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PRINTED: 05/23/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: O'BRIEN

ALTERNATE NAMES:

COWBOY MINE
CHARCOAL CANYON GROUP

MOHAVE COUNTY MILS NUMBER: 92D

LOCATION: TOWNSHIP 22 N RANGE 17 W SECTION 18 QUARTER NE
LATITUDE: N 35DEG 17MIN 57SEC LONGITUDE: W 114DEG 07MIN 58SEC
TOPO MAP NAME: CERBAT - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

LEAD SULFIDE
SILVER
ZINC
GOLD LODE

BIBLIOGRAPHY:

ADMMR O'BRIEN MINE FILE
ADMMR MOHAVE "U" FILE
ADMMR MOHAVE CUSTOM MILL PROJECT
HAURY, P.S. "ZINC-LEAD MINES IN WALLAPAI DIST
MOHAVE CO." USBM RI 4101, P. 42
A.E.C. PRELIM. RECONN. RPT., 172-485, P. 74
ADMMR O'BRIEN & GOLDEN GEM COLVO FILE

O'BRIEN MINE GROUP

MOHAVE

7/16/92D

Kingman Mining Project - 2 claim maps; 2 u/g section maps;
6 u/g assay maps; 3 u/g misc. maps

See: Mohave County Place Names, by Roman Malach, Pg. 19,
1976, in library office.

NAME OF MINE: O'BRIEN
OWNER:

COUNTY: Mohave
DISTRICT:
METALS: Pb,Zn,Ag

OPERATOR AND ADDRESS		MINE STATUS	
Date:		Date:	
2/46	C. Harold Lounsberry, Seattle, Wash.	2/46	Developing

Claim map - Map cabinet #5
Kingman Merger Mines Co.

COPY

U.S. BUREAU OF MINES, REPORT OF INVESTIGATIONS #4101,
page 42, August 1947.

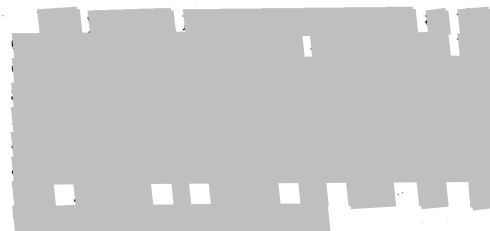
O'BRIEN MINE

The O'Brien mine is situated in Cerbat Wash about 11 miles by road south of Chloride. The property includes six lode claims owned by Mr. O'Brien, who lives near the claims.

There is a steeply inclined shaft said to be 140 feet deep and to have a drift at the 100-foot level. When the mine was visited by engineers of the Bureau of Mines, a headframe had been erected and a hoist had been installed preparatory to unwatering and reopening the shaft. Water stood in the shaft at about 30 feet below the collar. The vein outcrops strongly for several hundred feet north of the shaft but appears to be highly siliceous and poorly metalized. There are no reliable reports on the metal content of this vein.

THE MINING JOURNAL

January 15, 1979 1946



ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

July 8, 1958

To the Owner or Operator of the Arizona Mining Property named below:

O'Brien Group (Mohave County)
(Property)

lead, zinc, silver
(ore)

which we would like to have

report form with as complete detail
as, assay returns, shipment returns
before and which might interest a

Mr. C. Harold Lounsberry
Seattle,
Washington

Insufficient Address
8

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report



ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

July 15, 1958

To the Owner or Operator of the Arizona Mining Property named below:

O'Brien Group (Mohave County)	lead, gold, silver
(Property)	(ore)

property which we would like to have

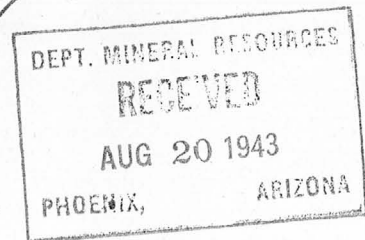
ner's Report form with as complete detail
orts, maps, assay returns, shipment returns
t us before and which might interest a
property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

CHARLES P. ELMER
ATTORNEY AT LAW
MASONIC TEMPLE
KINGMAN, ARIZONA



August 19, 1943.

Mr. Earl F. Hastings,
Projects Engineer,
Department of Mineral Resources,
413 Home Builders Bldg.,
Phoenix, Arizona.

Dear Earl:

Re: O'Brien Mine.

I have your favor of the 18th and certainly appreciate your interest in the development of the O'Brien Mine.

When Mrs. O'Brien received notice of the approval of her loan application she was sick in the hospital here. Since that time we have been endeavoring to comply with Mr. Gohring's requirements and I think we are just about lined up at the present time. As you may know, it was Mrs. O'Brien's desire to secure the services of either Richie or E. H. Crabtree to supervise this work. Richie could not possibly accept, but it looks now as if Crabtree would be on the job within the next ten days.

I hope that Crabtree does get started on this work, but if by any chance the present plans should go astray, I will communicate with you and hope that something can be worked out.

With best personal regards, I am

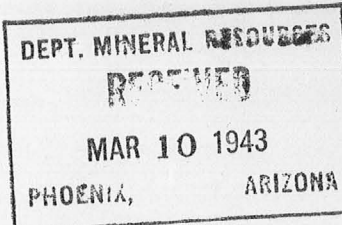
Very truly yours,

Charles P. Elmer
CHARLES P. ELMER

CPE:e

*Our boy Carlos has been
in Hawaii since April -
and likes it very much.*

MEMORANDUM



REGARDING:
Mrs. O'BRIEN'S MINE --
RFC LOAN.

To: J. S. Coupal
From: Elgin B. Holt

Last week I called on Mrs. O'Brien and found her very much perturbed because Mr. Thurstin had made out her application for \$16,500 instead of for \$5,000, as was the understanding when Thurstin and I visited her some time in December, at which time Thurstin asked her to sign the application papers, in order to save time.

To her great surprise and mine also, she received a letter from Phoenix stating that her loan for \$16,500 was turned down. She did not authorize any such loan application. It was understood that the application was to be for \$5,000 with which to clean out the mine and make it accessible for sampling by RFC engineers.

I then went on up to Chloride and asked Thurstin why he changed the application for \$5,000 to \$16,500. He stated he was under the impression that the \$5,000 loans had been done away with; that he had written to Mr. Gohring asking for instructions and that Gohring had answered telling him to make out the applications outlining a full development project in all cases, or something on this order; that he had then made out this application for Mrs. O'Brien for \$16,500 instead of for \$5,000, using his own judgement in this matter, which he should not have done. He should have talked to Mrs. O'Brien, of course, about the application before changing it.

Anyhow, Mrs. O'Brien feels that if the application had been for \$5,000, instead of for the larger amount, she would have stood a better chance to get the loan.

Hence, I suggest you reopen this application with Mr. Hastings and Mr. Gohring with a view to having the application acted upon for the smaller sum,--with a view to having the said application reconsidered, etc.

As for Mr. Thurstin, he seemed to have been confused not only about the application for Mrs. O'Brien; but also in the Harry Lennox case and also with reference to the application by Beauchamp, who is applying for a loan on the Juno mine. Both these latter two cases warranted applications for preliminary development loans and not for development loans. Anyhow, please see what you can do in regard to having Mrs. O'Brien's application reconsidered.

Elgin B. Holt.

E. B. Holt

To:
Mr. J. S. Coupal, Director,
Dept. of Mineral Resources,
413 Home Builders Bldg.,
Phoenix, Arizona.

cc
Mrs. W. G. O'Brien,
Kingman, Arizona.

1st. Lieut Earl Ross Housholder, Ord. Dept.
Nansemond Ordnance Depot,
Portsmouth, Virginia.
Nov. 6, 1942

Mrs. W. G. O'Brien,
O'Brien Mines,
Cerbat, Arizona.

Dear Mrs. O'Brien:

Am serving with the colors which accounts for this stationery.

