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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ARROWHEAD GROUP

ALTERNATE NAMES:

THE GREEN SERPENT  
EAGLE POINT

YAVAPAI COUNTY MILS NUMBER: 75

LOCATION: TOWNSHIP 16.5N RANGE 9 W SECTION 36 QUARTER C  
LATITUDE: N 34DEG 46MIN 10SEC LONGITUDE: W 113DEG 09MIN 17SEC  
TOPO MAP NAME: BURRO MESA - 7.5 MIN

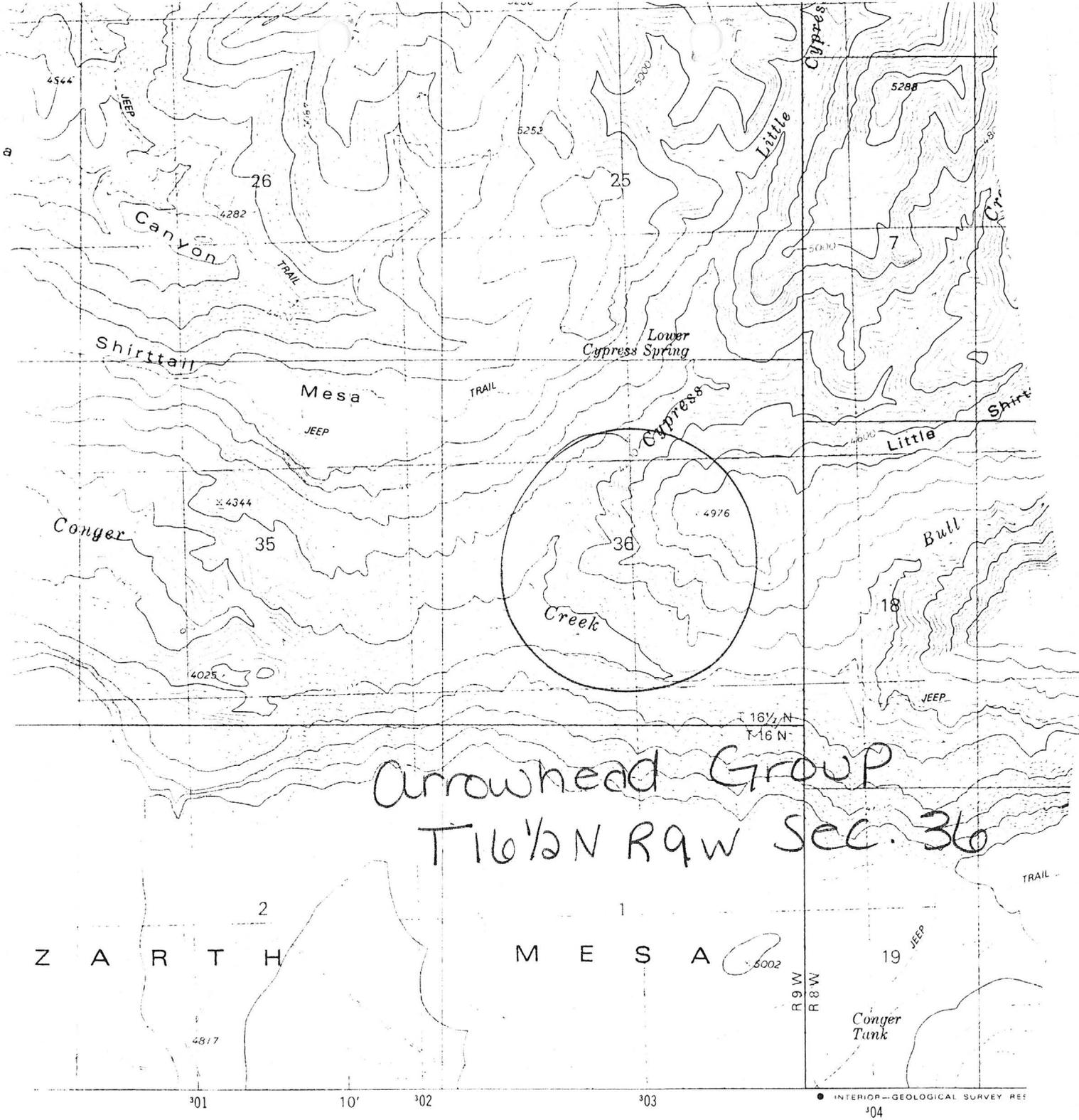
CURRENT STATUS: EXP PROSPECT

COMMODITY:

SPECIMENS ICELAND SPAR  
GEMSTONE AGATES

BIBLIOGRAPHY:

ADMMR ARROWHEAD GROUP FILE  
CLAIMS ALSO IN SEC. 35



NET  
M. OF 1929

STANDARD  
50225, OR RESTON, VIRGINIA 22092  
IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface	Light impr
Secondary highway, hard surface	Uni
Interstate Route	U. S.

Burro, L  
7.5-1 BT  
WINE, WOOD, & WATER, INC.  
ART, MAP SHOP & GALLERY  
Phoenix, Arizona

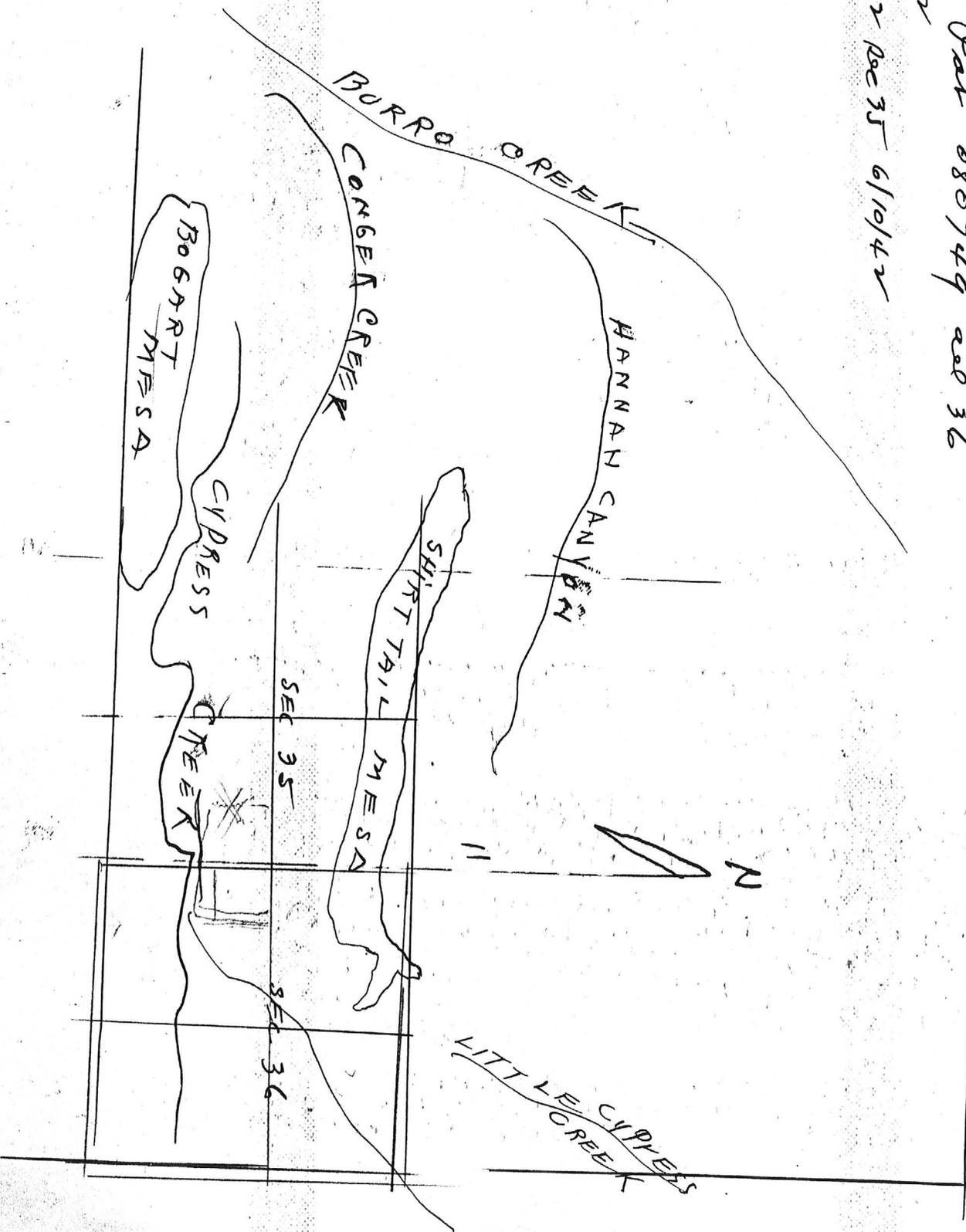
35 is old with minerals  
Returned to W&A  
36 is also minerals & well!

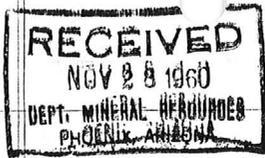
State app for Pat 080749 200 36

12/21/42

080624 - 82 Dec 35 6/10/42

Twp 16 1/2 N  
RNG 9 West





Campwood, Arizona  
arrowhead Mine Camp  
Nov. 18th - 1960

Lewis & Smith  
Field Engineers  
Department of Mineral Resources  
Mineral Building, Fairgrounds  
Phoenix, Arizona.

Dear Mr. Lewis & Smith:

I received your letter of Oct 20th 1960 - a few days ago - I only get my mail about once in each 30 day period; hence the delay in answering your letter, for which I apologize.

In regard to the jasper you mentioned in your letter I do have jasper on my claims of fath tan color and red.

I not only have jasper, but several other kinds of semi precious gem stones which I mine from veins - especially three gem stones that are named after me as the finder - namely - Schulferrin, a lavender colored rock with crystalized fern like figures in it - then there is - Schellbase - a pink colored rock also has fern like designs in it; then there is a tan colored rock with fern like designs in it - looks like a wheat field that has been fracted. - all three cut & polish beautifully. - I also have monstone in my claims - I mined out one chunk of monstone that weighted 10 lbs; it polishes pretty too

I furnished the white jade that went to make the Cross, in the all jade window that Mr. James L. Kraft put in the New North Shore Baptist Church, in Chicago - If you want real information on it I suggest you procure a book called "Rockhounds in the Making" by Marguerite Beymer. It can be purchased from P.B.S.W. Book Store in Prescott for \$2.50 plus tax, and it has a picture of the window as well as an article written by Mr. Kraft regarding how he went from Alaska to Arizona in search of white jade of suitable quality to use for the window.

That window is the most costly church window in the world; as well as the only all polished rock window in the world and it contains polished jade in every known color - people come from all over the world to see it - especially the orient.

My own article written by my self, follows Mr. Kraft's article in the book -

That book would be a real good addition to the Dept. of Mineral Resources.

And now let me tell you that my arrowhead group of claims are not in "Copper Basin" as stated in your letter -

But are 26 mile north west of the Camp Wood Post office; - and I do still own them - and mine out and sell the ore from them. Hoping this

will be of help to you and best wishes to you

Come see my claims some time

Yours very truly

Mrs. Bertha Ellis Schell;

Camp Wood, Ariz.  
Arrowhead Mine Camp  
April 8<sup>th</sup> 1953

Mr. Charles F. Willis  
528 Lillard Trust Bldg.  
Phoenix, Arizona

Dear Mr. Willis: — Enclosed you will find my check for \$5.00 for the special expense fund; I regret that the amount isn't more — and it might well be \$50.00 or more if it was not that I have to battle these law suits to hold my claims here and the cost of law suits and attorney fees just keep me fled dry financially as you probably know they can with a small miner.

You perhaps remember some years back, in about May 1944 — when some cattle men had caused trouble by advising the State Land Dept. that my mining claims were not mineralized and that my mining was a "mere pretence".

The State attempted to obtain patent on all the land in Sec. 36 and some in Sec. 35-T 16 1/2 N. R. 9 W. — I had to hire a lawyer who at that time was a Mr. B.H. Gibbs.

There was to have been a hearing in Prescott, and I regret very much that it was never held — due to a conference between the State Land Commissioner, Mr. C.C. Williams and a resulting stipulation

which was prepared by Mr. Frank Yoder, field examiner in charge of hearings from Albuquerque, N. Mex. and Messrs. C.E. Busch and Cutter field examiners of the Dept. of Interior at that time -

and signed by my attorney and Mr. C.C. Williams. The Stipulation applied to 4 of my claims here in Sec. 36 and one claim (The Green Serpent claim) in Sec. 35, all of which were located and recorded before the land had been surveyed - all were considered to be valid claims and took the surface as well as the mineral -

as a result of the Stipulation there were 240 acres set out of this Sec. 36 as federal lands and a certain part of Sec. 35 was also claimed as federal about 80 acres -

as a result of a mistake made in plating the ground I had to make a survey of the Green Serpent claim also one claim in Sec. 36 and the plats were corrected and maps made and copies were sent to the State Land Department - the Dept. of Interior and I also have a copy of each - so they all know where these claims lay exactly.

Later on a cattle man attempted to secure the grazing lease I held on the 400 acres in Sec. 36 which the state did get patent to and that did not contain any of my claims - a hearing was held before the ~~the~~ State Land Dept.

in Phoenix and of course this decision was against me - I appealed it to Prescott to Superior Court and in that case I was represented by J. E. Russell. and the State Land Dept. decision was reversed and I was granted the lease since I had held the lease before and had every right to prior right to it.

at the same time I had a Taylor grazing lease on the E  $\frac{1}{2}$  of E  $\frac{1}{2}$  sec 35 and in which a portion of my Green Serpent claim lays.

Another Cattle man, a Mr. W. J. Wooten, applied to the State for a selection on that land over my Taylor grazing lease - and was granted a lease upon it altho my Taylor lease was still in effect.

