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Sample #1 8' back fun face 14" wide
face narrows to 6" about same.

250	Drive N on 250	125	@ $12.00	=	1500
	Raise	50 ft	@ $12.00	=	600
	Sink	50 ft	@ $20	=	1000
50 Sent	Raise	50 ft	@ 12	=	600
				=	600
	3 Mos @ 200			=	600
	Misc			=	700

Ins. included above.
No eqpt required
Will handsteel 2 feet/day
7 day week
Contract $7.00 ft labor
Pays 2.00 for (2/3) mine car, del to stat. (3.00 total)
Cost 5.00 per ton on 100 at days wages
Pay 4 & 4.50
5 Hst
Carry 1 drift and 1 raise 1 Round per day
2 dev. faces.

Frt 1.70 10 and less +
2.10 15 + 32¢ for each
2.50 inc to
3.30 max

Smelt 250 to 15.00
No penalties
Prem 5¢ per unit above insol units
Truck 55¢/ton

$3 ~~made $12~~ after screen 6/7 ore
Ext. Value 12.00

2000 tons in dump
Haul water

6000 gal Wat tank

old 10x12 Comp

1 ~~Air~~ large air receiver

1 Auto engine drive West Coast hoist

w/3/8 line

1 Compl blsm shop

1 I-R Steel Sharpener

1 Temper Forge

1 Drill press

Air and water lines and track on pract all levels and some sub-levels.

1 1/2 Comp Vent 2-50 ton compartments.

1 2-room Dwelling

1 Change

1 Hoist

1 Store house

1 Shop

2 Min East from Tombstone

Docket No B-ND-4662
Date Auth for Exam. Recd. Dec 21, 1942
Date of Exam, incl Dec 28-29, 1942
Date of Report

1. Name and Address of Applicant
   Name Ronald L. Brown
   Address Box 182
   City & State Tombstone, Arizona

2. Character of Project
   Development of Lead-Silver mine

3. Location of Mine
   The mine is located in sec 13 T.20S R22E in the Tombstone Mining District, Cochise county, Arizona. ~~The mine is 2 miles~~ by road east of the town of Tombstone which is the nearest rail point and supply center. The road is paved highway ~~to the~~ except for the last 1/4 mile ~~of the mine the~~ which is ~~graded road~~ hard surfaced dirt. The mine is accessible at all seasons.

4. Applicant
   The applicant is a comparatively young man. He is a mining graduate of Michigan ~~and~~ with post-graduate work at Harvard, and has had varied mining experience in Eastern Canada and, more recently, in Arizona.

208

20

$\frac{251}{207} \times 409$

180

300

$\frac{180}{6,300,000}$ 320

1½

1

2

1 3 = 300

10%

75.1

27.6

8.4

4.0

$\frac{181}{6,3}$

$\frac{1500}{6300}$

within one year.

4. General Remarks

The project will continue its regular rate of production during the progress of development and ~~progr~~ it is expected that ~~the development will yield a substantial amount of~~ ~~or~~ a considerable amount of profitable ore will be broken in the development headings.

Comments of Supervising Engineer

~~A development loan appears to be justified.~~

~~The property is producing a substantial amount of lead at the present time and an increase in the rate of production seems assured upon completion of the proposed development.~~

~~The project is in competent hands and ought to pay off the loan in -~~

~~The proposed development seems to assure an increase in the rate of production of lead already~~

The purpose of the loan is to increase the already substantial rate of production of lead, and the chances for doing so and repaying the loan in a short time appear to be ~~seem~~ good. A development loan is therefore recommended.

T. P. Phan

11 Nature and Sources of Revenue

The property will be operating on a profitable basis upon completion of the development project.

A second loan (Class A) will not be required.

The property should be able to pay off the loan within a years time.

Comments

See P. 18

Project ought to repay the loan in three months.

C. ~~Loan ought to be repaid~~

10 Estimated Cost of Project

A. Total Development

Drift	125 ft on 250 ft level @ 12.00 per foot	$1500
Raise	50 ft from 250 Ft level @ 12.00 per ft	600
Sink	50 ft from 250 Ft. level @ 20.00 per ft	1000
Raise	50 ft from 100 Ft. level @ 12.00 per foot	600
		3700

B. No Equipment to be purchased

C. No Construction recommended

D General Expense

1. Supervision	3 mos @ 200.00 per mo	$600
2. Insurance		50
3. Compensation cost is included with development cost		
4. Interest during project $5000 1 yr at 5%		250
		900

E Contingencies 4100

5,000

11. Nature and Sources of Reserve

1. Property would not be self-sustaining upon completion of present development project
2. Second loan (Class A) will not be required for self-liquidation of property
3. Property should be self-sustaining

5 See 2 above

6 See 3 above.

7. Employment

A. As already noted most of the work is done by mexican labor under contract, and therefore a strict classification of the crew is not ~~the~~ possible. It is approximately as follows:

4 miners
4 Trammers and helpers
1 Topslander
1 Hoistman
10

B. It is proposed to add 2 miners and 2 helpers to the above crew.

C. It is proposed to carry on the work at 2 shifts per day, 7 days per week.

8. Objections to the Project

A. There are no local or regional objections to the project.

B. The project is producing a ~~[illegible]~~ ~~at~~ a substantial amount of lead and ~~[illegible]~~ will be enabled under the loan to materially increase the rate of production.

9. Time Schedule

A. It is expected that the development program will be completed within 3 months time.

B. Work can be carried on the year round

3. Approximate Premium on payroll for state compensation is estimated at $200 per month

F. Ore Reserves

1. The ore occurs in irregular scattered lenses and cannot be practically blocked out in advance. The property has ~~shipped~~ produced a total tonnage in excess of 19,000 tons. The applicant had produced ~~some~~ over 1600 tons at the time of the examination and has probably shipped 400 tons more since that time. His shipments from unmined blocks and pillars apparently has exhausted only a small part of such potentialities, and his work on the N end ~~suggests~~ justifies a reasonable expectation for developing an extension of the main ore shoot in that direction. The project seems assured of producing ~~at least~~ several times the tonnage already shipped by the applicant.

2. Average net value to shipper per ton shipped ~~at 1962 was~~ at present is approximately $11.50 per ton

3. Estimated net operating profit on ~~the above~~ material of the above grade is around $6.00 per ton.

4. See 1 above. The development is expected to result in an increase in ~~assure~~ the present rate of production.

g. Ore is not to be sulled

h. Haulage from the mine to the railroad at Tombstone costs 55¢ per ton

i. Freight rate to the smelter at El Paso on ore having a ~~net smelter~~ value ~~per ton~~ not exceeding $10.00 per ton is $1.70, and for ore valued between $10.00 and 15.00 ~~per ton~~ the rate is $2.01 per ton.

j. Smelter treatment charge is based at $2.50 per ton for ore not exceeding $15.00 payment for metals. Above this value the charge minus at 10% of the difference to a maximum of $5.00 per ton. Occassional penalties and credits are small and are practically compensating.

k. Royalty cost is 10% of smelter net. Cost for supervision will be $200 per month

l. The mine does not require timber except for occasional stulls and chutes and these are robbed from other parts of the mine.

m. Total cost per ton is estimated at $6.00 per ton.

