ROBERT M. ADAMS COMPANY

DULUTH 2, MINNESOTA

April 8, 1958

Mr. Annan Cook
District Geologist
Southwest District
Kennecott Copper Corporation
1606 Hobart Building
San Francisco 4, California

Dear Mr. Cook:

RE FORTUNA-RIQUEZA

Referring to your letter of March 17, we have looked through our files here and do not find any assays for this Hole D.D. R 22-1, but we do find in our records the following reference:

> "Our drilling of last spring was not satisfactory in that we didn't find any sulphides to 150 feet in the hole at the east end and in the hole on the north side. We did pick up sulphides at a shallow depth in the hole at the west end. All the holes show just the same low fractional values."

These three holes were drilled for assessment work in the spring of 1953. At that time the late Mr. Seton S. Williams had charge of our field work in that area. Since his death it is of course to be expected that there could be missing files.

I think the drill samples may be available at Tucson and, if so, could be examined in case you desired it.

It appears from our notes that the hole was still in the oxidized material.

Very truly yours,

/s/ Robert M. Adams

RMA:law
cc: Mr. Robert M. Adams, Jr.
Mr. C. H. Burgess
Mr. Allen M. Rugg, Jr.

COPY

ROBERT M. ADAMS COMPANY
NEVADA
Duluth 2, Minnesota

November 12, 1957

Mr. Allen M. Rugg, Jr.
5202 East 16th Street
Tucson, Arizona

Dear Mr. Rugg:

RE FORTUNA-RIQUEZA

Your letters of October 2 and 23--I am awaiting further information from Kennecott on this as well as on Gila Copper.

I am glad to note that both on the ground and from the records there does not appear to have been any intervention as to our claims on the north side of Ragged Mountain on which we stopped assessment work and on which we did not renew assessment work this summer. This means that we have got 14 claims which include a good toehold on the north side, but that there are many more claims out of our original block of some 40 on which we did not resume assessment work but which as yet have not been relocated by anybody else. This is of interest to us.

Very truly yours,

RMA:law
cc: RMA, Jr.
VHV

ROBERT M. ADAMS
Duluth 2, Minnesota

February 8, 1957

Mr. Victor H. Verity
2207 East Waverly Street
Tucson 13, Arizona

Dear Vic:

Fortuna. Note copy of letter to Mr. Rugg as to possible filings and Kalaf.

Gila Copper. Ditto, as to possible filings.

Gila Copper-Mitchell. I note your recent letter to him asking him to contact you when next in Tucson.

Fortuna-notice. I believe you were going to give Mr. Rugg a form similar to that prepared for the Hermsdorf but eliminating a claim map to be posted on the Fortuna advising that this is occupied property.

1955 act--167, for the filing in the various counties of desire to be notified--didn't we decide that this should be done on any unpatented claims that we have whether they were located be ore or after the date of this act? I believe you were going to prepare a form which could be used in any such instance.

Malc and inmigrante regulations. Thanks for the letter that you wrote him on that subject.

Very truly yours,

/s/ Robert M. Adams
law

RMA:law
Enclosures
cc: Mr. Robert M. Adams, Jr.
Mr. Allen M. Rugg, Jr.

ROBERT M. ADAMS COMPANY
NEVADA
Duluth 2, Minnesota

February 8, 1957

Mr. Allen M. Rugg, Jr.
5202 East 16t Street
Tucson, Arizona

Dear Mr. Rugg:

Re Fortuna. Along the lines of our conversations in Tucson, how would it be if sometime you stopped at Florence to see if in the county records any location work had been filed which would have any bearing upon any of our claims?

I hope that Mr. Kalaf will contact Mr. Verity as I suggested to him in our last conversation at the Atlas Mine and where we had been exploring the possibilities of getting together on lines satisfactory to both parties.

Hermsdorf. That is for RMA Company account.

Very truly yours,

Robert M. Adams
law

RMA:law
cc: Mr. Victor H. Verity

ROBERT M. ADAMS
FIDELITY BUILDING
Duluth 2, Minnesota

November 16, 1956

Mr. Allen M. Rugg, Jr.
5202 East 16th Street
Tucson, Arizona

Dear Mr. Rugg:

Will you please bill separately for Fortuna against Robert M. Adams Company and not have it in the same invoice with Adams-Winston Western.

Very truly yours,

Robert Adams

RMA:law

ROBERT M. ADAMS COMPANY
DULUTH 2, MINNESOTA

November 7, 1956

Mr. Victor H. Verity
2207 East Waverly Street
Tucson 13, Arizona

Dear Vic:

RE: FORTUNA-RIQUEZA

Referring to Mr. Rugg's letter of November 3--commenting on his recent conversation with Mr. Kalaf--I think it is time for us to go on record as follows: That we are not interested in Mr. Kalaf's suggestions of tying up all of our thoughts as to this area on an option to buy out the whole thing for $35,000, payable over a three-year period with a 10% royalty to apply on the purchase price.

Now all this would amount to would be a three-year lease with the right to end up with the whole property on a very fair-weather basis. If the property produces anything worthwhile, the smelter returns as we went along would speedily retire the cost. This is just the kind of a deal we don't want.

If he wanted an option for a lease on the former Franco area, that would be one thing; but coupling it with the privilege of buying the property and applying royalties thereon doesn't interest us. For one thing, the price is entirely too low and I don't like those fair-weather deals anyway.

We have got approximately $35,000 in the project to date. What do we want to give him an option to maybe not even let us out whole if the thing is a success? Where I refer to being a success, I mean simply, work in the immediate area of the present workings--which may or may not tell the story as a whole.

No; we are glad to talk with him about an exploration option; we would be perfectly willing to give him a proper lease. But we are not going to give him a free ride to buy the whole thing for a song.

Very truly yours,

RMA:law
cc: Mr. Robert M. Adams, Jr.
Mr. Allen M. Rugg, Jr.

PHILIP H. ANGELL
ROBERT M. ADAMS, JR.
T. F. ANGELL
PHILIP H. ANGELL, JR.
EDWARD L. BARRY

ANGELL AND ADAMS
ATTORNEYS AT LAW
200 BUSH STREET
SAN FRANCISCO, CALIFORNIA
YUKON 2-4151

October 1, 1956

Victor H. Verity, Esq.
2207 East Waverly
Tucson, Arizona

Dear Vic: Re: Fortuna

I acknowledge receipt of copy of your letter to Dad of September 26th, outlining Mr. Kalaf's ideas for the Fortuna. In view of the fact that I know Dad is leaving for a couple of weeks in the East, it occurs to me that I ought to pass on a couple of reactions.

The key to Kalaf's proposal it seems to me is to define precisely what he means by suggesting that "the claims adjacent to the mine workings should be included in the transaction". If he is willing to limit this to the area around the immediate workings and leave us the possible gamble on the North side of the fault, which I understand exists, we might have a basis for discussion with him.

I am inclined to agree with you that his suggested price of $35,000.00 may be somewhat low, but that again would depend on how much ground he is thinking about. Obviously, we wouldn't dispose of the entire picture for that figure. On the other hand, if he is willing to confine himself to the area of the present showings, I can see some merit in RMA CO's having the proceeds of such a sale for other purposes.

As possible embroidery, we might consider suggesting to him that we would agree to accept his figure for an assumed tonnage of so many tons of ore with the understanding that if their production from the property exceeded such assumed figure, then we kick in again for some sort of overriding royalty on the excess. The attractiveness of the proposal from our standpoint is that we would get some very important exploratory work done which would give us considerable information concerning the property, if he didn't exercise his option. And if he did, it would produce some funds with which we could then possibly determine whether the geologic hunch on the North side has any merit.

You will undoubtedly hear from Dad shortly after his return about the middle of the month, but in the meantime I think it would be helpful to him if it is possible for you to indicate a little more precisely just what ground Mr. Kalaf has in mind.

With best regards.

Yours very truly,

Robert M. Adams, Jr.

cc- RMA

September 29, 1956

Mr. Victor H. Verity
2207 East Waverly Street
Tucson 13, Arizona

Dear Vic:

RE ATLAS

I have read with interest the ideas of the Atlas people regarding the south side of the Fortuna, and I note that in due course we will have a letter from them with some suggestions.

It seems to me there are two or three principal points to consider:

1. The drilling would be of advantage. It will help to prove or disprove this Buena Vista area, and will be helpful towards the amount of money we want to show spent on the Fortuna group for patenting purposes.

2. As to the program of Atlas, there I am a little bit concerned. It looks as if they wanted a little high grade picture. If they found it, it wouldn't take them long to take it out. Ten per cent returns might be small potatoes. Then whether they would go digging around trying to find more pockets, I don't know.

   I note you aren't entirely satisfied that there is no possibility on the south side other than just a little pocket or two. Now if it began to show something worthwhile and it developed into an open-cut area, then maybe it wouldn't be such a short-time proposition?

3. As to that lease and bond, a very short-time lease of six or nine months I don't quite understand--unless it is simply an effort to find a little pocket and gouge it out quickly and then be all through. Now if that is the program, having a $35,000 bond just protects Atlas in that if they found something larger than they expect they would be able to grab it off cheaply, and it would work in reverse to our detriment?

4. As to the north side, as long as they profess no interest therein I don't see that what our plans might be in the future over there would have any effect.

COPY

By the way, if we did go back and re-stake any area on the north side, how about the fact that we located all that area, did our location work, carried on assessment work up to a certain point and then didn't file any assessment work; and if nobody else has stepped in, suppose Atlas did a considerable amount of drilling on the south side and the two blocks connected? Could we apply work done on the south side to the entire block, and also could we step back in again on our old locations if nobody else had intervened without having to re-locate them all over again?

Regarding Mr. Rugg's idea of a preliminary self-potential geophysical survey on the north side, I don't think that is a bad idea; and I don't see that we have to step in and do a whole lot of expensive re-location work if it is necessary before making such a survey?

As I remember it, the geophysical work that we did was mostly over on the west end rather than on the north side. I believe some geochemical work was done on the north side, but that none of that resulted in anything worthwhile anyway?

For the moment, it at least is interesting that we have an inquiry for the south side.

Very truly yours,

Robert M. Adams
law

RMA:law (a)
cc: RMA, Jr.
AMR, Jr.

COPY

22

amR, jr

September 28, 1956

Mr. Victor H. Verity
2207 East Waverly Street
Tucson 13, Arizona

Dear Vic:

RE FORTUNA

Yours of the 26th referring to conversation at the Rugg's with Mr. Kalaf and his brother. His possible interest in this is logical from the standpoint of his Atlas mill--I can see that.

I note his approach is to drill from the surface and then from underground with the hopes of finding a small high grade body which he could take to the Atlas mill, and that he figures he could do this drilling in six to nine months. He also doubts that diamond drilling would be too accurate--that only sampling would be reasonably accurate.

It is obvious that he expects that in his drilling he would get enough information to know whether he wanted to buy the property. If it were obviously a good thing, he would buy it for $35,000; if not, he would be out his drilling.

Now, granted, to get a bunch of drilling done and make or break the immediate area of the Franco workings would be of interest to us and provide not only next July's assessment work but probably much more than enough money to total the balance we would need on seven claims at $500 per each to equal exploration requirements for patenting. At this point of course I would raise the same question that you and I have discussed many times before--would the government engineer OK patenting a group of seven claims around one ore body? Or, if you have got to show ore in place on each of the seven claims--which sounds quite extreme.

Granted, however, that drilling would be of interest to us, it also is interesting to note that he would have no part of the claims to the north, which is just as well.

As to buying the property at the end of a short option for $35,000, I don't think an awful lot of that price, nor do you. Our contract with Ruby Shaw was $50,000. If it is a small ore body and we could realize quick money and be through with it, we could play our curiosity--at least mine--as to the north side to our convenience. But it leaves the following points on which I would like your slant.

COPY

How can we hedge our bet? We have seven claims in this block. He is looking for a small ore body. You say we should not rule out "the possibility of an open pit operation if--". Again if it is a small ore body, selling for say $50,000 and calling it a day isn't too bad; but if there is any chance of a little open pit, then I am not so sure that I like that deal.

I suppose say $50,000, being the equivalent of 10 per cent net smelter returns on a half million would be the picture to think about. We would simply be betting that he didn't find more than a half million net smelter return ore body, or not too much more?

Very truly yours,

Robert M. Adams
law

RMA:law
cc: RMA, Jr.
AMR, Jr.

COPY

ROBERT M. ADAMS COMPANY
NEVADA
Duluth 2, Minnesota

September 28, 1956

Mr. Allen M. Rugg, Jr.
5202 East 16th Street
Tucson, Arizona

Dear Mr. Rugg:

RE FORTUNA-RIQUEZA

Referring to your letter of the 24th, I note with interest the area you outline to the north using some eleven of our former claims and proposing four self potential geophysical survey lines.

I assume your thought would be that we would simply do this in advance of any relocation, and the cost of this first (self potential) survey would be quite modest.

Didn't we have some geophysical work done on the north side, or was that mostly at the west end? Perhaps I am thinking of geochemical surveys where we got onto the north side? I don't remember that we got anywhere therewith.

Very truly yours,

Robert M. Adams
law

RMA:law
cc: RMA, Jr.
VHV

ROBERT M. ADAMS
FIDELITY BUILDING
Duluth 2, Minnesota

September 12, 1956

Mr. Allen M. Rugg, Jr.
5202 East 16th Street
Tucson, Arizona

Dear Mr. Rugg:

In writing you yesterday about the Fortuna and the north side as to mapping out a string of claims that would cover that fault, I meant to add that, referring to the geophysical methods you mention, to what extent could you test such methods out at this point sometime?

Very truly yours,

Robert Adams

RMA:law

ROBERT M. ADAMS
FIDELITY BUILDING
Duluth 2, Minnesota

September 11, 1956

Mr. Allen M. Rugg, Jr.
5202 East 16th Street
Tucson, Arizona

Dear Mr. Rugg:

RE FORTUNA-RIQUEZA--Yours of the 1st

Ventures. We will cross them off as not being interested.

North side oxidation. I don't know whether Seton Williams considered the possibility of high grade. We were thinking more of the possibility of dissemination. As a matter of interest, suppose we wanted to keep for the present that fault zone protected. Will you mark out how many claims in a row it would take and can they be added to the seven we have kept?

Now as regards Mr. Kalaf of the B.S. & K. Mining Company, I believe it would be advisable for him to contact Mr. Verity and talk with him. I have been talking with Vic on the phone this morning.

Very truly yours,

Robert Adams

RMA:law
cc: Mr. Robert M. Adams, Jr.
Mr. Victor H. Verity

ALLAN M. RUGG JR.

REGISTERED ENGINEER - CONSULTANT - GEOLOGY AND GEOPHYSICS

5202 East 16th Street
Tuscon, Arizona
Telephone 6-3710

July 17, 1959

RECEIVED AUG 14 1959

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

With reference to your letter of June 23, 1959, I am now in Central Wyoming and have been for sometime. It will be late in October before this job is finished and it may extend for several months beyong that. Because of this, you may wish to get someone else on the job.

As to the Fortuna, I hope a drill rig can make it up the road we cleared. A skid rig could make it easily. You are correct in your statement on mineral on the Fortuna. I know that Vic fals working toward a patent would be the best approach.

My address in Wyoming is P.O. Box 74, Dubois.

Very truly yours,

/s/ A.M. Rugg

COPY

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

November 20, 1958

Mr. A. M. Rugg, Jr.
5202 East 16th St.
Tucson, Arizona

Dear Al: Re: FORTUNA

I read my copy of Mr. Adams' letter to you of November 3. With reference to any future assessment work that might be done, I would suggest that if it consists of diamond drilling or digging a shaft or open cut, that it be done on a claim which presently does not have a discovery. When it comes to patenting, it is not possible to patent a claim which does not have a discovery of valuable mineral in place. If, however, there are weak claims adjoining ones on which a substantial discovery has been made, the mineral examiners in this area have always been very fair and have taken into consideration the general geology and all factors to give the patent applicant all the benefit of the doubt and, wherever possible, weak claims are allowed to go through to patent. For this reason I recommend that from now on, any plans for additional study and drilling take into consideration this thought of making a discovery on some of the other claims in the group.

Very truly yours,

Victor H. Verity

cc-RMA
RMA, Jr.

BEAR CREEK MINING COMPANY
SOUTHWEST DISTRICT
1606 HOBART BUILDING
SAN FRANCISCO 4, CALIFORNIA

April 16, 1958

Mr. Allen M. Rugg
5202 East Sixteenth Street
Tucson, Arizona

Dear Mr. Rugg:

I have heard from Mr. Robert M. Adams that you will be able to show me some of the drill hole samples from the Fortuna-Riqueza property.

I expect to be in Tucson shortly so either Mr. Jacobson or I will contact you about these.

Very truly yours,

Annan Cook

Annan Cook
District Geologist

AC:tw
cc:Mr. H. S. Jacobson

C O P Y

BEAR CREEK MINING COMPANY
1606 Hobart Building
San Francisco 4, California

April 10, 1958

Mr. Robert M. Adams
Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

Concerning your letter of April 8, 1958 with regard to the Fortuna-Riqueza property I would be glad if I could see the drill samples of hole D.D. R 22-1. I understand from your letter that these are available in Tucson.

Can you arrange for me to see them sometime?

Very truly yours,

/s/

Annan Cook
District Geologist

AC:tw
cc:Mr. C. H. Burgess

April 14, 1958

Mr. Rugg: I sent you copy of my April 8 letter to Mr. Cook.

R. M. A.

C O P Y

BEAR CREEK MINING COMPANY
1606 Hobart Building
San Francisco 4, California

March 17, 1958

Mr. Robert M. Adams
Adams Brothers Company
Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

I was able to visit your Fortuna-Riqueza property ten days ago and was interested to find a diamond drill hole on the R#22 claim. This lies in the eastern part of your ground.

On the reconnaissance geological map prepared by Messrs. S. S. Willaims and T. A. Dodge on a scale of 200' to the inch, I find this marked as DD22-1. It was evidently drilled to a depth of 150' in March 1953 according to the notes on the map. Do you have any of the results of this drilling? I am very anxious to know.

Your son called at the office this morning to leave some more maps of your Gila copper area and he suggested that I should send a copy of this letter to Mr. Verity in Tucson. Mr. Verity apparently knows the ground very well.

Sincerely,

/s/

Annan Cook

AC:tw
cc:Mr. V. Verity
Mr. C. H. Burgess

October 23, 1957

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE: Fortuna

Another check was made in the field in an attempt to locate the O & A claims staked in 1956 by Ernest O'Dell and Glenn Allen. I did not find the claims but it is possible that they are further south in Sec. 26. The description indicates they are in this section which would place them south of the Buena Vista and probably south of any of the Fortuna claims. The O&A claims are recorded in Book 977, pages 273-281. There are 9 claims in the group.