He put up a fence obstructing my trail to the mine -

when my lease expired I applied for a renewal and was informed that the renewal was ~~invalid~~ not farth Commis since the land was being held in suspension pending an examination by a field examiner -

later on Wootens State lease, which was invalid because the State did not have patent to the land, was renewed and soon he sold out and he sold that invalid lease to the new owners -

Later on in 1950 I learned that in ~~May~~ <sup>or June</sup> that year the State had patented

that E  $\frac{1}{2}$  E  $\frac{1}{2}$  of Sec. 35 - there by disregarding their stipulation - the valid Green Serpent Mining Claim and all -

There is 37 feet in width and full 1500 feet in length of that claim in the E  $\frac{1}{2}$  E  $\frac{1}{2}$  and I have done my work faithfully on that claim - during the war Martarium I filed my exemption every year - then later I done a mile of new road with pick and shovel to attach another road to use and it is used to the benefit of the claim for sure and another year I done work on and near the discovery - last year I done the work on another vein taking out over 100 lbs of good agate which sells at \$2.00 per lb.

I have sold are out of that claim and have the records of my sales since the orders came to me by letters and I shipped by insured parcel post and some times C.O.D. orders all of which I have the records of.

One order of the green are went to Banaras India to be used for Educational purposes in the Colleges there.

Now Mr. Millis it looks to me like, if the State Land Dept. can get away with disregarding their stipulation on that claim and patenting it - that they will do the same thing on these 4 claims in Sec. 36. and put me out of

business.

Now Mr. J.E. Busch, I understand is with our Department of Mineral Resources and he will, I think, remember all about the deal of previous years.

I hesitate to ask for help again from you for I feel I have already seen a burden - yet if I don't do something before Mr. Busch might not be there it would be more difficult - so I come to you with my trouble.

I petitioned the State Land Dept. in Sept. 1950 to cancel that lease and as usual they turned me down - then I appealed it to the Superior Court in Prescott and a trial was held - almost 8 months passed before a decision was had, during which time the Whites, who now own the lease had the judge down to their ranch on a hunting + fishing trip, and when he made his decision he failed to state any facts or findings - so my attorney, who is Mr. Elmer Coker of Phoenix, - ask you the facts and findings - when I read them I find that all the records were disregarded and the case was decided in the favor of the Whites - (a Mr. Robert White and Betty White, his wife)

On March 16 - my attorney was in Prescott and argued the case for a new trial - the decision of which I do not yet know - However no matter who gets the lease, the State

had no right to patent that part of the land that was covered by a part of the green serpent claim -

If this is let stand as it is; later on when I want to patent my mining claim it will only involve another law suit because of that overlapping patent.

The land Commissioner Mr. W.W. Lane has a copy of that stipulation and has read it according to his statement made at the hearing held in his office when I petitioned for the cancellation of the lease to the Whites.

In the ~~facts~~ and findings of facts of superior court of Pinal County and in conclusion of law this statement is made and I quote;

"5. That the State of Arizona was, prior to the appellants filing of petition for cancellation of lease, and is now, owner in fee simple of the land covered in State land lease No. 41445 - N and said lease is a valid lease."

apparently the State claims even that part of my claim.

Now I ask you what good was it for the Dept. of Mineral Resources to send a field engineer out here (at that time it was a Mr. B.W. Brown) and the Dept. of Interior to send in two engineers - Mr. Busch and Mr. Cutter - I paid an attorney over \$250.00 at that time and Mr. Frank Yoders a field examiner from Albuquerque was called upon to

formulate a stipulation, all the trouble and expence - and then that State Land Department ignor their part of the Stipulation.

And as I say again if they can do it on that one claim then they will try it on my other claims and not only on my holdings of Mineral Claims but on other miners who have similar problems.

That fence that Wootan put up on my green Serpent claim the result of the State having gave him a lease on land before they even had a patent on the land has

Caused me great inconvenience by cutting me off from the access trail I had built to pack tools etc. over to the mine to work with; Since the gate he put in is not on the trail but away off down the fence and is so narrow as to be almost impossible to get an animal thru with a wheel barrow packed on it.

That fence also has me cut off from the exclusive right of possession and enjoyment of all the Surface included with in the lines of the location.

I am sure Mr. Busch will remember the in Convience of this fence.

It is not a lawful fence but it prohibits my stock from going on the claim eather while they are being packed in & out with

ore are tools or while they are just running loose.

I am writing my present attorney, Mr. Elmer Coker, whose office is in the Bank of Douglas Bldg. in Phoenix and asking him to Co-operate with you in every way possible if you do decide to help me out in this dirty deal.

Any time the Dept. of Mineral resources want to send an engineer up I shall be glad to show him over the ground-workings and the lay of the land - However Mr. Coker has a copy of Mr. B.W. Browns report and Mr. Chas. Heberkers report on the situation.

Mr. J.S. Coupal also once made a report on these claims.

I have just recently purchased a ultra violet Ray mineral light - and the ore of that green Serpent claim certainly shows a great amount of fluorescence - I also had one assay on it that showed a small amount of nickel - there is also an assay of gold on that ore.

Much to my surprise I have picked up a little Scheelite in this Canon with my mineral lamp - I dont know yet just where it comes from.

If you happen to be in Prescott, dont miss the chance to drop into the Bank of Arizona, and have a look at the colored photograph of the all fade window

that was financed by Mr. James L. Kraft of the Kraft Foods Co. in Chicago.

The window is the only all cut, polished Stone (Jade) window in the world and is also the most costly window, and it is in the New North Shore Baptist Church in Chicago - It is  $7\frac{1}{2}$  ft. in high and 3 ft wide - and the white jade in the window ~~was~~ that makes the white cross, was furnished by me from one of my claims here.

Mr. Kraft wrote me that it was a real good quality of white jade - and white jade of good quality is quite rare.

Some of it comes with the green serpent ore.

There in the Bank of Arizona along with the color photo of the window is a pamphlet wrote by Mr. James L. Kraft about the different people who worked and supplied the material from which that window was made.

If you just happened to be in Prescott and went to see it you might get an idea for a write up on it in "Our pay Dirt."

and now I am going to close this letter and I will go out after my mail in a week or 10 days and I hope I'll have a letter from you as I'll be very anxious to have your opinion on this deal here. I am enclosing two other letters of a sort but thought it best to write them separate.

Sincerely Mrs. Bertha E. Schell.

Camp Wood, Wis.  
April 17 - 1958

Dear Charles Willis; - I finally got into Prescott where I learned that the judge of Superior has refused me a new trial - so now my only chance is to carry this on up to Supreme Court.

I am sending my attorney Mr. Elmer Coker \$350.00 today to start the proceedings of appeal, with instructions not to start it until almost May 15th which is the dead line date.

I am writing him to cooperate with both you and Wm. Matthews in any way he possible can.

I am enclosing a news paper clipping and picture of myself

from the messenger newspaper  
here in prescott - Date March 20-53.

If you are interested in really knowing  
how scarce and rare the white jade  
is that I supplied for this window  
mentioned in the newspaper, you

could have your book store  
order a copy of the book called  
"Rock hounds in the making"  
by Marguerite Beymer - whose  
address is, The Dalles, Oregon.

and in it read the article on  
page 66 - which was written  
by Mr. James L. Kraft of Chicago.

There is also an article following  
his, written by myself. There  
are many other articles of interest  
in that book by ~~the~~ Rock people  
of all over the country. The book has

just come out very recently.  
and should be of interest to every one  
concerned with mining or especially  
gemstone miners in Arizona.

I am going home to "my Canon"  
tomorrow and will have to pack  
in the truck load of supply for  
2 days - then I'll be working for  
several days on my claims and  
on Friday April 24th I plan to come  
to my mail box for my mail -  
and I surely hope I have some  
word there from you.

The appraising attorney called my  
Green Serpent claim "a chalk  
mining claim" - I'd like to see  
an engineers report on it from  
the Dept. of Mineral Resources - as

-4-

against his calling it "a chalk  
mining claim".

of course I have copies of  
the previous reports the engineers  
made on it or that is my attorney  
has them in his possession at  
present.

Thanks Mr. Willis for all the  
help you have gave me in the  
past and any you may be able to  
give me in this deal.

If you plan to send anyone in  
try to let me know as soon  
as possible.

yours very resp.

Mrs. Bertha E. Schell

Camp Wood, Arizona

Arrowhead Mine

Camp Wood Arizona  
Arrowhead Mine Camp

Jan 25<sup>th</sup> 1946

Charles F. Willis  
528 Title and Trust Bldg.  
Phoenix Arizona.

Dear Mr. Willis: I am enclosing a \$5 bill to pay a dollar each, for my husband's dues and my own dues; and it is only necessary to send pay dirt to me as I always read it to my husband any how, and you can save the other copy for some one else.

The \$3 which will be left over you can add to the Washington fund; it is such a small amount I am ashamed to send it, but I am a very small mine owner - and I'll be a lot smaller I suppose after "that" State Land Commissioner gets thru with me. He is after my hide again and this time I fear I'll not do so good for I doubt if I can obtain help in the matter.

You see my lease on the State section 36  
 T 16 1/2 N R 9 W - was to expire on Oct. 2nd, <sup>1945</sup> and I  
 received notice to that effect and that I could apply  
 for a renewal with in 60 days before the date of  
 expiration - The notice did not inform me that  
 I must apply for renewal at least 30 days  
 before the date of expiration in order to be intitled  
 to the preference right to renew my lease.  
 I was tied up here with a lot of work and did  
 not get away to go to my mail box or to Prescott  
 until on September the 6<sup>th</sup> at which date I  
 applied for renewal of my lease; and the letter  
 was mailed that day - however the State Land  
 Dept claim they received it on Sept 10<sup>th</sup> -  
 and on Sept 14<sup>th</sup> a Harry Knight - a cattle  
 man who lives in the Forest reserve about  
 12 mile from here, made application to the  
 lease.

I have had the lease the past five years and  
 have most faithfully paid up my fee always  
 in advance, some times as much as 30 days  
 or more in advance, so I should be in good  
 standing along these lines.

of course the Land Commissioner could have issued me the lease had he wanted to and rejected Knight's application but as Mr Gibbs the attorney told me and I quote "to mention miners or mining to the state Land Comm. was like waving a red flag in front of a bull"

well there is to be a hearing in phoenix - I do not know yet how soon or what the date is set for - as Mr Gibbs is trying to have the date set back in order to make it more convenient for us to get out because of the snow and mud and such roads as we have to travel over.

Knight claims in his statement of equities that my mining here is a pretense just to hold grazing range for my cattle. He also claims I am running 35 head on the range; That is a false statement for I own only 20 head of cattle.

I need the few cattle to furnish myself in milk butter and meat - but far more than that I need that grazing lease because unless

= 4 =

I can have the grazing on some land here other than my few mining claims I can not maintain my pack animals and saddle horses. and you know Mr. Willis how essential a pack burro string is in developing these far off prospects.

If I cant get that lease on Sec 36-T16 $\frac{1}{2}$  N. R. 9 W. then I am sunk - I can not keep my burros & 2 saddle horses up in a pen and buy hay & grain in Prescott and haul it 75 mile in the trucks then pack it two or three mile to feed them. I'd be spending too much time at that and not mining. Harry Knight has many sections of land while I ~~have~~ had only one and one fourth sections; and to deprive me out of the lease will be equivalent of putting me out of business -

You may be interested to know that by my main strength and awkwardness I have developed here some very fine gem ores. I have quite a collection of polished gem stones all from my own claims here and

I have sold quite a little gem material sending it out thru the post office and as it went mostly C.O.D. I have all the records for it.

I do not have a claim that I have not sold some kind of material out of and some claims I have past office records of several kinds that I sold, besides the mutahic assays I have on the books on my claims.

I'm sure our friend Mr. F.S. Conpal will be pleased to know that I have worked out as much nice gem material as I have to show from here. I mined 26 lb. of real nice amethyst one day and have one polished set of it in my collection.

I'll probly be called on to show at least some of my finished gems at the hearing - Mr. Gifts advised me to bring them along at that time anyway.

I talked to Johnie Russel - (we are all friends if you dont already know it) and he told me he would be at that hearing - I hope you may be there too -

I'll sure feel a lot better with a miner minded person or two near me. I'm sure Mr.

A. L. Flagg will come to back me up if he can

arrange to spare the time on whatever date they set for the hearing.

I am going to write him regarding it.

I also will want Gabriele Russel to testify to one question for me if he can or still remembers about it.

I wonder if you know that one of our large copper producing mines used a string of pack surras up until a few years ago - The Bag Dad copper co. had an old mexican there with surras packing wood from cedar trees that grew on the surrounding hills for use in the camp and I believe at one time to fire some kind of a boiler or pump system which worked by steam.

Now Mr. willis I'm not real sure of this that I am going to tell you - but I'll know for sure soon so I'll tell you any way.

I think I have a huge deposit of nickel ore here and if it is it will be one of the biggest things ever - tons & tons of ore -

and a huge supply of water right near it.

When Bill Brown of the mineral resources was here and examined my claims in May of 1944 he told me I could keep an eye out and expect to find "Some kind of rare mineral around here"

This stuff comes in a dyke and is from 15 to 60 feet in width and can be seen crassing the mountains for two or three mile; with smaller ledges breaking off from it and running for some distance; not exactly parallel see in a similar course.

This country simply has not been prospected.

I am taking in some of the ore to J. Bryant Kasey at prescott - I hope he can handle it for me as far as an assay goes.

I know I could send it to the university at Tucson but I'm never quite sure of it then.

I sent in our cards nominating Johnnie Russel to take that place vacated by Billie Graham - as I thought Johnnie would be a good man for the place since he knows both minerals and Law.

I see by the paper that the prescott people are sponsoring Grace Sparks for that place

and I think she is the most wonderful person for it; and of course Mr. Schell and I will back her to the limit.

I did not know that a woman could hold the place but if we can get her in we will have the most intelligent brain on the job and she is a "go getter too".

When you see Johnie Russel ask him about the peralite ore I took down to him - he knows of the deposit up near here.

He can tell you that I'm not just "peddling hot air" when I tell you of the minerals up here.

I've read every thing I can get to read about the way nickel comes - of course my supply of reading material is limited - but the more I read of it the better I think of it - it is not located yet.

I hope I'll see you when we have to be down to that hearing when ever it is to be.

I have seen plans on setting up a lapidary here and sawing & polishing my own gem stones - but every now & then these cattle men break out with the statements that I have

No mineral on my claims and I have to spend all I have saved up for my lapidary and a lot more on top of it

I wish I had forced a hearing the last time - but Mr. Gibbs just went ahead and signed up stipulations without my knowing what was in them or my consent either - I'm wondering if they didn't sort of handle him.