2. Not applicable

2. There is no mill on the property. ~~and~~ ~~none is contemplated~~

3. Not applicable

4. No ~~equipment~~ or supplies are recommended for purchase. The applicant intends taking care of such items on his own account

5. No mill is recommended.

6. Buildings on the property are adequate for the project and consist of:

Hoist and headframe over 1½ compartment vertical shaft with 2 - 50 ton ~~[illegible]~~ skipping bins.

1 Change House
1 Hoist House
1 Store House
1 Shop
1 - 2 room dwelling

7. No expenditure for construction is recommended. ~~for the project.~~

8. There are no other expenditures recommended.

E. Cost Estimates

a. Mining cost is estimated at 5.00 per ton

bcd Cost for drifting and raising is estimated at 12.00 per foot. No crosscutting is ~~planned~~ proposed.

e,f. Cost for sinking shallow winze on the vein is estimated at $20.00 per foot. No shaft sinking is proposed.

~~Where practical the price mining is done on contract~~

The crew is all Mexican and since there are no high ~~wage~~ ~~wages~~ ~~paid in any~~ mines in the immediate neighborhood the ~~scale~~ wage scale is low, and is as follows:

Hoistman	$5.00
Miners	4.50
Muckers	4.00

Development work is handled on contract at 4 to 5 per foot for labor only. Stoping in the ~~and stoping in~~ the wider more uniform portions of the vein is also done on contract the present price being $2.00 per car (2/3 ton) of ore delivered ~~to the~~ on the cage at the shaft station.

Equipment

1. Working Equipment
   - 1 - 1000 gal Water Tank
   - 1 - Old 10" x 12" Compressor (not in use)
   - 1 - Auto engine hoist (to be replaced)
   - 1 - Complete Blsm shop, with Ingersoll-Rand sharpener and furnace (not in use)
   - 1 - Drill press
   - Several mine cars
   - Track and air and water lines installed on all levels and some sub-levels.

Progress Report

Joe H. Cline & Cline
Docket No. B-ND-

Date of Original Disbursement
July 28, 1942

Present Status of Project
Suspended Nov. 15, 1942

Description of Project
Financial.

A development loan in the sum of $20,000 was authorized for the project. A disbursement of $5,000 was made from the allocated fund and borrowers to date have drawn against this deposit by suits & requisitions the sum of $4530.07 leaving a balance on hand of $469.83. Accounts payable, chiefly interest charge on the loan, total approximately $200, and since the work has been suspended there is no current expense.

Development

The results of development to date have not demonstrated any continuity of ore and appear to indicate the dropping out of values at shallow depths. In view of the inconclusive nature of the results and the latness of the

2.

The Applicant is mining by ~~the~~ open-stulled stopes. His ~~entire~~ crew is mexican and the greater part of the work is done on a contract basis. The ~~rock in~~ vein in general is soft enough to break easily with pick and hand steel. The property ~~[illegible]~~ is not equipped with a compressor and ~~does~~ would not ~~anticipate needing one unless~~ need one unless at some future time it was decided to ~~exploratory work were done in the wall rock~~ carry on exploration in the ~~country~~ wall rock.

3 a. The property is presently shipping at a rate of about 5 carloads a month. It is anticipated that the proposed development would result in a shipping rate of 8 to 10 cars, ~~per month~~, or 400 to 500 tons per month.

b, c, d. Drifting, crosscutting and raising in the vein is done by hand drilling and picking, the average advance for two men in a heading being 2 feet per day.

e, f, g. Milling of the ore is not contemplated. ~~The~~ applicant is screening the dumps and ~~has had~~ installed a ~~some~~ small success in jigging the screenings ($3.00) up to a shipping grade. He is now installing a concentrating table and plans to handle the balance of the mine dump (2000 tons ±) in this manner. This work is incidental however, to the main operation which is ~~[illegible]~~ the shipping of a crude smelting ore.

h. Not applicable

~~i. The work is largely done on a contract basis.~~

Development

Development to date indicates that the tungsten mineralization is quite spotty and in none of the openings has a continuity of ore been observed. Also, the occurrence of tungsten minerals appears to be only surficial. The two shallow shafts show either no values or only unimportant WO_3 content below favorable surface exposures and the floors of the deeper cuts show a dropping out of the values observed at the top of the cuts.

not ~~properly~~ ~~qualifying~~ qualified under the loan. In place of the discarded ~~steps~~ items several other new ~~was~~ suggested and agreed upon as more properly suited to the immediate needs of the property. These were as follows:

~~The following program was agreed upon~~:

1. Drive 125 Ft. North on the 250 Ft. level.

2. Raise 50 Ft. from the above 250 Ft. level development

3. Sink 50 Ft from the above 250 Ft level development

4. Raise 50 Ft from the 100 Ft level at a point under ~~one of the apples~~ an area stoped by the applicant on the 100 Ft. level south.

The ~~above~~ location of the above proposed development ~~proposed~~ is shown on the accompanying map. It is understood that in the event that steps 2 or 3 do not seem justified after step No. 1 ~~the~~ an equivalent amount of development will be transferred to one or more of the unmined blocks in the ~~upper~~ upper stoped area. Incidentally there are showings at a ~~number~~ many of places in this area which are fully as attractive as those ~~which~~ whose the applicant already has opened up substantial amounts of ore.

In view of the inconclusive nature of the results and the lateness of the season and illness of the principal borrower it seemed advisable to suspend the work and defer a decision as to further work pending the outcome of development now under way upon a nearby lode project (Paul J. Harrison et al, Docket B-ND-3860). At this latter project a tunnel is being driven having as objective the testing at depth of ~~[illegible]~~ surface showings similar to those existing on the subject-property. The tunnel development has reached a stage from which an early answer on this point can be expected.

back from the face. Sample No 8 was cut in the west end of ~~the~~ a stope some 20 above the 250 foot level. The vein is narrow here and the drift on the level will have to be widened before mining can be resumed. Samples Nos 11 and 12 were cut ten feet apart in a pillar in the back of the 485 Ft level south.

C. Proposed Development

The development program originally submitted by the applicant contained three proposals as follows:

1. Drive north on the 250' level to develop the ore shoot now being mined above the 200 ft level north.
3. Drive south on the 100 ft level to explore the intersection of the main fissure with a prominent cross fissure
2. Drive north on the 485 ft. level to develop the downward extension of the ore now being mined above the 200 ft. level north.

Following ~~an~~ inspection of the mine and discussion with this engineer it was agreed with the applicant that the 1st step of the above program ~~was~~ is logically indicated. The second step was discarded as being development which was too far advanced beyond presently proven ore, particularly in view of the ~~sketchy nature of the unattractive condition so far~~ generally unfavorable results thus far obtained in deep development. The third step was discarded as being a purely exploratory development and therefore

The decision to develop the property was based ~~The original work was based upon~~ a number of samples ~~shown~~ containing appreciable amounts of WO_3 which were taken in a shallow shaft and short crosscut from its bottom. Owing to the heavy overburden in the area and the absence of other surface work it was felt that a serious program of development could not be planned until additional surface work had indicated a localization or trend of the tungsten mineralization and, further, that the results of such work had indicated that the project deserved more serious attention. ~~showing and upon the surface in the area.~~

one space

Accordingly, and because of the difficultly accessible location of the property very little money was expended in camp and equipment. Also, a maximum crew of only 3 men was employed. The camp consists of two tents, and hard rock work has been done with hand steel.