I am very well acquainted with the O'Brien group of mines in the Charcoal Canyon section of the Cerbat area in the Wallapai Mining District, Mohave County, Arizona. I am familiar with the geology of this district and area. The O'Brien group has been visited many times by me. I have carefully examined the geological conditions there, and found that the dyke-vein, along the big wash as you turn up the wash is on the right hand side, will undoubtedly develop into an important producer. One of the more promising locations for the opening up of a lead-silver, (with some gold) mine, where zinc will undoubtedly come in at depth, is from the old "whim" shaft westwardly. The underhand stoping along this dyke-vein, at the edge of the wash, over the bank to the northerly side of where a double compartment shaft had been once started, disclosed galena, cerussite, carrying silver and some gold. The lead content was high in the ores extracted by the Mexican miner employed at that time in getting out the ore. In my office files I have a photograph of this miner at work in the surface trench at that time, which had just been started. Since then a flood filled in the wash over these workings. There is an important lead-zinc mine to be developed at this point, the ores of which can be expected to carry the usual amount of silver-gold values. By "important," I mean of economic importance.

Naturally, I do not have a map before me at this time, to check distances, but I am quite sure that there is another location approximately 1200' to 1500' further eastward up the Charcoal Canyon Wash from the "whim" shaft on the southerly side of the wash where the geological conditions indicate another ore shoot is present, that I believe will develop into an important mine following intelligent exploration. The location is at and westward from a junction with a dyke cutting from the southeasterly to the northwesterly by direction, and there is a water tunnel used by miners and cattlemen just across the wash to the northerly side of Charcoal Canyon. The place I have in mind you understand is on the southerly side of Charcoal Canyon. The outcrop of the vein-dyke we have been following up the Charcoal Canyon wash has for the most part been entirely on the southerly side of the wash. This same vein-dyke at this latter location is not marked by a strong outcrop. The reason for this is that being impregnated with the sulphide minerals, the oxidation followed by erosion has been able to wear away the outcrop faster than that part of the vein-dyke which contained less sulphides and was more siliceous, and therefore resisted erosion to a larger extent, resulting in this particular case in a relative depression of the outcrop, so far as the physical characteristics of the surface is concerned.

Your group of O'Brien lode claims has other locations having likely possibilities for the development and subsequent extraction of commercial base metal ores such as lead and zinc, but the two I have indicated here should be given first consideration, and it is my opinion that if at all possible the development should be activated as soon as you can do so, as it is my sincere belief that the need for lead and zinc resulting from our war effort, can better be satisfied if the smaller mines of the southwest are put into production and kept in production. Unless this is done, and done quickly, the lack of these essential metals may cause a serious bottle-neck

E. ROSS HOUSHOLDER E.M.

in the industrial war effort for the United States.

Briefly, your available Boulder Dam electric power, and good transportation facilities, supplemented by a locality that permits of all year round operations adds up in favor of your property. Your set-up deserves serious consideration and activation.

Respectfully yours,

E. ROSS HOUSHOLDER, E.M.
Arizona Registered Professional Engineer
License No. 259
Kingman, Arizona.

dated Nov. 6, 1942
at Nansemond Ordnance Depot,
Portsmouth, Virginia

In reply address:

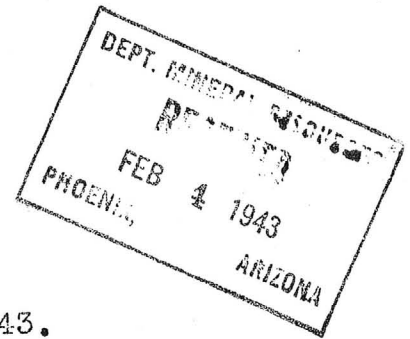
1st. Lieut Earl Ross Housholder Ord. Dept.
Nansemond Ordnance Depot
Portsmouth, Virginia.

Note: All handwritten pages of this report are signed and consist of a total of 6 handwritten pages.

E. Ross Housholder E.M.

O'Brien

CHARLES P. ELMER
ATTORNEY AT LAW
MASONIC TEMPLE
KINGMAN, ARIZONA



February 2, 1943.

Mr. Earl F. Hastings,
Department of Mineral Resources,
Home Builders Bldg.,
Phoenix, Ariz.

Dear Earl:

At the request of Mrs. O'Brien, I forward herewith a letter she addressed to you under date of January 29th, with reference to an R. F. C. loan, which is self-explanatory.

I cannot help but endorse Mrs. O'Brien's views with regard to her retaining title to her property. I feel confident you, as one of her old friends, are as vitally interested in seeing that she is protected as I am.

There is no doubt in my mind that her property does have great potentialities as a lead producer and if Bob Thurston made an engineering report on it, in support of her application, I would have confidence that he made a good, conscientious report.

If there is any possibility of a loan being granted her, I would think that the safeguards with which the R. F. C. has surrounded the expenditure of the money ought to protect the Government. I do not know what engineer she has in mind to take charge of the operation, but it does seem that if she has picked a friend on whom she can depend, there should be no doubt the money will be judiciously expended, if granted. I have it in mind particularly that if she could persuade someone like, say, Ric hie, to supervise the operations, it might result in bringing in a big producer.

Hope that if the application has been properly filed it will receive your thoughtful and favorable consideration, and would much appreciate your advising me the status.

With best wishes, I am,

Very truly yours,

Charles P. Elmer
CHARLES P. ELMER

CC--Mrs. W. G. O'Brien

O'Brien Mines
Cerbati via Kingman,
Arizona.

Jan 29th.1943


Earl F. Hastings,
413 Home Building,
Phoenix, Arizona.

Dear Earl:

Mr Langley called here yesterday to tell me he had talked to you about my property and my having put in an application for a loan and that you had said it was not filed and you did not like the idea of Mr Thurston as the Engineer, all of which I fail to understand. As Mr Holt called on me regarding me getting a loan and as I understood him to say that Mr Thurston was a government man and would make the maps and go over the property regarding the lead vein. I appreciated Mr Holts coming and his interest in my property, I will see Mr Elmer as soon as possible and ask him to write you concerning this matter as I cannot understand what it is all about, the two engineers (Mr Holt and Thurston) came and I went with them as I am quite well again better then I have been for three years, and was able to show them the damage which had been done by the storms and the careless work which had been done by a Los Angeles party who was not an engineer, that is a mining Engineer and lack of finances, therefore I have decided that only can a mining Engineer have charge of the work on the O'Brien Mines, Mr Langley told me he was taking a lot of mines in this district and wanted to arrange for a mill. but he personally would take full management of all the property and would like to have the O'Brien Mines, and wanted me to write you. I told him I would be willing to give him my ore to mill and I would do all possible to help, but this I feel I owe to myself and the comfort of mind if a licensed Mining Engineer is in charge of my property. I have one in view who has known me for many years and is a man who has been successful in his many years of mining. I am following the ideas of my late husband, that is to employ only those who understand mining, Mr Elmer is my Lawyer and I expect him to be my trustee, therefore I am taking every precaution to safe guard my property. I will do all possible to help Mr Langley but my property will remain in my name unless I sell outright, I do not approve of tying up my property with others property.

I am sorry there is this mixup but I cannot understand it, as I have felt if the Gem which has always been a gold producer could get a loan I should get a loan on my lead mine as it was bought by my husband as a lead mine and would have been worked long ago if lead had been higher in price. it was proved a lead mine in 1915, I also have a gold mine also proved of value I told Mr Langley that I had given all data to Mr Dundas but had copies of same here, and Professor Thede said that at six hundred feet the lead came in all base metal so that will be of value to Mr Langley.

With the hope every thing will work out in a satisfactory manner I remain sincerely


W.G. O'Brien

Smith, (Hubert Smith's Son) typed the reports copied from original which was handwritten.

O'Brien Mines,
Dec 21st, 1942.

