 2 claim. Several shallow trenches have been excavated on the vein above the adit and two small pits have been excavated on the vein on the Vernon No. 3 claim.

Operating equipment, owned by the applicants and presently located on the property, consist of:

1 Air compressor, Gordon Smith head, Serial No. 4065, operated by a Ford, Model A gasoline engine.
1 C.P. Co. jackhammer, No. 22, Serial No. 866.
100 feet of air hose
1 D4 caterpillar tractor with dozer blade.

The equipment was reported to be in good condition but was not in operation during the examination.

SAMPLING

The following samples were taken during the examination:

Sample No.	Width	%, WO_3	Oz./T Au	Oz./T Ag	Location
BM-504	2 inches	0.01	Trace	0.10	Narrow quartz seam near bottom of lower pit (4'x6') on Vernon No. 3 claim. Vein strikes S75°W and dips 58°SE.
BM-505	chip & grab	2.09	"	Trace	From about 1/2 ton of broken and partially sorted ore from above upper pit on Vernon No. 3 claim.
BM-506	2 feet	0.77	"	"	Quartz vein on footwall side of upper pit. Quartz from No. 505 came from this pit.
BM-507	16 inches	1.04	"	0.10	Quartz vein in northeast end of upper pit and 10 feet northeast of BM-506.
BM-511	1.2 feet	0.43	0.01	0.10	Back of adit on Vernon No. 2 claim. Quartz vein, 28 feet. from portal.
BM-512	1.1 feet	0.19	Trace	Trace	Quartz vein in face of adit on Vernon No. 2 claim, 31 feet from portal.
BM-513	chip & grab	0.01	"	"	From about 2 tons of partly sorted ore on dump at portal of adit on Vernon No. 2 claim.
BM-514	1.0 feet	0.45	"	0.10	Quartz vein on hanging wall side of adit on Vernon No. 2 claim, 20 feet from portal.
BM-515	4.7 feet	0.02	"	Trace	Quartz vein in face of small open cut 20 feet above main adit on Vernon No. 2 claim. Trench is on the surface exposure of vein.
BM-516	3.0 feet	0.95	"	0.10	Surface exposure of quartz vein, 33 feet south of BM-515. Hard glassy quartz; WO_3 crystals noted.
BM-517	2.5 feet	1.77	"	Trace	Surface exposure of quartz vein 24 feet south of BM-516. About 50 feet above main adit. Vein strikes S65°W and dips 45°E.
BM-518	chip	2.58	"	"	From about 200 lbs. of quartz material from surface exposure of vein. 250 feet south of main adit on Vernon No. 2 claim. 150 feet above adit.

Sample No.	Width	%, WO_3	Oz./T Au	Oz./T Ag	Location
BM-519	1.2 feet	0.09	Trace	Trace	Surface exposure of quartz vein on Vernon No. 2 claim, at site of location monument. Vein strikes S40°W; dips 60°E. Vein splits here.
BM-520	1.2 feet	0.01*	"	"	East face of lower pit on Vernon No. 3 claim; 3 feet above BM-504; quartz vein.
BM-521	0.7 feet	0.17	"	"	West face of lower pit on Vernon No. 3 claim; quartz vein; 4 feet above bottom of pit.
BM-522	0.9 feet	1.30	"	"	West end of upper trench, Vernon No. 3 claim near location monument.
BM-523	chip	0.06	"	"	Surface exposure of granite, S58° 40 feet from lower pit on Vernon No. 3 claim.
BM-524	chip	0.55	"	"	From 1 ton of limestone, broken, on the Vernon claim.

The average grade of the 17 samples taken was 0.7341% WO_3. However, eliminating samples BM-505 and BM-518, which were from small piles of partially sorted ore, the average grade of the 15 samples would be 0.52% WO_3.

GEOLOGY AND ORE RESERVES

The scheelite mineral occurs in a narrow quartz vein which occupies a fissure between granite walls. The vein has a general northeast to southwest strike and dips from 45° to 60° to the east. The quartz is iron stained, principally glassy and brittle, with the scheelite mineral noted along the fracture planes of the quartz.

Ore Reserves: Measured: About 3.5 tons of broken rock on dumps
Indicated: About 650 tons
Inferred: About 2,000 tons

PAST OPERATIONS

During the past year, Mr. Carl E. Thomsen, working alone, has completed approximately one mile of jeep road up the side of the mountain, transported a small portable air compressor and mining tools to the mine and has driven an adit 31 feet in length on the Vernon No. 2 claim. A small trench has also been excavated along the vein and about 20 feet above the adit.