The attached map shows the work ~~ings~~ which has been done on the property ~~together~~ and the location and results of the sampling. This ~~scattered~~ work has ~~shown~~ disclosed the scattered presence of ~~of WO_3 either as scheelite or, more commonly~~ huebnerite and, in somewhat lesser amount, scheelite over an approximate average width of 30 feet and for a distance of 450 ft along a northeasterly trend.

The occurrence of the tungsten minerals is quite spotty and in none of the openings has a continuity of ore been observed. Also, the tungsten mineralization appears to only superficial. ~~Surface values~~ The two shallow

vein carries values rather consistently within the lateral limits of the main shoot, and the width of ore is generally determine whether it is worth mining or not. He has demonstrated also that within these same limits relatively poor (i.e. narrow) faces can be expected to improve within short distances. The many faces upon which he has started stoping were all poor, and in practically every case work in them opened into better ore. In other words the unmined portions of the ore body are areas whose fringes show a pinched vein condition and the possibilites are good that penetration of these area will encounter normal widths and values. Further proof of this condition is seen in the history of the repeated resumption of development stope faces by various companies and individuals. It should be noted that the applicant's operation benefit very materially from the premium bonus for lead. Also, he has a smelter schedule is realizing a very much better price for lead, by reason of the bonus, than did any of the previous operators and he is able thereby to handle at a profit material which formerly was sub-marginal.

Samples No 1 to 7 were cut in the faces of the active stopes. ~~and represents the vein material in the face. Carload shipments has been running around~~ Samples No 9 and No 10 were cut in the east end of the 485' level, at the face and 10 feet

~~shafts show either no values or only unimportant WO_3 content below rather favorable surface exposures and the floors of deeper cuts do not show a dropping out of the values observed at the surface top of the cuts.~~

The zone in which the WO_3 minerals occur lies on the east bank of a small creek and is bounded on the east by an ~~hard soft~~ ~~altered~~ altered diabasic dike several feet thick. ~~Lenses of~~ Quartz stringers and lenses occur in the zone in close proximity to the dike and parallel with it. Frequently known the quartz bodies angle away from the dike in a northerly direction along ~~the~~ joint planes in the granite. The quartz is glassy to milk white and the lenses are ~~often~~ ~~reach width of~~ occur up to 3 feet in width. The Tungsten minerals, principally huebnerite, occur in coarse crystals sometimes several inches in greatest dimension. ~~Pyrite is generally present with~~ abundant ~~finely~~ disseminated pyrite ~~is generally present accompanying the Tungsten minerals.~~ generally accompanies the tungsten minerals. Following is a detailed description of the work (see accompanying sketch):

Prior to the granting of a development loan Shaft No 1 had been sunk to a depth of 20 ft. and the crosscut ~~was~~ toward the dike was 18 ft in length. Samples in the shaft and crosscut assayed from .12 WO_3 to 1.90 WO_3. The first work ~~which was~~ done under the loan was to advance the crosscut several feet to the dike and then drift 8 feet in a northeasterly direction along the dike. Occasional spots of

~~The ore mineral is chief is mostly oxidized, the chief ore mineral being cerrusite. Some Galena is generally present generally in small amounts and occasionally but abundant~~

P The ore is mostly oxidized, the chief ore mineral being a granular dark gray cerrusite accompanied by small amounts of anglesite and galena with much limonitic material. Occasionally in small areas galena is abundant. The ore contains important amounts of silver and a little gold.

~~is generally present, generally in small amounts although occasional small areas show abundant massive galena. It is said that~~

No P Galena is relatively abundant below the water level. It has been generally noted in the district that ~~in general~~ oxidation has improved the grade of the ores. Deeper ore ~~development~~ therefore would probably be ~~encounter~~ of lower grade, ~~and this fact together with the feathering out and of the ore shoots in the lower part of the mine~~ and this fact together with the notable feathering out the ore shoots in the lower part of the mine discourages further deep work. The main interest

P ~~Chance appears to lie~~ in the property is in the unmined portions of the ore body above the 250 ft level and in possible extensions of ore on either end in the upper part of the mine

The applicant has been stoping ~~mining in~~ these unmined ~~unmined~~ portions of the ~~ore to~~ main ore body and ~~his the success of his operation~~ has produced a profitable grade of ore from a scattered number of localities. His work has demonstrated that the

scheelite and huebnerite were noted in this work. ~~and~~ In the face of the drift ~~in the face~~ a cross fracture accompanied by a lens of quartz strikes ~~northerly~~ away from the dike ~~and~~ contains large crystals and bunches of huebnerite with a little scheelite. Assays obtained from sampling of this working place are shown on the sketch. A slice was blasted from each wall of the cross cut and the resulting ~~muck was~~ broken material was sampled. The material assayed ~~only~~ .12 and .18 WO_3. which is ~~considerably~~ out of line with the earlier assays from ~~and~~ this ~~difference~~ place. ~~The difference~~ ~~the first samples might have been taken~~

X

might be attributed to the ~~fact that the~~ spotty erratic distribution of the tungsten mineral or, what seems more probable, to discrepancies in assaying. ~~In~~ view of the wide variations in returns ~~recent check on assaying~~ ~~similar~~ reported by several local assayers on ~~similar samples~~ a recent ~~check~~ ~~systematic~~ ~~check~~ survey ~~of results and~~ of methods was made and as a result it is believed that ~~returns now being received are~~ more uniform and generally satisfactory results are now being attained. Also, pulps on the ~~duplica check~~ ~~assays on the same pulp are now being~~ ~~more important samples~~

more important samples are now split and sent to two assayers. ~~for check~~.

the tungsten assays from this and other properties

under lease to the Applicant. ~~Total Production to date has~~

Total production to date has exceeded $500,000 gross value and 7,000,000 lbs. of lead. Present production is running around 300 tons per month ~~and~~ containing ~~ab~~ 35-40 tons of lead along with a substantial amount of silver and a little zinc.

The rocks of ~~the~~ immediate region are shales sandstones and quartzites. ~~The~~ ore shoots occurs as replacements in a fault fissure which strikes approximately N 25° E and dips 80°-85° W. The fault fissure contains thin ~~gouge~~ streaks of gouge and breccia and varies from 1 to 5 feet in width, the greater width occuring where shaley beds rather than quartzite prevail as wall rock and also ~~the~~ where the fissure changes in ~~dip~~ strike and dip. A system of N 50° E trending fissures traverses the area ~~in with an average N 50° E strike and steep vertical dip~~. These fissures and enter the main fissure and follow along it for a short distance before ~~passing~~ resuming their normal trend, and it is claimed that ~~such~~ the ~~intersections~~ larger ore shoots ~~tend to~~ are localized at these intersections. No confirmation of this fact could be seen in the presently accessible parts of the mine where the occurrence of pay ore in lenses ~~seems to~~ appears to depend upon pinches ~~and~~ swells in the fissure opening.