Dear Earl:-

Thank you for your nice letter, and certain remarks which you stated I deeply appreciate, and will answer by sending you or rather enclosing in this note a report from Ross Houlder which you will appreciate reading and this work which he had done certainly proved a big lead mine, all this before the terrible storm came and destroyed the old shaft and carried away the dumps which I had wanted to send to the smelter but was advised to leave them as it would help greatly in selling my property, I took the lawyers advise and by doing so I lost a great deal. Mr Richardson knew this and has often spoken about it and the loss to me. since all this happened I have managed to keep work on one of my claims until the order to close all gold mines but I also had work done on the gold mine and the lead vein as I stated in my last letter to you, therefore it will not take so much money to put it in shape for me to arrange for the larger amount, I have certain people in view with capital, but I must first put the lead vein in proper showing, my work will all be taken care of by proper mining men, and a first class accountant, all money will pass through the hands of my Attorney Charles Elmer, who will be my Trustee (This is confidential) I thank you for drawing my attention to the bookkeeping matter, I am in no condition to undertake any such work, But I do know how to handle my property by putting men on, which know their mining and can be depended upon. As for Mr Langley I don't feel that he has any desire to work with me. He was to come up and see me but he is gone away and my understanding is that Dundas has no interest in the Gem but was running the mill, all work on the Gem has stopped, no one there all gone you would not know the place all buildings neglected doors of some places tin cans and papers scattered all over the ground, no care taken of the house or cabin, I don't understand as I saw where the Gem had got money for the work from government, My understanding in regards to a government loan of \$5000.00 is that every cent must go to the working development, in other words, putting the property in proper shape for larger work, that is why I feel it best for all money to pass through the hands of my Lawyer, I want every thing done in the most honorable way, I know you will agree with me. I hope and pray you will be successful in getting me the loan, Hubert Smith said only last week I was right to stick to my mining property as there was a big mine there, I am alone in the world and last Friday was my birthday, seventy five years old, that is the truth, Hubert said I should take ten years from that, I just want to help Uncle Sam, and when I pass out all the dear friends I have here in Arizona will be remembered, that is my wish for the coming year to bring me success in proving all statements of former Engineers, who my Husband had examined the property, all high class men, I have done a great deal of Art work lately wish you could see some of it, The loss of my income from the Gold vein has been unfortunate for me, Now I have given you all the camp news, just a friendly letter and a wish for your continued success and happiness through out the coming years,

Sincerely

"Billie" O'Brien

December 11, 1942

MEMORANDUM

O'BRIEN MINE
MRS. W. G. O'BRIEN

TO: Elgin B. Holt

FROM: Earl F. Hastings

Mrs. W. G. O'Brien, Cerbat via Kingman, wishes some information relative to loan applications.

I am familiar with Mrs. O'Brien's property but do not know the extent of the work performed by recent leasers and consequently I am not qualified to judge whether application should be made for the "C" or "B" loan. Would you please contact her and make a brief report on her property.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Granted

Mine O'BRIEN., Pb., Zn., Ag. Date June 14, 1943
District formerly, Cowboy Engineer Earl F. Hastings
Wallapai
Subject: Reconstruction Finance Corporation
Mine Loan

C

Docket No. ND-5346
Date Application Received June 11, 1943
Date of Field Examination (E. B. Holt) January 22, 1943
Date of Report June 14, 1943

1. Name and address of applicant (correspondent):
Mrs. W. G. O'Brien, Box 270, Kingman, Arizona.
2. Character of project and estimated cost thereof:
Pb., zn., ag. Rehabilitate 140 foot shaft and sink same to 200 foot level, develop laterally from that point.
3. Location of property:
Wallapai Mining District, Mohave County, Arizona.
4. Applicant's interest in or ownership of property:
Applicant is owner by location and quit claim.
5. Loan requested:
\$5,000.00.
6. Loan recommended:
\$2,500.00.
7. Comments:
(A) Added to the docket is the report of E. B. Holt, Field Engineer, Department of Mineral Resources, dated January 22, 1943.

(B) This property has been examined numerous times by the writer and at one time was under option to M. C. Richardson and the writer. This option was forfeited to allow the owner to make what appeared to be a more favorable sale. Economics of the "Gold Vein" were more thoroughly studied than that of the Lead-Zinc Vein, although it was intended that the latter be explored from the bottom of the 140 foot shaft.

(C) Miners in the Chloride area, whose reliability were checked in other instances, maintain that the lead zinc vein is 8 feet wide at the 100 foot level of the 140 foot shaft and that there is a streak within the vein of pure galena which varies from 8 to 24 inches.

These claims were substantiated in part by the ratio of high to low grade ore in the old dump which has since been completely washed away by floods. This dump was primary evidence of sulphide minerals below, the dike cropping being badly leached to the greatest depth now visible.

Some galena, in small pieces, is to be seen in the dump at the 36 foot shaft. This dump has been thoroughly hand sorted and the larger pieces of galena sacked and shipped. The residue, mostly composed of waste rock, assays from samples taken

May 14, 1938 as follows:

Au. 0.01, Ag. 1.67, Pb. 1.9%, Zn. Tr.

A 4 foot channel cut at the collar of the 12 foot shaft, soft leached material showing iron stains but no sulphide fragments assayed

Au. 0.10, Ag. 0.34

Galena and pyrite disseminated throughout quartz on the Gold vein where freshly mined and where protected by a hanging wall indicate that this vein is likely to assume characteristics of the developed sulphide veins in the area.

Samples of shipping ore on the blanket vein, where pyrite was most prominent, assayed:
0.67 au. 0.33

Insufficient lead was present to warrant assaying.

Numerous other isolated samples were taken at earlier dates of vein material in place and in dumps. Dumps invariably showed galena and higher silver contents. Surface samples were extremely low grade, as is the case throughout the area.

(D) The strength and continuity of the O'Brien Lead-Zinc Vein is equal to or better than that of the prominent past producers in the area. The cropping rises in greater prominence than the Golden Gem, Vanderbilt, Flores or other adjoining properties. Development is meager and poorly executed.

(E) This loan is being recommended for the following reasons:

1. History personally gathered over a period of 10 years is convincing to the extent that mineable widths of high grade galena exist in the 140 foot shaft.
2. Dump materials lent credence to this belief.
3. Developed mines in the area have shown remarkable vertical and lateral continuity of veins with a minimum of faulting, and have disclosed heavy sulphide mineralization at shallow depths.
4. The property offers extremely attractive development possibilities and is so situated that ores so developed can be quickly marketed.

(F) That part of the loan relating to development is not recommended for the present. An amount sufficient for rehabilitating the 140 foot shaft and the 25 foot shaft is recommended. If the exposures are as anticipated, further financing is warranted.

The shaft was solidly filled by detritus and has therefore not had an opportunity to cave. As this material is removed, it will be necessary to place the shaft sets for some distance from the collar.

It is considered that \$2,500 should cover the cost of making the shaft accessible for sampling. Mucking and timbering costs should not exceed \$10.00 per foot unless lagged sets are required. Hoist rental and incidentals should be amply covered by the balance of \$1,100.00.

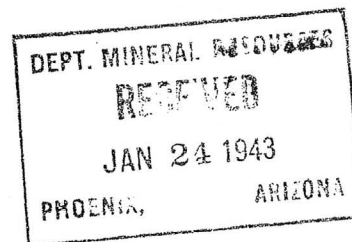
ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings, Projects Engineer

January 22, 1943

O'BRIEN GROUP,
Mrs. W. G. O'Brien,
Applying for RFC
Loan - \$5,000

MEMORANDUM



To: Earl F. Hastings

From: Elgin B. Holt

Attached hereto is my report on the O'Brien Group of claims, located in Charcoal Canyon, near Cerbat, and belonging to Mrs. O'Brien.