If I had my way I'd charge to Johnnie Russell for my attorney in this case - but I am at a quandary - I don't know what to do.

I'm sure of one thing - if I don't get my State land lease renewed by the hearing before the State Land Commissioner - I'll carry it to the district court which would be in Prescott and I'll sure have Johnnie handle it then.

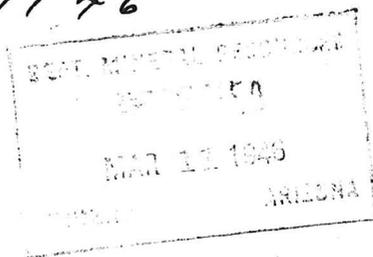
If there is any advice you can give me I'd sure appreciate it.

Sincerely  
Mrs. Bertha E. Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Camp Wood Arizona

March 10<sup>th</sup> 1946

Department,  
The Mineral Resources ~~Bureau~~  
Home Builders Bldg.  
Phoenix, Arizona



Dear Sirs:— you will remember our recent visit to your Dept. and the last morning we were in there while I was talking to Mr. Dunning Mr. Schell said he had his reading glasses on while looking at different specimens. After we got up as far as Prescott he missed his glasses and he thinks he may have left them some where in your office.

They are in a dark colored case and it has O. Q. Hestia - name in side of it - the jeweler of Prescott Ariz. also inside with the glasses are one or two small pink colored cloths to clean the glasses and these pieces of cloth have Dr. Robinson's Name on them also from Prescott.

The glasses are rimmed with dark color shell rims and one of the lenses is real thick while the

other is real thin.

They are very expensive because they are especially made and fitted to his eyes, and I doubt if we can even get them duplicated at this time.

If you find them and Mr. Necker is coming up just wrap them carefully and let him bring them up - otherwise please pack them well and mail them by insured mail to the address below.

I will pay you for the postage and trouble when we come down in this case.

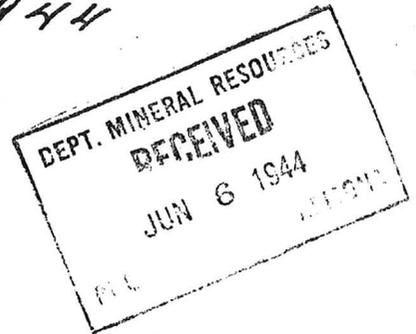
Sincerely

Mr. & Mrs. Hardy Schell  
arrowhead mine camp  
Camp Wood  
Arizona,

(Mrs. Bertha E. Schell)

Camp wood, Arizona  
arrowhead mine, Camp  
June 3rd - 1944

Department of Mineral Resources  
304 Home Builders Building  
Phoenix Ariz.



Dear Sirs: On May 13<sup>th</sup> or there about a Mr.  
B.W. Brown, field engineer, of Prescott, Ariz. made  
an examination of my claims, and turned in to you  
a report on them - I wonder if you will be  
kind enough to please send me a copy of  
that report.

I shall greatly appreciate it if you will  
be so kind as to mail it to me.

Enclosed Stamps

yours very resp.

Mrs. Bertha E. Schell  
arrowhead mine Camp  
Camp wood  
Arizona

Camp Wood, Arizona  
June 3rd - 1944

Mr. J. S. Coupal  
Phoenix, Arizona



Dear Mr. Coupal: - just a few lines to thank you for the wonderful help you gave me in my difficulties with that State Land Dept.

It was so fine of you to send Mr. Bill Brown out here to my place - he himself was wonderful and gave me so many helpful suggestions.

I was happy also to have Mr. Busch and Mr. Cutter. They were fine and Mr. Busch especially helpful.

I feel that had I not had the help you gave and Mr. Willis also that that land commissioner would have made it hard for me.

I doubt if we small mine holders can ever expect any thing but forced justice as long as he remains in that office - and I wish my ~~more~~ mere vote could vote him out of there.

he has got a fur in my hair every since  
 he got in that office; and this time he cast  
 me quite a little sum of money and then  
 after I did obtain help and got all fortified  
 to battle him he merely backs down  
 and leaves him self all unscared and no cast  
 to the state to show his dumfness.

of course the thing is not completely won yet  
 but I feel they will ease off for a time at least.

I ask Mr. Gibbs to make sure there was to be  
no come backs at my claims here.

I hope you have had a chance to talk to Mr.  
 Brown and that he has told you of the nice

Scalenehedron that he took out while here.

I had opened up a cavity and seen in it the  
 Scalenehedron and I left it in there hoping some one  
 would come to witness my taking it out so I could  
 use it as evidence at the hearing; so when Mr. Brown  
 come that was fine; he took it out of the hole;  
 marked it for identification. He said: "it is a  
 museum specimen" it will weigh between 7 and 10 lbs.  
 I wish I could show it to you - I dont believe they

are plentiful in Arizona.

Mr. E.D. Mills from Tiger Arizona was to have been here to examine my claims and perhaps make a deal on them the 22nd of May but he never showed up. I suppose the Land Commissioner got his work in on Mr. Mills and he decided not to come.

I had a deal on once before and that State Land Dept. knocked it out.

I am sorry to learn that you and Mr. Willis are not in the Dept. of Mineral resources any longer - I am sure all of us small miners are going to miss you with a lot from the Dept.

I hope we won't lose track of you or that you won't leave the State. Arizona needs men like you & Mr. Willis whose hearts are with the mining industry.

I hope we will see you again someday - and that you will be very successful at any thing you may undertake. Hardy joins me in a million thanks for what you have done for us and with kindest regards and Best wishes Ever and always your friends

Bertha and Hardy Schell  
Camp Verde, Ari.

Mr Charles G. Miller

This is just an idea to be taken for what it is worth, and passed on or not as you wish.

In pay Dirt for February - 20 - 1953 - on page 11, I read the article of the need of a local market for Tungsten ores or concentrates.

There are at least 5 tungsten mines in this area, - the farthest one of them not more than 14 mile away.

This canon has plenty of living water and I have a water right perfected that calls for 5000 gallon per day for mining purposes and I also have a recorded mill site here. If Mr. Roger O.C. Manning wanted to come in and look the situation over, I'd be glad to show him around - and point out certain possibilities - such as a good chance for water power for ~~electricity~~ electrical power and water for a mill at the same time. There is a road of a sort to with in 3 mile of here and when one knows the lay of the land as I do it is readily seen that a good road can be built into this canon with out too much expence. While it is not just exactly central yet it would be a lot nearer to haul to than to Bishop, Calif.

The water supply here is fed by a large Spring upon which I have a mining claim located.

and the water supply never varies since surface rains have nothing to do with it.

If a tungsten mill was put up here it would make one more payroll in Arizona and keep money in the State rather than have it go to California.

I believe I could sell my claims and the water right here along with the mill site but I'd rather see it go into something that would be of benefit to more miners.

I think it would be of quite a benefit to Bagdad copper mine which is only about 12 or 15 mile away - but I don't believe they have ever heard of it; and if any one would tell them they probably would doubt the amount of water that can be had here.

I just thought I'd tell you of this and if you want to work out something I'll cooperate as best I can.

Sincerely  
Bertha E. Schell.

A question to be answered by Johnie Russell in pay dirt - since not only myself is interested but several of my prospector friends.

Some years back a man owned and was working a tungsten property - He acquired a government loan of \$20,000.00 on it.

Later on he abandoned it - Many thought it was patented and would belong to the government because of the un-paid loan.

Up on investigation it was learned that it had not been patented and since it had layed idle for a good many years; it is evidently open for location; no work having been done on it.

Question - If one was to locate it now would that party locating it be responsible to the government for the \$20,000.00 loan of the past?

It is on the Forest reserve.

Bertha E. Schell

Camp wood Arizona  
Arrowhead Mine Camp  
Nov. 8th - 1948

Mr. Charles H. Dunning  
Department of mineral resources  
Phoenix Arizona

Dear Mr. Dunning: - Almost a year ago  
I received a letter from a man from  
Benares, India, who told me he had  
been referred to me by the Dept. of mineral  
resources as one who could sell him some  
certain kinds of Gem materials.

I certainly appreciate your Dept.  
telling him of my Gem stores.

It takes a long, long, time to get  
a letter to India and the answer back  
from there:

I sent him some small samples and after  
a quite a lapse of time (about 3 months)  
I received a very complimentary letter saying  
that the samples were of "Superb"  
material.

I had labeled each piece of gem stone and quoted a price on each per pound.

I was ask to check the cost of our postal rates on 5 lb. lots of the gem materials - which I did.

There is quite a lot of "Red Tape" to be gone thru in order to ship gem materials into India

as no one is allowed to import it or export it, "except for Educational purposes for use in their Mineral Schools and Colleges"

I went to our post office in Prescott and obtained all the necessary information as to postal rates etc; then I submitted quoted prices and the amounts for postage to be added.

Just recently I received a letter stating that this prospective purchaser has applied for an import licence and that as soon as it is obtained, he will

= 3 =

then send me the order with a Bank draft on a New York bank to cover all charges, and then I will ship to him the gem materials he is ordering.

I thought you would like to hear about this - I think too that Mr. J. E. Busch would like to know of it.

I feel that it is quite a record for me to ship gem materials to Benares, India, which is half way around the world - The purchaser is definitely an Indian - not our kind of Indian but a Hindu. His name is Munshi Ambika Charan & Sons.

address

16/32 Biti Hatia  
Benaras,  
India.

This is true facts in face of all the statements made by the cattle men about my mining here being "a mere pretence".

I think it would make a good article for Charley Millis to put in pay Dirt and if he chooses to use it he is welcome to do so.

I have been doing real well with the sales of my gem stones since I won the case in the prescott court and the cattle men have crawled in their holes for the time being at least.

I sold an order of gem material of one peticular kind to Mr. James L. Kraft, of the Kraft food Co. of Chicago, Ill. that weighed 25 lb. and it brought \$4. per lb. or \$100.00 total. He sent it to be analyzed and the experts claim it to be an intirely new & different gemstone so they have named it after our name and added the word "fern" to it making the name of the new material "Schellfern".

It cuts & polishes beautifully - Mr. Kraft made me up a froch out of it and mounted it

in gold - and sent it back to me as a gift.  
Needless to say I am very proud of it.

If you would like me to send down a  
small piece of it for display in your  
Department of mineral resources just drop  
me a line and I'll be happy to send it  
at the first opportunity I get to go to the post  
office.

I am deeply indebted to your Dept. for the  
help given to me during my difficult times  
of conflict with the cattle men and I  
wanted to write you and let you know  
that your effort was not all wasted  
and that I did have some thing here  
to prospect and develop on my mining  
claims.

Thank you again for the many favors.

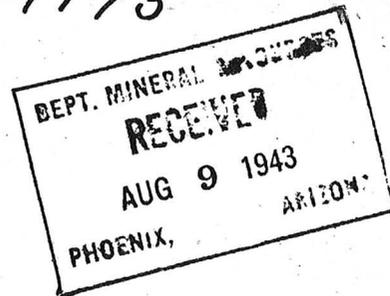
I am sincerely  
Mrs. Bertha E. Schulf.  
arrowhead mine camp  
Camp Wood,  
Arizona

Mr. Willis, I do not know if you are acquainted with a Mr. Wm Mathews who puts out the Arizona Daily Star of Tucson, I have written to him at length in regards to the way the State handled my lease and the manner in which Wooten made false statements when he put in his affidavit to lease also when he renewed his lease.

I am not sure he will be interested but in case he is I thought I might make you and he might like to work on it together. I realize that he has nothing to do with the mining part of it and that you have nothing to do with the leasing part of it. But I thought it best to let you know this. Sincerely Mrs. Bertha E. Schell.

Camp Wood Arizona  
arrowhead mine camp  
Aug. 3rd 1943

Mr. J. S. Coupal  
Dept. of Mineral Resources  
Phoenix Arizona



Dear Mr. Coupal: - I am writing you at this time to see if you will please help me out by writing to the Commissioner of the General Land Office of Washington D.C. regarding my mining claim named the Sunburst.

I am enclosing a decision made by him and because a field examiner claimed and turned in a report that the claim was invalid because it was made as a placer claim when the mineral was in lode form.

The only mineral contained in this claim is Iceland Spar and quartz crystals both of which come in nug holes and loose in the soil - the nug holes are in hard rock

but since the minerals are non-metallic  
 I acted upon a suggestion once made by you  
 and located it as placer ground - Mr. Elgin B.  
 Waldt also told me Iceland Spar should be held  
 as placer claims even gave as example the  
 Iceland Spar mine in California which is in  
 production and is being held as placer claims.  
 There is absolutely no lode or ledge to be  
 found on my Sunburst claim.

It is true some Iceland Spar comes solid out in  
 vug holes in the volcanic formation which is  
 blanket layers.

I have filed application for an appeal to  
 the decision on the Sunburst claim also  
 the Eagle point nos 2 & 4, and no 3 which the field examiner

The State is trying to patent the land and I  
 am making a battle to hold my claims.

How I wish we had Wm. Alberto back  
 in our State Land Dept.

Hardy and I were to the Saw mill about a

left out.

Week ago and we came home with a pay  
Dirt - after we went to bed I looked forward  
to great pleasure in reading my pay Dirt.

Make you can imagine my Shock when the  
first thing I got my eyes on was the item  
about "our" Billie Graham.

I woke Hardy up to read it to him and  
we were so sorry & felt a great loss.

We talked for into the night not falling  
like sleep.

How I wish I had known before that Billie  
was a Blacksmith at Cripple Creek Colorado.

My Father who died a year ago the 16<sup>th</sup> of  
April at the age of past 75 in Trinidad Colorado.  
was a Blacksmith in and around Cripple  
Creek Colorado in the early days. Working  
mostly on wagons. I'll bet he and Billie  
knew each other in the good old days. For  
people were not so thick & plentiful at that  
time & place then.

My Fathers name was John H. Reid - you may have heard Billie mention him.

My grandfather was a pardner and wagon maker and helped to start up the old Decator wagon Factory at Decator Illinois. I was fern praised in Colorado.