The main ore shoot which was over 800 feet long at the surface appears to finger out into seperate branches downward. The quantity of ore on the lowest extensive level (485 Ft.) is small and the fissure has narrowed down to ~~12" to 18" in width~~ a maximum width of 18".

Crosscut trenches were dug at intervals northeast and southwest of ~~sample~~ shaft No 1. ~~and these~~ some of these trenches cuts ~~frequently showed quartz~~ exposed unaware quartz ~~lenses which at the surface~~ containing scattered tungsten minerals at the surface but at depths of several feet ~~showed~~ the material was generally barren.

Shaft No 2 was sunk to a depth of 22 feet in a cut ~~some~~ 170 ft northeast of shaft No 1. A thin lens of quartz ~~was lying against the dike~~ was uncovered in a longitudinal cut 26 ft in length ~~long~~ and the quartz, which varies in width from 8" to 18", in places contained fair amounts of ~~scheelite~~ huebnerite with some scheelite. ~~in places and~~ A shaft was sunk at a point where a width of 21 inches assayed 5.80 % WO_3. Occasional patches and large crystals were encountered in the shaft to a depth of 12 feet. The quartz narrows to 8" in the bottom and is barren in the lower ten feet of the shaft. The shaft is now filled with water to within 7 feet of the surface.

Northeast of Shaft No. 2 the overburden is heavy and there are no exposures until at approx. 275 ft from shaft No. 2 several crosscut trenches show conditions similar to those obtaining in the trenches in the neighborhood of Shaft No. 1, i.e. scattered tungsten minerals in ~~the topsoil~~ quartz fragments in the topsoil, and little of value at depths of 5 to 7 feet.

Thrust the progress of development the workmen have picked out and ~~sorted the~~ piled separately the higher grade portions of the material mined. Sampling of the main

~~material ore values in the property's shipping ore and such samples as which were taken in the stopes~~

~~and sampling in the active stopes was done to and such samples which were taken in the~~

shipping product. ~~and~~

Not ~~Occasional~~ samples in the active stopes were taken for the purpose of verifying the continuance of ore values in those working places.

c. The shaft is in good condition and accessible to the 485 Ft. level. Water stands at about 510 ft. The main levels ~~were~~ are accessible and generally in good condition. The ~~stopes which are~~ mining method has been ~~mostly~~ chiefly open stulled stopes with casual pillars, and these ~~workings~~ stopes are generally inaccessible.

d. The property, known as the Tombstone Extension Mine, is about 2 miles east of the town of Tombstone and the main group of mines of the Tombstone district.

The mine was first worked by the Tombstone Mining Co ~~in 1930~~ during 1930-1932. Subsequently it was worked by the American Smelting and Refining Co. and various leasers and again (1935-1937) by the original owners. It is now making a steady output

dumps, therefore is not truly representative of the material removed and because of the scattering ~~scattered~~ of the piles of ~~better material~~ the picked material ~~an~~ a close ~~estimation~~ calculation of the overall content is not possible. Samples No. B-9 and C-3 for instance were taken from a pile containing approximately 1000 lbs of ~~represent~~ ~~the~~ high grade from the cut and shaft material at Shaft No 2. Assay Nos. B-7 and C-2 represents the main dump at this place. Calculating roughly from these assays and the ~~a rough~~ estimated ~~of the~~ tonnages involved the material removed must have contained ~~around~~ slightly more than .2 WO_3. The condition in the bottom of the shaft however ~~indicates~~ suggests that the lower limit of material of ~~one~~ this ~~low~~ grade is at 10 to 12 feet depth from the surface.

An estimate of grade of material removed from shaft No 1 and the more favorable cuts near it is even more difficult than at the ~~s~~ shaft No 2 because of the more scattered disposition and segregation of the material in the surface dumps and piles. In this engineer's opinion the grade would be ~~less than~~ about the same as that shown in in the first case, and here also the better ~~grade of~~ material came from the upper part of the workings. In either case the indicated ~~a~~ grade of ~~the~~ the material is below what would be considered economically interesting.

Rate of progress in the project has been ~~suffered because of the~~ handicapped by the difficulty accessible ~~isolated~~ location of the property, on top of a mountain approximately 10 miles by pack trail from the nearest road, and also ~~by the~~ because

5. Loan Requested
$ 5000

6. Description of Project
A. General Features
1. There are no mine workings, etc. which are not contained within the applicant's ownership.
2. The applicant complies with state compensation and safety-first statutes.
3. There are no apparent legal discrepancies in the project.
4. There are no impeded right-of-way facilities
5. There is no liklihood of surface or subsurface trespass during the project.

B. Existing Development
1. Mine is opened by a shaft.
a. The map accompanying this report ~~map~~ is a tracing of a longitudinal section which appears in the Arizona Bureau of Mines Bulletin No. 143 "Geology and Ore Deposits of the Tombstone District, Arizona". The outline of work performed by the applicant has been indicated upon this map together with the location of the sampling, and the proposed development.

2. Samples were cut across the vein and the material caught upon canvas or in a box. ~~The~~ Settlements upon a large number of cars of ore shipped from many parts of the mine can be a indication of the value of the

Equipment

There was no equipment of value on the property prior to the loan.

Equipment purchased under the loan consisted of a tent and miscellaneous small hand tools and cooking equipment. ~~With the possible exception of the tent the salvage value of the material is negligible.~~ The salvage value of such equipment, with the possible exception of the tent, is negligible.

~~He is resourceful and agressive, and since obtaining his lease in February of this year he has developed his property to the point where it is now a going concern employing 8 to 10 men and showing him a profit of between $400 and $500 per month. The purpose of the loan is to insure maintenance of the present rate of production and to increase this rate. His purpose in requesting for a development loan is to develop the mine sufficiently for in advance of extraction to permit increasing the [illegible]~~

No P

securing of a development loan will favorably affect the status of his lease. The present lease, a copy of which is attached to the loan application, expires on Feb 21 1943 ~~and the [illegible] owners have expressed their [illegible]~~ and contains no provision for renewal. The lessors ~~owners~~ have expressed their intention of taking over the ~~prop~~ operation themselves ~~unless the lessee~~ upon expiration of the ~~present~~ lease unless the lessee obtains an ~~government loan with which to develop and~~ R.F.C. Development loan, in which case they will extend the lease to the end of the premium paying ~~pay~~ period and will waive the 30 day cancellation clause contained in the lease. A copy of the extension and waiver agreement is attached to the application.

Comments

The weight of evidence in the development to date points to the fact that the tungsten minerals occur in occasional small detached bunches and are present in appreciable amounts in only the surficial zone.

It is this engineer's opinion that further work upon the property is not justified, with the possible reservation that the situation might be reviewed in the event that the tunnel now being driven on the neighboring Harrison property, previously referred to, should prove that values in that property persist substantially in depth.