Inasmuch as the workings of this property are all caved in and inaccessible, and also as she has practically no data concerning the width of vein and ore values in the underground workings, I had very little on which to base a report excepting hear-say.

However, from what I could gather, it seems there is an ore shoot about 475 feet in length, fairly well proven by the old workings of the mine. Also it seems there is a vein of massive galena in the bottom of these workings from 2 to 2.5 feet wide, from which ore was mined assaying around 48% lead. This is not unreasonable, as there are such shoots of ore in the St. Louis mine, located about a mile east of the O'Brien group. I went through the St. Louis workings with the owner, Mr. Lietzow, and saw a shoot of ore from which he is mining in excess of 45% lead ore, and has been doing so for many years.

The trouble with the O'Brien group is that the main values consist of lead, and if there is any zinc in the ore, Crabtree's assays do not show the same. However, as nearly all other mines in the Cerbats turn into complex zincy ores with depth, it is not unreasonable to figure that zinc ores will be found with depth in the O'Brien property.

Again, the "vein-dike" is most interesting. This huge outcrop would lead one to believe that large bodies of ore will be found with depth in the mine.

As you have seen the property, and, as I understand, did some work there, you know the mine better than I do. So do the best you can, as I would certainly like to see this loan approved. In all events this property should make a lead mine of considerable value, zinc or no zinc.

Elgin B. Holt

Elgin B. Holt.

*Thurston arranged with Mrs. O'Brien to draw up her application; but he was called to L. A. last week, and perhaps did not finish it before he left. He is expected back any day.
E. B. H.*

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine O'BRIEN GROUP

Date January 22, 1943

District Wallapai Dist., Mohave Co. Ariz. Engineer Elgin B. Holt

Subject:

R E P O R T

OWNER: Mrs. W. G. O'Brien, Box 270, Kingman, Arizona.

METALS: Lead, gold and silver.

AREA & LOCATION:

This group, consisting of 17 unpatented mining claims, is located in Charcoal Canyon, adjacent to the old town of Cerbat, Mohave County, Arizona, about 12 miles north of Kingman.

EXAMINATION:

This property was visited by me on December 23, 1942, in company with Mrs. W. G. O'Brien, owner, and R. A. Thurston, a mining engineer, residing in Chloride, Arizona. Inasmuch as all of the workings of the property were caved in and inaccessible, this report, in part, deals with the physical characteristics of the property, on the one hand, and is compiled from reports by E. Ross Housholder and E. H. Crabtree, both of whom are mining engineers, as well as from statements by Mrs. O'Brien.

HISTORICAL:

According to Mrs. O'Brien, her husband purchased the property in 1915 and during the following years carried out considerable development work on the same, consisting of sinking several shafts on a high grade vein of galena-silver ore. He only made one shipment, leaving most of the ore extracted on the various dumps, which were piled in Charcoal Canyon wash. She stated that a part of this ore averaged 48% lead, and that it was left on the dumps per the advice of her attorney, who stated that the said ore would add value to the mine. However, all of the ore was carried away by a cloud burst, etc.

GEOLOGY:

The country rock of this area, embracing the foot hills of the Cerbat Mountains, is composed of pre-Cambrian/~~granit~~-gneiss complex, intruded at frequent intervals with later quartz-porphyry dikes.

VEIN-DIKE:

Galena-silver-gold ore occurs in a fissure vein, around 2.5 to 3 feet wide, striking N. 48 deg. W. and dipping 75 deg. N. E. Said vein is found in about the center of a quartz-porphy dike, 30 feet in width. The said vein and dike form one huge outcropping traceable on the surface for the length of seven claims. This outcropping is referred to by engineers, who have examined the property, as a "VEIN-DIKE". Hence, geologic conditions are most pleasing, and it is believed if this property can be adequately financed, equipped and managed, and in the event a/^{vertical} shaft can be sunk, adjacent to the vein-dike, to a depth of 500 feet, with cross-cuts and levels on vein at 100-foot intervals, that such work will result in uncovering a goodly supply of high grade galena ore, carrying the other metals mentioned, out of which considerable money should be made. Also with greater depth, zinc sulphide ore (sphalerite) should come in, as soon as the primary ore zone is encountered; or in other words, deeper-seated primary ores in this/^{property} should carry zinc, lead, gold and silver; this condition being characteristic of the Cerbat Range in which this property is located.

MINE WORKINGS:

I have before me a longitudinal section map of the mine workings of this property, with assays plotted thereon, by E. H. Crabtree. This map shows the main ore shoot to have a length of 475 feet, and which is developed by five shafts, the deepest of which is

140 feet. The next shaft is 52 feet deep; but the depth of this shaft, as noted on the said map, is 36 feet. It was deepened after the said map was made. The following shaft on the ore vein has a depth of 12 feet; and the next sunk in the foot wall has a depth of about 12 feet also. The last shaft, sunk on vein, has a depth of 25 feet, and is located at the extreme northwest end of the said main ore shoot, as far as can now be determined. However, other important ore shoots will no doubt be found at other points on the vein-dike, which, as stated, crops out on the surface for the length of seven mining claims. All of the said mine workings are caved in and full of water, excepting the two 12-foot shafts referred to.

ASSAYS BY CRABTREE:

Shaft	Au, ozs.	Ag, ozs.	Pb, %
140'	0.02	14.94	25.19
140'	0.08	3.12	-----
12'	0.10	1.54	9.49
12'	0.00	0.64	9.39
25'	0.02	3.32	26.96
25'	0.08	1.60	46.00

NOTE: Crabtree estimates that should the said ore shoot, with a length of 475 feet, as stated, be blocked out to a depth of 500 feet, 114,508 tons of ore would be exposed by such work.

ACCESSIBILITY:

The O'Brien Group is reached from Kingman, by following paved highway 93 in a northerly direction a distance of 8 miles; thence easterly, up Cerbat wash, 4 miles; thence south up a sand wash one-half mile to property. The last half mile of road referred to would have to be reconditioned at a cost not exceeding \$250.

Elgin B. Holt
Elgin B. Holt.

L-16 O'Brien ^{This specimen is now catalogued in the ADMR Museum}
MINER SPEC. IN FOR DEPARTMENT OF LIE BY AN. ARCHIVES K085

(Do not write
in this space)

(Wrap each specimen separately, or place it in a substantial
bag, by itself, with a number attached, identical with the
number on this card.)

Ore _____

Cabinet _____

No. _____

Specimen No. 31, collected by Robert E. Morrow
Field Engineer

Name of ore Lead-Gold-Silver Operator Ges. Shipp. + Associates

Minerals contained _____ Mine active or inactive Active

Gangue _____ If inactive, when operated Harry Miller

Depth at which taken 100 ft. Specimen presented by _____

Approximate mineral content (in terms of
average per ton) *35 to *200 per
ton Date Sept 4, 1940

Notes. (Any general information regarding
the history of the property.) _____

Name of mine or claim Billie O'Brien

Group _____

District Cerbat

Location (distance and direction by high-
way from what town 11 mi. N. E. Kingman

Owner of property Mrs William O'Brien If more space is desired for notes, use
other side.