If you have time look in Desert Magazine for June on page 36 you will find an article about me put in there by Selander Quirk and that little item has gone far to making a producer out of my claims - I am selling green material

at 25¢ per lb. Sagenitic agate at \$1 per lb. also many pseudomorpho - some iceland spar and some opal all because of that item - all shipments being made when convenient to make the p.o. and all for cash and F.O.B. or the other fellow pays the postage.

I am taking out an order this time that goes to a California fuyer by express C.O.D. The fuyers havnt the gas to go to the mountains so I am sending the mountains to them in order

5

that they can get gem cutting material. They all have been well pleased so far with what I pick out to send.

even one shipment went to Ft Collins, Colo.

Hoping to see you some time soon and dont you get the invitation to come up & hunt deer still remains - Billie had expressed his desire to take advantage of the invitation some time so now dont you put it off too long.

Yours Sincerely

Mrs. Bertha E. Schell

arrowhead mine camp

camp wood

P.S. Hardy sends his best <sup>Arizona</sup> wishes to you

February 6, 1946

Mrs. Bertha E. Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Dear Mrs. Schell:  
CHD:TB

Mr. Charles F. Willis has referred your letter of January 25 to this office for reply. He enclosed a copy of his letter to you dated January 30.

The problem appears to be a question of your right under the State laws to renewal of a State grazing lease on that portion of Section 36 not held by you under valid mining claims. As we understand the matter, your mining claims themselves are not involved; that is, the State is not now seeking to cancel your claims. What is proposed is that a grazing lease for a part of Section 36 may be issued to Mr. Knight, subject, however, to a hearing before the State Land Commissioner. From your letter we gather that Mr. Knight feels you have done but little mining, and that he will probably argue your claims are more or less as a pretext for ranging live stock in the region.

This department must leave to your attorney the matter of dates of notices about lease renewals and technical details of State grazing lease requirements. You have doubtless been fully advised in this regard.

We do have information, however, with respect to the rather isolated location of your claims, and we can appreciate the difficulty of travel back and forth, especially when gas rationing was in effect. Our office reports indicate your claims and home are in the bottom of a canyon and may be reached only by trail from the "rim". It is therefore necessary for you to keep pack animals. These facts, it seems, can be clearly established.

Our file likewise indicates you have produced gem stones and gem material in varying amounts. This type of mining must be carefully done, and with a minimum amount of blasting. Quite likely

Mrs. Bertha E. Schell  
February 6, 1946

These facts if accurate can be given as evidence.  
"It is because of this that Mr. Knight does not feel you are doing much work. In any case, it seems to us that several mining men can appear before the State Land Commissioner and testify in your behalf. Mr. Coupal knows the conditions. Mr. Flagg would doubtless appear for you. It is possible J. E. Busch might also be available. You should have some miners who are familiar with the set-up to appear with you, and of course, all of your records as to gem shipments, and samples of your material. The miners can testify as to amount of work, mining methods, and similar facts. We have copies of the report by B. W. Brown, although Mr. Brown himself is in the Army.

We will be much interested in further information as to what Mr. Kasey informs you about the material you believe might be nickel, or some rare mineral. If convenient, send a small sample to us. Assuring you of the full cooperation of this department.  
Yours very truly,

Chas. H. Dunning  
Director  
Mr. Schell's E. M. letter has referred your letter of January 30.

CHD:LP  
Dear Mrs. Schell:

Very truly,  
Mrs. Bertha E. Schell

May 25, 1944

Mr. Arthur L. Flegg  
29 Holly  
Phoenix, Arizona

Dear Arthur:

I am enclosing a copy of a report by  
B. W. Brown, field engineer, on the Arrowhead Group  
which is owned by Mrs. Bertha Schell.

The samples are being held in the office  
for you to pick up if you wish.

Yours very truly,

J. S. Coupal

JSC:LP

November 17, 1948

Mrs. Bertha E. Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Dear Mrs. Schell:

It was good to hear from you and about shipping the gem material to India, and we would certainly be glad to have a specimen as you suggest.

Hoping for your continued success.

Yours sincerely,

Chas. H. Dunning  
Director

CHD:rh

*Arrowhead*

June 6, 1944

Mrs. Bertha Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Dear Mrs. Schell:

Many thanks for your letter of June 3rd and I do hope that your situation has been entirely cleared and it was a pleasure for the Department to assist you.

I also received your letter addressed to the Department of Mineral Resources and am enclosing herewith a report by Mr. Brown.

I have turned the specimens over to Mr. A. I. Flagg that Mr. Brown took and he will undoubtedly polish some of them and have them ready for evidence in case it is necessary.

With best wishes and kindest regards for yourself and Mr. Schell, I remain

Very truly yours,

J. S. Goupal

JSC:JES

*Sunburst*  
MEMORANDUM

MAY 13, 1944

TO: B. W. BROWN

FROM: J. S. COUPAL

SUBJECT: BERTHA SCHELL CLAIMS

1 Mr. Flagg was just in and hopes that you will ship the samples taken on the Schell property to this office as soon as possible, properly identifying them by number and sketch showing location of occurrence with as much description as necessary to show the occurrence. Mr. Flagg has already arranged to have these cut and polished and ready for the final trial on June 6.

I believe you should make arrangements to be here in Phoenix on June 6.

J. S. COUPAL  
Director

JSC:JES

2 P. S. Correction: Mr. Flagg says to deliver the samples to Mr. Gibbs in Prescott so that he will bring them down to Mr. Flagg.

3 P.P.S. Correction #2 : Mr. Gibbs has just advised me that the meeting on the Schell case will not be held on Wednesday, but that formal notice will be given a further date. It would be wise, therefore, to ship your sample and descriptions to me and I will keep you posted.

NOTE: Please read in proper sequence 1-2-3. Thank you.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Bertha E. Schell Group Date March 17, 1946  
District Eureka, Yavapai County Engineer A. C. Nebeker  
Subject: Examination of the Schell Holdings

The Bertha E. Schell mining claims and other holdings are located about 70 miles north of west from Prescott, Arizona, in Sections 17, 18, 35 and 36 in T 16 $\frac{1}{2}$  N, R 9 W.

Title to these holdings was obtained by location and work for those on Government lands, and location and lease on state lands. Locations were made in 1939.

To reach the holdings one takes the road out of Prescott to Camp Wood and on to the Yolo Ranch and continue about 20 miles on west to the Schell sign on the rim of the Conger Creek, and here change to saddle horse or walk and go on down a zig-zag trail to the bottom of the creek and then follow down the creek for about 1-1/2 miles to camp.

To inspect the holdings one will ride saddle horse over about 4 miles of trails which have been made for a two-fold purpose: One was to make it easier to get to the claims and furnish a trail for the cattle grazing there to reach water. The other purpose for trails off the mining claims was to make it possible for the cattle to reach the watering holes on the creek. I would say there are twenty head of cattle which use these trails going to water from the feeding flats on the side of the mountain.

The topography is very rough and steep, making it necessary to have trails in order to get the best use from the property.

The vegetation is the usual desert type, scrub trees, brush, grass and cactus.

The geology consists of igneous rocks. On the rim and for several hundred feet down the side of the mountain is black lava, under which is andesite and a few spots of granite. The lava projects out making steep cliffs and the andesites wear down to a more gentle slope. In the andesites one finds quartz and porphyry fissures which carry copper and gold values. In addition to the quartz and porphyry fissures are small fissures and seams carrying gem stones. Such gem stones as Agate, Opal, Chrysoprase, Amethyst and Carnelian. I saw a dozen of very beautiful gems polished from the above named stones.

The outcrop of the veins carrying the gem stones would be overlooked by a person untrained in minerals. The vein would look like nothing but a small seam of white clay. However, if one digs off the surface for probably a foot, one will notice the vein getting wider and breaking off the white coating, the gem rock shows up inside. I noticed several of such showings.

On Section 36 the following claims are located: Tomohawk, Arrowhead, Arrowhead No. 1, Arrowhead No. 2, and Carnelian. On the Tomohawk is a north-south quartz vein from 8 inches to 18 inches thick, from which it is reported assays of \$11.20 gold per ton. On Arrowhead No. 1 a spar-iron-porphyry vein, 6 to 8 feet thick,

March 17, 1946

shows some copper, a small shaft has been sunk on this. On Arrowhead No. 2, and Carnelian claims, veins of gem stone have been worked.

Improvements: In addition to the above mentioned trails there is a two-room house for living quarters, a one-room with lean-to for storage and other use, a one room house for shop and gem room, a corral and fencing for stock control.

A plot of ground for garden around which are fruit trees, a plot of ground planted to alfalfa, with ditches for watering the same.

/s/ A. C. Nebeker

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine ARROWHEAD GROUP Date May 16, 1944  
District Eureka of Yavapai County Engineer B. W. Brown  
Subject: Examination of Arrowhead Group for Mrs. Bertha Schell, owner, whose address is Arrowhead Camp via Camp Wood, Arizona.

On May 12 & 13 of 1944 this engineer made a preliminary examination of the Arrowhead Group of Claims owned by Mrs. Bertha Schell, whose address is Arrowhead Camp via Camp Wood, Arizona, for the purpose of determining the mineral character present on her mining claims. Concerning this, the following claims located in sections 35 and 36 of T 16 $\frac{1}{2}$  N-R 9 W G.&S.B.M. were examined in the company of Mrs. Bertha Schell and herewith reported:

Tomahawk  
✓ Eagle Point #4  
Eagle Point #2  
Arrowhead #2  
Sunburst (Two Placer Claims)  
Eagle Point #3  
Carnelian  
✓ Green Serpent  
✓ Arrowhead #1

The Arrowhead property is reached from the Yolo Ranch, which is westerly from Camp Wood, by about 16 miles of very rough ranch road and thence by about a mile of trail into Conger Canyon, a bold earth fracture in the vast extrusive flows of basaltic and rhyolitic lavas which characterize the region. At the time of my visit the canyon carried a good stream of water and it is said that live springs prevail the year around and supply clear running water in sufficient quantities for all camp with mining purposes. Water was being appropriated from the stream bed with about 900 feet of ditch channel (roughly estimated) conveying it to the camp and thence to a sluice used for washing the ore in preparation for market. A fine stand of sycamore trees covered the canyon floor. In the higher reaches of the canyon and on most of the claims the timber was for the most part scrub and brush.

The general area of these claims is highly mineralized and it may be inferred that high temperature vapors and gases bringing with them in part and gathering from the country rock in part silicious and calcareous solutions yielded the many varieties of quartz and calcite found there today. There is also much evidence of secondary metamorphism through the action of hot or cold solution or possibly both, giving rise to the pseudomorphs that are found in the area. The minerals found on these claims are for the main part varieties of quartz and calcite of value either as collectors items or as gem and semi-precious material for the jeweler and artificer trades. These minerals occur as placer in the talus on the Sunburst claims, as vein filling on the Green Serpent claim, and in fissures and vugs as well as in eroded masses on the other claims.

Among the varieties of quartz identified were various pseudomorphic forms after calcite, cryptocrystalline varieties including; chrysoprase, agate, a crude variety of heliotrope, blood jasper and a dark green jasper, agate-jasper, variegated chalcedony, drusy and botryoidal quartz, white opal and rose quartz. Of special interest was the 14 inch vein of green jasper with inclusions of chalcedony and prase occurring on the Green Serpent claim.

Large masses of doubly refracting calcite were found, some as great as ten inches across. These were, however, all taken at or near the ground surface and were weathered or temperature-checked enough to be unusable as optical grade iceland-spar. It is reasonable to expect to find the optical grade of spar when the workings have been taken far enough under cover to get beyond the zone of percolation and temperature change, providing, of course, that extreme care is exercised in pursuing this work. In the Arrowhead #1 claim the spar occurs in very large masses in a very favorable and loose formation. On the Tomahawk claim this engineer extracted from in situ a nearly perfect scalenohedron formed by the twinning of dogtooth spar, a single crystal of better than 7 inches in length.

Good trails lead to every claim and this trail work together with ditch work on the water-right has been advanced by Mrs. Schell in fulfillment of her assessment work, the claims now being held under assessment exemption. The following is a brief summary of each claim showing mineralization and work done:

<u>NAME OF CLAIM</u>	<u>MINERAL</u>	<u>WORK DONE</u>
Eagle Point #4	Chrysoprase & rose quartz	Abandoned claim
Eagle Point #2	Milky Opal	No location work Abandoned claim
Arrowhead #2	Chalcedony	Location work in doubt Trench cut 8 ft. deep 5 ft. wide 10 ft. long
Sunburst Placer (two claims)	Rose-tinted botryoidal quartz scalene calc-spar, variegated chalcedony	Monuments O. K.
Eagle Point #3	Blood-jasper	Abandoned Claim
Carnelian	Poor grade heliotrope	No location work
Green Serpent	Agate Agate-jasper Green Jasper	Trench-cut 8 ft. deep 15 ft. long 5 ft. wide
Arrowhead #1	Fraser, 1 1/4 inch vein SLOW Dip East 40 degrees Iceland Spar (Weathered and not optical grade)	Trench-cut 10 ft. deep 14 ft. long 4 ft. wide Discovery hole 8 ft. deep
Tomahawk	Pseudomorphs Scalenohedrons	Discovery hole 8 ft. deep

In conclusion it may be said that the finer gem materials and the optical grades of iceland spar may reasonably be anticipated with deeper development of this property. The Arrowhead #1 has the best indications of optical grade spar as it has disclosed massive crystals in a loose ash formation. The Green Serpent, Carnelian and Sunburst claims have excellent show-of gem material and it is reasonable to expect an increase in grade with deeper development. The Eagle Point #4, also, showed excellent material on the outcrop.

/s/ B. W. Brown  
B. W. Brown

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arrowhead Group

Date May 15, 1944

District Eureka District

Engineer B. W. Brown

Subject: Mrs. Bertha Schell's Arrowhead Group of Claims

MEMORANDUM:

TO: J. S. COUPAL

FROM: B. W. BROWN

SUBJECT: EXAMINATION FOR MRS. SCHELL OF ARROWHEAD GROUP

I made a very thorough examination of this property as per your directive and took frequent samples. There is no doubt in my mind that Mrs. Schell can substantiate the validity of her title to the bulk of her claims. However, there are two claims, the Eagle Point 3 and 4, which are definitely in default as there was no location work done. Also, the Eagle-point number 2 might possibly be disqualified on the same ground. There are two Sunburst claims which were located as placer which will accede only to a lode claim being staked over them. Otherwise the location and assessment seems to be well done and in order.