T. R. Ram

He is resourceful and agressive, and at very small capital outlay he has developed the property to the point where it is now a going concern employing 10 men and showing a modest profit. ~~He has no working capital. The purpose of the loan is to develop the mine sufficiently for in advance of ore extraction to permit~~

Mr P He lacks working capital however and the purpose of the loan is to develop the mine sufficiently for in advance of ore extraction to permit increasing the present rate of extraction. Also, the

July 24, 1943

Tombstone Extension;

Last premiums were

Jan. 28th, for Dec. production

37041# Pb.....$1,018.63

Feb. 27th, for Jan production

35,417# Pb..... $ 973.97

DEPT. MINERAL RESOURCES
RECEIVED
JUL 27 1943
PHOENIX, ARIZONA

C

R. L. Brown, Tombstone

Settlement Date			Assay Au	Assay Ag	Assay Pb	Tons	Total Metal Content Au	Total Metal Content Ag	Total Metal Content Pb	cu	Premium Pounds Lead	Premium Amount	Total payment per ton	Total ded per ton	Net value per ton	Total Credits	Freight	Smelting	Sampling H. & H.	Silver withheld	Due Shipper
3/20/43	Lot 709	No 1	.015	1.1	6.1	28.253	.57	42.08	4667		4424		9.47	2.66	1.81	67.24	9.24	2.71	7.50	5.74	-19.25
3/23/43	" 741	2	.015	9.2	8.9	48.095	.72	394.01	8552		8125		11.85	2.67	9.18	441.09	8.98	2.71	7.50	95.62	245.08
						94.3085			13219		12559										
4/13/43	" 931	3	.015	6.9	8.3	42.922	.64	296.16	7125		6769		10.42	2.79	7.63	327.49	7.53	2.71	10.56	70.82	163.87
4/14/43	" 944	4	.02	6.8	13.27	54.2925	1.13	383.16	14855		14207		14.72	2.54	12.19	686.88	12.51	2.71	7.50	91.85	464.21
4/17/43	" 972	5	.03	1.3	6.9	42.751	1.28	55.08	5899		5605		6.28	2.18	4.10	175.28	7.64	2.71	7.50	5.85	76.88
4/30/43	" 997	6	.03	2.53	5.0	40.5585	1.34	112.73	4457		4233		5.46	2.84	2.62	116.74	8.29	2.71	12.08	23.17	-4.61
4/26/43	" 1034	7	.015	4.95	7.7	44.132	.66	219.95	6796		6456		8.65	2.96	5.69	246.70	8.26	2.71	13.62	51.19	97.32
						334.709			3723												
5/11/43	" 1079	8	.02	1.3	6.1	43.8785		57.04	5353		5085		4.61	2.52	2.09	91.91	8.54	2.71	7.50	8.78	11.85
5/11/43	" 1161	9	.02	5.7	8.49	45.03		256.67	7637		7255		9.75	2.94	6.81	306.65	8.09	2.71	15.62	60.84	144.37
5/11/43	" 1162	10	.02	1.7	5.6	40.2855		76.54	4512		4286		4.59	2.62	1.97	79.26	7.46	2.71	10.62	19.50	-19.89
5/17/43	" 1210	11	.01	3.3	6.1	44.07555		145.45	5377		5108		6.00	3.02	2.98	131.34	8.75	2.71	7.50	80.18	7.20
5/19/43	" 1230	12	.035	2.1	5.5	45.9175	1.607	96.43	7622		7241		8.41	2.53	5.88	269.99	8.07	2.55	7.50	19.29	101.35
					5.6				1526											20.07	
5/25/43	" 1278	13	.01	2.9	5.0	43.0685		126.70	4806		4566		5.19	3.08	2.11	92.18	7.51	2.55	7.50	27.09	-20.27
						202.6977			28504											20.07	
6/7/43	" 1379	14	.01	4.8	6.4	46.542	.46	223.40	5957		5657		7.29	2.83	4.56	212.23	7.57	2.85	7.50	51.66	70.45
6/14/43	" 1439	15	.03	3.7	6.4	41.7605	1.26	155.28	5372		5103		7.50	2.60	4.90	205.64	7.13	2.85	7.50	34.83	84.07
6/22/43	" 1500	16	.007	7.08	6.36	48.4185		344.79	6184		5875		8.71	2.77	6.12	297.55	9.16	2.85	7.50	81.68	111.11
6/23/43	" 1501	17	.01	2.4	6.2	46.697	.46	112.07	5790		5501		5.46	2.66	2.80	120.75	8.21	2.85	7.50	22.88	1.83
6/25/43	" 1538	18	.01	1.8	5.4	43.854	.44	78.97	4737		4502		4.34	2.87	1.45	63.63	7.50	2.85	7.50	14.92	-88.92
6/28/43	" 1539	19	.02	1.4	4.6	45.681	.91	63.78	4172		3981		3.35	2.58	.37	0.91	7.94	2.85	7.50	10.48	-83.37
6/29/43	" 1550	20	.03	11.2	15.0	46.8215	1.40	524.20	14049		13347		20.20	2.08	17.82	806.44	13.27	2.85	7.50	127.55	530.37
						320.6100			46283												
7/3/43	" 1577	21	.035	4.0	5.6	17.963	0.628	119.78	2226	.25			8.65	2.59	5.66	112.77	3.58	2.85	6.00	38.35	40.22
7/3/43	" 1578	22	.01	2.2	5.7	22.9715	.22	49.43	2562	.26			4.88	2.77	2.09	46.77	4.08	2.87	6.00	7.87	-13.57
7/8/43	" 1665	23	.02	1.0	2.3	47.6325	.95	47.63	3143		2987		1.44	2.68	-0.74	——	8.48	2.85	7.50	6.19	-136.17
7/15/43	" 1666	24	.015	4.4	9.8	45.3785	.68	297.22	8819		8473		11.40	2.88	8.52	387.69	7.83	2.85	7.50	67.62	229.89
																		2.85		10.09	-9.96
7/20/43	" 1679	25	.015	1.6	4.1	43.187	.65	67.10	2541									2.85		7.69	-10.72
7/23/43	" 1746	26	.03	1.3	3.1	48.4325	1.45	62.96	3003												
7/26/43	" 1747	27	.015	5.94	8.48	42.065	.63	245.37	7125		6770		9.85	2.57	7.28	305.87	5.89	2.85	15.62	59.98	155.83
						269.204			20,529												
						11.09.19			462,229												
8/3/43	" 1814	28	.03	1.2	4.8	45.972	1.38	55.07	4406		4186		4.36	2.67	1.69	77.56	8.00	2.85	10.56	8.26	-24.61
8/4/43	" 1855	29	.01	6.4	5.0	41.4125	.41	265.04	4141		3934		7.17	2.51	4.66	192.98	7.05	2.85	6.56	63.26	47.36
8/4/43	" 1889	30	.01	1.85	3.7	36.1455	1.08	59.63	2674		2540		3.70	2.51	1.26	45.34	6.18	2.85	10.31	12.48	-37.58
8/24/43	" 1954	31	.03	10.27	11.8	51.272	1.54	526.56	12100	.20	11493		17.22	2.76	14.46	744.39	10.47	2.85	7.50	127.21	497.39
										.80											
8/31/43	" 2008	32	.015	1.60	4.8	55.2655		88.58	5315	.40	5049		3.67	2.54	1.13	62.56	9.32	2.85	7.50	15.50	-61.31
						55.2655			28635												
9/6/43	" 2065	33	.01	5.7	8.8	48.414		276.42	8585	.58	8108		10.21	2.73	7.48	362.74	8.41	2.85	9.02	64.98	201.93
9/14/43	2128	34	.01	5.33	7.5	46.0385		248.05	6851	.60	6432		8.84	2.83	5.75	279.70	8.60	2.85		58.17	137.38
9/10/43	2114	35	.01	2.1	5.48	43.2585		92.31	4888	.40	4577		4.62	3.04	1.58	69.45	7.58	2.85	7.50	18.46	-37.84
9/28/43	2236	36	.01	5.17	7.2	51.504		266.29	7417	.59	7046		8.46	2.62	5.84	300.78				62.32	133.83
9/28-43	2237	37	.015	2.35	5.7	28.649	429.960	93.83	4426	.12	4186		4.88	2.99	1.89	76.91				18.55	-26.96
10/8-43	2311	38	.01	2.6	6.5	49.345		177.62	6410	.58	6090		6.74	3.05	3.69	181.96				39.45	45.13
							572	2,21.87		456											
10/12/43	2398	39	.01	3.1	4.8	46.653		144.62	4477	.50	4255		4.32	3.20	1.51	75.58				31.72	-54.33
							466			466											
10/18/43	2396	40	.017	3.5	7.2	40.036		140.13	5765	.17	5477		7.10	2.63	4.47	178.96				30.83	67.75
10/26/43	2484	41	.01	2.3	5.3	44.8225		103.15	4754	.24	4516		4.59			90.83				30.63	-19.54
							189.348		81.468												