I believe that there have been no claims staked to date over any of the Fortuna group.

Very truly yours,

Allen M. Rugg, Jr.

cc: Mr. Robert M. Adams, Jr.
Mr. V. H. Verity

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9446

October 17, 1957

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor, Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams: Re: FORTUNA

Prior to September 30, Al Rugg had checked the ground at the Fortuna mine and had also gone to the County Recorder's office and given me by phone the information that is contained in his letter to you of October 2. I then prepared an Affidavit of Labor and Improvements Made, covering the assessment year beginning July 1, 1956 and ending July 1, 1957, showing the expenditure of $1,400.00 on fourteen claims making up a group of contiguous claims. The affidavit was recorded September 30, 1957 in Book 1181, Page 348. I enclose the original recorded affidavit. Conformed copies are being sent to Bob and Al.

Very truly yours,

Victor H. Verity

VHV:ca

cc: Mr. Robert M. Adams Jr.
Mr. Allen M. Rugg

Enc.

COPY

Recorded
State of Arizona
County of Pima -

Instrument No. 59377
Book 1181 - Page 348
Date: September 30, 1957

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
COUNTY OF PIMA)

Leland C. Vought, being duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one years of age, resides at Tucson in Pima County, Arizona, and is personally acquainted with the following described mining claims situated in the Silver Bell Mining District of Pima County, Arizona, the location notices of which are of record in the office of the County Recorder in Pima County:

Name of Claim	Docket	Page
Fortuna	314	54
Fortuna No. 2	539	555
Fortuna No. 6	645	330
Fortuna No. 7	645	331
Fortuna No. 9	646	565
Esperanza	314	55
Suerte	314	56
Riqueza #3	371	125
Riqueza #5	371	127
Riqueza #14	399	29
Riqueza #15	399	30
Riqueza #16	435	302
Riqueza #17	435	303
Riqueza #18	435	304

That between June 27, 1957 and July 11, 1957, at least One Thousand Four Hundred Dollars ($1,400.00) worth of work and improvements were done and performed upon said claims for the benefit of all the claims in the group. This work was done by Mines Exploration & Development Company for and at the expense of Robert M. Adams Company a corporation, for the purpose of complying with the laws pertaining to annual assessment work for the assessment year beginning noon July 1, 1956 and ending noon, July 1, 1957. The work consisted of diamond drilling to a depth of 200.5 feet on the Fortuna No. 9. Robert Metler and C. Waits, employees of Mines Exploration & Development Company, were the men who performed the work.

Leland C. Vought

Leland C. Vought
Pres., Mines Exploration & Development Company

Subscribed and sworn to before me September ~~28~~ 30th, 1957

My commission expires:

May 6, 1959

Nellie A. Figueroa (Notary Seal)
Notary Public

October 2, 1957

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE: Fortuna-Riqueza

With reference to your letter dated September 27, a brief field check was made last week at Mr. Verity's request to determine whether or not there had been any intervention on the Riqueza claims. I found no evidence of any one having staked the ground or any indications of location work.

A check was also made on all claims staked in the Silver Bell Mining District according to the Pima County records since July 1, 1955. There are two sets of claims which are described as being in the vicinity of the Fortuna group. I do not believe that either group cover the ground held by you. The next time I am out in the field, I will make a quick check to see if I can find these claims and eliminate any further question about them.

Very truly yours,

Allen M. Rugg, Jr.

cc: Mr. Robert M. Adams, Jr.
Mr. V. H. Verity

Sept. 6, 1957

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE: Nevada Iron

With reference to your letter to me dated June 13, 1957, here is a long overdue reply.

I had hoped to be free sometime in the late summer for a trip to Dixie Valley, but now it seems that October will be the best bet. It will probably be the last half of the month which is getting plenty late to make the trip because of snow. If you wish to make the trip at this time, I will try to arrange my schedule accordingly.

Very truly yours,

Allen M. Rugg, Jr.

cc: Mr. Robert M. Adams, Jr.

(Nev. Fe)

September 6, 1957

Mr. Robert M. Adams
Robert M. Adams Company
18th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE: Fortuna-Riqueza

Enclosed is the drill log on the hole drilled at the Fortuna-Riqueza property for assessment work during June and July, 1957.

You will note that the hole hit the old workings which certainly was not intended. This indicates that there is some error in the subsurface maps since the hole should have missed the old workings by at least 20 feet. The hole is near the junction of the intermediate and lower adits. A transit survey would be necessary to correct this survey since previous work was done with a brunton compass. This has not been done since you suggested sometime ago that expenses be held to a minimum.

Very truly yours,

Allen M. Rugg, Jr.

cc: Mr. Robert M. Adams, Jr.
Mr. Victor H. Verity

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAst 5-9448

August 21, 1957

Mr. Robert M. Adams
12th Floor Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

With reference to preparation of an affidavit of annual assessment work at the Fortuna claims, Al informs me that $1400.00 worth of work was done starting June 27 and ending July 11, 1957. Do you wish to hold the same seven claims that were held last year for the period ending noon, July 1, 1957 and apply $700.00 for that purpose, then make another affidavit for $700.00 worth of work for the year beginning noon, July 1, 1957 and ending noon, July 1, 1958? If you do not wish to do it this way but instead desire to apply the full $1400.00 to hold the fourteen claims for the year ending noon, July 1, 1957, please advise me the names of the claims which you wish to have described in the affidavit.

The seven claims previously held were the Esperenza, Suerte, Fortuna, Fortuna #2, Fortuna #6, Fortuna #7 and Fortuna #9. Al suggests that if you wish to apply all of the cost to the assessment year just ended that he would recommend you hold the Riqueza claims Nos. 3, 5, 14, 15, 16, 17 and 18.

Very truly yours,

Victor H. Verity

VHV:ca

cc Mr. Robert M. Adams, Jr.
Mr. A. M. Rugg, Jr.

COPY

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

May 21, 1957

Mr. Allen M. Rugg, Jr.
5202 East 16th St.
Tucson, Arizona

Dear Al: Re: Fortuna

On the afternoon of May 16 a man by the name of Hartley called at the office and wanted to know if I was associated with you in the mine at Ragged Mountain. I explained that I am an attorney and represent the Robert M. Adams Company and that you are a geologist. He wanted to know what information I could give him about sampling at the mine. He caught me at a time when I was snowed under with a lot of last minute detail in order to leave town the next morning on a trip to the graphite mine. It would have taken several hours to dig out all the information he wanted and furthermore, if I remember correctly, I turned over most of the records to you to compile the geological data on the Fortuna.

Under the circumstances I suggested that he see you. He said he had tried but you were out of town. However, he planned to go back later in the day.

I told him that if he was interested in the property and wanted to take a lease an option to let me know and I would handle legal details with Mr. Adams.

Hartley said he used to work for Isbel Construction Company at the Silver Bell property of ASARCo but when Isbel pulled out he went to work for ASARCo. He was driving what looked like a rather new Buick station wagon but if he is just a working man he probably doesn't have much to put in mining. He was under the impression that the principal values were in lead and that the combination of lead, zinc and copper would average 4 or 5%.

Very truly yours,

Victor H. Verity

cc-RMA

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

February 19, 1957.

Mr. Allen M. Rugg
5202 East 16th Street
Tucson, Arizona

Dear Al:

I enclose original of a notice "To Whom it May Concern" regarding the Fortuna No. 9 and other lode claims. Also enclosed is an extra for your file.

The first time it is convenient for you to do so on your way to or from the Atlas mine will you see that this notice is posted at the portal of the main tunnel on the Fortuna No. 9.

Very truly yours,

Victor H. Verity

cc.- Mr. Robert M. Adams
Mr. Robert M. Adams, Jr.
VHV:asv

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

November 14, 1956.

Mr. A. M. Kalaf
Suite 367, First National Bank Bldg.
411 North Central Avenue
Phoenix, Arizona

Dear Mr. Kalaf:

I received correspondence from Mr. Adams in which he comments on your suggestion of an option on the Fortuna property at a purchase price of $35,000.00 payable over a three-year period with a 10% royalty to apply on the purchase price. He states that such an option is not attractive to him but he would be glad to discuss further the possibility of coming together on some kind of an agreement for an exploration option and a suitable lease. The next time you happen to be in Tucson I'll be glad to meet with you and discuss the matter further if you are interested.

At the present time it looks as though I will be leaving Tucson November 24th for a few days, but except for that absence will probably be in Tucson and available on relatively short notice.

Very truly yours,

Victor H. Verity

COPY

cc.- Mr. Robert M. Adams
Mr. Robert M. Adams, Jr.
Mr. Al Rugg, Jr.
VHV:asv

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

November 7, 1956.

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

I have copy of Al Rugg's letter to you of November 3. I note Mr. Kalaf wants to include all claims on the north side as well as the seven that you are now holding which make up the Fortuna group.

In view of Mr. Kalaf's ideas I think before I make any effort to get in touch with him I would like to have your comments.

Very truly yours,

Victor H. Verity

cc.- Mr. A. M. Rugg, Jr.
Mr. Robert M. Adams, Jr.
VHV:asv

November 3, 1956

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE Fortuna Riqueza

With reference to Mr. Verity's letter to you dated November 1, 1956, I checked with Mr. Kalaf on some questions Mr. Verity had.

Mr. Kalaf is interested in obtaining all of the claims on both sides of the mountain instead of the seven only which are now in the Buena Vista group.

Mr. Kalaf would agree to pay the $35,000 over a three year period to start at the end of the option period. He suggested three equal payments. He would also agree to pay a 10% royalty on net smelter returns. If at the time the payment was due, the royalty payment was less than the annual payment, the annual payment would be paid. If the royalty payment was more than the annual payment, the difference would be applied to the purchase price of the property.

Very truly yours,

Allen M. Rugg, Jr.

cc.- Mr. Robert M. Adams, Jr.
Mr. Victor M. Verity

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

November 1, 1956.

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota.

Dear Mr. Adams: Re: FORTUNA

Over the past month letters have come in from you and Bob in regard to the Kalaf offer on the Fortuna property. I haven't seen Mr. Kalaf since the evening I talked with him at Al Rugg's home but I discussed the matter with Al this morning and tomorrow (Friday) he goes to the Atlas Mine where he expects to see him. I discussed with Al the points brought up in your letters and Bob's and Al made notes and will ask the questions of Mr. Kalaf and write you directly on Saturday. I am leaving Tucson this afternoon but will be back on Sunday and in the office Monday morning November 5. If, upon receipt of Al's letter, you will write and give me your thoughts, then I'll arrange to set up an appointment to meet Mr. Kalaf in Tucson and see what can be worked out.

Very truly yours,

Victor H. Verity

COPY

cc.- Mr. A. M. Rugg, Jr.
Mr. Robert M. Adams, Jr.
VHV:asv

October 6, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE: FORTUNA-RIQUEZA

This is in reply to your letter of September 28, which concerns the north side of the mountain.

The geophysical work that was done was two lines on the west end of the property down in the flat area. Both magnetic and self potential measurements were made on these two lines. Results were negative.

Some geochemical samples were taken in the area on the north side of the mountain in the area proposed for some self potential work. Although results do not show a pronounced anomaly, it is of interest to note that there is a slight increase in total heavy metal content along the line at the east side of Riqueza No. 15. This may or may not have any significance.

Very truly yours,

Allen M. Rugg, Jr.

cc: Mr. R. M. Adams, Jr.
Mr. V. H. Verity

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

September 26, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

On the evening of September 20 the Ruggs invited Lauretta and me over for dinner to meet Abe Kalaf and his brother, George. Although I have done a little work for B.S.& K. Mining Company (Atlas Mine) and have talked with Abe Kalaf by phone, had never met him.

After dinner we discussed the possibility of a deal on the Fortuna mine. Abe Kalaf expressed the following ideas.

He says that they have recently completed substantial improvements in their mill whereby he now figures he has extra capacity and it will do a better job. The Atlas Mine mills chalcopyrite and sphalerite. He figures that ore from the Fortuna could be put through this mill.

In your letter of September 11 you wondered if the Atlas Mine was "wearing out". Al is in a better position to answer that question than I am but my understanding is that the nature of the ore bodies in the Atlas is such that it is not an easy matter to develop ore reserves without an excessive amount of exploratory work. Kalaf says that he does not have to timber nor pump but that he does spend considerable money on diamond drilling and in this way they locate the ore body. When found he says they are very high-grade. So far as I know there is no reason to believe that the property is about to become exhausted.

Kalaf says that from what he can see of the mineralization at the Fortuna now, he does not believe that it could be operated profitably. His idea is that he would set up a diamond drill over known ore and drill down and then fan out holes into the area where the ore is most likely to be found. He does not believe it wise to move too far away from known ore. They have diamond drilling equipment at the mine which they can use for the purpose. If first drilling showed anything of interest he might want to go to some underground drilling as well.

Kalaf apparently is thinking in terms of finding a smaller

COPY

area of higher grade ore rather than a large deposit of low-grade ore. I would not rule out the possibility of an open pit operation if the ore can be found farther to the east and north from known workings. However, anything that we might state along this line is purely conjectural as not enough is known about the ore occurrence to speculate as to where it goes or what the grade might be.

Kalaf figures it would be necessary to plan a new road to the Atlas in order to shorten the haul.

Kalaf suggested a short term lease with option to buy. I don't think he would plan on producing ore in quantity from the mine during the term of his lease. He mentioned a very short term of something like 6 to 9 months which he figured would be ample for him to do the drilling that he believes necessary. If that indicated something sufficiently interesting he would move underground and extract some of the ore by conventional mining methods, trucking this to his mine where it could be sampled on large scale. He thinks that diamond drilling results probably wouldn't be too accurate in the Fortuna ore. He thinks only sampling in say 100 ton lots would be reasonably accurate.

Kalaf said he would offer a price of $35,000.00 on the mine. It struck me that this was low but I did not attempt to discuss price with him, merely stating that I would pass all the information along to you.

Kalaf knows that you are holding the main claims around the mineral showing and that assessment work has been done. He also knows that there are many claims in the area which were located by Robert M. Adams Company but for which assessment work has not been done. He said he thought the claims adjacent to the mine workings should be included in the transaction. He said that undoubtedly he would do sufficient work so that it would take care of assessment work requirements for all of the claims that would be of interest.

Kalaf is not interested in the area on the north side of the mountain. Al tells me that he is working up a letter to you explaining what he thinks should be held, if anything, along the fault on the north side of the mountain.

I may have overlooked some minor matters but copy of this letter is going to Al with the request that if he thinks I left out anything pertinent to write you with copy to me.

Let me have your ideas then we will move on from there.

Very truly yours,

cc-RMA,Jr.
Al Rugg

Victor H. Verity

ALLEN M. RUGG, JR.

REGISTERED ENGINEER — CONSULTANT — GEOLOGY AND GEOPHYSICS

5202 EAST 16TH STREET
TUCSON, ARIZONA
TELEPHONE 6-3710

September 24, 1956

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: RE: FORTUNA-RIQUEZA

With reference to your letter of September 11 and 12, enclosed is a map of the Fortuna-Riqueza claims held by assessment work bounded with red and claims recommended for checking the high grade possibilities on the north side of Sawtooth bounded with brown.

At first an attempt was made to lay out claims along the fault zone utilizing existing location pits and reorienting claims. However, the arrangement of the pits makes it difficult to reorient claims so that there will be a pit on each one. Since this would also require remonumenting the new claims, it was decided for the present it would be better to utilize the existing claims even though there are 11 in the group where 7 to 9 would serve the purpose if claims were reoriented.

As to testing geophysical methods, self potential could be tried at a relatively low cost by running lines along the end lines of Riqueza No. 3 and No. 2, Riqueza No. 5 and No. 6, and Riqueza No. 16 and No. 17. These lines should be from 2000 to 4000 feet long and are located at the claim end lines to simplify their location. This work would probably require 2 to 3 days and I could do the work with one helper. If these lines show some definite anomalies, then it would pay to grid the area with lines about 200 feet apart and contour the data.

As for electromagnetic work, it is much slower and considerably more expensive. United Geophysical Corporation has some equipment which could be used. The only test for this equipment is to try it.

ALLEN M. RUGG, JR.

REGISTERED ENGINEER — CONSULTANT — GEOLOGY AND GEOPHYSICS

5202 EAST 16TH STREET
TUCSON, ARIZONA
TELEPHONE 6-3710

RE: FORTUNA-RIQUEZA

Even though the self potential method does not generally yield as suitable results as the electromagnetic method, it is still recommended as a first attempt due to its rapid coverage and low cost. It is estimated that it would require at least 4 to 5 days to cover an area 2000' by 3000' with the electromagnetic method at an estimated cost of $1000.00 to $1500.00.

Very truly yours,

Allen M. Rugg, Jr.

cc. Mr. Robert M. Adams, Jr.
Mr. Victor H. Verity

September 1, 1956

Mr. Robert H. Adams
Robert H. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

RE FORTUNA-RIQUEZA

On August 21, Mr. Paul Bennett, geologist for Panamerican Ventures, Ltd, Inc. was taken out to make a quick check on the Fortuna-Riquesa area. His reaction was that they might be interested at a later date in the area but that they now have so many projects going that it would not be possible to take any action at this time. He was most interested in the Buena Vista mine area. He was not particularly interested in the north side of Sawtooth where the red hematite capping is so wide spread since he does not feel that it is the type of oxidation to be expected from a disseminated copper deposit.

This was the first time that I had looked at the north side of Sawtooth in any detail and agree with Mr. Bennett on the oxidation. One thought was the possibility of a high grade deposit in this area. Did Seton Williams consider this possibility? Since this red zone is very extensive along a major fault, it is possible for vein type of deposits to occur at depth. If they do exist, the electromagnetic geophysical method could have some application in locating such a deposit assuming that they were not over 300 feet deep. If sulfide bodies are present and undergoing oxidation, the self potential method could also be of some value.

Mr. Abe Kalaf, president of D.S.& K Mining Co., asked me yesterday about this property. He is interested in the possiblity of the Buena Vista mine area having some high grade zinc copper mineralization. Since he has a mill set up near by at the Atlas mine for separating zinc and copper, he could be a logical one to take over such an operation. He asked whether or not it would be possible to option the property for a period of time to drill the Buena Vista area. I believe that he is prepared to move into the area in a short time if an agreement can be made on an option and purchase price. If you are interested, please notify me and I will have Mr. Kalaf contact either you or Mr. Verity for further negotiation.

Very truly yours,

Allen H. Rugg, Jr.

cc: Mr. V. H. Verity

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

August 20, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

Mr. Quentin E. Conklin of Ventures wanted to know more about the Fortuna property before making a field trip so Al Rugg and I met with Mr. Conklin and Mr. Bennett, a geologist, early the morning of the 17th. I explained your views concerning the mining claims as set forth in your letter to me of August 7.