There is no question about this region being mineralized. The principle value in the mineral found is in its gem quality and oddity as a collector's item. Many and variegated varieties of cryptocrystalline quartz were found. Also, there were present several forms of mineral calcite and I obtained a massive specimen of dogtooth spar from situ-- the largest I have ever seen. There was no calcite of iceland-spar grade in evidence as the deposits were not opened up deep enough. However, from the size of the specimens taken at the surface and because the calcite is found in such large crystals in a loose ash formation it is reasonable to expect the optical grade when the operations are carried under cover and away from the zone of weathering and temperature change.

I am working very closely with Mrs. Schell and am helping her in every way to properly present her evidence at the hearing. I am going over the facts with her and Mr. Gibbs tomorrow and do not expect to be able to make my Morristown appointment. I will write to the Morristown council to the effect that they can meet with me in Wiskenburg on the following day which is Wednesday. I am busy today classifying the specimens which I took for sample and cleaning the lime and dirt off of them to make them presentable for exhibit. In the grabs which I took I find some very excellent gem material.

/s/ B. W. Brown  
B. W. Brown

MAY 15, 1944

TO: J. S. COUPAL, DIRECTOR  
 FROM: B. W. BROWN  
 SUBJECT: BERTHA SCHELL

Under separate cover I am sending samples taken by me on my recent visit to the Arrowhead Group of Claims. Each specimen is numbered and the numbers represent the location from which the specimens were taken.

<u>Specimen Number</u>	<u>LOCATION AND REMARKS</u>
1.....	Eagle Point #4 Claim, no location work, Grab sample.
2.....	Eagle Point #2 Claim, location work in doubt. Selected specimens from detritus.
3.....	Arrowhead #2, taken from discovery hole. Trench-cut 8 ft. deep x 5 ft. wide x 10 ft.
5.....	Sunburst (South), grab from placer material
6.....	Sunburst (North), from placer detritus.
7.....	Sunburst (South), selected material
8.....	Eagle Point #3, no location work
9.....	Carnelian, taken from discovery hole. Trench-cut 8 ft. deep x 5 ft. wide x 15 ft. long
10.....	Green Serpent, taken from in situ at a point fifteen feet from the discovery.
11.....	Green Serpent, taken from discovery hole. 14 inch vein opened by trench-cut 8 ft. deep x 14 ft. long x 4 ft. wide.
12.....	Arrowhead #1, location work done. Sample taken about 300 ft. from discovery.

Specimens were also taken from the Mohawk but these are not included. One specimen of twinned dogtooth spar must have weighed well over five pounds. It was a handsome crystal and as near perfect as anything I have seen. Mrs. Schell will present that exhibit as evidence.

/s/ B. W. Brown  
 Bill

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

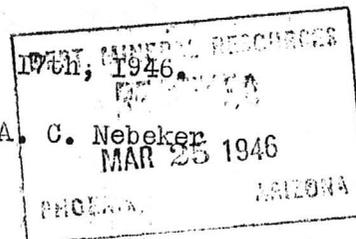
Mine Bertha E. Schell Group.

Date Mar. 1946

District Eureka, Yavapai Co.

Engineer A. C. Nebeker

Subject: Examination of the Schell Holdings.



The Bertha E. Schell mining claims and other holdings are located about 70 miles north of west from Prescott, Arizona, in Sections, 17, 18, 35, and 36 in T, 16 $\frac{1}{2}$  N, R, 9, W.

Title to these holdings was obtained by location and work for those on Government lands, and location and lease on state lands. Locations were made in 1939.

To reach the holdings one takes the road out of Prescott to Camp Wood and on to the Yolo Ranch and continue about 20 miles on west to the Schell sign on the rim of the Conger Creek, and here change to saddle horse or walk and go on down a zig-zag trail to the bottom of the creek and then follow down the creek for about  $\frac{1}{2}$  miles to camp.

To inspect the holdings one will ride saddle horse over about 4 miles of trails which has been made for a two fold purpose, one was to make it easier to get to the claims and furnish a trail for the cattle grazing there to reach water. The other purpose for trails off the mining claims was to make it possible for the cattle to reach the watering holes on the creek. I would say there is twenty head of cattle which use these trails going to water from the feeding flats on the side of the mountain.

The topography is very rough and steep, making it necessary to have trails in order to get the best use from the property.

The vegetation is the usual desert type, scrub trees, brush, grass and cactus.

The geology consists of igneous rocks. On the rim and for several hundred feet down the side of the mountain is black lava, under which is andesite and a few spots of granite. The lava projects out making steep cliffs and the andesites wear down to a more gentle slope. In the andesites one finds quartz and porphyry fissures which carry copper and gold values. In addition to the quartz and porphyry fissures are small fissures and seams carrying gem stones. Such gem stones as Agate Opal, Chrysoprase, Amethyst and Carnelian. I saw a dozen of very beautiful gems polished from the above named stones.

The outcrop of the veins carrying the gem stones would be over looked by a person untrained in minerals. The vein would look like nothing but a small seam of white clay. However, if one digs off the surface for probable a foot, one will notice the vein getting wider and breaking off the white coating, the gem rock shows up in side. I noticed several of such showings.

On section 36 the following claims are located;

Tomahawk, Arrowhead, Arrowhead NO 1, Arrowhead NO 2, and Carnelian.

On the Tomahawk is a north-south quartz vein from 8 inches to 18 inches thick, from which it is reported assays of \$11.20 gold per ton.

On arrowhead NOI, a spar-iron-porphyry vein, 6 to 8 ft thick, shows some copper, a small shaft has been sunk on this.

On arrowhead NO 2, and Carnelian claims, veins of gem stone have been worked.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Bertha E. Schell Group

Date Mar 17th 1946

District

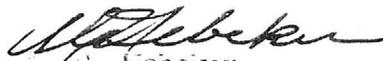
Engineer A. J. Nebeker

Subject:

Improvements;

In addition to the above mentioned trails there is a two room house for living quarters, a one room with lean-to for storage and other use, a one room house for shop and gen room, a corral and fencing for stock control.

A plot of ground for garden around which are fruit trees, a plot of ground planted to alfalfa, with ditches for watering the same.

  
A. J. Nebeker

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arrowhead Group

Date May 15, 1952

District Eureka

Engineer Mark Gemmill

Subject: Present Status

Information available at present is that there has been little activity on this property for some time. I have been unable to contact Mrs. Schell but understand she still maintains ownership of the claims. I dont know what is her present address.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arrowhead Group  
District Eureka  
Subject: Present Status

Date May 15, 1952

Engineer Mark Gemmill

Information available at present is that there has been little activity on this property for some time. I have been unable to contact Mrs. Schell but understand she still maintains ownership of the claims. I dont know what is her present address.

Large masses of doubly refracting calcite were found, some as great as ten inches across. These were, however, all taken at or near the ground surface and were weathered or temperature-checked enough to be unusable as optical grade iceland-spar. It is reasonable to expect to find the optical grade of spar when the workings have been taken far enough under cover to get beyond the zone of percolation and temperature change, providing, of course, that extreme care is exercised in pursuing this work. In the Arrowhead #1 claim the spar occurs in very large masses in a very favorable and loose formation. On the Tomahawk claim this engineer extracted from in situ a nearly perfect scalenohedron formed by the twinning of dogtooth spar, a single crystal of better than 7 inches in length.

Good trails lead to every claim and this trail work together with ditch work on the water-right has been advanced by Mrs. Schell in fulfillment of her assessment work, the claims now being held under assessment exemption. The following is a brief summary of each claim showing mineralization and work done:

<u>NAME OF CLAIM</u>	<u>MINERAL</u>	<u>WORK DONE</u>
Eagle Point #4	Chrysoprase & rose quartz	Abandoned claim
Eagle Point #2	Milky Opal	No location work Abandoned claim
Arrowhead #2	Chalcedony	Location work in doubt Trench cut 8 ft. deep 5 ft. wide 10 ft. long
Sunburst Placer (two claims)	Rose-tinted botryoidal quartz scalene calc-spar, variegated chalcedony	Monuments O. K.
Eagle Point #3	Blood- jasper	Abandoned Claim
Carnelian	Poor grade heliotrope	No location work
Green Serpent	Agate	Trench-cut 8 ft. deep 15 ft. long 5 ft. wide
	Agate-jasper	Trench-cut 10 ft. deep
	Green jasper	14 ft. long 4 ft. wide
Arrowhead #1	Prase, 14 inch vein SLOW	
	Dip East 40 degrees	
Tomahawk	Iceland Spar	Discovery hole 8 ft. deep
	(Weathered and not optical grade)	Discovery hole 8 ft. deep
	Pseudomorphs Scalenohedrons	

In conclusion it may be said that the finer gem materials and the optical grades of iceland spar may reasonably be anticipated with deeper development of this property. The Arrowhead #1 has the best indications of optical grade spar as it has disclosed massive crystals in a loose ash formation. The Green Serpent, Carnelian and Sunburst claims have excellent show-of gem material and it is reasonable to expect an increase in grade with deeper development. The Eagle Point #4, also, showed excellent material on the outcrop.

/s/ B. W. Brown  
B. W. Brown

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

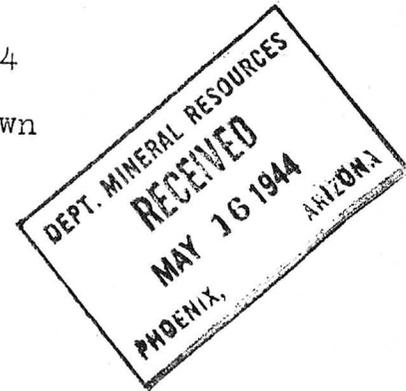
Mine Arrowhead Group

Date May 15, 1944

District Eureka District

Engineer B. W. Brown

Subject: Mrs. Berthe Shelle's Arrowhead Group of Claims



MEMORANDUM:

To: J. S. Coubal

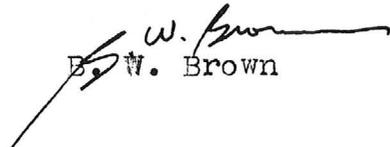
From: B. W. Brown

Subject: Examination for Mrs. Shelle of Arrowhead Group

I made a very thorough examination of this property as per your directive and took frequent samples. There is no doubt in my mind that Mrs. Shelle can substantiate the validity of her title to the bulk of her claims. However, there are two claims, the Eagle Point 3 and 4, which are definitely in default as there was no location work done. Also, the Eagle-point number 2 might possibly be disqualified on the same ground. There are two Sunburst claims which were located as placer which will accede only to a lode claim being staked over them. Otherwise the location and assessment seems to be well done and in order.

There is no question about this region being mineralized. The principle value in the mineral found is in its gem quality and oddity as a collector's item. Many and variegated varieties of cryptocrystalline quartz were found. Also, there ~~was~~<sup>were</sup> present several forms of the mineral calcite and I obtained a massive specimen of dogtooth spar from situ--- the largest I have ever seen. There was no calcite of iceland-spar grade in evidence as the deposits were not opened up deep enough. However, from the size of the specimens taken at the surface and because the calcite is found in such large crystals in a loose ash formation it is reasonable to expect the optical grade when the operations are carried under cover and away from the zone of weathering and temperature change.

I am working very closely with Mrs. Shelle and am helping her in every way to properly present her evidence at the hearing. I am going over the facts with her and Mr. Gibbs tomorrow and do not expect to be able to make my Morristown appointment. I will write to the Morristown council to the effect that they can meet with me in Wickenburg on the following day which is Wednesday. I am busy today classifying the specimens which I took for sample and cleaning the lime and dirt off of them to make them presentable for exhibit. In the grabs which I took I find some very excellent gem material.

  
B. W. Brown

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine ARROWHEAD GROUP Date May 16, 1944  
District Eureka of Yavapai County Engineer B. W. Brown  
Subject: Examination of Arrowhead Group for Mrs. Bertha Schell, owner, whose address is Arrowhead Camp via Camp Wood, Arizona.

On May 12 & 13 of 1944 this engineer made a preliminary examination of the Arrowhead Group of Claims owned by Mrs. Bertha Schell, whose address is Arrowhead Camp via Camp Wood, Arizona, for the purpose of determining the mineral character present on her mining claims, Concerning this, the following claims located in sections 35 and 36 of T 16 $\frac{1}{2}$  N-R 9 W G.&S.B.&M. were examined in the company of Mrs. Bertha Schell and herewith reported:

Tomahawk  
Eagle Point #4  
Eagle Point #2  
Arrowhead #2  
Sunburst (Two Placer Claims)  
Eagle Point #3  
Carnelian  
Green Serpent  
Arrowhead #1

The Arrowhead property is reached from the Yolo Ranch, which is westerly from Camp Wood, by about 16 miles of very rough ranch road and thence by about a mile of trail into Conger Canyon, a bold earth fracture in the vast extrusive flows of basaltic and rhyolitic lavas which characterize the region. At the time of my visit the canyon carried a good stream of water and it is said that live springs prevail the year around and supply clear running water in sufficient quantities for all camp with mining purposes. Water was being appropriated from the stream bed with about 900 feet of ditch channel (roughly estimated) conveying it to the camp and thence to a sluice used for washing the ore in preparation for market. A fine stand of sycamore trees covered the canyon floor. In the higher reaches of the canyon and on most of the claims the timber was for the most part scrub and brush.

The general area of these claims is highly mineralized and it may be inferred that high temperature vapors and gases bringing with them in part and gathering from the country rock in part silicious and calcareous solutions yielded the many varieties of quartz and calcite found there today. There is also much evidence of secondary metamorphism through the action of hot or cold solution or possibly both, giving rise to the pseudomorphs that are found in the area. The minerals found on these claims are for the main part varieties of quartz and calcite of value either as collectors items or as gem and semi-precious material for the jeweler and artificer trades. These minerals occur as placer in the talus on the Sunburst claims, as vein filling on the Green Serpent claim, and in fissures and vugs as well as in eroded masses on the other claims.