Settlement Date	Ins	SiO2	Fe	CaO	Zn	S	Al2O3	Sb	SG
9/14/43	46.2	35.2	12.6	1.6	4.1	.3	10.5	.17	.17
10/12/43	41.6	32.4	10.9	4.0	8.5	.5	8.1	.27	.18
10/18/43	39.0	30.0	10.4	5.0	9.3	.3	6.9	.19	.37
10/18/43	42.2	34.8	12.8	2.6	4.0	.5	9.1	.17	.17
10/26/43	40.2	29.6	16.3	5.1	4.9	.7	8.0	.12	.32

44.3 / 6.2 / 28.0 = 223.4 / 155.3 — 59 37 / 53 72 — 97.74 / .1438 / 83.37

R. L. Brown, Tombstone

Settlement Date		Assay Au	Assay Ag	Assay Pb	Analysis Insol	Analysis SiO2	Analysis Fe	Analysis CaO	Analysis ZN	Analysis S	Analysis Al2O3	Analysis Cu	Analysis Sb	Analysis Mn	Total payment for Metals/ton	Total Deductions	Net value Per ton	Tons	Crates	Freight	Switching	Haul H.	Amount with/pay.	Deashipping	Premium Pb	Premium amount	Cu
3/20/43	Lot 909	.015	1.1	6.1	42.8	23.2	23.4	0.4	0.2	0.6	9.2	.25	.15		4.47	2.66	1.81	38.253	69.24	72.34	2.71	2.50	5.74	-19.05	4434	(121.94)	
3/23/43	" 741	.015	2.2	8.9	43.8	32.6	17.4	2.5	2.7	0.6	5.3	.17	.15	.16	11.85	2.67	9.18	48.0775	441.09	89.98	2.71	wrap. 7.50	95.62	245.28	8125	223.44	
4/13/43	" 931	.015	6.0	8.3	45.2	34.4	17.3	1.8	6.0	0.4	8.4	.20	.17	.8	10.42	2.78	7.63	42.922	327.49	79.53	2.71	3.06 7.50	90.82	162.87	6769	182.65	
4/24/43	" 944	.02	6.8	13.47	39.4	31.0	15.3	3.1	4.6	0.6	7.2	.20	.20	.8	14.73	2.54	12.19	52.3475	686.88	120.57	2.71	7.50	91.95	454.51	14207	394.69	
4/17/43	" 972	.03	1.3	6.9	35.8	19.0	20.5	1.1	1.8	0.5	6.3	.27	.25	.8	6.28	2.18	4.10	42.751	175.28	79.64	2.71	wrap + 7.50	8.55	76.88	5605		
4/26/43	" 1034	.015	4.85	7.7	48.8	37.8	14.3	1.6	4.0	0.6	8.9	.20			8.55	2.76	5.59	44.122	246.70	81.86	2.71	6.15 7.50	51.19	77.52	6456		
6/29/43	997	.03	2.53	5.0	46.6	36.0	16.1	1.1	3.8	.8	9.4	.22			5.46	2.84	2.62	44.5565	116.74	72.89	2.71	wrap 5.88 7.50	23.17	-4.61	4233		
5/1/43	1079	.02	1.8	6.1	36.2	25.6	25.5	.1	1.8	.7	10.4	.10			4.61	2.52	2.09	43.8775	91.71	82.29	2.71	7.50	87.8	11.85	5085		
5/11/43	1161	.02	5.7	5.8	48.2	38.2	15.2	2.8	1.5	.5	8.9	.25	.25		9.75	2.94	6.81	45.030	306.65	83.09	2.71	wrap 8.15 7.50	60.34	146.87	7255		
5/11/43	1162	.02	1.9	5.6	42.0	30.3	20.4	1.9	1.5	.6	11.0	.20	.25		4.58	2.62	1.97	40.2875	79.36	78.64	2.71	wrap 8.15 7.50	14.50	-19.09	4286		
5/17/43	1210	.01	3.3	5.9	50.0	39.2	10.6	5.4	2.1	.5	8.3	.25	.25		5.73	3.02	2.71	44.0755	119.44	81.25	2.71	7.50	32.18	-4.70			
5/19/43	1230	.035	2.1	8.3	35.8	26.8	23.2	.9	1.8	.6	8.8	.25	.25		7.11 / 8.41	3.53	4.88	45.9175	224.89 / 386.71	87.07	2.55	7.50	19.27	57.22 / 101.25	7241		
5/23/43	1278	.01	2.9	5.0	51.4	41.2	14.5	2.4	3.5	.7	7.4	.25	.25		4.75	3.08	1.67	43.689	72.96	75.31	2.55	7.50	27.09	-37.47			
6/7/43	1379	.01 / .15	9.6 / 4.8	6.4	44.2	35.0	12.8	2.7	2.9	.7	9.1	.10	.07		7.97	2.93	4.56	46.562	212.23	79.57	2.55	7.50	57.66	70.25	5657		
6/14/43	1434	.02	3.7	6.4	46.6	31.6	18.2	.4	3.1	.5	10.5	.07	.25		7.50	2.60	4.90	46.9665	205.14	74.13	2.55	7.50	39.83	84.07	5103		
6/22/43	1500	.007	7.09	6.26	45.4	34.6	14.5	8.7	3.6	.5	8.9	.07	.28 .08		8.91	2.79	6.12	48.6185	297.55	84.16	2.55	7.50	81.69	118.91	5825		
6/22/	1501	.01	2.4	6.2	40.8	30.6	18.5	1.9	3.6	.5	8.9	.10	.17		6.46	2.66	3.80	46.698	130.25	82.21	2.55	7.50	92.88	187.3	5501		
6/28/43	1538	.01	1.9	5.4	47.6	33.8	12.5	2.9	2.1	.7	9.3	.12	.25		4.24	2.87	1.45	43.584	63.23	75.10	2.55	7.50	14.42	-28.06	4502		
6/28/43	1539	.02	1.4	4.6	49.4	37.0	14.8	2.1	4.5	.6	12.2	.12	.20		3.35	2.58	.77	45.561	.91	78.14	2.55	7.50	10.98	-88.37	3782		
6/29/43	1560	.03	11.3	15.0	37.2	30.6	17.6	1.8	2.5	.2	4.7	.07	.37 .27		20.30	3.08	17.22	46.8315	806.44	121.27	2.55	7.50	127.85	520.37	13547		
7/3/43	1577 P	.025	6.0	5.6	47.6	38.8	12.7	4.0	4.7	.7	7.3	.15	.15 .25		8.65	2.58	5.66	47.963	272.99	85.87	2.55	6.00	28.25	40.22			
7/3/43	1578 P	.01	2.2	5.7	32.0	24.2	20.9	1.5	2.9	.6	9.6	.08	.15 .26		4.88	2.79	2.09	22.9775	46.97	40.08	2.57	6.00	9.89	-12.37			
7/15/43	1665	.015	2.4	9.8	42.0	38.4	16.6	1.8	2.5	.5	5.8	.25	.25		11.40	2.88	8.52	45.5075	387.69	98.88	2.55	7.50	67.42	229.99	8473		
7/15/43	1665	.02	1.0	2.3	43.4	33.4	18.2	1.6	5.2	.5	8.5	.23	.20 .22		1.74	2.69	-.74	47.6275	—	84.68	2.55	7.50	6.19	436.17	2987		
7/20/43	1691 P	.015	1.6	4.1	48.4	36.2	12.6	5.0	3.4	.9	8.6	.12 .27						43.589						-9.96			
7/26/43	1746 P	.03	1.3	2.1	50.6	36.0	15.8	3.5	1.7	.8	8.9	.25 .20						48.4225						-108.72			
7/26/43	1747	.015	5.4	8.48	46.9	39.4	16.1	3.4	3.6	.6	9.0	.20 .21			9.85	3.57	7.28	42.065 / 59.304	306.87	72.87	2.55	.82 7.50	57.99	153.83	6770		
8/3/43	1814	.03	1.2	4.8	42.2	30.0	18.3	3.5	2.3	.8	9.0	.30 .30			4.36	2.67	1.69	45.882	77.52	83.80	2.55	3.06 7.50	8.26	-24.01	4186		
8/19/43	1855	.01	6.4	4.8	33.8	22.6	12.2	8.1	4.7	.2	6.9	.17 .25			6.99	2.57	4.42	41.4125	183.53	70.65	2.55	7.50	63.36	41.47			
8/14/43	1889	.02	1.5	3.7	29.6	22.8	31.0	2.4	Cu 1.6	.5	6.6	.20 .22									Trucking 1.25						
11/19/42	Lone star	.015	2.54					11.54							21.36	4.14	17.22	9.4025	162.01	58.05				101.34	4995	137.36	9.40	47.00
2/5/43	Horsehoe Lot 1	.035	.14		84.8	82.6	4.6	0.6	3.4		0.2				7.22	3.01	4.22	42.891	180.79	36.06				144.23			
6/1/43	" "	.05	.04						2.34						5.39	3.00	2.39	48.705	116.88	40.95	63.99			11.94		2410	120.50
11/29/42	Mammoth Tiger	.02	7.6	5.8	64.6	58.6	12.1	.7	1.22		5.6	.25			8.60	4.75	3.85	45.325	174.51								