At the conclusion of the meeting Mr. Conklin expressed the opinion that they had a great many prospects to be examined and most of them would be of greater interest to Ventures than the Fortuna and therefore it would have to wait until they had completed other examinations. However, it has been arranged that when they complete some of their field work they will get in touch with Al and he will plan to take them to the property.

Meanwhile, whenever Al and I can find a mutually agreeable time I think it will be well for me to turn over to him the maps and data which I obtained from Seton Williams' office and supplement this with information from my own files, so that Al can take the map which is most nearly up to date and make such corrections as may be necessary and add new information so that we will have one map that will show everything of importance. As it is now, the information seems to be pretty well scattered over several maps and throughout numerous files.

Very truly yours,

Victor H. Verity

cc-RMA,Jr.
A.M.Rugg

COPY

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

July 3, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

Some time back you requested me to look into the matter of whether sufficient expenditures had been made on any of the claims at the Fortuna to enable you to take them to patent. It is doubtful if any of them have sufficient expenditure at this time. If you go strictly by the affidavits of labor performed and improvements made which were filed year by year through July 1, 1956, it shows total expenditures of $526.62 on each of the Esperanza, Fortuna and Suerte claims. However, it must be kept in mind that if work is not actually done on a claim that it is incumbent upon the patent applicant to show that the work done on one claim was for the benefit of, or intended to develop the claim or claims to which part of the work is being apportioned.

The assessment work for the year ending July 1, 1953 consisted principally of three diamond drill holes, two over on the north side of Ragged Mountain and one on the Fortuna No. 4. The total value of the work was $3,121.30 and it was apportioned over 25 claims or at the rate of $124.85 per claim. Three of the claims forming this group were the Esperanza, Suerte and Fortuna. However, these claims are on the south side of Ragged Mountain and it is quite probable that the mineral surveyor would not consider that the work done on the north side of the mountain tended to develop the claims on the south side. Therefore, I believe we are safe in saying that the work done for the assessment year ending July 1, 1953 is of no value to us so far as patenting is concerned. Some of the other work might be questioned also.

The Fortuna No. 2 shows total expenditure of $301.77. The Fortuna Nos. 6, 7, and 9 show total expenditure of $201.77. Although the Fortuna No. 9 covers the old Buena Vista claim, since the chain of title was broken when Ruby Shaw and the estate forfeited for lack of performance of annual assessment work and you located, you cannot take credit for any work which may have been done by Robert M. Adams Company at the time it held a lease on the property nor any work done by Ruby Shaw or her predecessors in interest. You can only take credit for work done on the Fortuna No. 9 after you relocated and of course you cannot count in the location work.

Very truly yours,

Victor H. Verity

VHV:1
cc-R.M.A.,Jr.
Allen M. Rugg, Jr.

COPY

July 2, 1956

Mr. Robert H. Adams
Robert H. Adams Company
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

Re. Fortuna-Riquera

A vertical diamond drill hole was put down east of the intermediate adit on the Fortuna-Riquera property during June, 1956 for assessment work due July 1, 1956.

A log of this drill hole is enclosed. The hole was mineralized to a depth of 85 feet primarily disseminated pyrite. Below 85 feet the rock changed and no mineralization was visible. It is possible the hole was drilled along the edge of a well mineralized zone from 74-75 feet. It has the appearance of the high grade vein at the end of the lower adit.

It is possible that the zone from 74 to 85 feet could be a good ore zone since it is well brecciated. Thin sections are being made of two samples from the drill hole to confirm rock types above and below the breccia zone.

Very truly yours,

Allen H. Rugg, Jr.

cc. Mr. V. H. Verity

June 29, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

On June 18, 1956 I received a hand written note from Al Rugg as follows:

"I am getting an assay on one section of the hole and plan on having some thin sections run.

"All of the core and sludge are in my hands. I checked on the hole last week in the field."

I enclose statement rendered by Mines Exploration & Development Co. in the amount of $712.40. Will you kindly send the payment directly to Mines Exploration & Development Co. in Tucson, with copy of your transmittal letter to me.

Very truly yours,

Victor H. Verity

VHV:l
Enc.

cc-A.M.Rugg,Jr.

P.S. to Al Rugg:

Dear Al: Did you send a copy of the drill hole log to Mr. Adams? If not, will you please get one out to him, unless you are waiting to send assays along with it. Vic.

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

June 9, 1956

Mr. A. M. Rugg, Jr.
5202 East 16th St.
Tucson, Arizona

Dear Al: Re: Fortuna

Confirming our phone conversation of the 8th, I have received from Mines Exploration & Development Co. their invoice in the amount of $712.40 for drilling 115 feet of AX hole on the Fortuna at $700 plus $12.40 expenses for core boxes and sludge sacks.

As soon as you have had an opportunity to verify on the ground the fact the hole was drilled and the cores and sludge sacks are in your possession will you please advise me and I will then o.k. the statement and pass it on to Duluth for payment.

Very truly yours,

Victor H. Verity

VHV:l
cc-Mr. Robert M. Adams
Mr. Robert M. Adams, Jr.

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

May 14, 1956

Mr. Leland C. Vought
Mines Exploration & Development Co.
2000 South Freeway
Tucson, Arizona

Dear Lee: Re: Fortuna

Al Rugg left a sketch at his home for you to pick up, on which he indicated a tentative location for a drill site at the Fortuna mine. He stopped by my office on his way out of town today and discussed the matter with me.

The drill site which Al has shown on the sketch conformed as near as possible with a suggestion made by Mr. Adams but at a time when we thought more than one hole would be put down. Now that we are limited to $700 worth of work Al says he believes we might just as well do a little "wild catting" and put down a vertical hole at a different place.

I suggest you get the sketch from Al's office and then if it should happen that you start drilling before Al returns from the trip on which he left today, get in touch with me and I'll show you where he recommends the drill hole be put down. Should Al return before you start work it won't be necessary for you to talk with me as he will show you where the hole goes.

Very truly yours,

Victor H. Verity

VHV:l
cc-Al Rugg

COPY

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

April 25, 1956

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: FORTUNA

After wiring you in regard to drilling at the Fortuna it worked out that Lee Vought may or may not be able to drill at the Fortuna starting this week. When I first discussed drilling with him he said that he had a matter pending and if it came to a head he would have to start that job first because it is a large one. However, at that time there was a doubt in his mind whether it would materialize. As soon as Lee knows he will then get in touch with Al Rugg and arrangements will be made for spotting of the hole prior to the time the equipment is sent to the Fortuna.

Lee told me over the phone on the 22nd that if it worked out that he couldn't drill this week that he would promise to get the job done before the end of the assessment year. He will have to work it in between other jobs, however.

Very truly yours,

Victor H. Verity

VHV:l
cc-R.M.A., Jr.
L.C.V.
A.M.R.,Jr.

COPY

January 26, 1956

Mr. Robert M. Adams
12 Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

At the request of Mr. Verity, a brief check was made on your Fortuna Claims in the Silver Bell district, Arizona on January 25, 1956. There was no evidence of any recent activity in the area. Tire tracks indicate that several trips have been made to the Buena Vista mine in recent weeks. A location monument on the Buena Vista mine has a notice filed by Ruby Shaw dated 1951 but no other notice could be found. It is entirely possible that the location monument set up by Seton Williams is in a different location than this monument and I failed to see it. I did not observe any new pits or digging in the area.

Very truly yours,

Allen M. Rugg, Jr.

cc. Mr. V.H. Verity

UNITED GEOPHYSICAL COMPANY INC.

TO: Accounting Pasadena

FROM: W. T. Griswold Pasadena

DATE: April 22, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

Our Field Party 510

March 25, 1954	Reconnaissance geophysical work one day at $75.00 per day.	$75.00
April 12, 1954	Magnetometer and self-potential survey. One day at $150.00 per day . . .	$150.00
April 14, 1954	Physical property testing.	$75.00
	Total	$300.00

cc: A. M. Rugg

UNITED GEOPHYSICAL COMPANY INC.

April 22, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity
Building
Duluth 2, Minnesota

Dear Mr. Adams:

Enclosed are two additional copies of Mr. A. M. Rugg's report which he sent over to our Pasadena office for my approval.

Please contact Mr. A. M. Rugg or myself if you have any further questions concerning our work on your property.

Sincerely yours,

William T. Griswold,
Supervisor
Mining Geophysical
Operations

WTG/id
Encls (2)
cc: A. M. Rugg ✓

Post Office Box 7187
Tucson, Arizona

April 21, 1954

Mr. William T. Griswold
United Geophysical Company, Inc.
Post Office Box "M"
Pasadena 15, California

Dear Bill:

Enclosed are three copies of the report to Mr. Adams on the Fortuna-Riqueza property. One copy has already been submitted to him, as he is expected in Tucson the later part of the month. It is recommended that two additional copies of this report be submitted to Mr. Adams by you with your cover letter. The third copy if for your file.

The charges for the work done is as follows:

Date	Work	Charge
March 25	Reconnaissance geophysical work.	$75.00
April 12	Magnetometer and self potential survey.	150.00
April 14	Physical property tests and writing report.	75.00
	TOTAL CHARGES FOR ENTIRE JOB	$300.00

Regards,

Allen M. Rugg

AMR:jj
Encls: 3 copies of
Fortuna-Riqueza
report and profiles

Post Office Box 7187
Tucson, Arizona
April 21, 1954

Mr. Robert M. Adams
c/o Mr. Victor Verity
2207 East Waverly
Tucson, Arizona

Dear Mr. Adams:

Enclosed is one copy of the report on the last work done on the Fortuna-Riqueza claims. The original has been sent to Pasadena and will be sent to you by them with a cover letter.

Sincerely,

Allen M. Rugg

AMR:jj
Encls:

UNITED GEOPHYSICAL COMPA INC.

Post Office Box 7187
Tucson, Arizona

April 21, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

Reference is made to United Geophysical Company's letter to you dated March 29, 1954, and to the meeting with you following the preliminary geophysical reconnaissance work done on March 25, 1954, on the Fortuna-Riqueza claims north of Silver Bell, Arizona.

One day was spent in the field running two profile lines over the leached zone west of Ragged Mountain with a vertical magnetometer and self potential equipment. The lines were surveyed by Seton Williams. The locations of the lines are shown on the attached print.

Two profiles are submitted with the letter. Vertical magnetic intensity and self potential data are plotted on each profile. A summary of physical property tests is enclosed with this letter.

North-South Line

There is a strong magnetic low on the north end of this line at station one. This occurs north of the rhyolite dike outcrop and also near a limonitic outcrop in the quartz monzonite porphyry. The region from one to fifteen is generally high on both the magnetic and self potential profile. The S. P. Low at thirteen corresponds closely to a magnetic high at fourteen. It is possible that the area from one to fifteen is underlain by a buried extension of the rhyolite dike which could cause this high. The magnetic and self potential feature at thirteen to fourteen is of interest and may be due to structural feature such as a fault.

East-West Line

The self potential data is very erratic and of doubtful significance.

The vertical magnetic intensity generally increases toward the east which may be associated with the rhyolite or quartz monzonite porphyry becoming shallower in this direction. If a line connecting the magnetic high at E11 and the magnetic high on the N-S line at fourteen is extended to the southeast, it will pass very close to the Buena Vista mine. Whether or not this is significant is questionable, but it is of interest. It is possible that this could represent a fault zone. However, it must be realized that my theory suggested is based on very little data.

Conclusions

Since the geophysical data is of a marginal nature, it will probably be best to proceed with the drilling program as was discussed in the meeting prior to this work. The slight magnetic high and self potential low on the N-S line at stations thirteen and fourteen is of interest. If no other drill hole location is more favorable geologically than this, it would be of interest to drill near this area. It is difficult to recommend a location for a drill hole on the basis of the data obtained. There is a slight indication of south dip on the magnetic profile at station fourteen. If this is the case, a hole should be drilled near station fifteen on the N-S line in order to intersect a suspected south dipping magnetic horizon.

Respectfully submitted,

UNITED GEOPHYSICAL COMPANY, INC.

Allen M. Rugg
Geophysicist

AMR:jj
Encls:

UNITED GEOPHYSICAL COMPA . INC.

SUMMARY OF PHYSICAL PROPERTY TESTS ON FORTUNA-RIQUEZA CLAIMS

SAMPLE	MAGNETIC SUSCEPTIBILITY (CGS Units)	RESISTIVITY (ohm-cm)
Rhyolite-Near Mag. Station #6 (slightly polarized)	560×10^{-6}	$.46 \times 10^{6}$
Rhyolite-From boulders east end of Ragged Mountain	370×10^{-6}	18.85×10^{6}
Latite Porphyry-Mag. Station #2	2050×10^{-6}	3.94×10^{6}
Latite Porphyry-Buena Vista Tunnel	39×10^{-6}	1.07×10^{6}
Latite Leached Zone-Mag. Station #3	0	6.58×10^{6}
Quartz Monzonite Porphyry-Altered Mag. Station #10	45×10^{-6}	2.48×10^{6}
Quartz Monzonite-Old Well on Pinta Claim	1030×10^{-6}	$.15 \times 10^{6}$
Buena Vista Mine-Lower level near raise	18×10^{-6}	1.24×10^{6}
Buena Vista Dump Sample	0	$.38 \times 10^{6}$

Physical property tests tend to confirm the first letter submitted except for the latite porphyry. It will be noted that one sample of the latite porphyry has a relatively high magnetic susceptibility. This may indicate that over all, the latite has quite erratic susceptibility. To a certain extent this is borne out by the magnetic survey.

There is some variation in resistivity of the samples. However they are all extremely high. The quartz monzonite (granite?) from the old well on the Pinta claim has the lowest resistivity of any sample checked. This is probably due to the high magnetite concentration in this sample.

If the samples are representative of the area as a whole, it might be possible to outline large leached or altered zones in the quartz monzonite porphyry by magnetic methods providing they are not too deeply covered by unaltered rhyolite ~~or quartz~~
or quartz monzonite porphyry

UNITED GEOPHYSICAL COMPANY, INC.

Post Office Box 7187
Tucson, Arizona

April 21, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

Reference is made to United Geophysical Company's letter to you dated March 29, 1954, and to the meeting with you following the preliminary geophysical reconnaissance work done on March 25, 1954, on the Fortuna-Riqueza claims north of Silver Bell, Arizona.

One day was spent in the field running two profile lines over the leached zone west of Ragged Mountain with a vertical magnetometer and self potential equipment. The lines were surveyed by Seton Williams. The locations of the lines are shown on the attached print.

Two profiles are submitted with the letter. Vertical magnetic intensity and self potential data are plotted on each profile. A summary of physical property tests is enclosed with this letter.

North-South Line

There is a strong magnetic low on the north end of this line at station one. This occurs north of the rhyolite dike outcrop and also near a limonitic outcrop in the quartz monzonite porphyry. The region from one to fifteen is generally high on both the magnetic and self potential profile. The S. P. Low at thirteen corresponds closely to a magnetic high at fourteen. It is possible that the area from one to fifteen is underlain by a buried extension of the rhyolite dike which could cause this high. The magnetic and self potential feature at thirteen to fourteen is of interest and may be due to structural feature such as a fault.

East-West Line

The self potential data is very erratic and of doubtful significance.

The vertical magnetic intensity generally increases toward the east which may be associated with the rhyolite or quartz monzonite porphyry becoming shallower in this direction. If a line connecting the magnetic high at E11 and the magnetic high on the N-S line at fourteen is extended to the southeast, it will pass very close to the Buena Vista mine. Whether or not this is significant is questionable, but it is of interest. It is possible that this could represent a fault zone. However, it must be realized that any theory suggested is based on very little data.

Conclusions

Since the geophysical data is of a marginal nature, it will probably be best to proceed with the drilling program as was discussed in the meeting prior to this work. The slight magnetic high and self potential low on the N-S line at stations thirteen and fourteen is of interest. If no other drill hole location is more favorable geologically than this, it would be of interest to drill near this area. It is difficult to recommend a location for a drill hole on the basis of the data obtained. There is a slight indication of south dip on the magnetic profile at station fourteen. If this is the case, a hole should be drilled near station fifteen on the N-S line in order to intersect a suspected south dipping magnetic horizon.

Respectfully submitted,

UNITED GEOPHYSICAL COMPANY, INC.

Allen M. Rugg
Geophysicist

AMR:jj
Encls:

UNITED GEOPHYSICAL COMPANY INC.

SUMMARY OF PHYSICAL PROPERTY TESTS ON FORTUNA-RIQUEZA CLAIMS

SAMPLE	MAGNETIC SUSCEPTIBILITY (CGS Units)	RESISTIVITY (ohm-cm)
Rhyolite-Near Mag. Station #6 (slightly polarized)	560×10^{-6}	$.46 \times 10^{6}$
Rhyolite-From boulders east end of Ragged Mountain	370×10^{-6}	18.85×10^{6}
Latite Porphyry-Mag. Station #2	2050×10^{-6}	3.94×10^{6}
Latite Porphyry-Buena Vista Tunnel	39×10^{-6}	1.07×10^{6}
Latite Leached Zone-Mag. Station #3	0	6.58×10^{6}
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If the samples are representative of the area as a whole, it might be possible to outline large leached or altered zones in the quartz monzonite porphyry by magnetic methods providing they are not too deeply covered by unaltered rhyolite ~~or q.m.p.~~ or quartz monzonite porphyry

NITED GEOPHYSICAL COMPANY INC.

P. O. Box 7187
Tucson, Arizona

March 29, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

A brief reconnaissance trip was taken to look over your Fortuna-Riqueza Group of mining claims in the Silver Bell Mining District, Pima County, Arizona on March 25, 1954 with Seton Williams. The object of the trip was to determine, if possible, whether or not any geophysical method might be of assistance to further drilling in the area.

An Askania Vertical Intensity Magnetometer was used to take some spot readings in the area as well as make relative susceptibility checks on some of the surface rock outcrops.

The Buena Vista Mine area was checked first. The mineralized zone in the Buena Vista Mine strikes N 30° W and dips steeply to the southwest. There appears to be sufficient mineralization (pyrite and chalcopyrite) in this zone especially if it was below the water table to make it a reasonably good conductor. The mineralization occurs in small isolated pockets rather than a continous zone so that it would probably be a poor conductor when dry. A water saturated zone of this type might be outlined with electromagnetic methods. Disseminated mineralization occurs for a considerable distance from the main mineralized zone.

Crude qualitative magnetic susceptibility measurements made on samples in the field indicate the latite to have the lowest susceptibility. The rhyolite appears to have the highest susceptibility with the diabase and quartz monzonite somewhat less than the rhyolite. A highly altered quartz monzonite sample has a very low susceptibility.