15.5 X 6.5 X 6.0 cm

PROPERTY GROUP MAP SHOWING ESTATE OF Kingman-Gold-Silver-Lead Merger Mines Company

COMPRISING THE O'BRIEN GROUP OF LOSE CLAIMS
WALLAPAI MINING DISTRICT

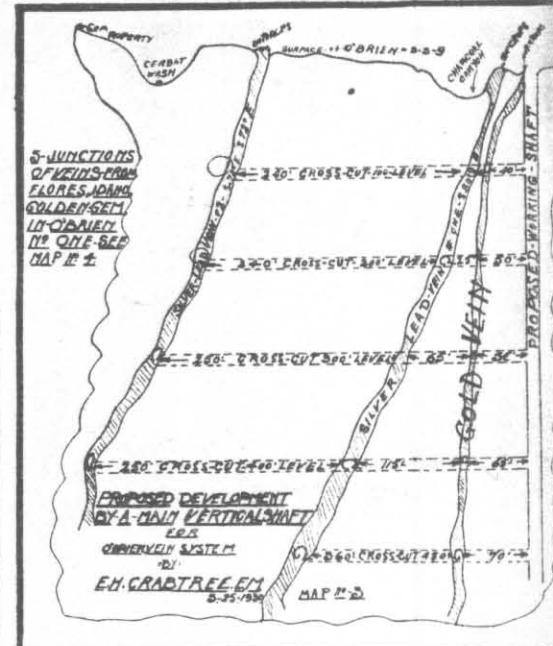
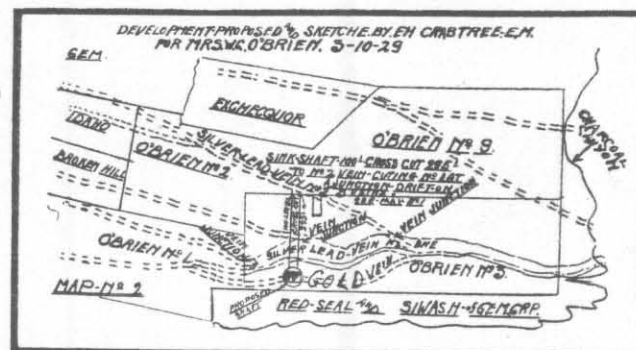
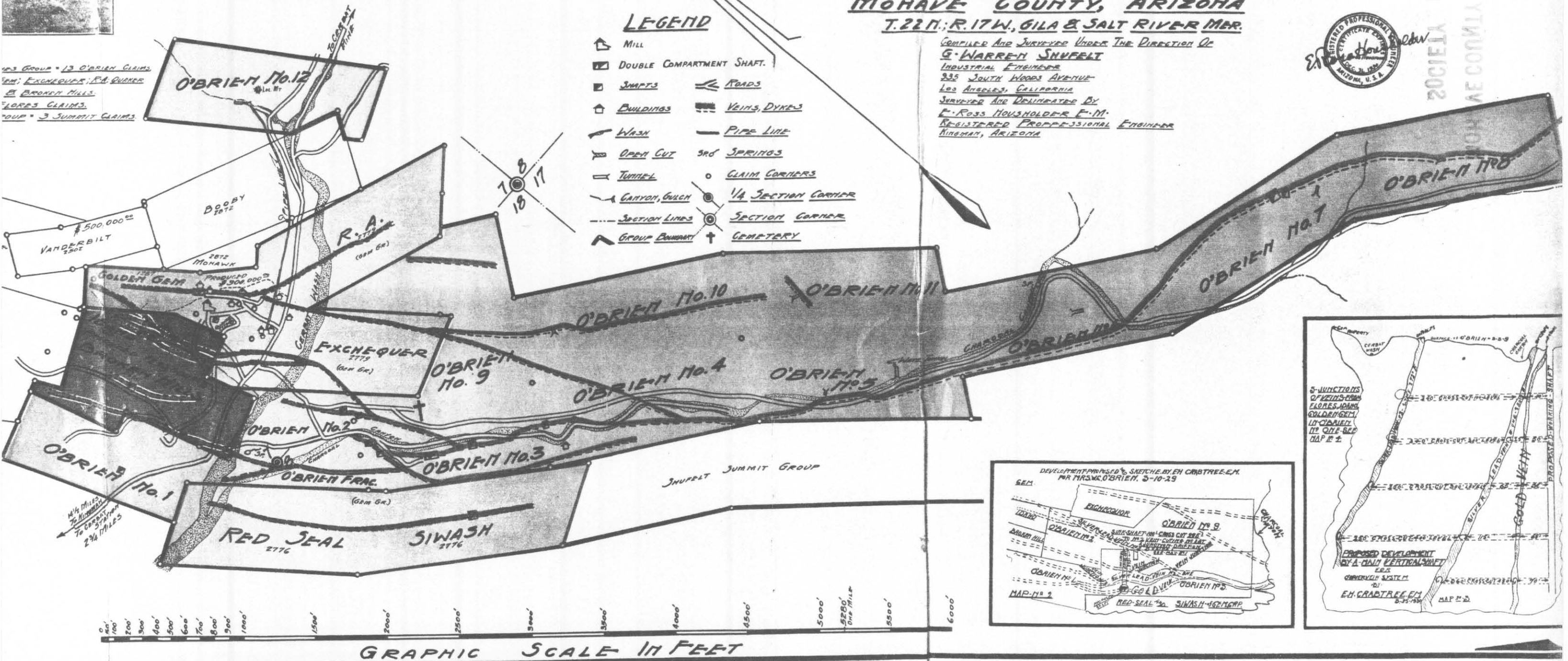
MOHAVE COUNTY, ARIZONA

T.22N.; R.17W., GILA & SALT RIVER MER.