Among the varieties of quartz identified were various pseudomorphic forms after calcite, cryptocrystalline varieties including; chrysoprase, agate, a crude variety of heliotrope, blood jasper and a dark green jasper, agate-jasper, variegated chalcedony, drusy and botryoidal quartz, white opal and rose quartz. Of special interest was the 14 inch vein of green jasper with inclusions of chalcedony and prase occurring on the Green Serpent claim.

MEMORANDUM

MAY 15, 1944

TO: J. S. COUPAL, DIRECTOR  
FROM: B. W. BROWN  
SUBJECT: BERTHA SCHELL

Under separate cover I am sending samples taken by me on my recent visit to the Arrowhead Group of Claims. Each specimen is numbered and the numbers represent the location from which the specimens were taken.

<u>Specimen Number</u>	<u>LOCATION AND REMARKS</u>
1.....	Eagle Point #4 Claim, no location work, Grab sample.
2.....	Eagle Point #2 Claim, location work in doubt. Selected specimens from detritus.
3.....	Arrowhead #2, taken from discovery hole. Trench-cut 8 ft. deep x 5 ft. wide x 10 ft.
5.....	Sunburst (South), grab from placer material
6.....	Sunburst (North), from placer detritus.
7.....	Sunburst (South), selected material
8.....	Eagle Point #3, no location work
9.....	Carnelian, taken from discovery hole. Trench-cut 8 ft. deep x 5 ft. wide x 15 ft. long
10.....	Green Serpent, taken from in situ at a point fifteen feet from the discovery.
11.....	Green Serpent, taken from discovery hole. 14 inch vein opened by trench-cut 8 ft. deep x 14 ft. long x 4 ft. wide.
12.....	Arrowhead #1, location work done. Sample taken about 300 ft. from discovery.

Specimens were also taken from the Mohawk but these are not included. One specimen of twinned dogtooth spar must have weighed well over five pounds. It was a handsome crystal and as near perfect as anything I have seen. Mrs. Schell will present that exhibit as evidence.

/s/ B. W. Brown  
Bill

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arrowhead Group

Date May 15, 1944

District Eureka District

Engineer B. W. Brown

Subject: Mrs. Bertha Schell's Arrowhead Group of Claims

MEMORANDUM:

TO: J. S. COUPAL

FROM: B. W. BROWN

SUBJECT: EXAMINATION FOR MRS. SCHELL OF ARROWHEAD GROUP

I made a very thorough examination of this property as per your directive and took frequent samples. There is no doubt in my mind that Mrs. Schell can substantiate the validity of her title to the bulk of her claims. However, there are two claims, the Eagle Point 3 and 4, which are definitely in default as there was no location work done. Also, the Eagle-point number 2 might possibly be disqualified on the same ground. There are two Sunburst claims which were located as placer which will accede only to a lode claim being staked over them. Otherwise the location and assessment seems to be well done and in order.

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I am working very closely with Mrs. Schell and am helping her in every way to properly present her evidence at the hearing. I am going over the facts with her and Mr. Gibbs tomorrow and do not expect to be able to make my Morristoryn appointment. I will write to the Morristoryn council to the effect that they can meet with me in Wickenburg on the following day which is Wednesday. I am busy today classifying the specimens which I took for sample and cleaning the lime and dirt off of them to make them presentable for exhibit. In the grabs which I took I find some very excellent gem material.

/s/ B. W. Brown  
B. W. Brown

August 14, 1943

Mrs. Bertha E. Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Dear Mrs. Schell:

I am enclosing a copy of a letter I have written supplementing your appeal on the Sunburst Claim. I have a Mr. Roy Bennet who is looking up the status of the lease on Section 35 and he will report to me today, and I may add to this note.

Regarding the Sunburst Claim, I would say that that portion of the claim which lies in Section 36 may be invalid due to the fact as stated in the decision of July 13, a copy of which you forwarded to me, that you made your location subsequent to the acceptance of the survey on that section.

If the decision stands as to the Sunburst Claim being invalid in spite of your appeal, I would suggest that you make application for a State lease on the portion of the Sunburst Claim which is located in Section 36 which is the 40 acres known as the NW $\frac{1}{4}$ --SW $\frac{1}{4}$ . If, however, the best showing of the Iceland spar occurs in a smaller zone, you might take the southern half or the northern half or even the western half of this particular 40 acre plot and apply for the State license on that. The cost on a 20 acre location under a State lease is \$15 a year rental paid in advance and 5% royalty on any ores produced. I would like very much to hear the result from your appeal.

It was a sad loss when Billie Graham passed away. Many thanks for your kind letter.

---

Yours very truly,

J. S. Coupal, director

JSC:JE

P. S. I have just talked with Mr. Lloyd Bennet wh has investigated the title which the state is acquiring from the government on Section 35. The United States Government reserves the mineral rights on this Section 35 s that a mineral location could be had on 35. As stated, Section 36 is State land, a school section, and to obtain mining rights and a lease should be obtained from the State Land Department.

August 14, 1943

United States Land Office  
U. S. Court House  
Phoenix, Arizona

Decision - 078077  
Phoenix 078097  
078371  
079635  
080624  
080749

Supplementing Appeal by  
Bertha E. Schell of August 3, 1943

Gentlemen:

In the appeal by Mrs. Bertha E. Schell of Arrowhead Mine Camp, Camp Wood, Arizona, I wish to add my appeal for a reconsideration of the statement in the second paragraph of decision of date July 13, 1943, State of Arizona, Mrs. Bertha E. Schell, Harry Knight and S. C. Wooten as follows:

"The Sunburst placer mining claim, located by Mrs. Bertha Schell, etc; is invalid because it was made as a placer claim whereas the minerals are in lode form."

The mineral discovered on this claim is Iceland Spar, which is a crystallized form of Calcium Carbonate--quite distinct from lime stone--which is the massive form of Calcium Carbonate and commonly located as lode claims.

The Iceland Spar on this property does not occur in a lode formation--no distinct walls are evidenced--the mineral is found in irregularly distributed vug holes and distributed on the surface in loose soil where the rock has been disintegrated. The vug holes occur in cavities formed by the removal by solution of the more soluble portions of the host rock and follow no semblance of a lode structure.

The procedure of location was determined by reference to the paragraph, "Non Metalliferous Deposits", page 253, 16th Edition, 1936 of Morrison's Mining Rights which I quote as follows:

"Discarding the rare cases instanced in the foregoing paragraphs where non-metallic but valuable mineral substances are found in fissure or lode-like formations, the uniform practice is to locate them as placers and the Department has so ruled as to many specific minerals."

I personally have been on the property and Mrs. Bertha E. Schell states it was my suggestion that it be located as a placer claim. This advice was given due to the facts stated above, that the Iceland Spar did not occur in lode formation but was distributed irregularly in the surface soil and in irregularly distributed vugs.

The vagueness of the Federal Statutes on both lode and placer location gives a wide latitude in determination of the proper procedure. On border-line cases, where the integrity of the claim holder is beyond question and where production valuable to the war effort has been obtained, as in the case of the Iceland Spar, the claim holder's rights seem more important than the blocking out of areas for facilitating state records or for parcelling out of large grazing blocks.

As part of the Sunburst claim is in Section 36 and if as stated location was made subsequent to the acceptance of the plot survey of T 16 $\frac{1}{2}$  N--R 9 W then that part of the claim is invalid but the claim-holder should apply for a state lease on the mineral rights on the portion in Section 36.

As mineral was discovered on that portion of the Sunburst claim lying in Section 35 the claimant should be given the right to alter, if necessary, the nature of his location from placer to lode as the error, if it can be proven to be an error, is one caused by the vagueness of the law governing such locations.

I challenge the decision that the claim is invalid because it was located as a placer claim.

Respectfully,

J. S. Coupal, director

Camp Wood, Arizona  
Arrowhead Mine Camp  
May 1st, 1944

Mr. J. S. Coupal  
Home Builders Building  
Phoenix, Arizona

Dear Mr. Coupal:-

I wonder if you have heard that there has been a hearing date set for May 17th at 10 A.M. to gather the evidence as to the States rights and mine in regard to the mining claims I hold here.

I am writing to ask you to help me out if you can see it clear to do so.

I need you to say that you were here in August 1940 and examined my claims and that my work was done in a good and miner like way--also to say that this is a mineralized place.

You see there still are the old cattle men who are after my scalp also there is a new one who came in here from New Mexico three years ago and he is a mean quarrelsome sort of person--always hunting trouble--he threatened over a year ago to fence on my claims and I told him at that time that if he or any of the other cattle men hereabouts put up a fence on my claims that I'd go right to town and file an injunction against them and stop it.

Well, he knew I would so he had to wait over a year to catch us at a time when we were snowed in and the mud was so bad we could not even go to our mail box--then he sneaked up the canyon and put up a fence length ways right down almost on the center line of my Green Serpent mining claim.

Hardy talked to him when he was at work on it and told him he was putting his fence on our claim and could expect to be ordered to take it down..

He said there was no mining claim and Hardy offered to show him the ledge and workings and he said he had seen it all but that there was no mine there just a little colored dirt; Hardy ask him how he knew and he said he had sampled it himself.

I don't think any common cow puncher has the right to sample mining claims just at his own will. Wooten is no mining engineer-- in fact he does not know ores at all.

He claims he has a state lease on the section that that claim is on and at the same time I have a government lease on the  $\frac{1}{2}$  section that that claim joins onto. I have a tailer lease on the E  $\frac{1}{2}$  of the E  $\frac{1}{2}$  of it, and my claim joins my lease on the west side which places that claim in the W  $\frac{1}{2}$  of the E  $\frac{1}{2}$  of Sec. 35 T. 16 $\frac{1}{2}$  N. R. 9 W. Wooten's lease is only by selection and as I understand it under selected state sections the mineral is reserved to the government. My claim is a lode claim and was located August 4, 1939 and recorded October 10, 1939--which was before the survey was accepted on this  $\frac{1}{2}$  township. If I remember right the survey was accepted some time in June 1940.

The state has not yet got its title to that section and I can't see how that State land commissioner has any right to give Wooten permission to put up a fence just where ever he sees fit to do so.--Wooten claims he had in writings to put up that fence. That claim has been examined twice by the field examiner from Albuquerque and both times it has been called valid.

Do you remember that claim I call the Tomahawk that has the fissure vein of gold quartz on it? Only recently I have been producing some iceland spar from it and there is a pure white agate that takes a beautiful polish. It will be beautiful out in slabs and polished. I have a polished specimen from it.

I also found on the main iceland spar vein, namely the Arrowhead No. 1; some mass jasper that is very unuauual. It is very pretty when polished.

Now that State land commissioner claims that we have done no actual mining. How on earth does he think we get such ores--surely not by waving a magic wand and saying "come to me little ores." My magic wand has always been my pick and shovel and the magic applied is plain old elbow grease.

I am mailing you enclosed herewith a copy of the list of tools, black smithing equipment, etc. that we not only have bought and hauled the 75 mile from Prescott but we packed it into camp and put it up.

The cattle men and the State land Dept. are going to do me out all together if I don't get help and the only ones I feel that I can really rely on are men like you and Charles Willis.

I recently contacted a Mr. E. D. Mills, who is chief chemist for the Mammoth-St.-Anthony-Ltd. of Tiger, Arizona. He is interested in what I have here and says he has capital to develop so I'd like to get this mess straightened out as soon as possible since he writes me that he will be here about May 22nd to spend a week examining the claims. He told me he knew you and I told him you had been up here and could tell him some little about the place being mineralized.

It would have been much to my advantage if he could have come in and examined the claims before this hearing came up--then if he would give in a report it would have helped a lot.

You know my claims here on this sec. 36 were located and recorded and that I was living here on them before this survey was accepted and the State land commissioner is trying to get a patent to the entire section including my claims. He claims they had no record of my claims.--You know that Billie Graham had taken it all up with Wm Alberts and that Mr. Alberts was willing to see me keep my claims.

I have a letter here now--that is, a copy of a letter written to Mr. M.C. Burk, Deputy State Land Commissioner, Phoenix, Arizona--on Sept 16, 1940--by Billie Graham or signed by W. J. Graham. It was wrote while Billie was assistant to the director of the Department of Mineral Resources. In this letter Billie plainly informs Mr. Burk that the filing of an application for lands does not interfere with the rights of mine locaters. Now I am sending this letter down to Mr. Gibbs, our attorney, along with a letter which I received from the State Land Dept. back in June 1937--at which time I attempted to make known to them that I had mineral claims here in this township 16 $\frac{1}{2}$  N R 9 W and objected to a lease which was supposedly issued to Mrs. Edith K. Harman. They wrote this letter back to me telling me that the above mentioned township was not state land. The survey was made in 1938 and accepted in 1940.

I am also sending Mr. Gibbs a letter I recently received from Mr. Louis C. Mackel, field examiner from Albuerquerque N. Mexico. I hope you will find time to drop into Mr. Gibbs office and read over these letters. I am sending them to him by registered mail so they won't be lost.

Now is here is another thing to consider---I have been selling ore out of that claim at 25¢ per lb. for gem material and I have shipped it out C.O.D. thru the post office at Camp Wood and Prescott---and I have all my orders which come in the form of letters and I also have all my C.O.D. receipts where I shipped the ore out---I also have some letters back from the purchasers who expressed their appreciation of the fine materials. I intend to produce all these as evidence at the hearing.

I have sold something out of every claim I have here---iceland spar---opal---Sagenetic agate and the green material, mass jasper, striped jasper and the pseudomorphs---also a few clusters of dog tooth calcite crystals and other forms of rock crystals. The Sagenetic agate comes from my "Cornealian claim" and it sells at \$1 per lb. and I cannot get enough of it out fast enough to supply the demand---Californians are begging for it and I have orders ahead waiting to be filled when and if I get a nodule of it. That green material from the Green Serpent figures up at 25¢ per lb. to be \$5.00 per ton. So you can see what W. J. Wooten calls "just colored dirt" really mounts up into money. I have close to 2 ton of it mined out and carded up there at the workings besides I have some packed in about 750 lb of it here to camp and clobbered it up for shipping.