Fortuna-Riqueza Group

If these rough susceptibility measurements are compared with the vertical magnetic intensity observed in the field, the vertical intensity over the latite appears to be generally less than it is over the monzonite. However, the vertical intensity measured over the altered quartz monzonite, station 10, does not differ much from the intensity at station 12 which is expected to be over the unaltered quartz monzonite. On the other hand, the vertical intensity at station 11 which is at the old well on the Pinta claim is considerably higher than that at station 12 which is only 300 feet from station 11.

This type of variation can generally be expected over monzonite since the magnetite is seldom mixed homogeneously throughout the rock. This is also true of the rhyolite. The vertical intensity measured on the rhyolite dike at station 6 is higher than that at station 5 which is on the latite. Station 7 which is on the monzonite has about the same vertical intensity as that at station 6. Assuming the magnetitic susceptibility of the quartz monzonite is less than the rhyolite, this very slight difference between 6 and 7 may be due to the much greater mass of quartz monzonite compared to the rhyolite.

The work done to date indicates the following possibilities:

1. The latite can generally be differentiated from the other rocks in the area.

2. Altered quartz monzonite may be differentiated from the unaltered rock if it occurs as a very large mass within the unaltered rock.

3. The electromagnetic method may offer some assistance in tracing vein type deposits such as the Buena Vista vein under favorable conditions.

4. Topography eliminates the central core of the mountain plus much of the immediate area around it. It is estimated that little can be done electrically or magnetically within 600 to 1000 feet horizontally of the base of the rhyolite cliff. Beyond this area, the topography will be flat enough that it will not seriously affect magnetic and electrical geophysical results.

Assuming that some additional drilling is contemplated, the following geophysical program is suggested:

1. Two lines run at right angles to each other intersecting at the drill hole location with the self potential method and the vertical magnetometer.

Fortuna-Riquesa Group

2. If these two lines give a favorable anomalous indications, then additional lines should be run on a grid pattern to outline the zone of interest.

Respectifully submitted,

UNITED GEOPHYSICAL COMPANY, INC.

BY: Allen M. Rugg
Geophysicist

AMR:jj

P. O. Box 7207
Tucson, Arizona

March 25, 1954

Mr. Victor H. Verity
2207 East Waverly Street
Tucson, Arizona

Dear Vic:

In reply to your letter of March 10th and Seton Williams call of March 15th and as per the meeting with Mr. Adams in our office on March 22nd relative to the Fortuna-Figueroa property, it has been arranged that Mr. Allen Rugg will accompany Seton Williams on an examination trip of the property on March 25th. This trip will be for the purpose of analyzing possible geophysical applications.

As time will allow Mr. Rugg will also conduct brief reconnaissance tests with the magnetometer and possibly with self-potential equipment. Obviously there will be very little along these lines that can be accomplished in one day however, some preliminary ideas might be obtained which could be included in our recommendations. According to our verbal agreement this work will be done on the basis of a charge of $75 per man day.

Very truly yours,

Walter B. Heinrichs, Jr.
Acting Manager Mining Exploration

WBHjr:jj

cc: A. H. Rugg
W. T. Griswold

UNITED GEOPHYSICAL COMPANY, INC.

P. O. Box 7187
Tucson, Arizona

March 29, 1954

Mr. Robert M. Adams
Robert M. Adams Company
12th Floor Fidelity Building
Duluth 2, Minnesota

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Fortuna-Riqueza Group

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Fortuna-Riqueza Group

2. If these two lines give a favorable anomalous indications, then additional lines should be run on a grid pattern to outline the zone of interest.

Respectifully submitted,

UNITED GEOPHYSICAL COMPANY, INC.

BY: Allen M. Rugg
Geophysicist

AMR:jj

UNITED GEOPHYSICAL COMPANY, INC.

P. O. Box 7187
Tucson, Arizona

March 25, 1954

Mr. Victor H. Verity
2207 East Waverly Street
Tucson, Arizona

Dear Vic:

In reply to your letter of March 10th and Seton Williams call of March 15th and as per the meeting with Mr. Adams in our office on March 22nd relative to the Fortuna-Riquerza property, it has been arranged that Mr. Allen Rugg will accompany Seton Williams on an examination trip of the property on March 25th. This trip will be for the purpose of analyzing possible geophysical applications.

As time will allow Mr. Rugg will also conduct brief reconnaissance tests with the magnotometer and possibly with self-potential equipment. Obviously there will be very little along these lines that can be accompolished in one day however, some preliminary ideas might be obtained which could be included in our recommendations. According to our verbal agreement this work will be done on the basis of a charge of $75 per man day.

Very truly yours,

Walter E. Heinrichs, Jr.
Acting Manager Mining Exploration

WEHjr:jj

cc: A. M. Rugg
W. T. Griswold

March 22, 1954

An interview was held with Mr. -- Adams, Mr. Vic Verity and Mr. Seton Williams concerning possible geophysical exploration on claims held by Mr. Adams at _____ mountain north of Silver Bell, Arizona. W.E. Henrichs and A.M. Rugg represented United Geophysical Co., Inc.

Mr. Williams has been ~~hunting~~ doing the geological work on the area. He went over the general geology and ~~expected~~ type of ore expected. ~~in the area.~~ Disseminated chalcopyrite is expected and locating this type of deposit becomes ~~makes~~ a very difficult geophysical problem.

Some magnetic susceptibility checks have been run on samples submitted to the University of Minnesota. (by H. L. Mooney.) These indicate that the ~~the~~ known ore may have a lower susceptibility than the host rock. However additional samples on a reconnaissance line over the latite and monzonite might give different results as the above data is based on a very few samples.

The information available to date indicates that the best possibility for geophysical work in the area will be either magnetic or self potential

It was decided that A. M. Rugg would look over the area with Seton Williams during the week. This will give us a better chance to ~~[illegible]~~ ~~the~~ decide what geophysical methods if any are applicable to the area.

Three 150 foot diamond drill holes have been put down on the claims. Two of these penetrated an oxidized zone for the full depth. The third went into ~~pyrite~~ ~~[illegible]~~ rock carrying 10 - 20 % pyrite.

The old Buena Vista mine ~~shows~~ carries sulfides very near the surface and to a depth of 66 feet.

VICTOR H. VERITY
2207 EAST WAVERLY
TUCSON, ARIZONA

ATTORNEY AT LAW
AND
MINING ENGINEER

March 10, 1954

Mr. Walter Heinrichs, Jr.
United Geophysical Company, Inc.
P. O. Box 7087
Tucson, Arizona

Dear Walt:

I have received a letter from Mr. Adams regarding his Fortuna-Riqueza property in the Silver Bell district which reads as follows:

"Fortuna-Riqueza, Geophysical and Mr. Heinrichs. I don't know that I am clear on what might be accomplished by his sending a couple of men out to the Fortuna-Riqueza for a preliminary look. I gather you think this would be advisable. Now I assume that before going out to look over the property they would have looked over the data, aerial photographs, our present geological map, our present drilling, geochemical determinations, etc. I also assume that in going out perhaps they make a preliminary pass or two along certain geophysical lines? Or is this simply to go and look at topographically? If you think it is advisable for them to take a preliminary look why don't they go out for a day with Seton Williams after looking at all the data and see what the ground looks like? Then when we are together in Tucson, let's talk with Mr. Heinrichs and find out what suggestions they may have to make; and, naturally, I am going to be interested in what the suggestions are and what the programs might cost--all of which can be discussed.

I do think that we ought to be able to find out structurally whether the rhyolite peaks are a dike and, if so, approximately where the contacts are on the north and south sides with the adjoining monzonite and latite porphyry respectively.

If that is a dike, I think that is very much more encouraging, and there could well be deposition of mineral where that dike breaks through the adjoining rocks. If the thing is a sill (Ted Dodge), I don't think that is at all encouraging. Though I am no geologist, I don't think it is a sill and hope it isn't.

To date I have got a leaning towards gravity meter or resistivity."

I am leaving town for the balance of the week and suggest that you get in touch with Seton Williams who has maps and other data. He makes one trip a week to the Atlas mine in the same area (usually on a Monday). Maybe you and Seton could make some arrangement to drop you off at the Fortuna-Riqueza and pick you up on the return trip - say Monday, March 15. If you and Seton can work out something we could be prepared to discuss the subject with Mr. Adams immediately after his arrival in Tucson which will be March 20th.

Very truly yours,

Victor H. Verity

VHV:lv
cc-R.M.A.
S.S.W.

650 South 4th Ave.
Tucson, Arizona

STATEMENT

ROBERT M. ADAMS
DULUTH MINN.

Location work on the Fortuna No. 6 Fortuna No. 7 Fortuna No.8

consisting of a shaft on each 6 feet by 4 feet by 8 feet deep

Also monumenting total price on each $175.00

Fortuna No.6	$175.00	
Fortuna No. 7	$175.00	
Fortuna No.8	$ 175.00	
Total	$525.00	
Dec5 . 1953 Rec.	$200.00	by check
Balance	$325.00	

J. Arthur Zappia

J. Arthur Zappia

635 N. Third Ave.
Tucson, Arizona
February 27, 1953

Robert M. Adams Company
1205 Fidelity Bldg.
Duluth 2, Minnesota

Gentlemen:

Enclosed herewith is a statement in the amount of $225.00, for bulldozing in connection with annual assessment work and the diamond drilling project at the Franco-Riqueza property, Pima County, Arizona.

Your early remittance will be deeply appreciated, since Mr. Nuñez is counting on payment from me on or before March 10th. Due to this urgency, I am not including the bulldozing expense in my statement for the month of February, but forwarding it to you immediately as a separate item.

Kindly make your check payable to me, and I will either endorse it to Mr. Nuñez, or give him a check in the identical amount drawn on my Tucson bank.

Yours very truly,

Seton S. Williams

PHELPS DODGE CORPORATION
RESEARCH DEPARTMENT
P. O. BOX 991
DOUGLAS, ARIZONA

November 10, 1952 FILE

Mr. Seton S. Williams
635 N. Third Avenue
Tucson, Arizona

Dear Mr. Williams:

In regard to your letter of November 7th, we have not given up the idea of looking over the "Riqueza" area, but the press of other work has made it impossible so far.

We would not be interested in the "Franco" area and for that reason the file was returned. Also, we figured that you would have the information on the "Riqueza" area in your files.

As soon as we have some idea as to when we can make the visit, we will contact you and arrange for a meeting.

Thanks for your letter.

Sincerely,

John Hope

John Hope

JH:a

635 N. Third Ave.
Tucson, Arizona
May 16, 1952

Dr. E. S. Larsen, III, Assistant Chief Geologist
United States Geological Survey
Washington 25, D. C.

Dear Ep:

This is a very tardy note of thanks, for your assistance with regard to topography in the Silver Bell Mountains, Pima County, Arizona, and for the index to Geologic reports and topographic mapping in Arizona.

The information regarding Soil Conservation Service stereo coverage and also their "photomaps" is good to know about and will prove helpful not only with regard to the Silver Bells but in other areas in Arizona for which Soil Conservation has coverage.

Please accept sincere apologies for the late arrival of this note. A busy field schedule, followed by several days of rest under doctor's orders, followed in turn by three weeks deep in Mexico has put me far behind.

Best regards,

Seton S. Williams

IN REPLY REFER TO:

G-Mil

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

3

MAR 26 1952

Mr. Seton S. Williams
635 N. Third Avenue
Tucson, Arizona

Dear Seton:

I am sorry to say that the Geological Survey is not mapping topography in the Silver Bell area not is any other federal mapping agency, to our knowledge. There are two published 15-minute quadrangles immediately to the north: the Eloy, mapped in 1947-48 and the Red Rock, mapped in 1946-47. I enclose an Index to Topographic Maps which gives prices for these maps.

There also exists a map by N. H. Darton, unpublished, at a scale of 1/125,000 with 100 ft. contours. Although a photostatic copy of this map can be obtained, it is doubtful whether the information contained thereon would be of value to you. The topography in the vicinity of the mining district is rather sketchy.

You may be interested in aerial photographic bases of the district as a substitute for maps. The Soil Conservation Service has stereoscopic coverage of the area at a scale of 1/20,000. In addition, the same agency has "photomaps" of 15 minute quadrangles at a scale of 1/62,500. These are controlled or semi-controlled photo mosiacs which make very fine bases for geologic compilation. The mosaic covering your area is identified as "Arizona 407" on the index map of the Soil Conservation Service.

I am sorry not to be of more help.

Best regards.

Sincerely yours,

Esper S. Larsen, 3d
Assistant Chief Geologist

Enclosure

635 N. Third Avenue
Tucson, Arizona
January 4, 1952

Mr. Robert M. Adams
1205 Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

Enclosed herewith is my statement for services and expenses in connection with the Franco-Riqueza Group covering the month of December 1951.

It seems worthwhile at this time to write briefly with regard to recent work done there and to outline what I want to do in the immediate future; so that you will have some basis on which to authorize me to go ahead or stop further work at the prospect until you have had an opportunity to walk over it.

As you will recall from Mr. Dodge's report on the Franco Group, we are dealing with geology which does not parallel any specific well known mine for comparative purposes. At the same time, sampling in every location hole in the RIQUEZA group to date has shown significant indications of silver and lead mineralization in the oxide zone in an environment which looks favorable for supergene enrichment, i.e. surface indications suggest increased metal values at depth.

The widespread indications of mineralization found by routine sampling of the location cuts for RIQUEZA claims No.1 - No.7, together with geologic reconnaissance, suggested that the property may well be of large, low-grade proportions. Hence it seemed wise to take up a little more ground in August so that you would have it tied up if the various mining company scouts who were in the Silver Bells at that time should decide to move in on you.

In driving back and forth on the Silver Bell road, in connection with the August work, my attention had been attracted to the east face of Ragged Mountain, and the apparent continuation of the RIQUEZA mineralized zone across it. This area, however, was very inaccessible, lying about two miles south of the Silver Bell road, and almost that far- over exceedingly rough ground- from the Franco camp.

In August, however, I had cleared a Jeep route to the north base of the mountain ending near the east center end monument of RIQUEZA No.4. Therefore with Mr. Verity's approval I took time to look over the east slope of the

mountain in November, and found very similar mineralization with perhaps more introduced quartz and certainly more manganese mineralization than is found on the west and north central slopes. These observations prompted the location of RIQUEZA claims No.12 - No.15.

Claims No.12 - No.15, however, are so far from the Franco camp that construction of an access road, if not a temporary camp, was imperative before digging on these four claims began. In the process of finding a passable route in from the Silver Bell road (frequently Jeep-dozing cactus or sawing a way through more stubborn vegetation) we discovered an abandoned well, roughly 50 feet deep, with 11 feet of water in it, favorably situated in a wide gravel wash.

Subsequently when Zappia and his men were clearing this route so that a pick-up truck could use it, their attention was attracted by a pair of Bootleg vintage steel drums a short distance from the Jeep trail. Investigation disclosed an abandoned prospect pit, dug in a quartz vein similar to many in the RIQUEZA area, which exhibited considerable copper oxide mineralization in the dump.

Zappia and I made a reconnaissance survey, and finding the well to lie approximately 1350 feet north of the copper diggings we located the PINTA claim,- for the double-barrelled purpose of holding the copper showing for you and furnishing a potential water supply for a scout drilling program, if you decide to drill.

RIQUEZA No.1 - No.15 claims were all located on the basis of surface indications of mineralization, but the resulting claim group had the appearance of a political "Gerrymander", approximately two miles from east to west, a mile wide from north to south, but only 600 feet wide in the area of RIQUEZA No.11. Mainly, therefore, to give you a more solid block of claims, I located claims No.16 - No.18 while at the property to check location work performed on No.8 - No.15. While these claims were located primarily for their "nuisance value", walking over them briefly suggests that they also have potential mineral value.

RIQUEZA No.12 - No.15, on the east slope of the mountain, cover what I think is the best showing on this slope. A considerable area exhibiting heavy manganese oxide stain falls, however, south of the south end lines of this group. Claims No.19 - No.21 have therefore been located to cover this ground.

Field work in the area had given me the impression that RIQUEZA mineralization is locallized in a wide oxidized and silicified belt which extends entirely across the north face of Ragged Mountain, tapering to the eastward. I wanted a sounder opinion as to whether this is the case, or whether individual RIQUEZA claims contain small separate mineralized zones not clearly related to each other.

Rough terrain, talus cover, abundant vegetation, plus the present size of the group would make such a study very time consuming if conducted from the ground. On January 2nd, therefore, I borrowed my next door neighbor, an Air Force officer just returned from Korea, chartered a very light airplane and flew out.

Air observation confirms the hypothesis that the RIQUEZA mineralization is controlled by a major structure. The related oxidation is clearly visible from about the center of RIQUEZA No.9 AMENDED on the west as a belt which extends eastward for perhaps a mile and a half east of the east limits of the RIQUEZA group, slowly narrowing to the eastward and finally pinching out. (In view of the preceding paragraphs, I hasten to add that I have no present intention of extending RIQUEZA eastward.)

Incidentally I had hoped to take a lot of aerial photographs on that trip, but promising weather in Tucson gave way to storm clouds and heavy rain in the Silver Bells. Ragged Mountain was intermittently blotted out completely, and the little airplane jumped around like a bucking horse most of the time. I attempted to shoot a few color pictures in spite of heavy weather, but am not optomistic about the results.

With regard to further field work prior to actually poking some holes in the RIQUEZA ground, I have two thoughts:

1. On a completely clear day, charter a plane and make my own aerial photographic coverage of the entire FRANCO - RIQUEZA area, especially the RIQUEZA ground.

Zappia has provided us good ground control, with white claim monuments abundantly splashed with white paint.(One monument was clearly visible from the air at a distance of about seven miles.) I have just acquired a Kodak-Medalist camera, a useful type for aerial work. Hence the cost of aerial coverage would amount to airplane charter expense at $10 per hour, cost of films, processing and prints, plus my time.

I estimate that we should be able to get excellent photo

coverage in three hours air-borne time or less. Utilizing both black and white, and color photography, and taking advantage of present ground control, we should thus be able to add considerable geology to the map with very little, if any, further ground study. A set of aerial photographs might also bring to light important geologic relationships that have so far escaped notice.

2. My second thought is to spend perhaps a day or two on the north and west portions of the RIQUEZA ground, observing geology and taking a few surface samples, in an attempt to find the most favorable area in the RIQUEZA group as a starting point for a future drilling campaign.

At your early convenience kindly advise me with regard to these last two points. The enclosed unfinished 200 scale map is forwarded simply to clarify the above discussion of the location work. I hope to be able to go over the property with you in the near future, but plan to leave Tucson about January 14th for three weeks in Mexico.