LEGEND

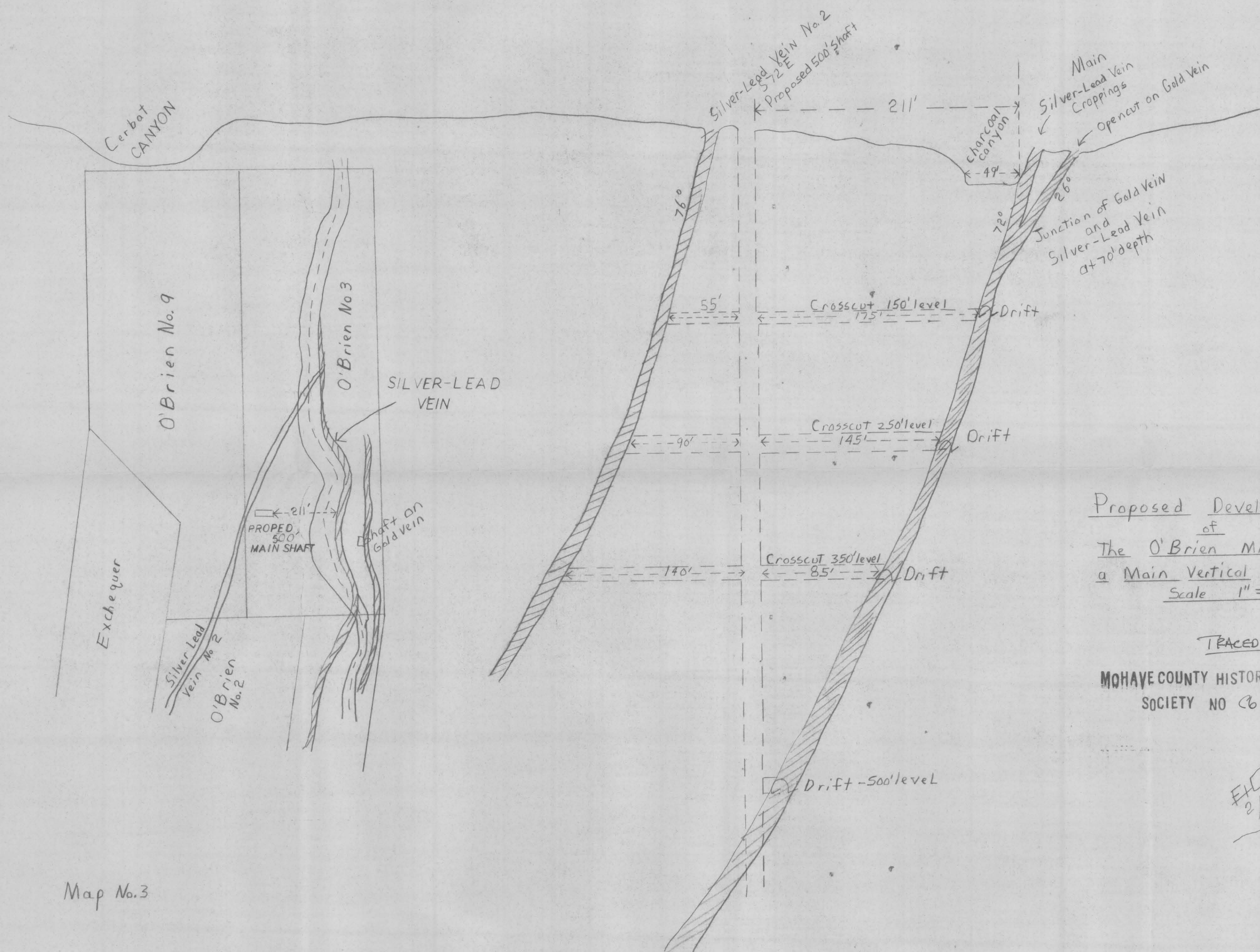
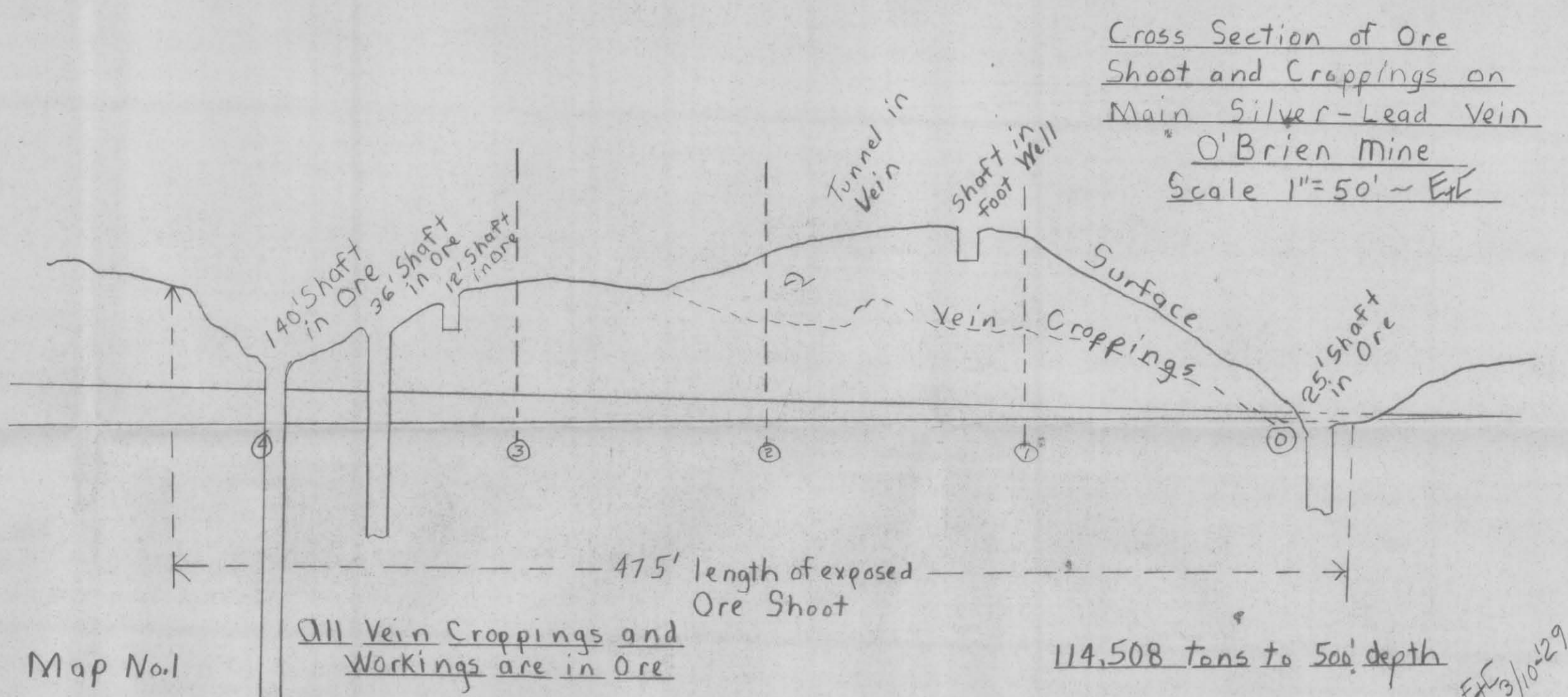
- | | | | |
|---|--------------------------|---|--------------------|
| ▲ | MILL | — | ROADS |
| ▣ | DOUBLE COMPARTMENT SHAFT | — | VEIN, DYKE |
| ■ | SHIFTS | — | PIPE LINE |
| □ | BUILDINGS | — | SPRINGS |
| — | WASH | ○ | CLAIM CORNERS |
| — | OPEN CUT | — | 1/4 SECTION CORNER |
| — | TUNNEL | — | SECTION CORNER |
| — | CANYON, GULCH | — | CEMETERY |
| — | SECTION LINES | | |
| — | GROUP BOUNDARY | | |

COMPILED AND SURVEYED UNDER THE DIRECTION OF
G. WARREN SHUFFELT
INDUSTRIAL ENGINEER
235 SOUTH WOODS AVENUE
LOS ANGELES, CALIFORNIA
SURVEYED AND DELINEATED BY
E. ROSS HOUSHOLDER E.M.
REGISTERED PROFESSIONAL ENGINEER
KINGMAN, ARIZONA



COMPILED BY
E. ROSS HOUSHOLDER E.M.
REGISTERED PROFESSIONAL ENGINEER
KINGMAN, ARIZONA

ADMMR 0265-008



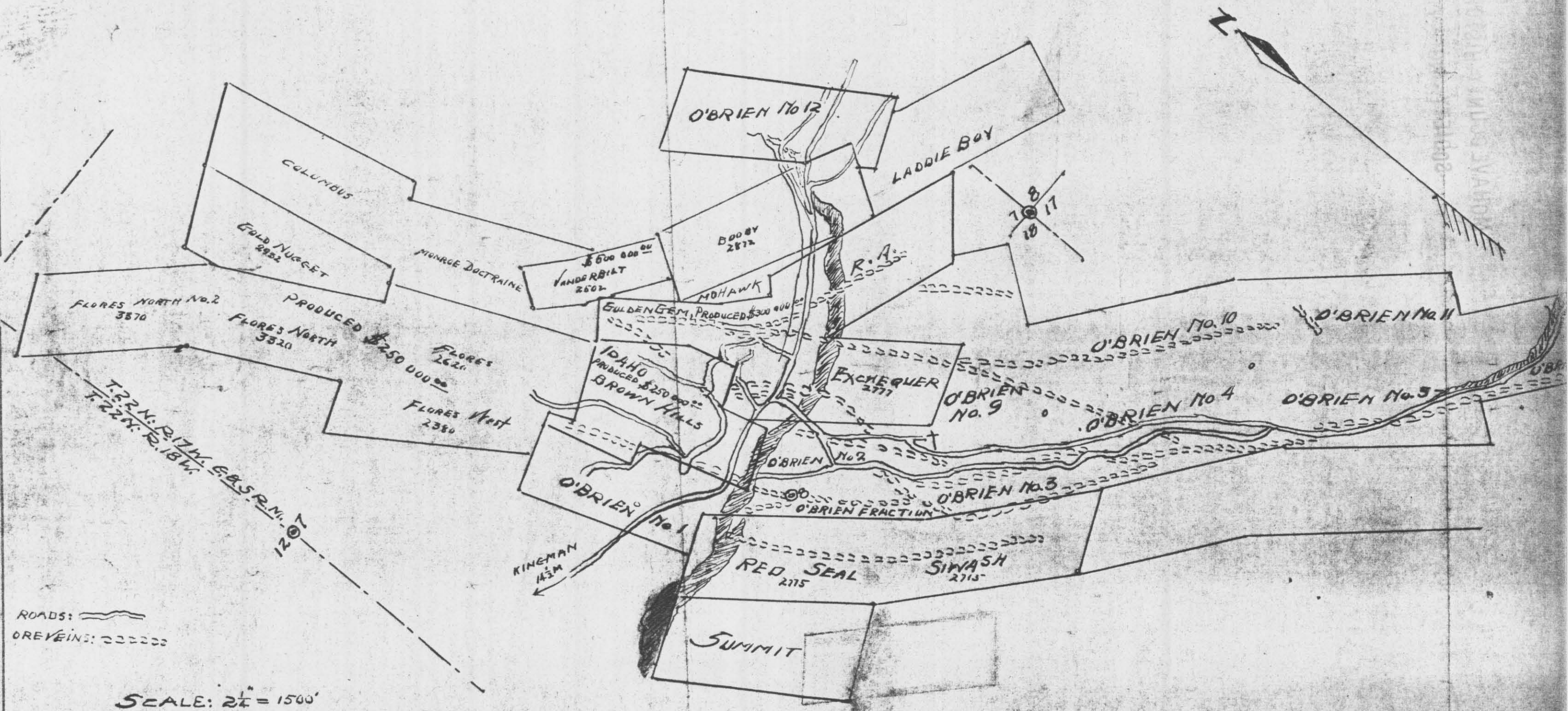
Proposed Development of The O'Brien Mine by a Main Vertical Working Shaft
Scale 1"=50'