On the Vernon No. 3 claim, two small pits have been excavated. The slope distance between the pits is 130 feet. The lower pit is from 4 feet to 8 feet in width by 6 feet in depth by 6 feet in length. The quartz vein exposed in this pit strikes S. 75° W. and dips 58° SE., and narrows from 6 inches wide at the top to 2 inches wide at the bottom.

The upper pit on the Vernon No. 3 claim is 17 feet in length by 3 feet in depth and averages 4 feet in width. On the Vernon claim the applicant has excavated a shallow trench by means of a bulldozer.

PAST PRODUCTION

From the 31 feet adit on Vernon No. 2 claim . . .	6.5 tons	(sorted ore)
From trench on the Vernon claims	2.0 "	(" ")
	8.5 " @ 1.4% WO_3	

AVAILABILITY OF MANPOWER, ETC.

Miners and laborers can usually be recruited in Lovelock, Nev., a small town on the Southern Pacific Railroad and the nearest source for mining supplies and materials. The supply of adequate mine labor is however, very scarce at this time and may become more difficult to obtain during the summer months when the ranches take up the slack of

unemployment. Other sources for labor, materials, supplies and equipment would be Reno, and Winnemucca, Nev.

The present wage scale is approximately $15.40 per day for miners and $14.00 per day for helpers. It may be necessary to increase these amounts due to the isolation of the mine and primitive living conditions.

Water:

There is no water supply at the mine workings. A small spring adjacent to the camp would probably supply sufficient water for drilling, but would have to be hauled to the adit by the jeep. The only other source of water is near the old town of Vernon and approximately three miles north of the mine camp.

Power:

There is no transmitted electric power in the area and therefore all exploration equipment would probably be operated by means of Diesel or gasoline engines.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
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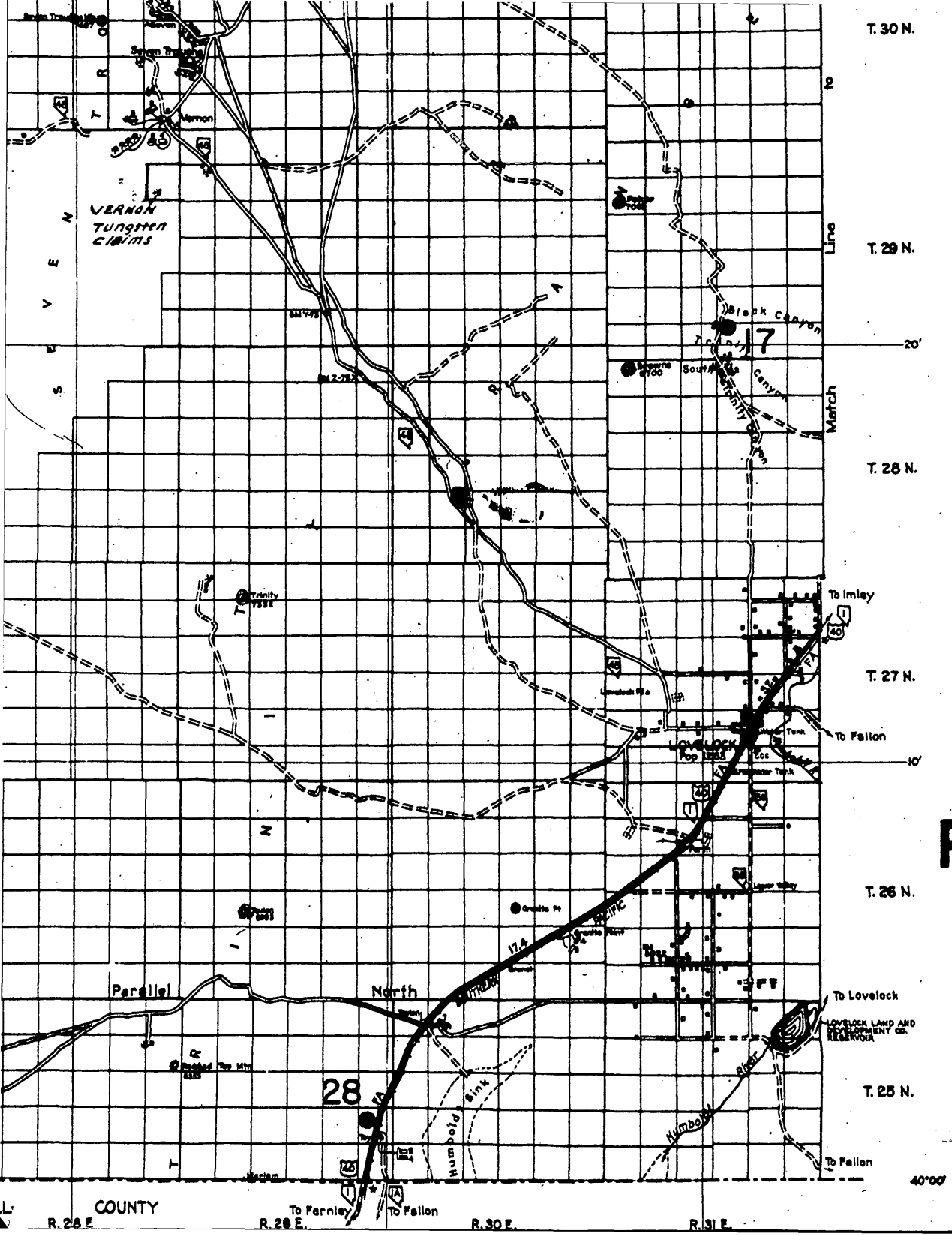
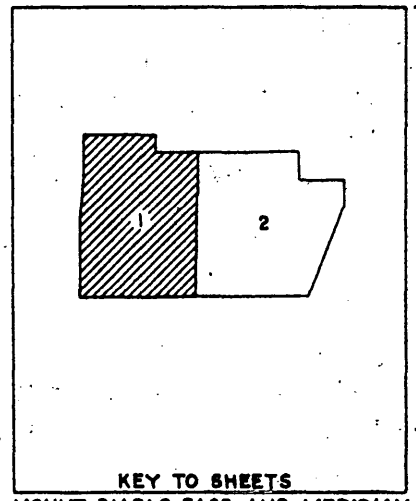
1953 MAY 13 AM 9:25