Respectfully yours,

Seton S. Williams

cc Mr. Verity
Mr. Dodge

THEODORE A. DODGE

403 North Third Avenue
Tucson, Arizona
September 16, 1950

Mr. Robert M. Adams
1205 Fidelity Bldg.
Duluth 2, Minnesota

FRANCO CLAIMS

Dear Mr. Adams:

Sufficient evidence was found in the field to establish without any question of doubt the approximate position of the six claims of this group. The west end line of Silver Lead was marked. All corners were present in about the right position on the west end line of Silver Lead and Addition [See large map accompanying my report]. The discovery pit of Mountain Side was marked. The discovery pit of Tinaja was also marked although the pit was off the claim a short distance; it is now on the claim.

We moved monuments where necessary to straighten up end lines and give full legal width. We left lengths as they were. We built up all monuments (new or old) to legal size, marked each corner with a rag on a stick, and wrote the name of each corner on a slip of paper and stuck it in a can in the monument. A few old monuments not at the corners remain, but not many. Tape-and-compass doesn't give too great accuracy, but errors in parallelism and width should be within what could be expected of an unpatented claim. The east end line of the group probably has the most error, but the steepness of the terrane made it inadvisable to spend the necessary time to make that line better. A transit survey later could correct the corners without any danger of legal trouble.

The chief lack on the claims at present is the discovery monuments and pits. Buena Vista is the only claim with the required 8' pit. Vic Verity suggested waiting your receipt of my report on the group before doing anything about the pits. The following would have to be done:

[A green arrow on the large map indicates recommended location of discovery pit.]

Buena Vista	Put paper in monument at pit near upper mine workings.
Josephine	Dig new pit, build monument, and put in paper on mineralization about 300' due west of the NE corner of the claim.
Silver Lead	Dig new pit, build monument, and put in paper on mineralization near the horseshoe bend in the arroyo slightly east of north of the G. L. O. corner.

THEODORE A. DODGE

Addition	Deepen pit 5', build monument higher, and put in paper near SW corner of claim.
Tinaja	Deepen pit 5', build monument, and put in paper near SE corner of claim.
Mountain Side	Deepen cut 4', build monument, and put in paper at point northeast of word SIDE on map.

As I interpret the Arizona law, the discovery pit can be anywhere on the claim. There is an additional complication here, however, in that the descriptions in the county recorder's office say that the discoveries of all of the claims are on the center lines, which will not be the case if we dig the pits described above. If we try to put the discoveries on the center lines, several of the pits will be in barren rock, and I think it is preferable to have them in mineralization. All this can possibly be taken care of by filing ammended locations later on. Also the distances to the end lines from the discoveries won't check the present descriptions in the court house, nor will the lengths of the claims, except the Buena Vista and Mountain Side. In fact some of the descriptions of some of the claims couldn't fit anything; i. e. they are impossible geometrically

Vic suggested that possibly Ruby Shaw could be prevailed upon to do the digging of the pits in view of the fact that she was supposed to turn over to you claims in good legal order.

The State Land Department in Phoenix wrote me on August 23, 1950: "...none of the sections referred to in Township 11S, Range 8E, are State Land." The sections I had inquired about are 22, 23, 24, 25, 26, and 27. These sections more than cover all ground on and near the Franco claims. Thus we are presumably on Federal Mineral Land.

cc.- Mr. Victor H. Verity
File
Extra

Sincerely yours,

Theodore A. Dodge

Theodore A. Dodge

GEOCHEMICAL SURVEY

FORTUNA Claim Group
Silver Bell Mining District
Pima County, Arizona

1959-1960 Assessment Work

for

Robert M. Adams Company
Duluth, Minnesota

by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

GEOCHEMICAL SURVEY
FORTUNA Claim Group

Silver Bell Mining District
Pima County, Arizona

1959-1960 Assessment Work

INTRODUCTION

During the month of August 1960 the annual Assessment Work was performed by Heinrichs Geoexploration Co. of Tucson Arizona on the Fortuna Claim Group in Sections 23 and 26, T11S, R8E, G&SRB&M, Pima County, Arizona, for Robert M. Adams of Duluth,Minnesota. This work consisted of five (5) geochemical profiles of from 1500 to 33oo feet in length, 300 feet apart with stations on 100 ft. centers. These profiles were roughly parallel to the sidelines of the Fortuna Claims #6 and #9. In all 145 soil samples were taken and evaluated for copper content. A number of samples were analysed for zinc content.

CONCLUSIONS AND RECOMMENDATIONS

1. Determining the significance of the somewhat higher than normal background in this area would rely on some work of a more regional nature, i.e. several profiles extended for a considerable distance from the known area of interest.

2. Making the purely hypothetical assumption that a disseminated copper sulfide body exists at some depth, covered by pre-mineralization (but non mineralized) country rock

(either sedimentary or igneous intrusive or extrusive) the slightly anomalous background could be interpreted as hydrothermal alteration effects in the overlying rock. If the presence of such a mineralized body was proved, by other means, it should be possible by detailed geochemical survey to delineate the lateral extent of such a body.

3. In general the small isolated anomalies observed did not exceed 75 parts per million Cu or 3 times background and without a further detailed survey, cannot be considered significant. Tentatively they are interpreted as representing highly localized fissure controlled, more or less by minor mineralization in the outcropping country rock.

4. The single station strong anomalies are from areas (dumps and vein) known to contain appreciable copper concentrations and are not in themselves significant of the surrounding area.

5. Zinc concentrations closely parallel the copper values obtained.

6. Any recommendation for further geochemical examination would rely on additional data obtained from other sources and reinterpretation of the current geochemical data in this light.

OBJECTIVES

The purpose of this survey was to determine the feasibility of delineating potential ore bodies in the area by geochemical

methods, using the biquinoline method for copper and dithiozone method for zinc.

PROCEDURE

Samples were taken in the field generally from the "C" soil zone. The "C" zone is residual soil or that soil which is composed primarily of decomposing bedrock. These samples were brought to the laboratory, sieved, and the plus 80 mesh fraction discarded. An 0.1 gm sample of the minus 80 mesh fraction was fused with potassium pyrosulfate, taken into solution with hydrochloric acid, diluted to 10 ml with metal free water, and 2.0 ml portions of the aqueous sample analysed for copper content by extraction with a standard solution of 2 x 2' biquinoline in iso-amyl alcohol. A second 2.0 ml portion of the sample was analysed for zinc content by extraction with a standard solution of diphenol thiocarbozone (dithizone).

INTERPRETATION

In general the area surveyed can be considered as somewhat anomalous with respect to other areas in this region of the country. Normal background in "barren" country rock is generally of the order of 10 to 25 parts per million Cu. Average background in the Fortuna area was 30 to 40 ppm Cu. Without further regional study this "anomalism" in the background cannot be considered significant or indicative of a deeply buried disseminated copper deposit. Further study of outlying areas might add

significance to this relatively higher background. A few isolated anomalous zones were encountered but these would require additional detailed study to determine their significance. Samples in the vicinity of mine dumps and from actual outcropping vein material proved to be expectedly high but are otherwise not significant.

This survey being somewhat general in nature did not definitely delineate any strong trends, however there is some suggestion of a pattern of northeast, southwest lineation.

Respectfully submitted,

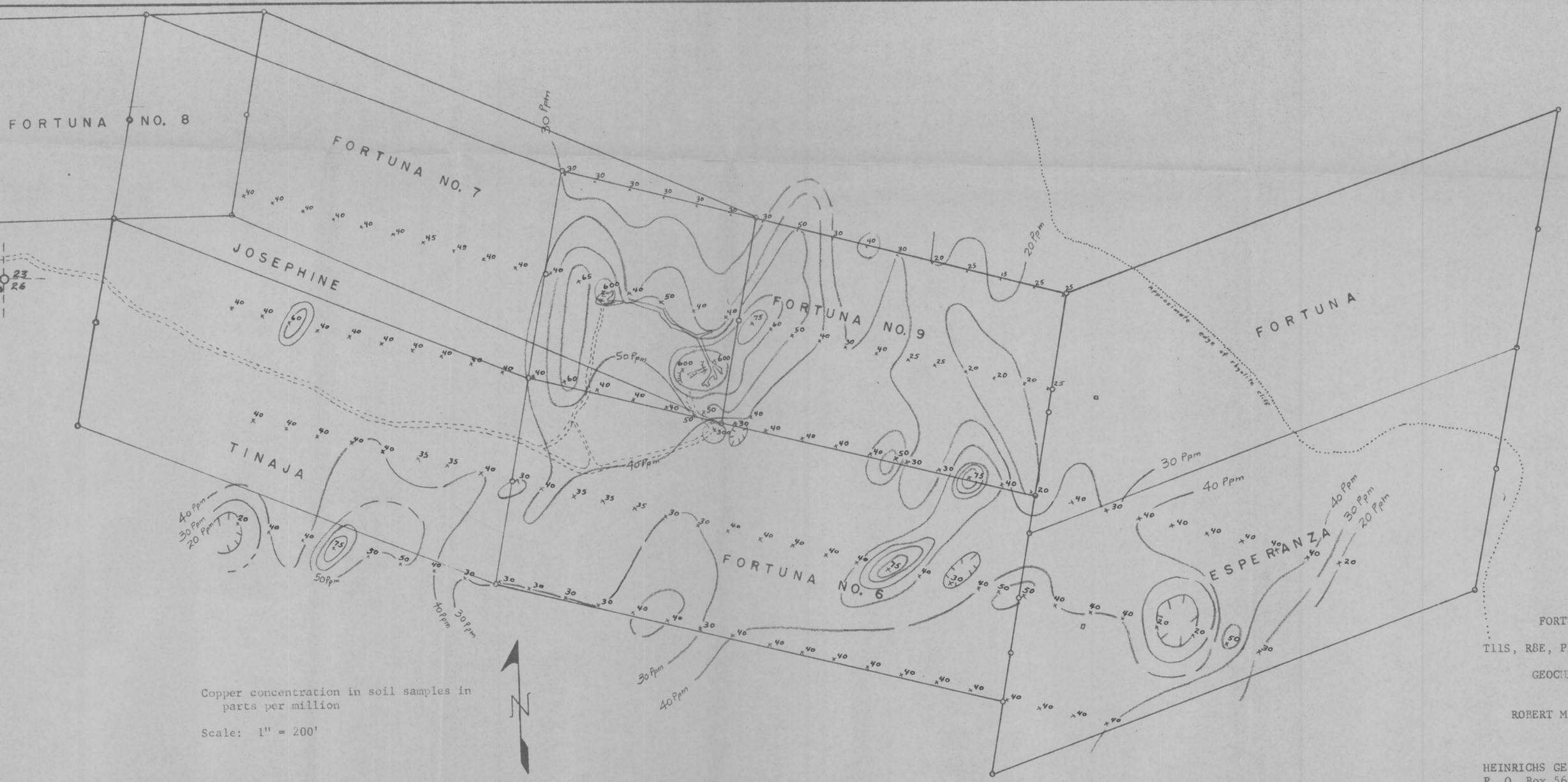
HEINRICHS GEOEXPLORATION CO.

Franklin Allen Seward, Jr.

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E.
HEINRICHS, JR.
DEC. 31, 1960
ARIZONA, U.S.A.

Approved by: Walter E. Heinrichs, Jr.

3 October 1960
P. O. Box 5671
Tucson, Arizona



Copper concentration in soil samples in parts per million

Scale: 1" = 200'