2/5.45
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Settlement Date	Lot			Assay Au	Assay Ag	Assay Pb	Assay Cu	Total Metal Au	Total Metal Ag	Total Metal Pb	Total Metal Cu	Premium Pb	Premium Cu	Tons	Total Payment per ton	Total Credit	Silver withheld	Due Shipper		Fns	SiO2	Fe	CaO	Zn	S	Al2O3	Co	Sb
11/1/43	2567		42	.005	3.93	4.95	.52		179.9	1653	501	43.04	4005	45.77	5.54	124.04	40.74	-6.44		46.4	38.0	11.0	5.2	6.5	.8	5.3	.15	.25
11/18/43	2656		43	.007	4.1	4.8	.19	32	157.4	4388		41.70		45.716	5.44	133.43	42.52	-7.95		43.8	34.6	11.3	6.4	5.9	.5	7.8	.11	.20
11/23/43	2786		44	.005	4.3	5.7	.15		238.0	6307		5794		55.344	6.33	194.81	54.79		31.84	45.8	33.2	11.7	5.8	4.5	.5	7.3	.20	.19
									9703.40	15229		14468		146.930														
										261.998				19561.097														
12/2/43	2851		45	.005	3.1	5.9	.15		98.1	3355		3187		28.4325	5.68	73.86	19.73	-3.43		51.6	40.6	10.4	5.1	4.8	.6	5.9	.20	.18
12/2/43	2852		46	.015	4.8	7.4	.30		140.0	4217				22.166	8.17	144.79	32.37		70.14	38.6	21.0	22.1	1.3	5.4	.4	8.2	.20	.18
12/15/43	2915		47	.015	3.4	7.57	.10		151.4	6741		6407		44.527	7.25	189.79	33.40		62.97	51.8	40.4	12.3	2.3	2.0	.7	7.8	.25	.20
12/22/43	3073		48	.027	4.5	6.5	.15		197.5	5704		5419		43.8255	7.18	202.72	45.63		75.87	46.8	31.0	13.9	4.6	4.8	.6	7.2	.25	.20
12/27/43	3088	P	49	.01	2.1	4.5	.29		52.1	2233				24.8155	3.76	82.58	10.42	-3267		46.8	36.6	13.4	3.2	4.15	.5	8.4	.25	.20
12/27/43	3100		50	.08	8.7	25.3	.95	1.14	128.2	7223		6862		14.275	29.25	362.15	30.26		30263	14.9	10.2	28.5	1.6	3.9	.8	2.8	.17	.12
12/29/43	3131		51	.02	1.5	5.0	.21		41.7	2778		2639		27.7845	3.78	85.01	7.22	-40.10		47.4	31.6	13.3	2.3	4.5	.5	15.4	.18	.14
12/28/43	3132		52	.022	3.7	7.53	.37		79.2	3225		3135		21.9115	7.53	165.78	18.19		35.48	36.0	28.1	14.9	5.7	4.0	.5	7.0	.17	.12
1/11/44	78			.01	1.8	5.0	.25		82.0	4526		4128		43.582	3.99	53.32	14.81	-57.47		44.2	36.5	13.9	2.8	5.6	.1	1.8	.15	.18
1/19/44	135	1		.005	1.5	6.5	.24		34.6	2996		2846		23.0445	5.10	59.45	5.99		21.0	33.9	23.4	12.9	7.6	5.7	.1	7.2	.18	.12
1/19/44	136	2		.005	1.3	4.1	.10		34.2	2159		2051		26.3275	2.84	none	5.27	-70.24		56.0	37.0	12.2	5.7	4.7	.1	13.7	.25	.12
2/2/44	341	P			.7	5.1	.28		45.4	3151		~~3150~~		50.497			5.5	-56.59		38.0	32.8	17.8	2.7	6.3	.3	10.0	.10	.12
2/12/44	433			.03	3.2	6.43	.15	1.44	73.6	2958		2810		23.0015	7.19	107.42	16.10		48.28	40.0	28.9	20.8	3.7	3.0	.3	9.7	.20	.10
2/12/44	434			.03	1.4	5.5	.15		35.8	2177		2542		25.248	4.94	47.72	5.81	-12.39		56.8	40.1	18.0	1.0	3.0	.7	4.6	.18	.12
2/21/44	520			.022	2.0	4.3	.15		78.8	4461		3753		48.2895	-.22		13.55	-120.29		58.2	47.7	15.5	1.1	3.3	.3	8.5	.22	.15
3/8/44	683	F		.013	1.8	5.6	.14		58.20	3621		3440		32.332	4.52	32.66	10.99	-3.12		60.0	47.6	11.8	2.0	2.0	.5	9.4	.27	.22
3/22/44	785	F		.015	2.0	6.8	.32		132.23	5893		5304		44.31	5.96	124.51	28.80		4.53	52.6	42.6	14.1	1.9	4.3	2.0	9.5	.15	.12
4/20/44	1008	F		.03	10.3	6.9	.40	1.35	465.96	6243		5931		45.239	12.49	451.83	114.45		245.18	39.0	30.8	19.2	1.2	6.0	.7	2.1	.20	.15
4/25/44	1045	F		.015	6.3	5.6	.20		326.9	5810		5520		51.8785	7.63	265.62	77.82		86.03	40.0	31.0	12.7	6.3	5.9	.8	6.2	.20	.12
5/9/44	1153	F		.04	3.9	9.8	.04	1.08	158.7	7976				40.694			35.81		188.88	50.8	43.6	12.3	1.2	3.0	.1	8.6	.12	.20
5/15/44	1246	F		.02	2.1	5.7	.05		86.0	4669				40.9535	4.81	57.74	17.20	-65.95		57.6	43.8	13.2	1.5	2.4	.2	5.7	.10	.10
5/23/44	1315	F		.03	2.0	5.2	.19	.75	50.2	2608		2478		25.08	5.27	49.66	9.78	-16.74		53.6	45.2	10.9	5.6	5.4	.1	8.2	.06	.08
6/3/44	1426	F		.02	8.3	9.5	.35		327.2	9516		8090		44.875	11.76	413.68	73.88		241.12	38.4	21.8	17.2	7.1	3.9	.8	8.9	.22	.20
6/6/44	1448	F		.01	1.1	4.3	.15		30.6	2371				27.837	2.83	—	4.17		-67.52	57.2	37.0	11.5	4.9	3.7	.9	16.0	.25	.20
6/21/44	1505			.04	1.9	3.2	.13	1.07	49.2	1459				25.718	3.76	2.95	9.33		-60.91	68.2	47.8	9.1	2.6	3.7	.9	6.6	.12	.12
6/21/44	1506			.06	7.4	15.8	.21	1.45	141.7	6660				19.177	19.32	312.78	34.33		235.51	40.6	31.2	15.6	1.5	3.5	.6	5.9	.10	.17
									8102	113470				973.671			2437.11		1644.24									
					3.85	6.67			21.551	19892.2		377468		19,722.73			555		56.53									
														2829.145			244266		2987.90									
																	39 8028											
																	6330.28											