SAN FRANCISCO, CALIFORNIA





GENERAL HIGHWAY MAP
PERSHING COUNTY
NEVADA

PREPARED BY

STATE OF NEVADA
DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH THE
U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF PUBLIC ROADS
DATA OBTAINED FROM
STATE-WIDE HIGHWAY PLANNING SURVEY

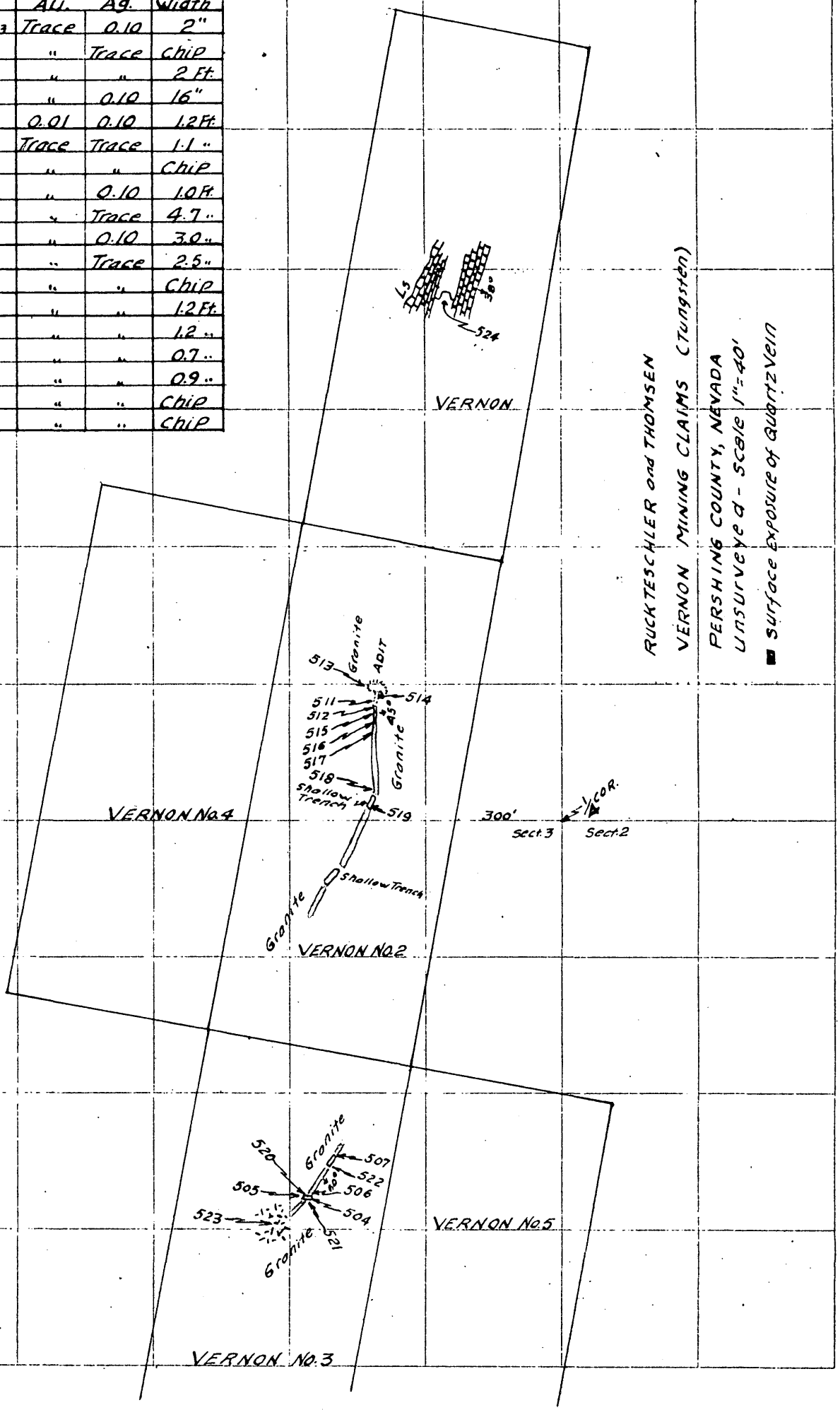
1 0 1 2 3 4 5 6 7 8 9 MILES

1937

Airways and road types on the Improved State Highway System shown as of Dec. 31, 1938

SAMPLES		Au.	Ag.	width
		OZS/T		
BM 504	0.01% WO_3	Trace	0.10	2"
" 505	2.09	"	Trace	Chip
" 506	0.77	"	"	2 Ft.
" 507	1.04	"	0.10	16"
" 511	0.43	0.01	0.10	1.2 Ft.
" 512	0.19	Trace	Trace	1.1 "
" 513	0.01	"	"	Chip
" 514	0.45	"	0.10	1.0 Ft.
" 515	0.02	"	Trace	4.7 "
" 516	0.95	"	0.10	3.0 "
" 517	1.77	"	Trace	2.5 "
" 518	2.58	"	"	Chip
" 519	0.09	"	"	1.2 Ft.
" 520	*0.01	"	"	1.2 "
" 521	0.17	"	"	0.7 "
" 522	1.30	"	"	0.9 "
" 523	0.06	"	"	Chip
" 524	0.55	"	"	Chip

* Less Than



Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?_____

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

400 FILE COPY
SURNAME:

Rutledge
Martin
Geehan
Selfridge
H. Johnson

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

Air Mail

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

MAR 30 1953

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler & Carl E. Thomsen
Vernon Claims
Pershing County, Nevada

Dear Mr. Miller:

J.C. 3/30/53

Reference is made to the subject application for exploration assistance which is being referred to your office for review and possibly a field examination.

Neither the property nor the tungsten occurrence is adequately described in the application. In reviewing the subject application, the following points were noted which should be discussed with the applicant if a project is recommended:

1. The use of the operator's equipment to be on a depreciation basis at monthly rate equal to 1/60 of present value.

2. If the applicant is not capable of submitting final operator's report, funds must be allotted for consultant.

A memorandum by D. M. Lemmon, U. S. Geological Survey, has been prepared and is enclosed for your information.