FORTUNA CLAIM G

T11S, R8E, Pima County,

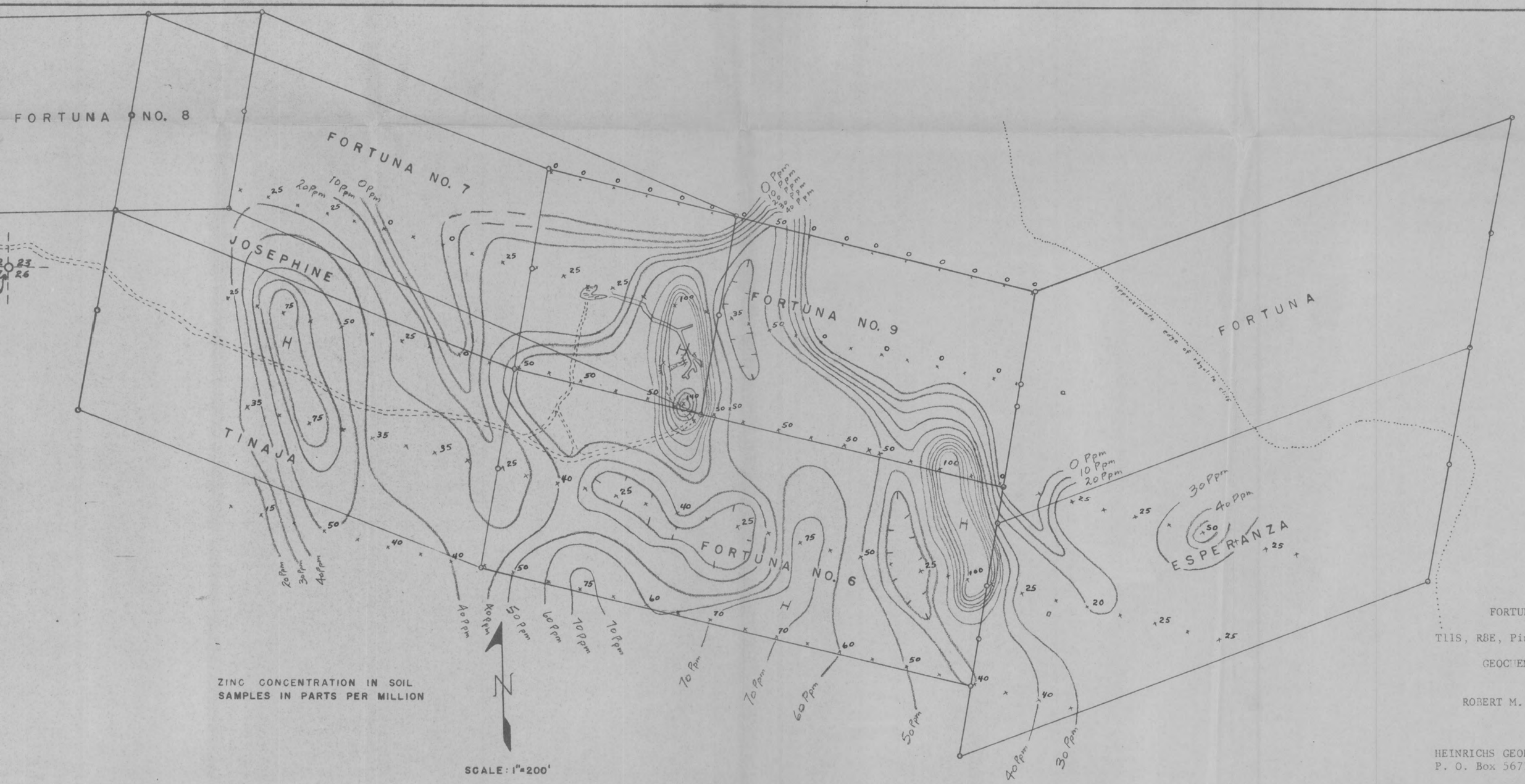
GEOCHEMICAL SURV
for

ROBERT M. ADAMS COM

by

HEINRICHS GEOEXPLORATIO
P. O. Box 5671 Tucson

August 1960



FORTUNA CLAIM G

T11S, R8E, Pima County,

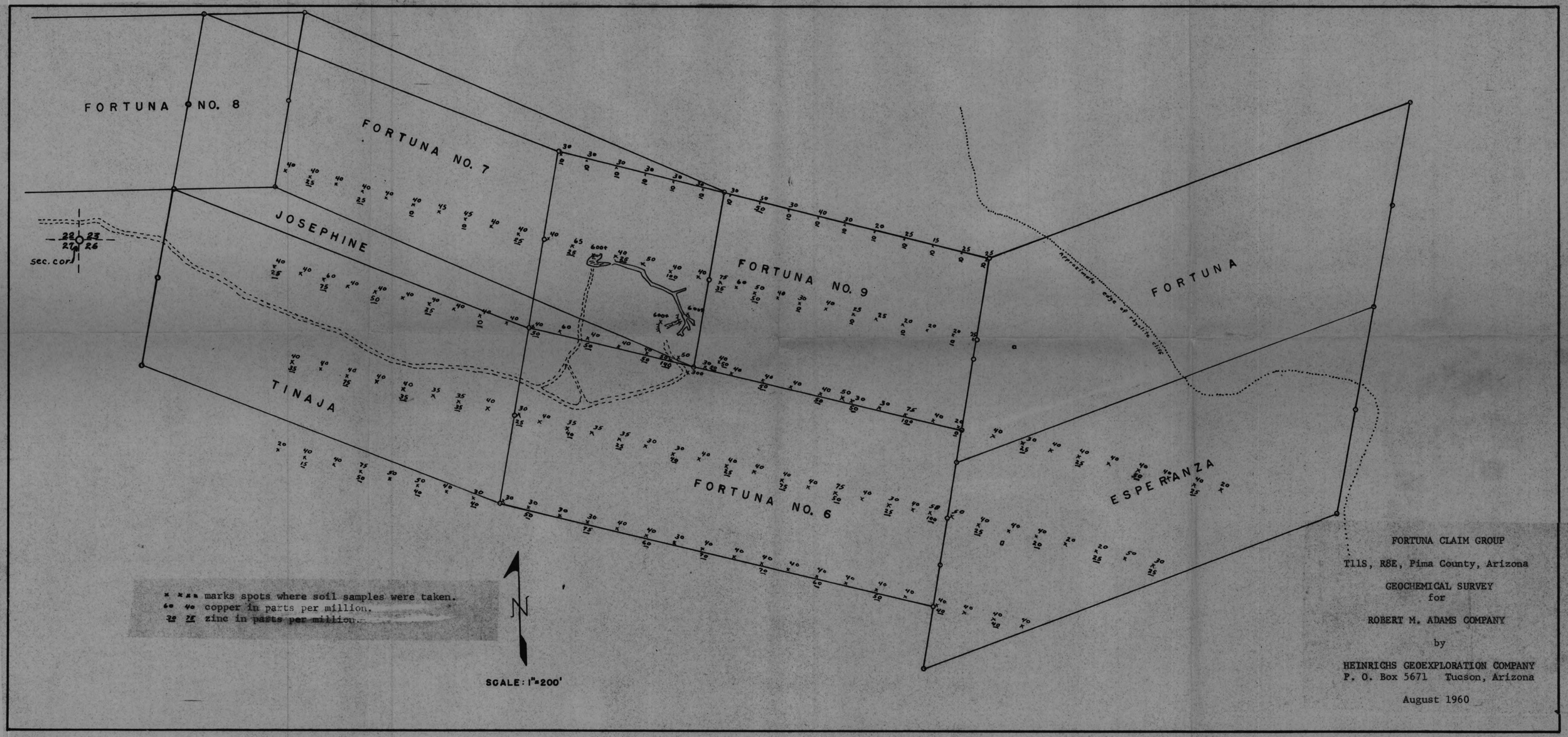
GEOCHEMICAL SURV
for

ROBERT M. ADAMS COM

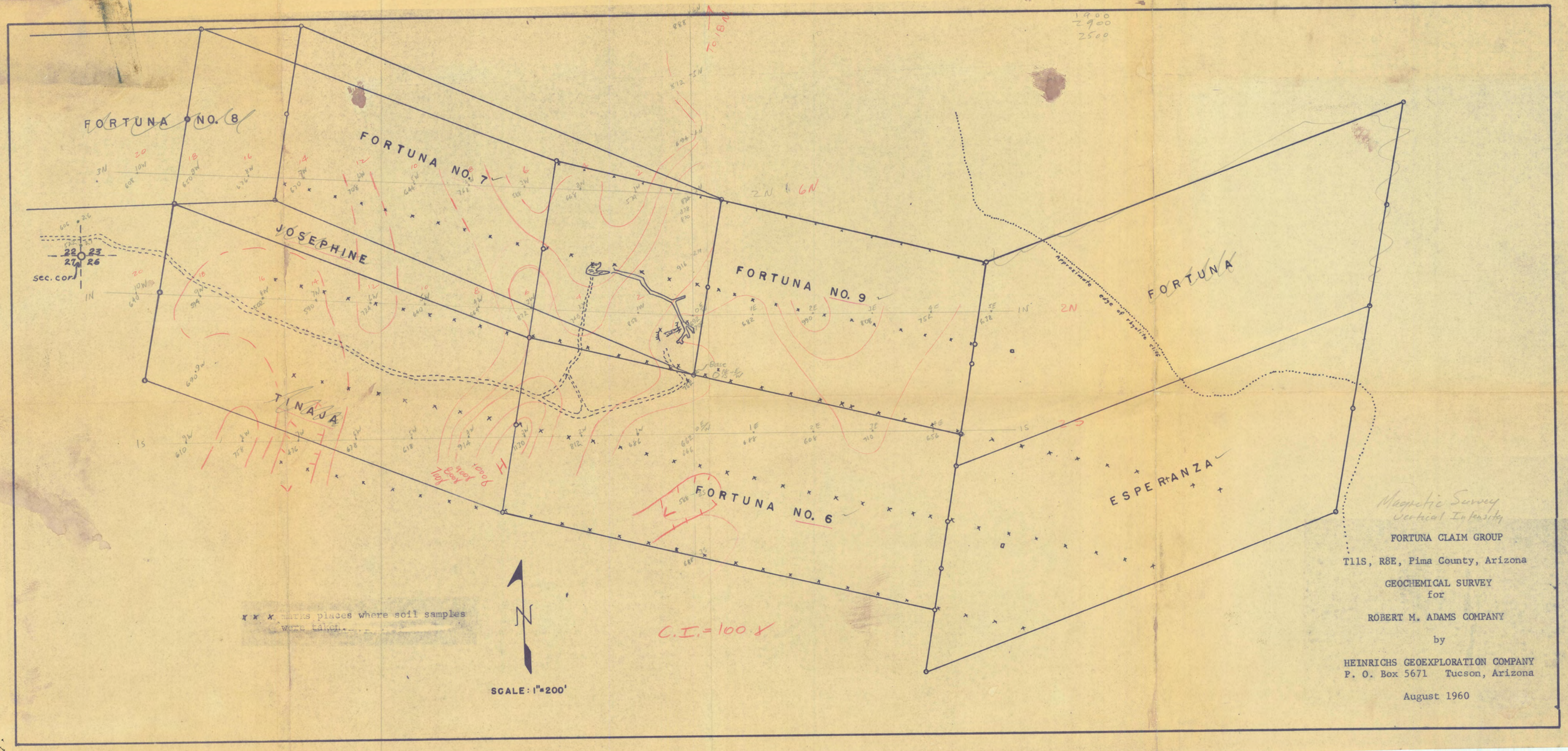
by

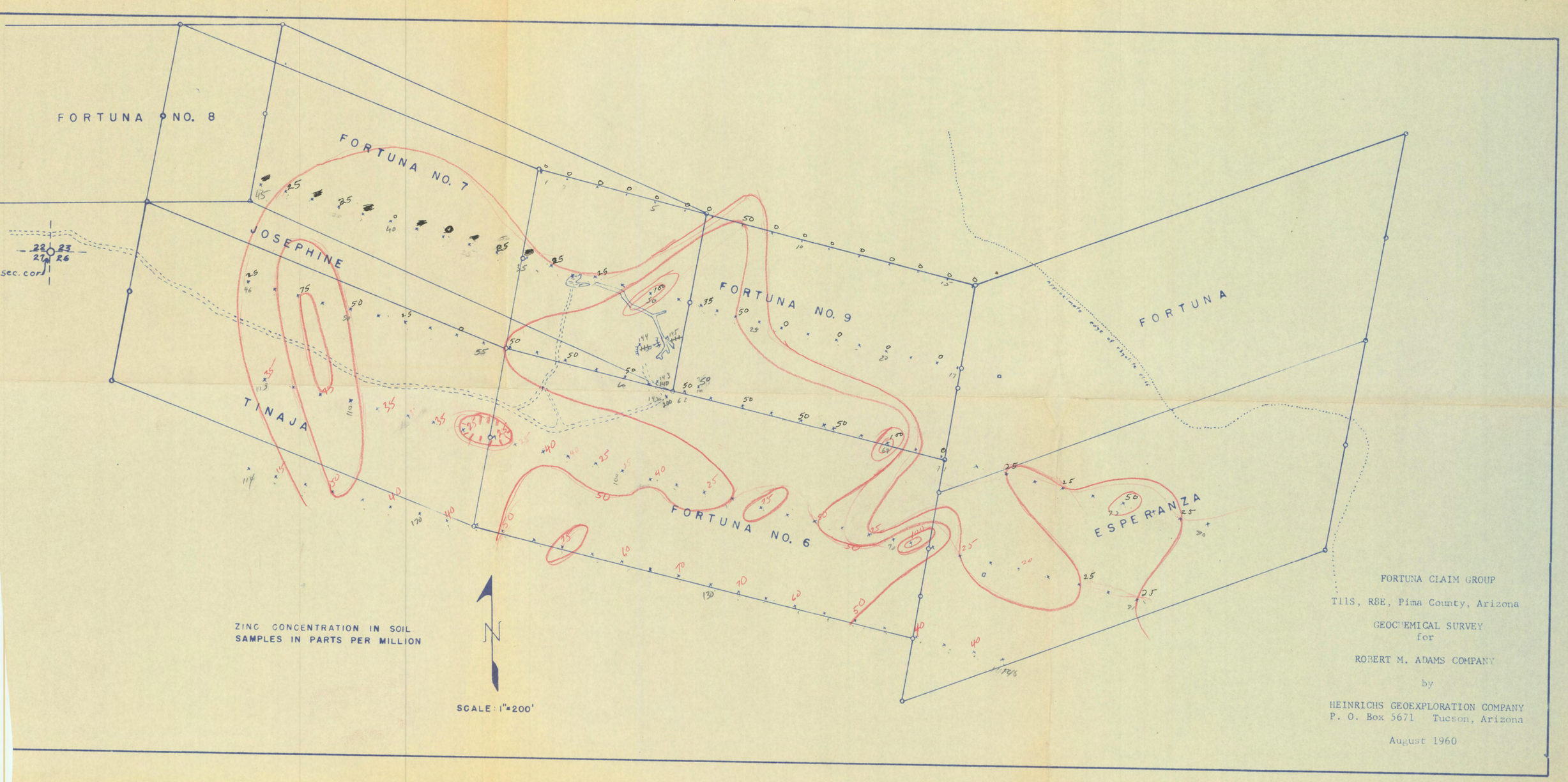
HEINRICHS GEOEXPLORATIO
P. O. Box 5671 Tucson

August 1960



x x x x marks spots where soil samples were taken.
40 40 copper in parts per million.
22 22 zinc in parts per million.


FORTUNA NO. 8
FORTUNA NO. 7
JOSEPHINE
FORTUNA NO. 9
FORTUNA
TINAJA
FORTUNA NO. 6
ESPERANZA
sec. cor.
22 23
27 26
Approximate edge of rhyolite cliff
To 18N
2N 6N
1N
1S
2S
C.I. = 100 γ
x x x marks places where soil samples were taken.
N
SCALE: 1"=200'
Magnetic Survey
Vertical Intensity
FORTUNA CLAIM GROUP
T11S, R8E, Pima County, Arizona
GEOCHEMICAL SURVEY
for
ROBERT M. ADAMS COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona
August 1960



FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

GEOCHEMICAL SURVEY
for

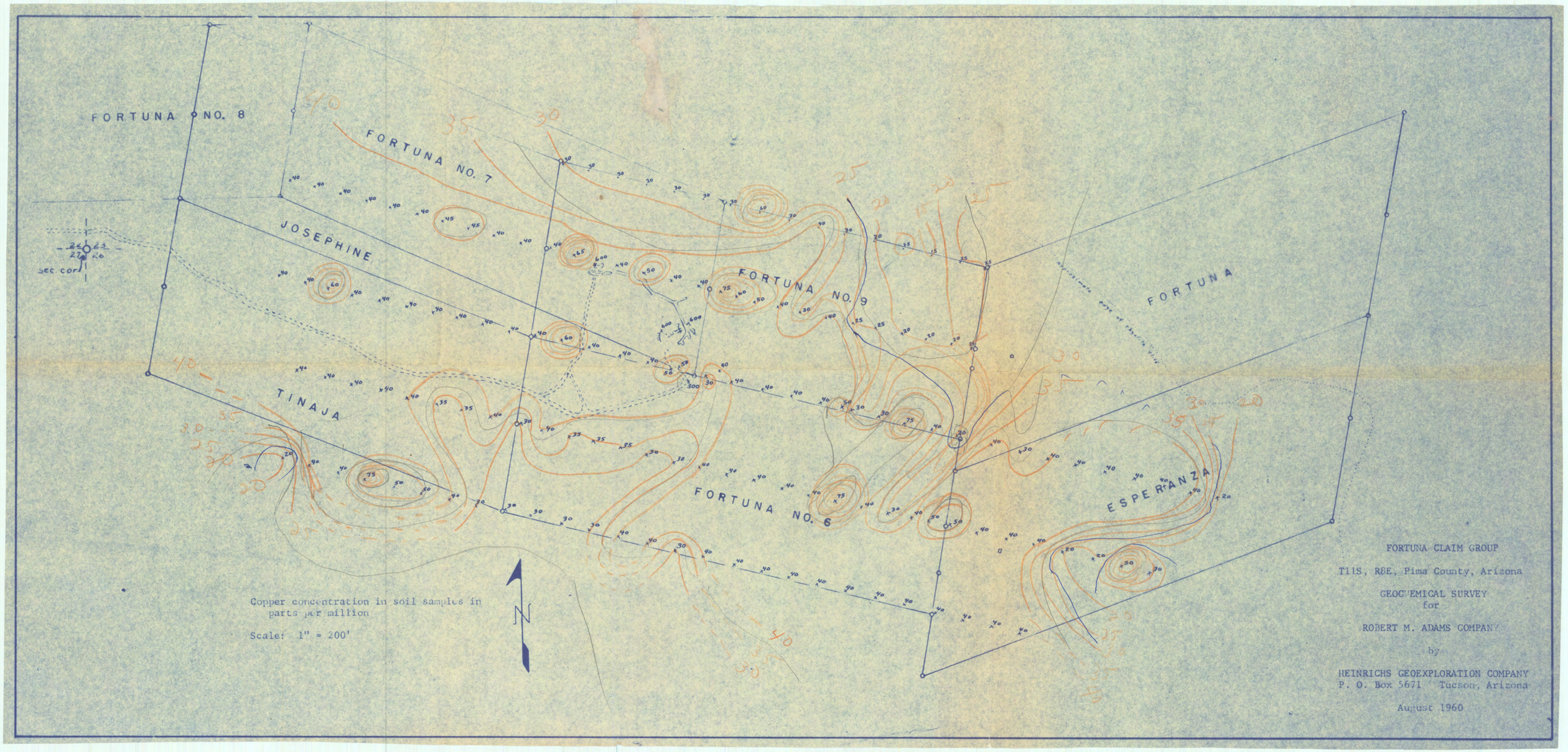
ROBERT M. ADAMS COMPANY

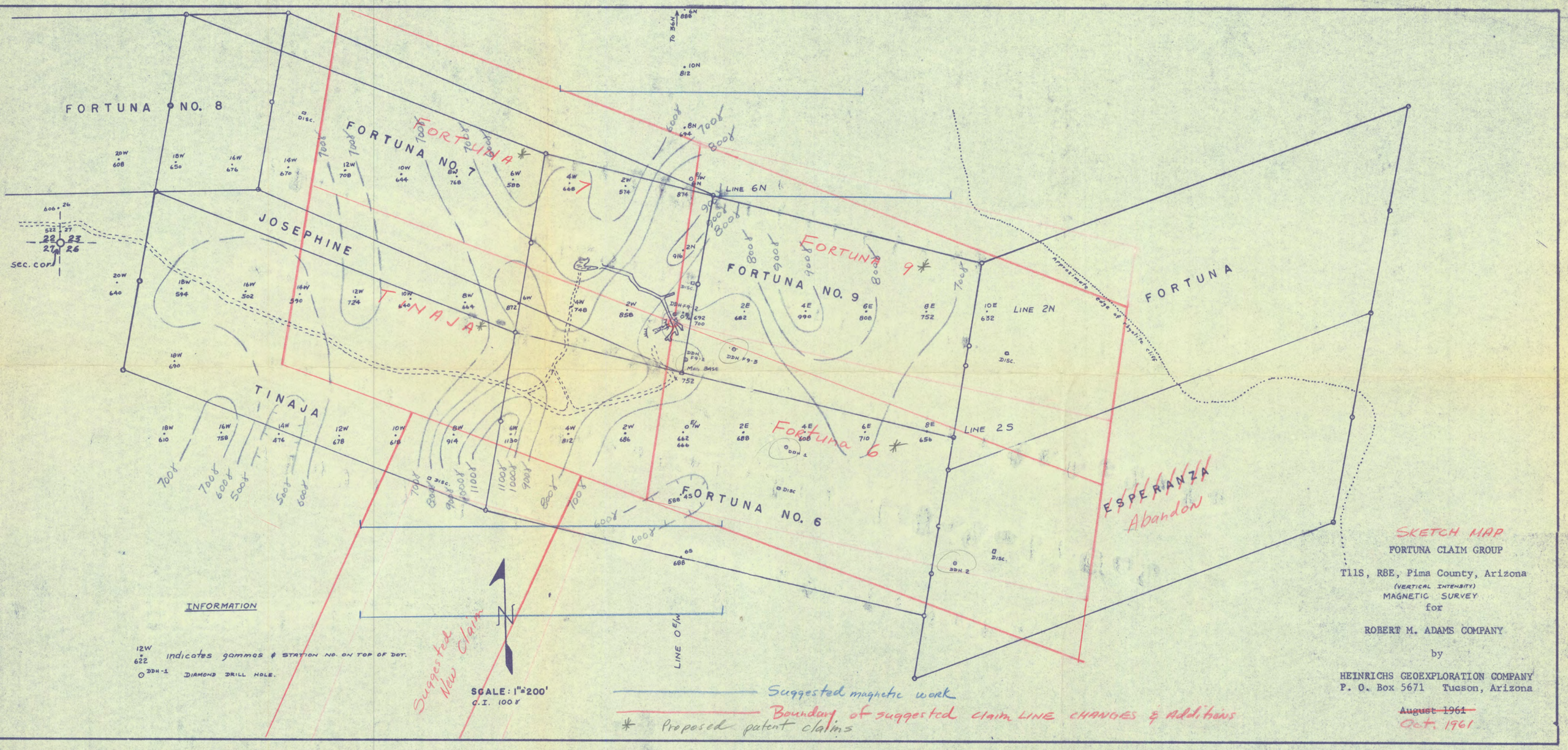
by

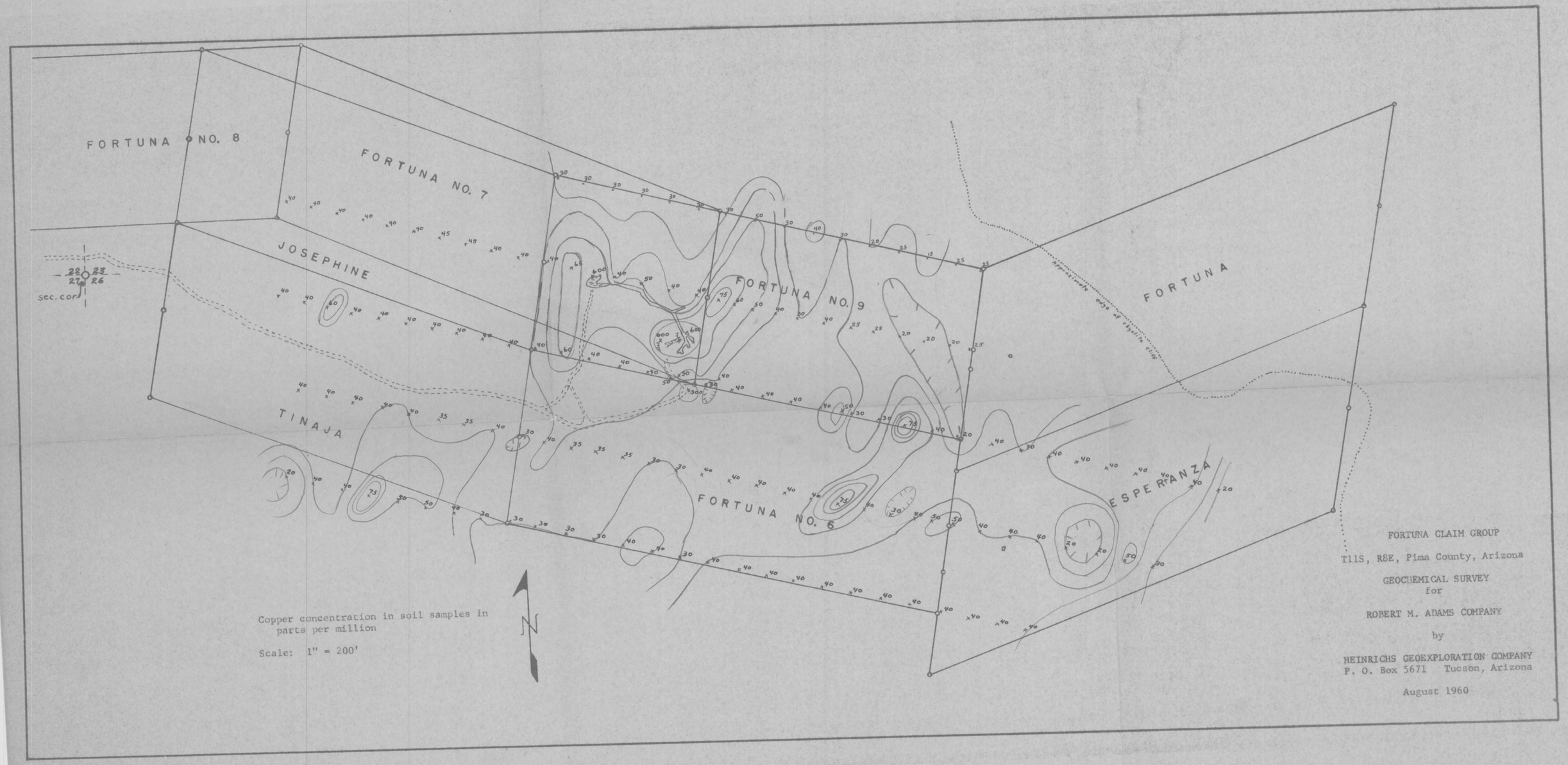
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1960