TRACED 4-19-88

MOHAVE COUNTY HISTORICAL SOCIETY NO CB-314

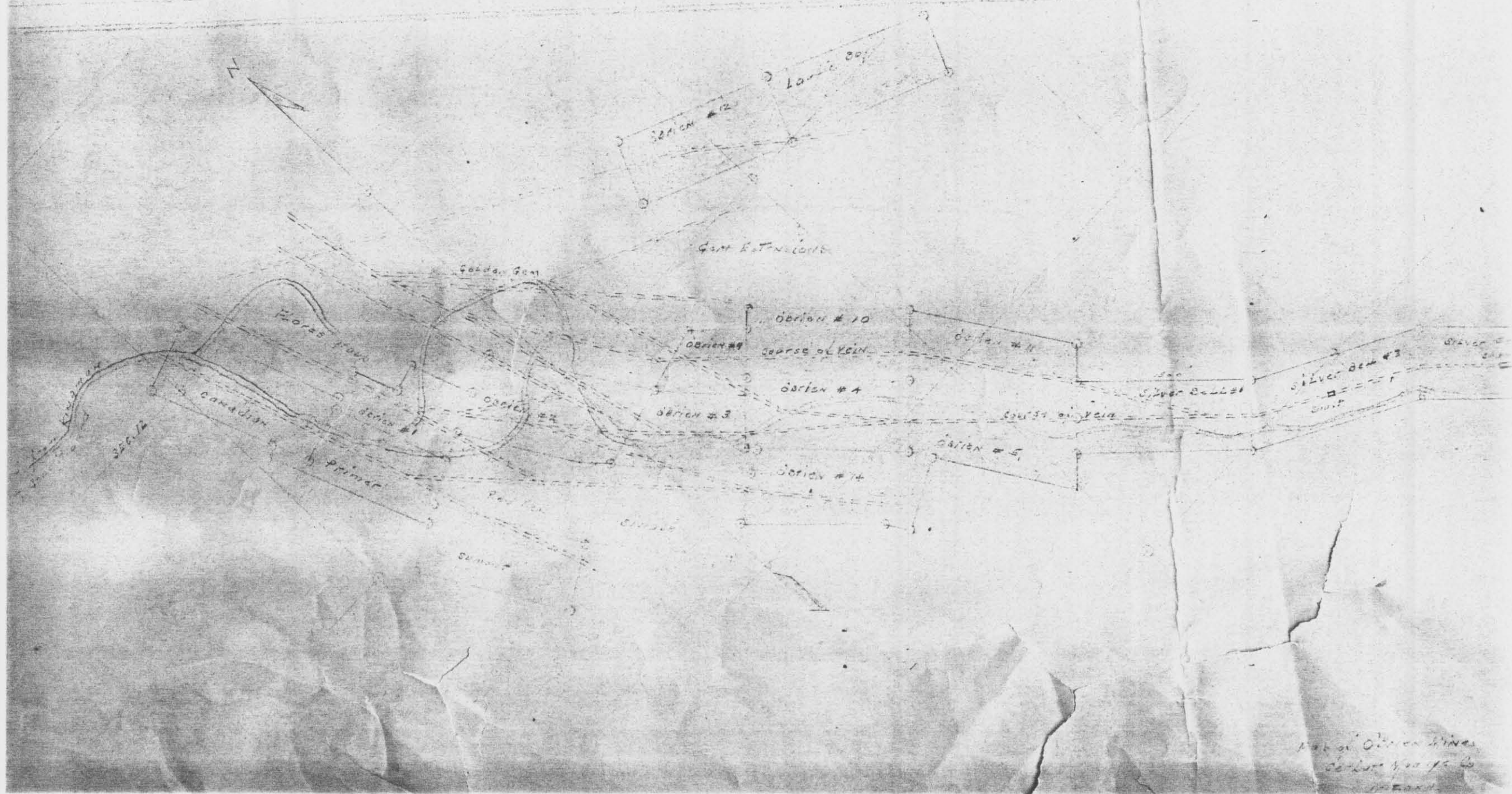
E.H. 2/8/1929

ADMNR 0265-005



(Note: This map was traced from
map made by E. L. Cook & Co. Inc.
— 1905 or 11-12-10

ET 77



ADMMR 0265-004

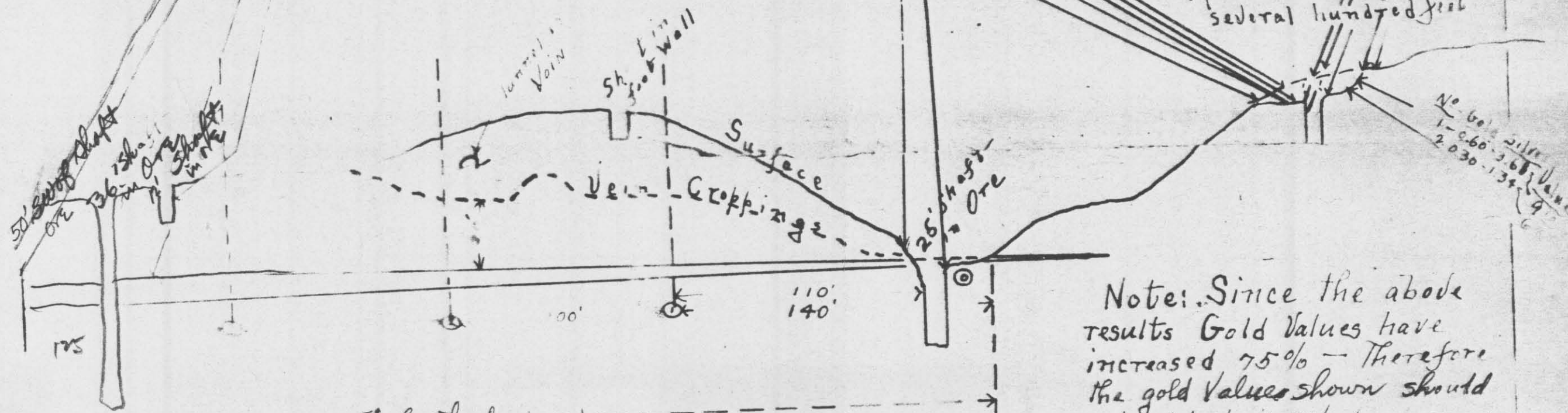
Sample No.	Gold oz	Silver oz	Lead %	Value
0991	0.02	3.32	26.96	39.10
48516	0.08	1.60	46.0	50.90
124	0.02	14.94	25.19	47.89
1	0.08	3.12		1.53
125	0.10	1.54	9.49	17.71
110	0.0	0.64	9.34	9.74

all above from large Silver-Head vein
Average Value \$27.41

Sample No.	Gold oz	Silver oz	Value	Lead %
0105	0.58	10.92	28.29	2.29
0106	0.62	0.74	12.79	
119	0.22	2.90	4.61	
0126	6.62	9.44	161.53	
0127	0.36	7.20	17.16	6.0
2	0.36	1.04	7.51	
3	0.58	1.38	12.01	
	0.88	1.12	17.94	
	2.12	2.64		
	4.96	2.73	46.02	

all above from Gold Vein - Average = 50

Croppings and Surface Cuts
expose Gold Ore for
several hundred feet



Note: Since the above results Gold Values have increased 75% - Therefore the gold values shown should be 75% higher.