Sincerely yours,

George C. Selfridge (3/6)
Chairman, Operating Committee

Enclosures
Approved:

J. H. Hedges (3/6)
Member, Bureau of Mines

A. R. Kinkel, Jr. (3/6)
Member, Geological Survey

cc: Docket
Code 400
Field Team, Region 3
Operating Committee
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
3/25/53

400

FILE COPY
SURNAME:

Rutledge
Martin
Fulton
Rinkel
Hedges
Selfridge
Fitzsimmons

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

MAR 30 1953

Mr. Henry E. Ruckteschler
P. O. Box 671
Winnemucca, Nevada

J.C. 3/30/53

Re: Docket No. DMEA 2930 - Tungsten
Henry E. Ruckteschler and Carl E. Thomsen
Vernon Claims
Pershing County, Nevada

Dear Mr. Ruckteschler:

Your application for assistance in exploring tungsten occurrences on the Vernon claims, Pershing County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and possibly a field examination.

Should a field examination be required, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

CC: Docket
Field Team, Region 3
Code 400
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
3/25/53

IN REPLY REFER TO:

G-MD-CF

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

March 23, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application
Henry E. Rickteschler and
Carl E. Thomsen
Vernon claims
Seven Troughs district
Sec. 3, T. 29 N., R. 28 E., MDM
Pershing County, Nevada

DMEA-2930
Tungsten

The property is not well described in the application, but may be the same as the scheelite claim examined in 1943 by the Geological Survey. The scheelite claim, in the same section, township and range, was staked in 1943 by Carl E. Thomsen and E. W. Dingee. A few scattered crystals of scheelite were observed in a thin pegmatite dike in diorite.

This prospect probably merits no exploration. However, in the light of the applicants' statement that 8½ tons of ore assaying 1.4 percent WO_3 have been produced, I suggest that the application be referred to the Field Team for recommendation and possible field examination.

D M Lemmon

D. M. Lemmon

March 18, 1953

Mr. Henry E. Ruckteschler
P. O. Box 671
Winnemucca, Nevada

Subject: DMEA-2930
Re: Exploration Assistance
Vernon Mine

My dear Mr. Ruckteschler:

The receipt of your application dated March 10, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2930 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2930 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

March 18, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA - 2930 Henry E. Ruckteschler and Carl E. Thomsen

ROBERT E. ADAMS

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

33980

dmea 2930

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

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

March 13, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan application forms MF-103 - Henry E. Ruckteschler and Carl E. Thomsen, P. O. Box 671, Winnemucca, Nevada

Attached are three sets of MF-103 forms received in this office on March 12 from Mr. H. E. Ruckteschler. The fourth copy is being retained in this office.

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

Attachment

Copy to: E. H. Bailey, USGS

dmea 2930.

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

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

March 13, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan application forms MF-103 - Henry H. Buckteschler and Carl E. Thomsen, P. O. Box 671, Winnemucca, Nevada

Attached are three sets of MF-103 forms received in this office on March 12 from Mr. H. H. Buckteschler. The fourth copy is being retained in this office.

H. C. MILLER

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

Attachment

Copy to: H. H. Bailey, USGS

MF-1 3
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 17 1953

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. dmea 2930
Metal or Mineral
Date Received 3-17-53
Estimated Cost
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: Henry E.Ruckteschler and Carl E.Thomsen
P.O.Box 671, Winnemucca,Nevada

(*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 The Mining Claims are: Vernon,
VernonNo 1,Vernon No,2, Vernon No,3,Vernnon No,4 and Vernon No 5
located in the Seven Troughs Mining District,Pershing County,Nevada
Located in Sect.3,T29,N.R.28E.,M.D.B.M.

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

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

(*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 no liens or encumbrances

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book 14,pages 76,95,96,172,Lovelock,Pershing County ,Nevada
Vernon,Claim No,1 not recorded

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) [illegible]ate the mineral or minerals for which you [illegible] to explore Tungsten

(*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 10 days and be completed within 3 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?

[X] Money [X] 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 March 10, 195 3

H E Ruckstuehler Co-Partner
(Applicant)

By

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

Item 4:

Physical description: Exploring the surface of the vein exposure by hand work and with compressed air and jackhammer. Existing exploration has consisted of some trenching and a tunnel for a length of about tenfeet.

(b) Past production: $8\frac{1}{2}$ tons of crude ore. Current production very limited. Working on road to other mine workings.

(c) Vein type deposit, foot and hanging walls are granite. Limestone exposed about 600 feet west of the vein. The $8\frac{1}{2}$ tons of ore produced assayed 1.4 per cent WO3. No geologic or Engineering reports have been made.

(d) The mining claims are situated approximately 28 miles North West of Lovelock, Nevada, which is the nearest shipping and supply center. The roads are unimproved desert roads, though accessible.