Rowden


FORTUNA NO. 8
FORTUNA NO. 7
JOSEPHINE
FORTUNA NO. 9
FORTUNA
TINAJA
FORTUNA NO. 6
ESPERANZA
sec. cor.
N
Copper concentration in soil samples in parts per million
Scale: 1" = 200'
FORTUNA CLAIM GROUP
T11S, R8E, Pima County, Arizona
GEOCHEMICAL SURVEY
for
ROBERT M. ADAMS COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona
August 1960


FORTUNA NO. 8
FORTUNA NO. 7
FORTUNA 7
JOSEPHINE
TINAJA
TINAJA
FORTUNA NO. 9
FORTUNA 9
FORTUNA
FORTUNA NO. 6
Fortuna 6
ESPERANZA
Abandon
LINE 6N
LINE 2N
LINE 2S
LINE 0E/W
Suggested New Claim
SCALE: 1"=200'
C.I. 100γ
INFORMATION
12W 622 indicates gammas & STATION NO. ON TOP OF DOT.
DDH-1 DIAMOND DRILL HOLE.
Suggested magnetic work
Boundary of suggested claim LINE CHANGES & Additions
* Proposed patent claims
SKETCH MAP
FORTUNA CLAIM GROUP
T11S, R8E, Pima County, Arizona
(VERTICAL INTENSITY)
MAGNETIC SURVEY
for
ROBERT M. ADAMS COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona
~~August 1961~~
Oct. 1961



Copper concentration in soil samples in parts per million

Scale: 1" = 200'

FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

GEOCHEMICAL SURVEY
for

ROBERT M. ADAMS COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1960

MAGNETIC RECONNAISSANCE SURVEY
(Vertical Intensity)

SILVER BELL MINING DISTRICT
PIMA COUNTY, ARIZONA

1960 - 1961 Assessment Work

for
Robert M. Adams Company
Duluth, Minnesota

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. BOX 5671 TUCSON, ARIZONA

TABLE OF CONTENTS

Introduction---------- 1

Conclusions & Recommendations---------- 1

Objectives---------- 2

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Magnetic Profiles attached:

Line 0 E/W---------- 5

Line 2 North---------- 6

Line 6 North---------- 7

Line 2 South---------- 8

PLAN MAP---------- 9

INTRODUCTION

During the period of August 23, 1961 through August 26 1961 a magnetic survey was conducted by Chris S. Ludwig, John M. Patten, supervised by E. Grover Heinrichs, all employees of Heinrichs Geoexploration Company, Tucson, Arizona on the Fortuna Claim Group located in Section 23, & 26, T11S, R8E, GSRB&M, Pima County, Arizona for Robert M. Adams Company of Duluth, Minnesota. This magnetic survey consisted of three (3) east-west profiles and one (1) north-south profile. The profiles varied in length from 2000 ft to 4200 ft. The three east-west profiles covered the Fortuna #6, Fortuna #7, Fortuna #9 and the Tinaja unpatented mining claims. The north-south profile covered only Fortuna #6 and Fortuna #9 unpatented mining claims.

CONCLUSIONS AND RECOMMENDATIONS

A rather long (1,000 ft.) broad (500 ft.) magnetic trend over the mineralized workings indicates that the possibility exists of a metamorphosed zone of some importance.

Mr. Seaton Williams, in 1952, mapped a small altered area of iron staining about 200 ft. south of the peak of this anomaly, which further points to the possible importance of the area.

If further geophysical work is considered, it is recommended that a more detailed magnetic survey be conducted to close off

the magnetic high to the south.

An induced polarization survey would then be useful and a worthwhile method to directly determine the existence of sulphide concentrations.

OBJECTIVES

The purpose of this magnetic survey was to determine if magnetics could indicate structural features not visible from surface indications and possibly indicate a contact metamorphic zone.

PROCEDURE

A Sharpe model A-2 tripod mounted Schmidt type station reading magnetometer of approximately 10 gamma sensitivity was used.

Horizontal control was established by Brunton compass and pace and stations were tied to claim corners on either end of the line.

A base station was established at the SE corner of Fortuna #7. Throughout the survey an observation was taken in the morning and repeated in the evening to determine the diurnal magnetic changes. A maximum variation of 8 gammas was observed throughout the survey which was deemed insignificant to include in the calculations.

Lines were spaced 400 ft. apart and observations were taken each 200 ft. along the line. The purpose being to get as much area covered as possible and then at some future date do any detail work that appears warranted or necessary.

INTERPRETATION

An anomalous zone extending NE-SW, the peak of which is located at the common end center of the Tinaja and Fortuna #6 could be a contact metamorphic zone of significance. This same zone shows a weak correlation with the copper concentrations on the geochemical survey we conducted last year.

Depth to the top of the cause of the anomaly is estimated to be 360 ft. However this figure is based on meagre information.

This survey, being only reconnaissance in nature, did detect a fairly strong magnetic trend of some possible importance.

Line 0 East - West.

The bleached latite zone from 4N to 6S shows a slightly lower magnetic intensity and at Station 2N the sharp difference of over 200 gammas may be an indication of the change in rock type.

The monzonite zone from 36N to 22N appears to have a slightly higher magnetic susceptibility. There is no noticeable magnetic characteristic over the Trachyte dike, however, the low at station 18N may be an expression of the downward extension of the fault.

Line 2 South.

Station 6W is the peak of magnetic high and a fairly strong trend.

Line 2 North.

Station 6W is a finger of this same high magnetic trend that is indicated at Station 2W. Station 4E may also be a part of this trend but more work will be necessary to establish this.

Line 6 North.

Station 0 E/W shows the northern most expression of a high magnetic trend. Further work would better close the trend to the NE.

Respectfully submitted,

HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs

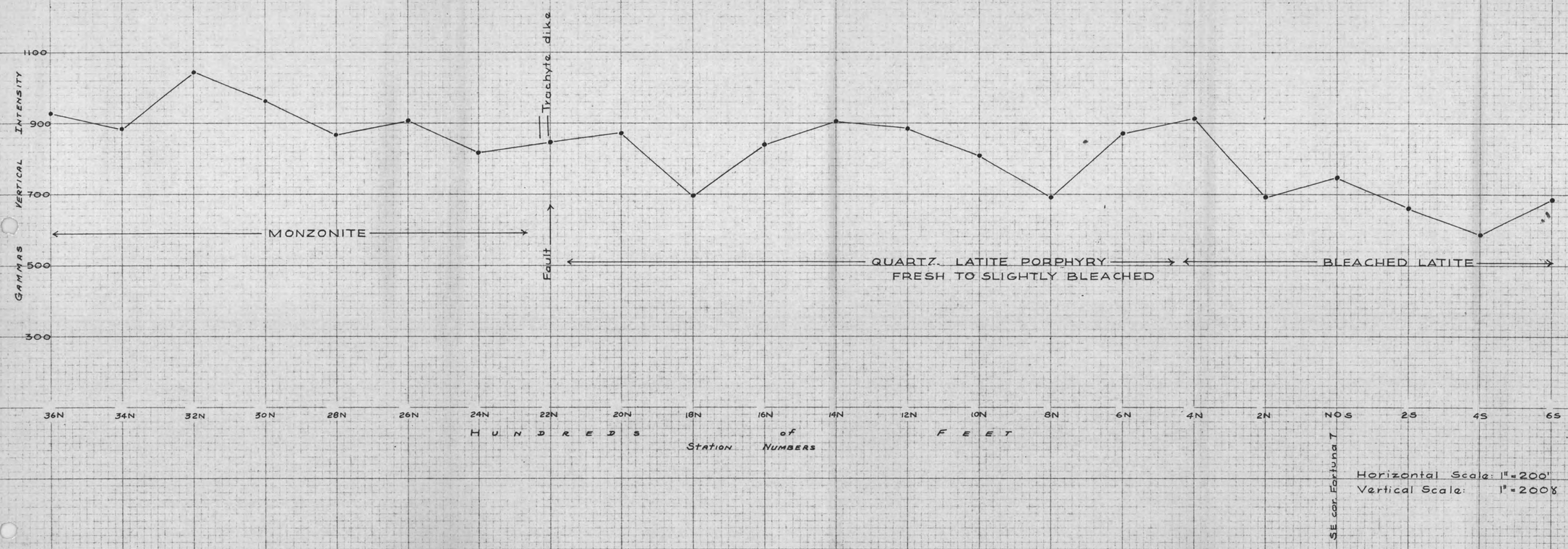
E. Grover Heinrichs
Vice President

Registered Professional Engineer (Mining) CERTIFICATE EXPIRES WALTER E. HEINRICHS, JR. DEC. 31, 1964 ARIZONA

Approved:

Walter E. Heinrichs, Jr.
Registered Mining Engineer

September 25, 1961
P. O. Box 5671
Tucson, Arizona

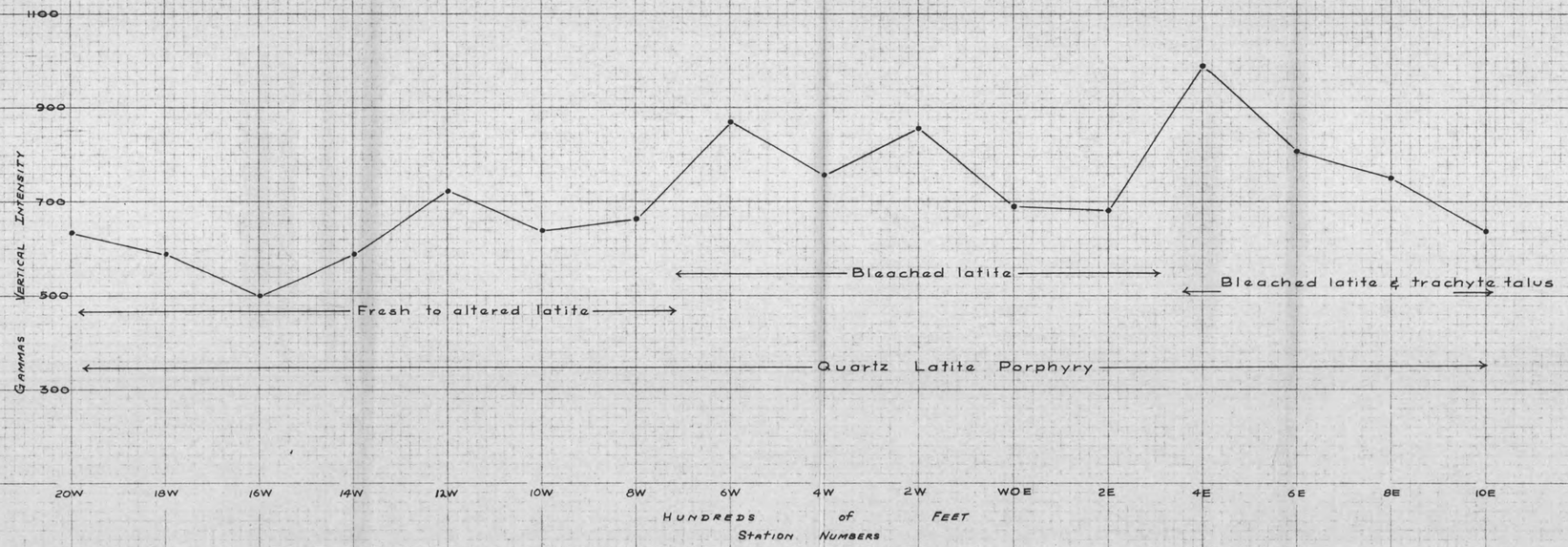


LINE O ~~East-West~~ North-Southlooking East

FORTUNA CLAIM GROUP
Magnetic Survey
(Vertical Intensity)
Sharpe A-2 Instrument
for
ROBERT M. ADAMS COMPANY

by
Heinrichs Geoexploration Company
August 1961

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 200γ

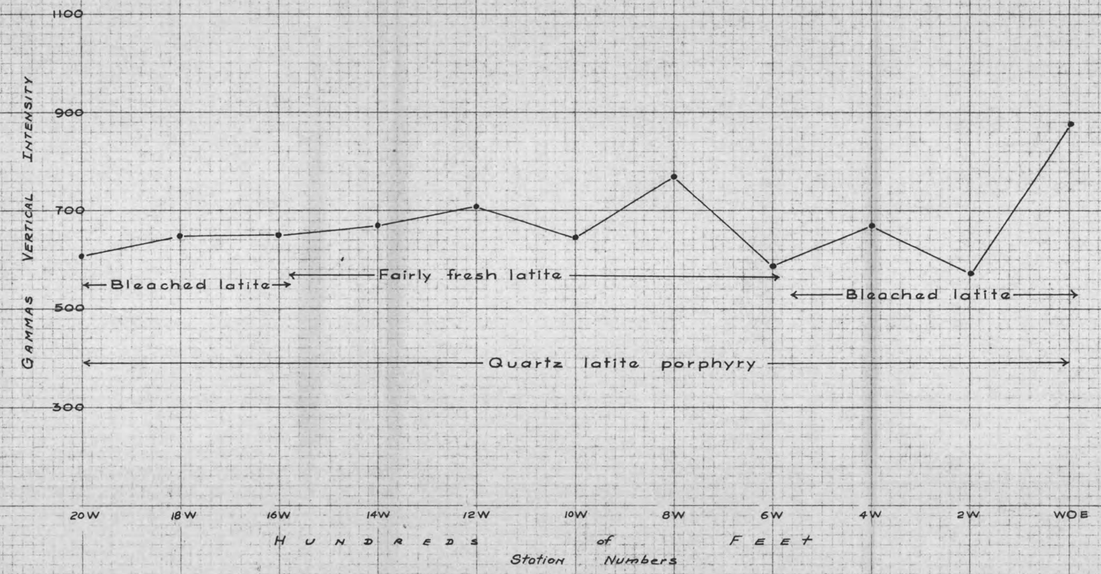


Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 200γ

LINE 2N

FORTUNA CLAIM GROUP
Magnetic Survey
(Vertical Intensity)
Sharpe A-2 Instrument
for
ROBERT M. ADAMS COMPANY
by
Heinrichs Geoexploration Company
August 1961

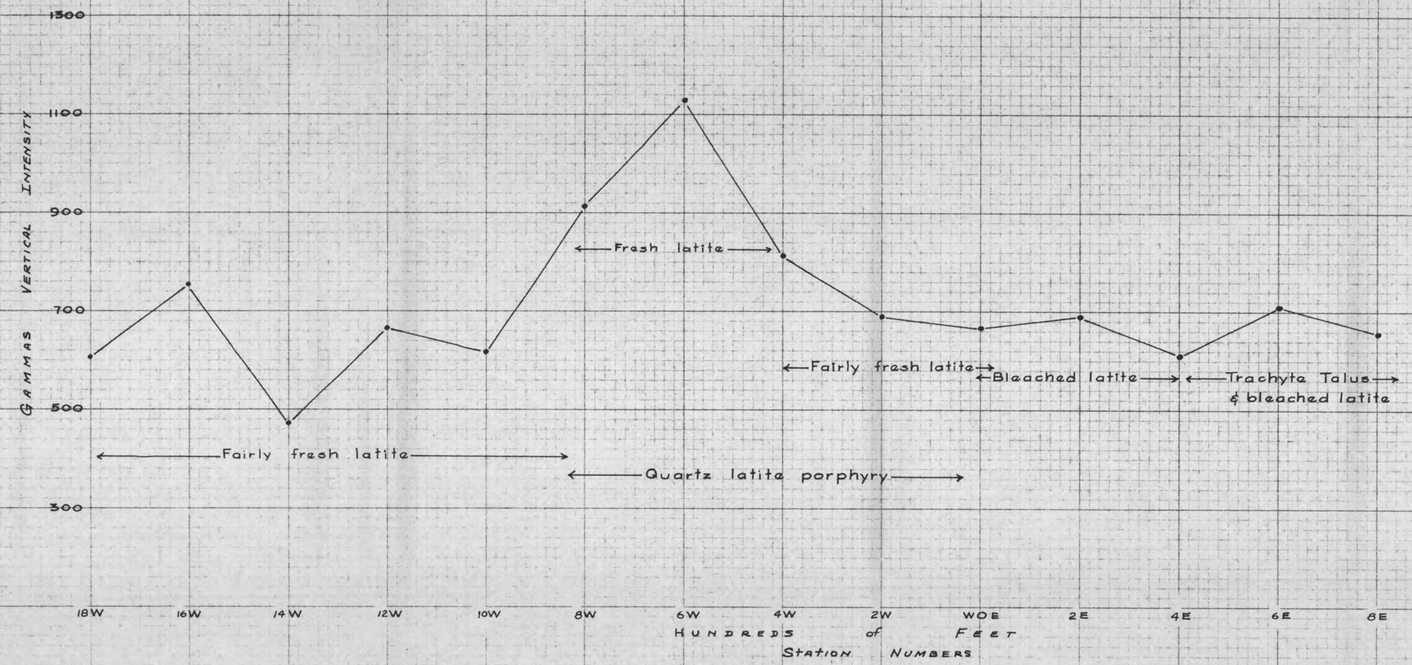
KEUFFEL & ESSER CO.
MADE IN U.S.A.
K+E STANDARD CROSS SECTION
10 X 10 TO THE INCH
KEUFFEL & ESSER CO.
MADE IN U.S.A.