We worked a trail from the house here over a half mile to the Green Serpent claim over which we packed a wheel barrow and other tools to work with and packed the ore into camp over. Wootens fence cuts us off from the use of that trail---that trail is part of the assessment work we put in on that claim---also 95 cu. ft. of additional work done in that cut. He never left a gate where the trail is, but left one farther on down and for us to pack over thru it we are forced to go at least 1/2 mile farther and over rough brushy terrain that is almost impassable with a pack animal heavily loaded. Since that fence is on my ground, or at least I will claim it as my ground until the decision is made, I think something should be done about it. I don't only want a gate on my trail, I want that entire fence removed off of my claim. Wooten cut trees and timber off of my claim to build that fence---and he not only cut what he needed, but cut and wasted timber that is needed for mining purposes. Now I claim that timber is mine---he claims that miners do not have any right to the surface of mineral ground, but only have the underground rights. If that is true, then I am sure through mining in Arizona. I think this hearing is a good place to make it plainly understood by both cattle men and miners just sure who owns the claim surface or not. I do know this for sure---any time I can not control the surface of a mining claim, I am not going to develop it.

That State land commissioner is putting such ideas into these cattlemen's head, and he not only upholds them in their high handed acts but he encourages them to go further in their lawlessness.

I feel that the State land Dept. have been very unfair to us in their manner of handling this situation. They won't come in here and see for themselves---they won't send an engineer to go over the claims with me---all they do is sit down there in an air conditioned office and listen to the tales the cattle men put up to them and then claim I have no mineral here and that my assessment work is not such as that counts. I have done road work, trail work, put in storage buildings, mining tools and equipment, and done a lot of general mining. Most of my mining is of the open pit type but I get the ore out that way just the same; and every now and then I make a discovery of some new ore that I had not known of before as being there.

For instance, that green serpent claim not only has the green gem material in it, but it also contains some iceland spar, some opal, and I have an assay that runs 2.84 in gold and copper; there is a fine showing of moss agate on it also.

I have made every effort to make known my holdings here on mineral ground and I feel that the State Land Department have been very unfair in thier dealings with me; since they have made no effort whatsoever to find out for theirselves whether or not I have valid claims here--they have merely taken the cattle mens word for what ever kind of yarn they wished to put up.

The fact that I have a few head of cattle makes no difference--if I did not own a single cow they still would want to get me out of here--merely becuse they want to use this canyon for purposes the State Land Dept. know nothing of and I and my holdings here are in the way--also they are afraid that I may make a good deal here and other miners and prospectors come in.

I am sorry to have to bring you into this but I need your statements as to the kind of mining job that you seen here and also that you did consider my claims mineralized ground. You can rest assured that you will not be questioned further than that.

You was here some time in August 1940--you later sent me a copy of a report you turned in to Wm. Alberts, who was then Land Commissioner. Mr. Gibbs has that copy at present time.

We were down to Phoenix in November 27, 1942 and talked to the now acting State Land Commissioner. I had that copy with me and Billie Graham showed it to him. I also showed him the recorded location notices of my claims and even so on December 21st 1942 he filed for patent on all of Sec. 36 T 16 1/2 N. R. 9 W. thereby completely ignoring my mineral claims.

Mr. Gibbs also has my grazing lease on Sec. 36 issued to me by Wm. Alberts and on that lease it plainly states "exempting 5 mining claims."

Now I am coming to Wickenburg on the 14th of May--stay all night and make it into Phoenix early in the morning--I intend to be in Mr. Gibbs office as soon as he opens up.

That will give us the 15th and 16th to go over all the things we need to discuss and be ready to "give battle" on the 17th.

I am writing Mr. E. D. Mills to that effect because since he wants to go in here on these claims and examine and perhaps do some developping, he may want to attend that hearing.

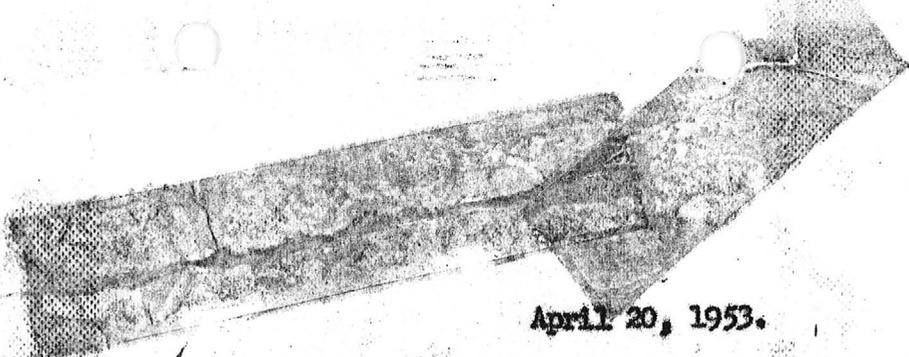
Hoping to see you soon we both send our best wishes to you

As ever your friends

/s/ Bertha and Hardy Schell  
Camp Wood Arizona

LIST OF TOOLS FOR USE ON THESE CLIMBERS

- 1 blacksmithing forge
- 1 large anvil
- 1 small anvil
- 2 hardys (for cutting steel)
- 1 vice
- 2 coal chisels
- 500 lb of blacksmith coal used (150 lb. on hand now)
- 2 wheelbarrows
- 2 timberman's wedges
- 2 sets of drills
- 1 double jack hammer
- 2 single jack hammers
- 1 sharpening hammer
- 1 pair blacksmith tongs
- 6 shovels
- 6 picks
- 2 crowbars
- 1 pickypoke bar
- 6 regular axes
- 2 hand axes
- 1 crosscut timber saw
- 3 carpenter saws ( 1 rip saw--1 crosscut saw--1 finishing saw)
- 1 carpenter square
- 2 carpenters levels (1 steel level for wet work)
- 2 sets of auger brace and bits
- 1 draw knife
- 12 files
- 1 emory wheel
- 1 hack saw and 2 doz. blades
- 2 sets of farriers tools
- 1 timber auger
- 2 carbide lamps
- 1 adze
- 3 carpenter hammers
- 1 riveting hammer (used for cobbing ores)
- 1 steel miners tape
- 5 burro pack saddles and equipment ropes blankets--canvas, etc.
- 2 horse pack saddles
- 2 sets kiaxes (for packing)
- 2 sets ore boxes for packing
  
- burro shoes )  
mule shoes ) nails for them  
horse shoes )
  
- 1 log chain for dragging timbers



April 20, 1953.

✓  
Mrs. Bertha E. Schell,  
Arrowhead Mine Camp,  
Camp Wood, Arizona.

Dear Mrs. Schell:

I have your several letters of the 17th, and I appreciate your donation to our Special Expense Fund, acknowledgment of which is enclosed herewith.

I must confess, however, that I do not know what we or the Department of Mineral Resources can do to help you on your conflict as to title on your mining properties. I understand that this subject has been gone into in the past in a great deal of detail, and it has now reached a point where about the only thing that can be done to settle the matter is court action.

Your letter indicates that you want us to help, but you do not indicate in what way you think we can help. Joe Busch, who has been in charge of Public Land matters for the Department of Mineral Resources, is no longer with the Department, as he had to retire because of ill health.

I am sending the entire file of your correspondence to Roger Manning, the Director of the Department of Mineral Resources, and possibly he or the Field Engineer, Mark Gemmill, can work out something whereby they can be of assistance to you.

It would seem as though all that could be done would be to report on your situation for presentation in connection with your court case, and this procedure seems to have been followed in the past. I hope that Mr. Manning and the Department can figure out some way to be of assistance to you.

I particularly note your comments regarding the need of a local market for tungsten ores or concentrates. The Department has surveyed the State on this subject very extensively, and while there are definitely some tungsten mines in this area, and they definitely do need a local market, we have not been able to dig up a showing of sufficient tonnage to induce the Government to put in a buying station.

Of course it could be argued that if a buying station was located nearby, this very fact would bring out a certain amount of tungsten production, but those Government agencies which would have to put up the money to construct and operate a buying station will

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not do so unless a sufficient tonnage is available to assure them that the station will be kept reasonably busy, and it is not hard to understand the logic of their position.

We are still hopeful that our survey of the tungsten production possibilities will be augmented by new findings, so that we can go after Washington with the right kind of economic data, as I feel confident that we could get a tungsten buying station if we could assure them that there was something worth while to buy.

I also note your comment regarding the question as to the liability for the \$20,000 loan. I am not passing this along to Johnny Russell, because it is not a question that could be answered without considerable more data. The question as to whether the land is liable for the loan regardless of the present ownership would depend upon the terms of that individual loan, and there was no formula on which such loans were written. Furthermore, it would also depend on whether or not the land was patented or was merely a mining claim located and held by assessment work. If it was such a claim, and the former holder had abandoned it, and it has been again located by someone else, I would doubt very much if the land could be held for the \$20,000 loan.

As I stated, it would depend on the terms of the loan as actually written for that particular mine, and I think that probably the only one who could answer that would be the Reconstruction Finance Corporation themselves. The former Arizona loans are now being handled by the Los Angeles office, and a request for this information should be addressed to C. F. Rockwood, 601 Subway Terminal Bldg., 427 South Hill St., Los Angeles 13, California. Mr. Rockwood was in the Phoenix office at the time these loans were made.

I seriously doubt, however, that if this land is now open, and was located by an outside party, he would be responsible to the Government for the \$20,000 loan.

I think I have answered most of your questions that I can answer, and I am leaving the correspondence relative to your question of land title up to the Department of Mineral Resources to see what can be done to help you on that.

With best wishes, I am

Yours very truly,

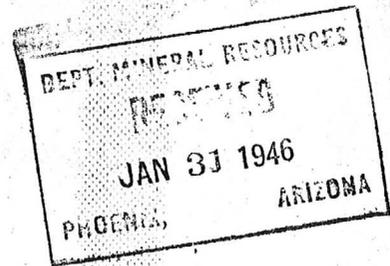
Charles F. Willis.

CFW:H.

cc to Roger Manning.

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P  
Y

January 30, 1946



Mrs. Bertha E. Schell  
Arrowhead Mine Camp  
Camp Wood, Arizona

Dear Mrs. Schell:

I have your letter of January 25 and wish to especially thank you for your donation to our Washington fund. Your membership renewals and donation will be separately acknowledged, but I did want you to know that we like very much to have our Washington fund made up of a large number of small donations and that is exactly the way it is done.

I was very much interested in reading your letter and learning of your difficulties with the State Land Commissioner and I want to make this suggestion that you have the Arizona Department of Mineral Resources check into this, make the necessary examinations, and be able to appear before the State Land Commissioner with evidence of the legitimacy of your mining operations.

In order to expedite action, I am turning over your letter with a copy of my reply to Mr. C. H. Dunning, Director of the Department, and I would suggest that he have a field engineer, Mr. Nebeker, make a written report to him on your case and the legitimacy of your mining operations, the necessity for maintaining of a certain amount of live stock, and particularly look into the potentialities such as the hickel which you mentioned with a view to showing how serious it would be to the state to have your property changed to straight live stock grazing by any cattleman.

I feel very certain that, if it can be shown that the Department of Mineral Resources checked into this and brought in a report that Mr. Williams would not go very far away from the recommendations made by the Department.

It is just such cases as yours that the Department was set up to handle for it is their job to fight for the maintenance of rights of the small mine operators.

I do not think that you will need to write Mr. Dunning directly because by transmitting your letter and a copy of this reply he will know what it is all about and can get the necessary preliminaries started. You should, however, keep them informed as to the date of your hearing and have them work with those who are helping you such as Mr. Gibbs and Mr. Russel. It is probable that they already have in their files a copy of the report by Bill Brown.

Mrs. Bertha E. Schell

- 2 -

January 30, 1946

We are especially interested in having the Department go into this case as a matter of principle is involved which not alone affects you in this individual case but which is likely to affect a considerable number of others who may find themselves in the same situation; therefore, it is worthwhile that the Department of Mineral Resources put much effort into the preparation of the case to establish rights and principles which will apply in future dealings of the Land Department with the small mine operators.

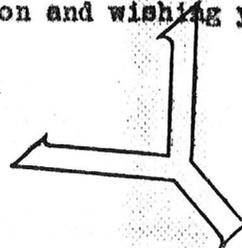
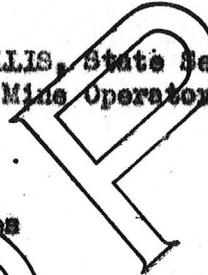
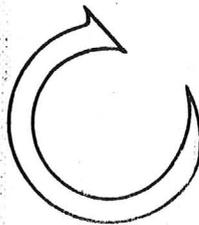
Thanking you for calling this to our attention and wishing you luck in getting this handled, I am

Yours very truly,

CHARLES F. WILLIS, State Secretary  
Arizona Small Mine Operators Association

CFW:RD

cc: C. H. Dunning  
Department of Mineral Resources  
304 Arizona Title Building  
Phoenix, Arizona



May 15, 1944

MEMORANDUM

TO: J.S. COUPAL, DIRECTOR  
FROM: B.W. BROWN  
SUBJECT: BERTHE SHELLE



Under separate cover I am sending samples taken by me on my recent visit to the Arrowhead Group of Claims. Each specimen is numbered and the numbers represent the location from which the specimens were taken.

Specimen #	Location & Remarks
1	----- Eagle Point #4 Claim, no location work. Grab sample.
2	----- ✓ Eagle Point #2 Claim, location work in doubt. Selected specimens from detritus.
3	----- ✓ Arrowhead #2, taken from discovery hole. Trench-cut 8 ft deep x 5 ft wide x 10 ft.
5	----- Sunburst (South), grab from placer material
6	----- Sunburst (North), from placer detritus.
7	----- Sunburst (South), selected material
8	----- Eagle Point #3, no location work
9	----- Carnelian, taken from discovery hole. Trench-cut 8ft deep x 5 ft wide x 15 ft long
10	----- ✓ Green Serpent, taken from in situ at a point fifteen feet from the discovery
11	----- Green Serpent, taken from discovery hole. 14 inch vein opened by trench-cut 8 ft deep x 14 ft long x 4 ft wide.
12	----- Arrowhead #1, location work done. Sample taken about 300 ft from discovery.