(e) Manpower, materials and supplies are usually available in Lovelock and Winnemucca, Nevada. Mining equipment can usually be purchased either in these towns or at Reno, Nevada.
Water: A small amount of water is available at the Claims.
Power: There is no transmitted electric power available in the area. Equipment would be operated by either Diesel or Gasoline engines.

Item 5:

On the Vernon No.3 claim it is proposed to Cross cut for a distance of 25 feet to contact the vein at a depth of about 50 feet and to drift North East and South West along the vein for a total distence of 100 feet

Total Cross Cut----------	25 feet
North East drift ----------	50 "
South West "	50 "
	125 "

On the Vernon No.1 claim it is proposed to explore by means of two Bulldozer trenches. Each trench to be not more than 50 ft. in length.

(d) Mr. Henry E. Ruckteschler, has been a prominent and successful Business man in Winnemucca, Nevada for the past thirty years.

Mr. Carl E. Thomsen has been mining and prospecting in the state of Nevada for the past twenty years.

Item 6:
Estimate of costs:

25 ft.of Cross cutting @ $45.00 per ft.---------	$1125.00
100 ft. of drifting @ 45.00 "	4500.00
2 bulldozer trenches,32 hrs.work @ $14.00 per hr.	448.00
	6073.00

Government participation @ 75% ----- $4554.75

(a) Independent contracts: None

(b) Labor: 2 Miners @ $15.40 per day,each
1 " helper @ $14.00 per day

Superintendent: None
Mining consultants: None

(c) Operating materials and supplies.

27 Bxs.of 40% dynamite @ $12.00 ----------	$324.00
4000 ft.of fuse @14.00 ----------	56.00
13 Bxs.Blasting caps @ 2.4L ----------	31.20
10 detachable bits @ 12.50 ----------	125.00
150 ft.of 2" air line @ 0.78 ----------	117.00
150 " 1" water line @ 0.31 ----------	46.50
Misc.drill steel ----------	50.00
720 gals.gasoline @ 0.27 ----------	194.40
Compressor and Lubricating oils ----------	25.00
2 inch and 1 inch pipe fillings ----------	25.00
	994.10

(d) Operating equipment
Owned by the applicant:
1-Model A compressor with Gorden Smith head,Serial No.4065 ---------- Cost $500.00
1-CP Co,Jackhammer,No.22,Serial No.866
100 ft.of air hose

1-D4 cat,dozer ----------$1,000.00

Rental of compressor,Jackhammer,hose and drill steel @$25.00 per month-3 months ----------$75.00