all Vein Croppings and workings are in ore

75' length of exposed Ore Shoot

Estimate of
114,508 tons to 500' depth
on completion of pt.
posed 500' shaft assuming
ore is continuous in vein

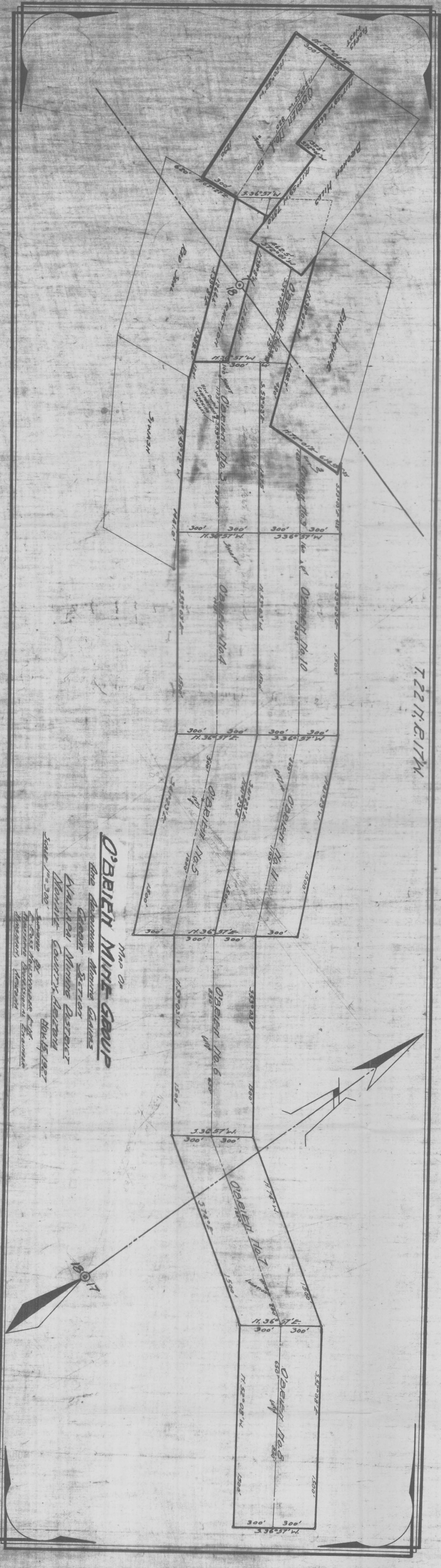
Assay Map 271

Cross Section along Gold Vein
and Silver-Head Veins

O'Brien Mine
Cerberat, Mohave County

ADMR 0265-003

ADWD 0865-002

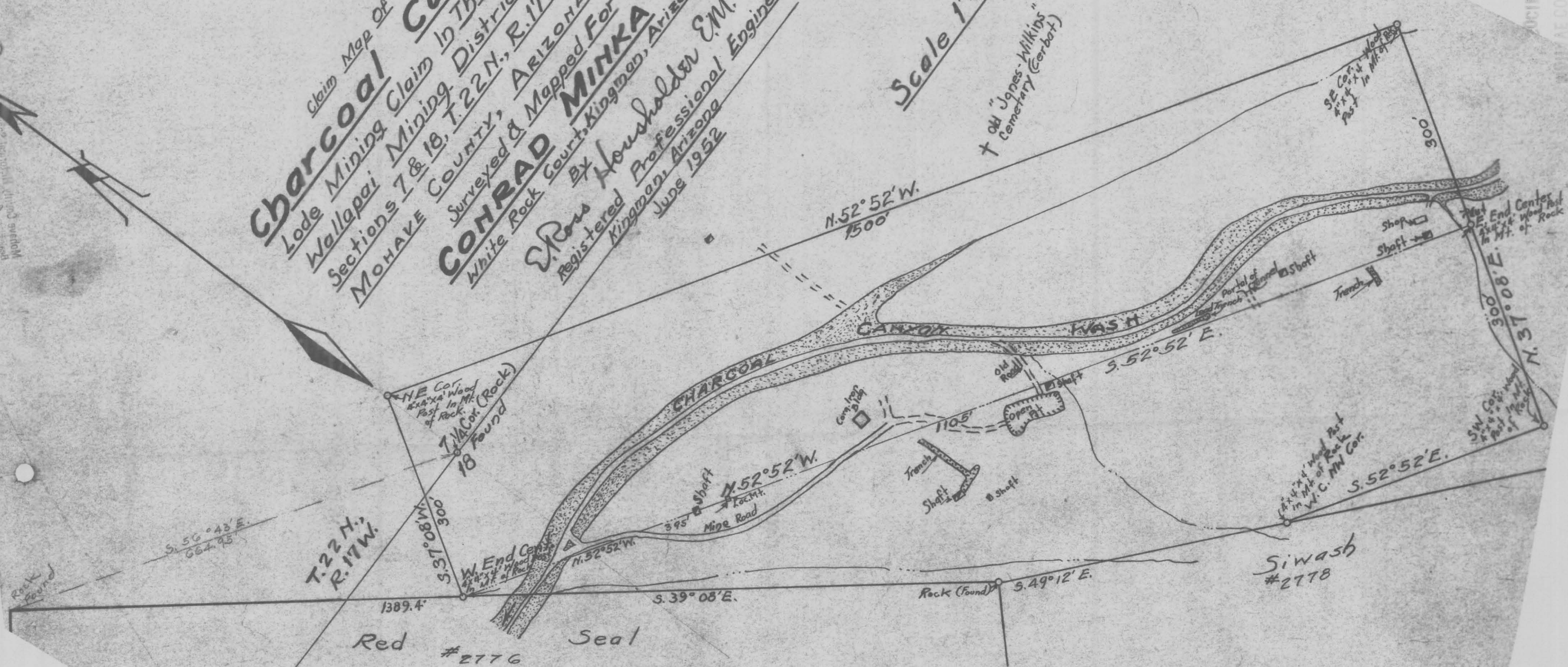


Map of
O'BRIEN MINE GROUP
The Above-named Mining Claims
Cesar Section
Walla Walla Mining District
Walla Walla County, Oregon
Dated 1927
Surveyed by
J. C. Harrison & Co.
Portland, Oregon

T. 22 N. R. 17 W.

Claim Map of
Charcoal Canyon
 Lode Mining Claim In The Cerbat Mts.,
 Wallapai Mining District In
 Sections 7 & 18, T.22 N., R.17 W., G&S.R.M.,
 MOHAVE County, ARIZONA
 Surveyed & Mapped For
CONRAD MINKA
 By **Ed Ross**
 Registered Professional Engineer #257
 Kingman, Arizona
 June 1952

Scale 1"=100'



ADMUR 0865-001