( OVER )

116-39

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA

OWNERS MINE REPORT

Date 3-15-40

Mine *The Green Serpent*

District *Eureka*

Location *Yavapai County*

Former name \_\_\_\_\_  
Owner *Hardy & Bertha E. Schell*

Address *Campwood*

Operator \_\_\_\_\_

Address \_\_\_\_\_

President \_\_\_\_\_

Gen. Mgr. \_\_\_\_\_

Mine Supt. \_\_\_\_\_

Mill Supt. \_\_\_\_\_

Principal Metals *Jade - some Chromium*

Men Employed \_\_\_\_\_

Production Rate \_\_\_\_\_

Mill: Type & Cap. \_\_\_\_\_

Power: Amt. & Type \_\_\_\_\_

Operations: Present \_\_\_\_\_

Operations Planned *assessment work only*

Number Claims, Title, etc. *1*

Description: Topog. & Geog. \_\_\_\_\_

Mine Workings: Amt. & Condition *location work.*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 3 - 15 - 40

Mine The Green Serpent

District Eureka

Location Yavapai County

Former name

Owner Hardy E and Bertha E. Schell

Address Camp Wood, Ariz.

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Jade - some chromium

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Operations Planned Assessment work only

Number Claims, Title, etc. 1

Description: Topog. & Geog.

Mine Workings: Amt. & Condition Location work

(over)

ME-9

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Mine *The Eagle point*

District *Eureka*

Former name  
Owner *Bertha E. Schell*

Operator —

President —

Mine Supt. —

Principal Metals *Opal*

Production Rate

Power: Amt. & Type

Operations: Present

Operations Planned *assessment work only.*

Number Claims, Title, etc. *1 claim others can be located.*

Description: Topog. & Geog.

Mine Workings: Amt. & Condition *location work - good.*

Date *3-15-40*

Location

Address *Camp Wood, Ariz.*

Address

Gen. Mgr.

Mill Supt.

Men Employed

Mill: Type & Cap.

ME-9

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 3 - 15 - 40

Mine <sup>Print</sup> The Eagle Point

District Eureka

Location

Former name

Owner Bertha E. Schell ✓

Address Camp Wood, Ariz

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Opal /

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Operations Planned Assessment work only

Number Claims, Title, etc. 1 claim, others can be located

Description: Topog. & Geog.

Mine Workings: Amt. & Condition Location work good

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 3 - 15 - 40

Mine ~~The Eagle Point~~ <sup>Point</sup>

District Eureka

Location

Former name

Owner Bertha E. Schell

Address Camp Wood, Ariz

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Opal

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Operations Planned Assessment work only

Number Claims, Title, etc. 1 claim, others can be located

Description: Topog. & Geog.

Mine Workings: Amt. & Condition Location work good

(over)

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 3 - 15 - 40

Mine Arrowhead No. 1

District Eureka

Location Yavapai County

Former name

Owner Bertha Ellis Schell

Address Camp Wood

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Iceland spar

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Operations Planned Assessment work

Number Claims, Title, etc.

Description: Topog. & Geog.

Mine Workings: Amt. & Condition Location work and assessment - good

(over)

MA-29

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 3-15-40

Mine Arrowhead No 1

District Eureka

Bertha Ellis Schell

Location Yavapai County

Former name

Owner Bertha Ellis Schell

Address Camp Verde

Operator —

Address

President —

Gen. Mgr.

Mine Supt. —

Mill Supt.

Principal Metals Iceland Spar ✓

Men Employed

Production Rate —

Mill: Type & Cap.

Power: Amt. & Type —

Operations: Present —

Operations Planned assessment work

Number Claims, Title, etc. —

Description: Topog. & Geog. —

Mine Workings: Amt. & Condition location work & assessments - Good.

DEPARTMENT OF MINERAL RESOURCES  
State of Arizona  
MINE OWNER'S REPORT

ME-9

Date: 3-15-1940

Mine: THE EAGLE PAINT MINE

District: Eureka Mining District,  
Yavapai County

Location: 20 miles from the end of  
the Camp Wood mail route.

Former Name:

Owner: Bertha E. Schell

Address: Camp Wood, Arizona.

Operator:

Address:

President:

Gen. Mgr:

Mine Supt:

Mill Supt:

Principal Metals: Opal.

Men Employed:

Production Rate:

Mill - Type & Cap:

Power - Amt. & Type:

Operations - Present:

Operations Planned: Assessment work only.

Number of claims, Title, etc: 1 Claim - others can be located.

Description - Topog:

Mine Workings - Amt. & Condition: Location work good.

DEPARTMENT OF MINERAL RESOURCES  
State of Arizona  
MINE OWNER'S REPORT

MA-27

Date: 3-15-1940

Mine: ARROWHEAD NO. 1

District: Eureka Mining District,  
Yavapai County

Location:

Former Name:

Owner: Bertha Ellis Schell

Address: Camp Wood, Arizona.

Operator:

Address:

President:

Gen. Mgr:

Mine Supt:

Mill Supt:

Principal Metals: Iceland Spar

Men Employed:

Production Rate:

Mill - Type & Cap:

Power - Amt. & Type:

Operations - Present:

Operations planned: Assessment work.

Number of Claims, Title, etc:

Description - Topog. & Geog:

BERTHA ELLIS SCHELL (OWNER)  
Camp Wood, Arizona

Mine Workings - Amt. & Condition: Location work and assessments - go

*E. M. P. A. for ...*  
*M.H. 07*

*8-13-42*  
*Lot*

MARK GEMMILL

This property idle.

THE GREEN SERPENT  
See: ARROWHEAD GROUP (file)  
YAVAPAI COUNTY

May 27, 1957

Eagle Point Mine  
 See Arrowhead  
 Opal  
 Yavapai 13 - 2 T 17 N, R 6 W  
 Bertha E. Schell, Camp Wood  
 Arrowhead Mine Camp  
 .70

MARK GEMMILL

This property idle.

Eagle Point Mine  
 See: Arrowhead Group (file)  
 YAVAPAI COUNTY

May 27, 1957



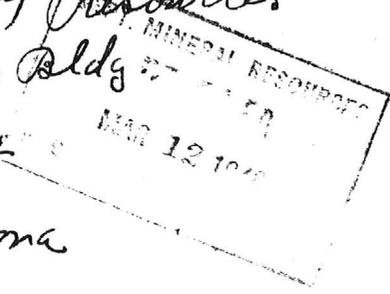
THIS SIDE OF CARD IS FOR ADDRESS.

Mr. Charles F. Willis  
Dept. of mineral resources.  
518 Title & trust building  
Phoenix  
Arizona



THIS SIDE OF CARD IS FOR ADDRESS.

Department of Mineral Resources  
304 Home Builders Bldg  
Phoenix  
Arizona



Camp wood ariz aug 26-22

Dear Mr. Willis: I have just received a letter from Mr. F. H. Putt of Calif. which I am answering. You can depend on me to advise you in the event of any sale or lease that I may make with Mr. Putt or others who may get my name from the <sup>Dept</sup> ~~Office~~ of mineral resources. Thanking you I am very truly  
Mrs. Bertha E. Schell

March 10th - 46 - P.M.

Dear Friends: - this morning I mailed you a letter about Hardy's glasses being lost - we found them here in Prescott late this evening - we are so happy to get them and felt we should let you know about finding them.

Best wishes to all  
Mrs. Bertha E. Schell

Arrowhead Group  
sec. 17, 18, 35, 36 T. 16 1/2 N., R. 9 W.  
Yavapai County

reference: Arizona Dept. of Mineral Resources  
Arrowhead Group Yavapai County (file)

minerals: Iceland spar, varieties of quartz, other  
pseudomorphs of calcite

present owner: Bertha Ellis Schell, Camp Wood, AZ.  
(1972 information)

#### history of the area:

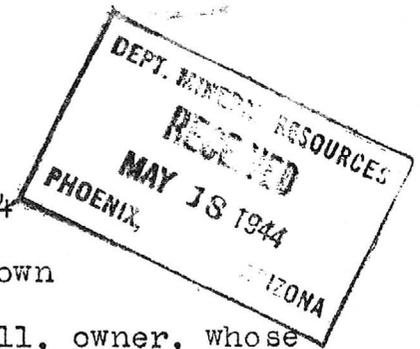
property was located in 1939 by  
Bertha and Hardy Schell. The property  
belonged to Bertha Schell of Camp Wood  
by 1940. Location and assessment work  
was done on many of the claims. Several  
of the claims were idle by 1955. As of  
1972 Mrs Schell was still owner  
of the claims.

#### geology of the area:

area is highly mineralized; minerals  
present are Iceland spar, chrysoprase,  
agate, heliotrope, blood jasper, dark  
green jasper, agate-jasper, variegated  
chalcedony, drusy and botryoidal quartz,  
white opal and rose quartz.

Arrowhead Group consists of: Tomahawk;  
Eagle Point #2, #4, #3; Arrowhead #1, #2;  
Sunburst; Carnelian; Green Serpent

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT



Mine Arrowhead Group

Date May 16, 1944

District Eureka of Yavapai County

Engineer B. W. Brown

Subject: Examination of Arrowhead Group for Mrs. Bertha Schell, owner, whose address is Arrowhead Camp via Camp Wood Arizona.

On May 12 & 13 of 1944 this engineer made a preliminary examination of the Arrowhead Group of Claims owned by Mrs. Bertha Schell, whose address is Arrowhead Camp via Camp Wood Arizona, for the purpose of determining the mineral character present on her mining claims. Concerning this, the following claims located in sections 35 and 36 of T 16 $\frac{1}{2}$  N-R 9 W G.&S.R.B.&M. were examined in the company of Mrs. Bertha Schell and herewith reported:

Tomahawk  
Eagle Point #4  
Eagle Point #2  
Arrowhead #2  
Sunburst (Two Placer Claims)  
Eagle Point #3  
Carnelian  
Green Serpent  
Arrowhead #1

The Arrowhead property is reached from the Yolo Ranch, which is westerly from Camp Wood, by about 16 miles of very rough ranch road and thence by about a mile of trail into Conger Canyon, a bold earth fracture in the vast extrusive flows of basaltic and rhyolitic lavas which characterize the region. At the time of my visit the canyon carried a good stream of water and it is said that live springs prevail the year around and supply clear running water in sufficient quantities for all camp and mining purposes. Water was being appropriated from the stream bed with about 900 feet of ditch channel (roughly estimated) conveying it to the camp and thence to a sluice used for washing the ore in preparation for market. A fine stand of sycamore trees covered the canyon floor. In the higher reaches of the canyon and on most of the claims the timber was for the most part scrub and brush.

The general area of these claims is highly mineralized and it may be inferred that high temperature vapors and gases bringing with them in part and gathering from the country rock in part siliceous and calcareous solutions yielding the many varieties of quartz and calcite found there today. There is also much evidence of secondary metamorphism through the action of hot or cold solution or possibly both, giving rise to the pseudomorphs that are found in the area. The minerals found on these claims are for the main part varieties of quartz and calcite of value either as collectors items or as gem and semi-precious material for the jeweler and artificer trades.. These minerals occur as placer in the talus on the Sunburst claims, as vein filling on the Green Serpent claim, and in fissures and vugs as well as in eroded masses on the other claims.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arrowhead Mine

Date

District

Engineer B. W. Brown

Subject: Continued

Among the varieties of quartz identified were various pseudomorphic forms after calcite, cryptocrystalline varieties including; chrysoprase, agate, a crude variety of heliotrope, blood jasper and a dark green jasper, agate-jasper, variegated chalcedony, drusy and botryoidal quartz, white opal and rose quartz. Of special interest was the 14 inch vein of green jasper with inclusions of chalcedony and prase occurring on the Green Serpent claim.

Large masses of doubly refracting calcite were found, some as great as ten inches across. These were, however, all taken at or near the ground surface and were weathered or temperature-checked enough to be unusable as optical grade iceland-spar. It is reasonable to expect to find the optical grade of spar when the workings have been taken far enough under cover to get beyond the zone of percolation and temperature change, providing, of course, that extreme care is exercised in pursuing this work. In the Arrowhead #1 claim the spar occurs in very large masses in a very favorable and loose formation. On the Tomahawk claim this engineer extracted from in situ a nearly perfect scalenohedron formed by the twinning of dogtooth spar, a single crystal of better than 7 inches in length.

Good trails lead to every claim and this trail work together with ditch work on the water-right has been advanced by Mrs. Schell in fulfillment of her assessment work, the claims now being held under assessment exemption. The following is a brief summary of each claim showing mineralization and work done:

<u>NAME OF CLAIM</u>	<u>MINERAL</u>	<u>WORK DONE</u>
Eagle Point #4	Chrysoprase & rose-quartz	Abandoned claim No location work
Eagle Point #2	Milky Opal	Abandoned claim Location work in doubt
Arrowhead #2	Blue Chalcedony	Trench Cut 8 ft deep 5 ft wide 10 ft long

**DEPARTMENT OF MINERAL RESOURCES**  
**STATE OF ARIZONA**  
**FIELD ENGINEERS REPORT**

Mine Arrowhead Mine

Date

District

Engineer B. W. Brown

Subject: Continued

<u>NAME OF CLAIM</u>	<u>MINERAL</u>	<u>WORK DONE</u>
Sunburst Placer (two claims)	Rose-tinted botryoidal quartz, scalene calc-spar, variegated chalcedony	Monuments OK
Eagle Point #3	Blood-jasper	Abandoned claim No location work
Carnelian	Poor grade heliotrope Agate Agate-jasper	Trench-cut 8 ft deep 15 ft long 5 ft wide
Green Serpent	Green jasper Prase 14 inch vein SLOW Dip East 40 degrees	Trench-cut 10 ft deep 14 ft long 4 ft wide
Arrowhead #1	Iceland spar (Weathered and not optical grade )	Discovery hole 8 ft deep
Tomahawk	Pseudomorphs Scalenohedrons	Discovery hole 8 ft deep

In conclusion it may be said that the finer gem materials and the optical grades of iceland spar may reasonably be anticipated with deeper development of this property. The Arrowhead #1 has the best indications of optical grade spar as it has disclosed massive crystals in a loose ash formation. The Green Serpent, Carnelian and Sunburst claims have excellent showings of gem material and it is reasonable to expect an increase in grade with deeper development. The Eagle Point #4, also, showed excellent material on the outcrop.