(e) Rehabilitation and repairs: None

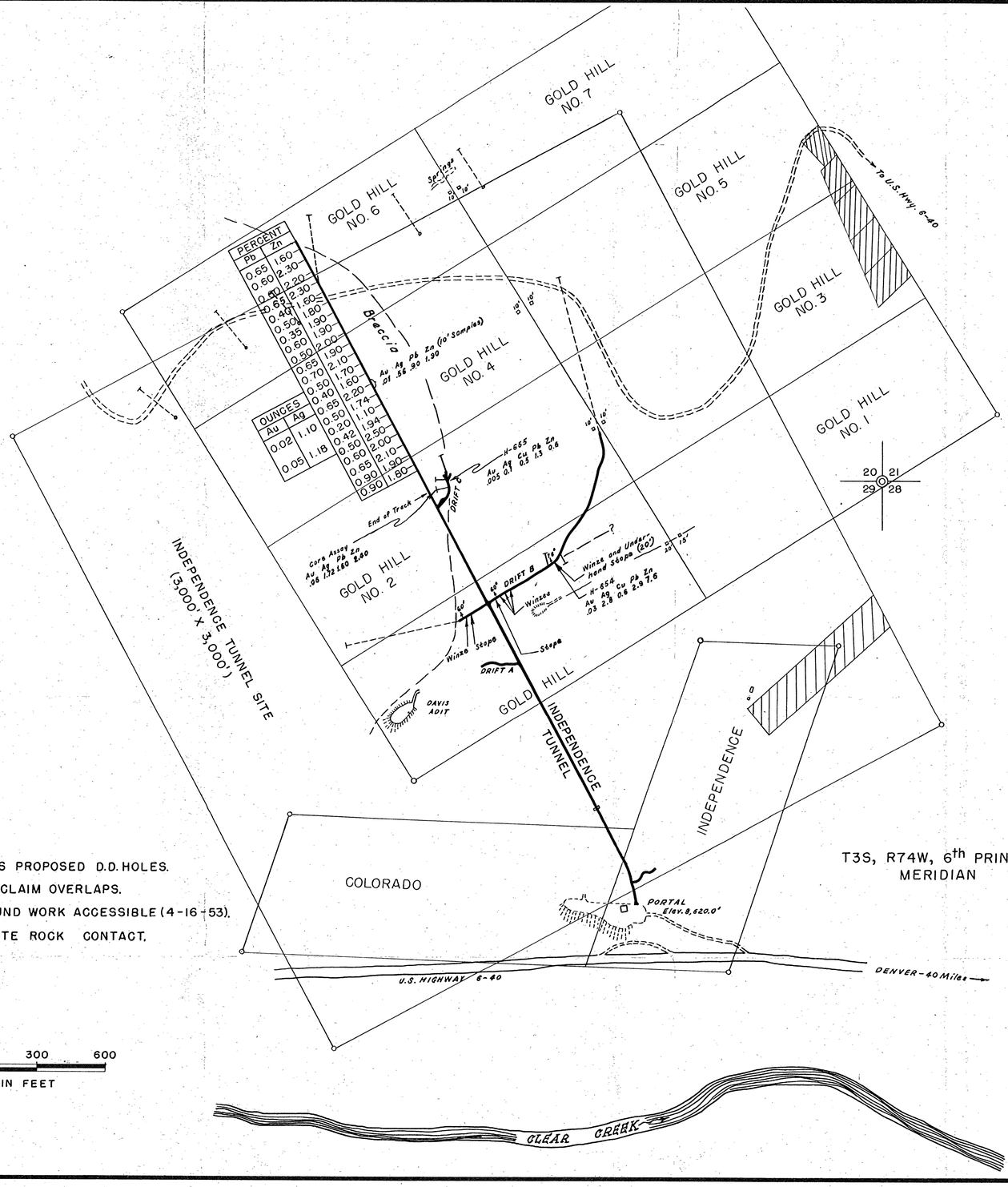
(f) New buildings,improvements,installations: None

(g) Misc.
Equipment maintenance and repair cost ---------$100.00
Assaying ---------- 50.00
Workmens compensation insurance: add 15.4%

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1972 MAR 12 AM 9:05

SAN FRANCISCO, CALIFORNIA



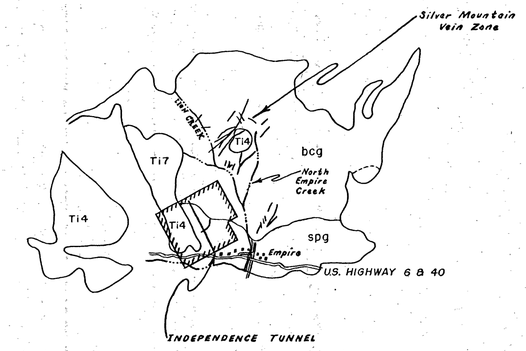


FIG. 2A
MAP SHOWING GEOLOGIC RELATIONSHIPS

Taken from geologic map of the front range mineral belt, U.S.G.S. P.P. 223.

LEGEND

- APPLICANTS PROPOSED D.D. HOLES.
- PATENTED CLAIM OVERLAPS.
- UNDERGROUND WORK ACCESSIBLE (4-16-53).
- APPROXIMATE ROCK CONTACT.

300 0 300 600
SCALE IN FEET

LEGEND

- GOLD HILL MINES CO. PROPERTY.
- VEINS.
- Ti4 bcg — ROCK BOUNDARIES ON SURFACE.
- bcg — BOULDER CREEK GRANITE AND QUARTZ MONZONITE.
- spg — SILVER PLUME GRANITE.
- Ti4 — RHYOLITE - ALASKITE.
- Ti7 — DIORITE, GRANODIORITE, ANDESITE.

1 1/2 0 1 2
SCALE IN MILES

MINERAL RESOURCES BRANCH - MINING DIVISION
REGION IV
BUREAU OF MINES

FIGURE 2 - CLAIM AND EXPLORATION MAP, GOLD HILL MINES COMPANY, INDEPENDENCE TUNNEL, CLEAR CREEK COUNTY, COLO. (DMEA 2939)