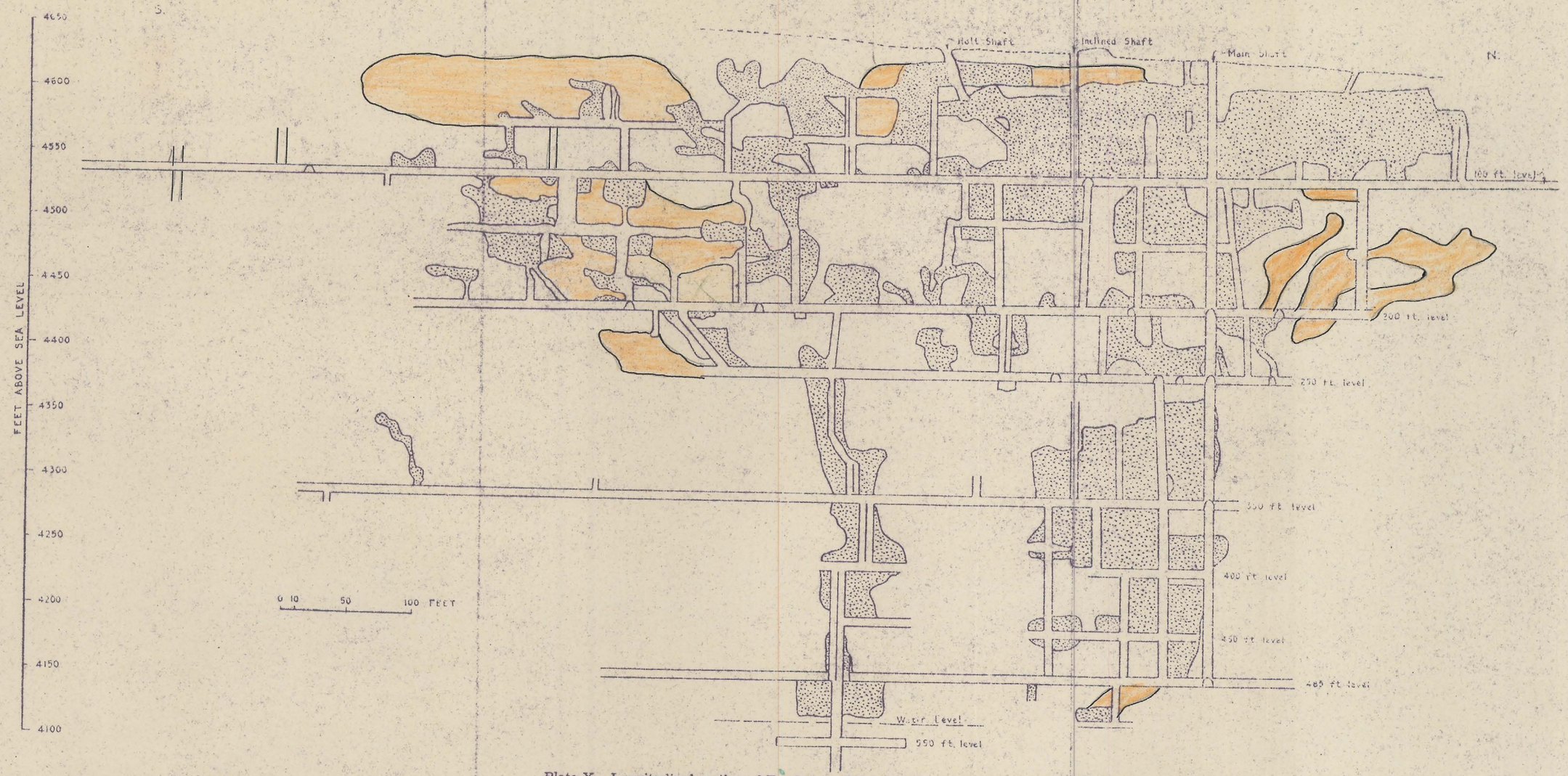

Plate X.—Longitudinal section of Tombstone Extension Mine, looking west. Stopes indicated by dotted areas.