Horizontal Scale: 1"=200'
Vertical Scale: 1"=200γ

LINE 6N

FORTUNA CLAIM GROUP
Magnetic Survey
(Vertical Intensity)
Sharpe A-2 Instrument
for
ROBERT M. ADAMS COMPANY
by
Heinrichs Geoexploration Company
August 1961

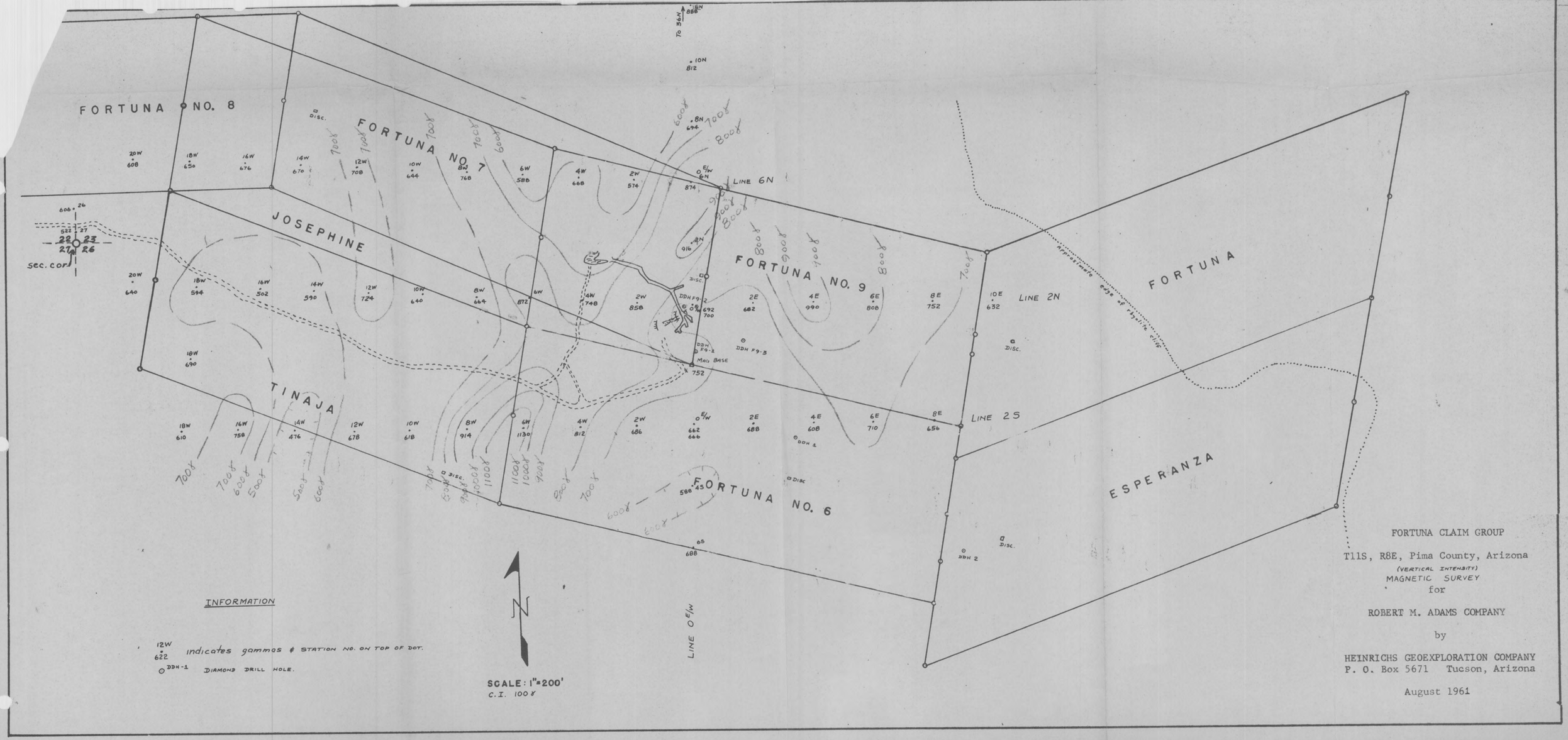


Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 200γ

LINE 2S

FORTUNA CLAIM GROUP
Magnetic Survey
(Vertical Intensity)
Sharpe A-2 Instrument
for
ROBERT M. ADAMS COMPANY
by
Heinrichs Geoexploration Company
August 1961

K+E STANDARD ® CROSS SECTION 10 X 10 TO THE INCH
KEUFFEL & ESSER CO. MADE IN U.S.A.
K+E STANDARD ® CROSS SECTION 10 X 10 TO THE INCH



FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

(VERTICAL INTENSITY)

MAGNETIC SURVEY

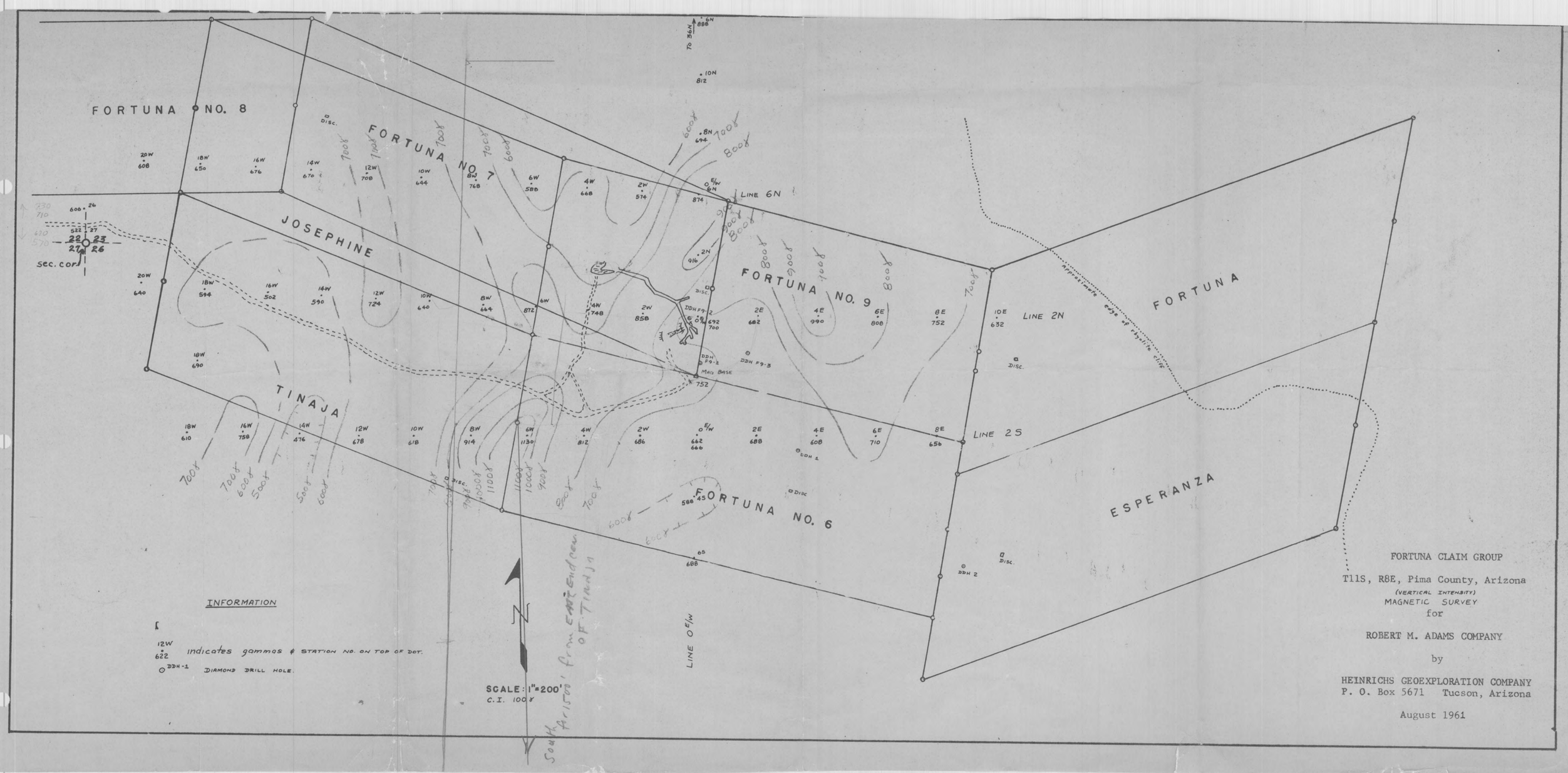
for

ROBERT M. ADAMS COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1961



FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

(VERTICAL INTENSITY)
MAGNETIC SURVEY
for

ROBERT M. ADAMS COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1961

GEOPHYSICAL INVESTIGATIONS

Fortuna Claim Group Project
Pima County, Arizona

for

Robert M. Adams Company

COPY

January 1962

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. BOX 5671 TUCSON, ARIZONA

TABLE OF CONTENTS

	Page
Introduction	1
Conclusions & Recommendations	1
Procedures	2
Method	3
Interpretation	4
Magnetic Interpretations	5

Sectional data sheet.

Profiles:

Resistivities	(First 3 separation points)
Percent Frequency Effect	(" " " ")
Metallic Conduction Factor	(" " " ")
Self Potential	

Magnetics

Magnetic Profiles

COPY

INTRODUCTION

During January 1962 Heinrichs Geoexploration Company conducted induced polarization and magnetic surveys over portions of the Fortuna Claim Group in Sections 22, 23, 26, T11S, R8E in Pima County, Arizona

The I. P. work consisted of 9,000 ft of profile traverse and the magnetic work consisted of 14,200 ft. of traverse on 50 ft. stations.

The field crew consisted of E. Grover Heinrichs, J. W. Marlatt, Frank A. Seward, Jr., and Chris S. Ludwig. Computations were done by Chris S. Ludwig and the interpretation was arrived at by staff discussions including Walter E. Heinrichs, Jr.

CONCLUSIONS AND RECOMMENDATIONS

Rather weak I. P. effects indicate a zone of sulfide concentration which may be of some importance. As only one I. P. profile has crossed the zone and the lateral extent of the zone is unknown it is recommended that further I. P. be conducted to try to extend or cut off the anomaly. The present indications though weak may be a fringe effect of an important zone.

It is recommended that an electrode spacing of 500 ft. cross line No. 1 at a normal angle and center at station 0 E/W on line No. 1. Based on the results of this spread another

spread at 500 ft. electrode spacing should be positioned in such a way to help further define the anomalous area.

The cost of further I. P. work as recommended would approximate $1,000.00 and based upon the results of further data the property could possibly be either finally written off or this pyrite zone may prove to be of some potential economic importance and justify a drilling program and a major exploration effort.

Diamond drill hole F4-1 will be logged by our personnel and possibly certain portions assayed in conjunction with the I. P. program. Further magnetic work alone is not recommended but possibly could be included if desired in conjunction with any future I. P. work.

PROCEDURES

A 750 ft. electrode spacing was selected as the optimum spacing to produce the desired coverage, i.e. covering the sulphide zone at the Buena Vista and centering over the bleached area in the Fortuna No. 4 and Fortuna No. 5. This configuration was positioned to effectively test the S. P. low obtained by Al. Rugg in previous work and also check the general vicinity of DDH F4-1 which according to Mr. Seton Williams' drill logs indicated the most pyrite show of any drilling to date. The I. P. traverse also crossed the south tip of the heavily iron stained volcanic zone on the major wash to the west.

Magnetic readings were observed along the I. P. line east of the center electrode or station 0 E/W. Self potential readings which are a part of the I. P. survey have been plotted as an aid to interpretation.

METHOD

The induced polarization method is based on the somewhat peculiar electrical properties of sulfide particles, and more particularly those of iron, copper and lead. Sulfide particles react to electrical currents somewhat in the manner of miniature capacitors. A rock mass containing sulfide particles will offer a lower impedence to an alternating current than its resistance to a direct current. Hence when a direct current is applied across a pair of current electrodes in the vicinity of a disseminated sulfide body, the potential drop between two potential electrodes some given distance from the current electrodes will be greater than when an alternating current is applied to the first two electrodes. Three separate quantities are computed from the data acquired in the field. The first is the D. C. resistivity. The second is the percent frequency effect. The third quantity is the so called "metallic conduction factor", (a misnomer) which is simply the frequency effect divided by the D. C. resistivity.

The property of induced polarization is not entirely unique to sulfide particles but with sufficient geological knowledge,

anomalism due to sulfides can be normaly interpreted apart from that possibly due to graphite, magnetite, clay particles, etc.

In field practice five equally spaced co-linear current electrodes are set. Observations are made in accordance with the dipole-dipole or Eltran configuration mode of operation in which the distance between the receiver or potential electrodes is equal to the distance between each pair of current electrodes and the separation between the center of each potential electrode set-up from the center of each pair of current electrodes is some multiple of the electrode spacing.

INTERPRETATION

On the first separation resistivities decrease from the 140 ohm feet range to the high 60 ohm feet range as the percent frequency effects increase to almost twice background on two stations. The metallic conduction factor shows a high of about 3 times background at the same location on the first separation and a slight suggestion of an increase on the second separation.

This seems to indicate a sulfide concentration in a zone of unknown size but of some possible importance. This zone shows up only on the first separation with a slight suggestion on the second separation; this seems to indicate a rather shallow zone. At this stage it is difficult to say much except that some minor I. P. anomalism does exist. There is some correlation between the anomalous zone indicated by the I. P.

survey and the DDH F4 - 1 which showed "abundant" pyrite according to Seton William's drill log report. Some correlation also exists with a self potential low obtained by Al Rugg on some previous work done on April 12, 1954.

MAGNETIC INTERPRETATION

Three phases of magnetometer reconnaissance have now been completed:

1. For 1960-1961 assessment work on 4 claims as shown in our report of September 25, 1961.
2. Profiles as shown on drawings 8, 9 & 10 attached to this report and done for the purpose of investigating the anomaly located near the east end center of Tinaja as disclosed by (1) above.
3. Magnetic readings along the southeast half of the I. P. profile taken in conjunction with the I. P. data of line 1 and shown on drawing 7 attached to this report.

The anomaly in Tinaja - Fortuna 6 after being investigated by five profiles appears to be simply erratic concentrations of magnetite and mafic minerals in the somewhat basic porphyry that outcrops in the area. Rather sharp boundaries were crossed indicating that it would be easy to delineate this feature. However, as from information to date there appears to be no economic mineralization or potential associated with this magnetic anomalism no further magnetometer work is justified in this

vicinity until such time as future developments indicate such is warranted. There is a suggestion that the trend of anomalism is a little west of north.

The readings obtained along the I. P. profile show considerable rapid variations also and probably mainly reflect the same rock type. Some of the lows are undoubtedly related to zones of alteration and latite. Much further detailed work would be required to separate and isolate these zones and such should not be done until a more localized area is delineated by other methods.

COPY

Respectfully submitted,

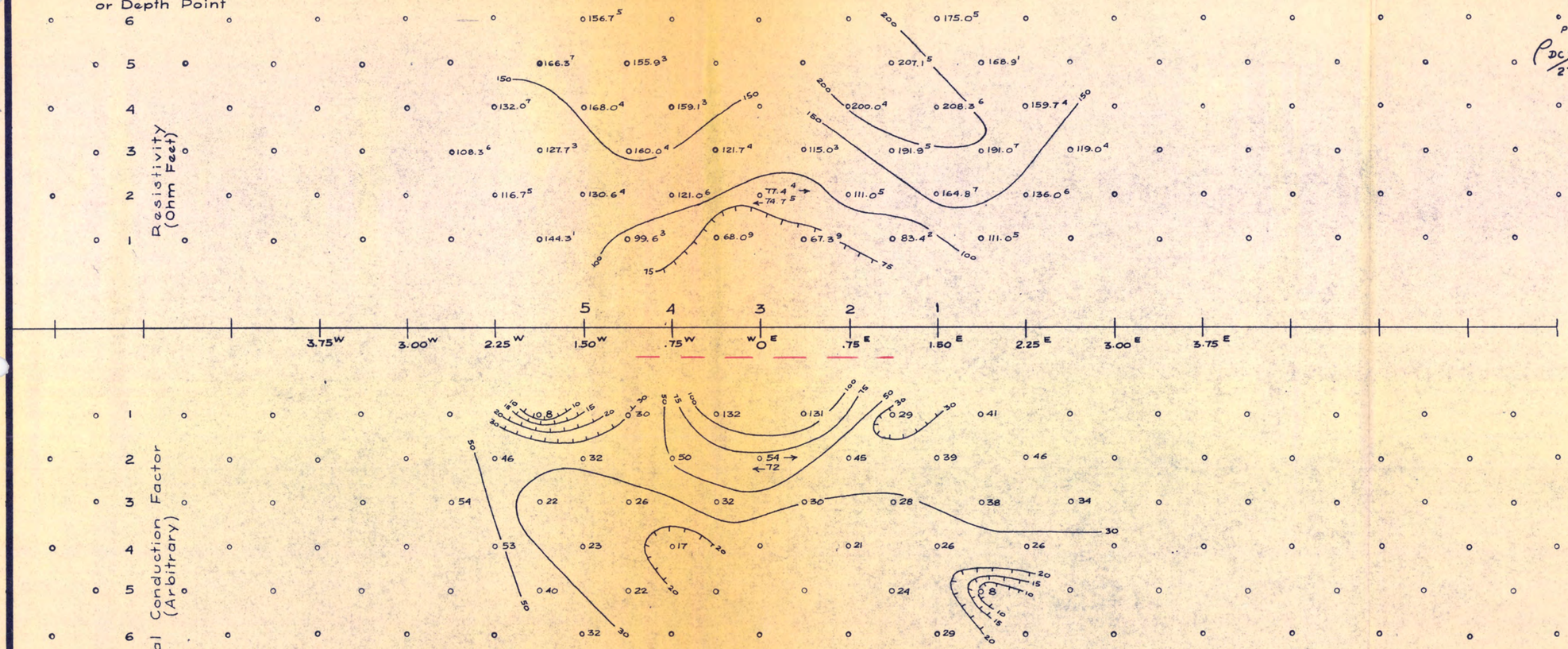
HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs

J. W. Marlatt

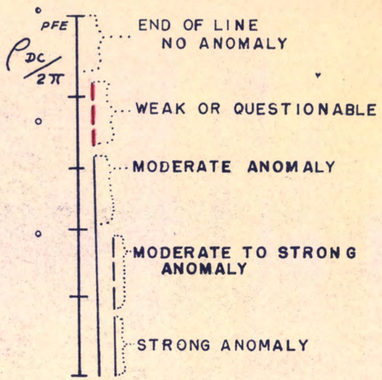
Walter E. Heinrichs, Jr.

January 18, 1962
P. O. Box 5671
Tucson, Arizona



O E/w located at approx. 100' S75°W from the end center of FORTUNA No. 5 at a rock cairn. Bearing approx. S 55° E & N 55° W from O E/w.

INTERPRETATION LEGEND



C.I. = LOGARITHMIC

(( )) INDICATES QUESTIONABLE DATA

M.C.F.

FORTUNA CLAIM GROUP

SECTIONAL DATA SHEET

for

ROBERT M. ADAMS CO.

LINE No. 1 E-W

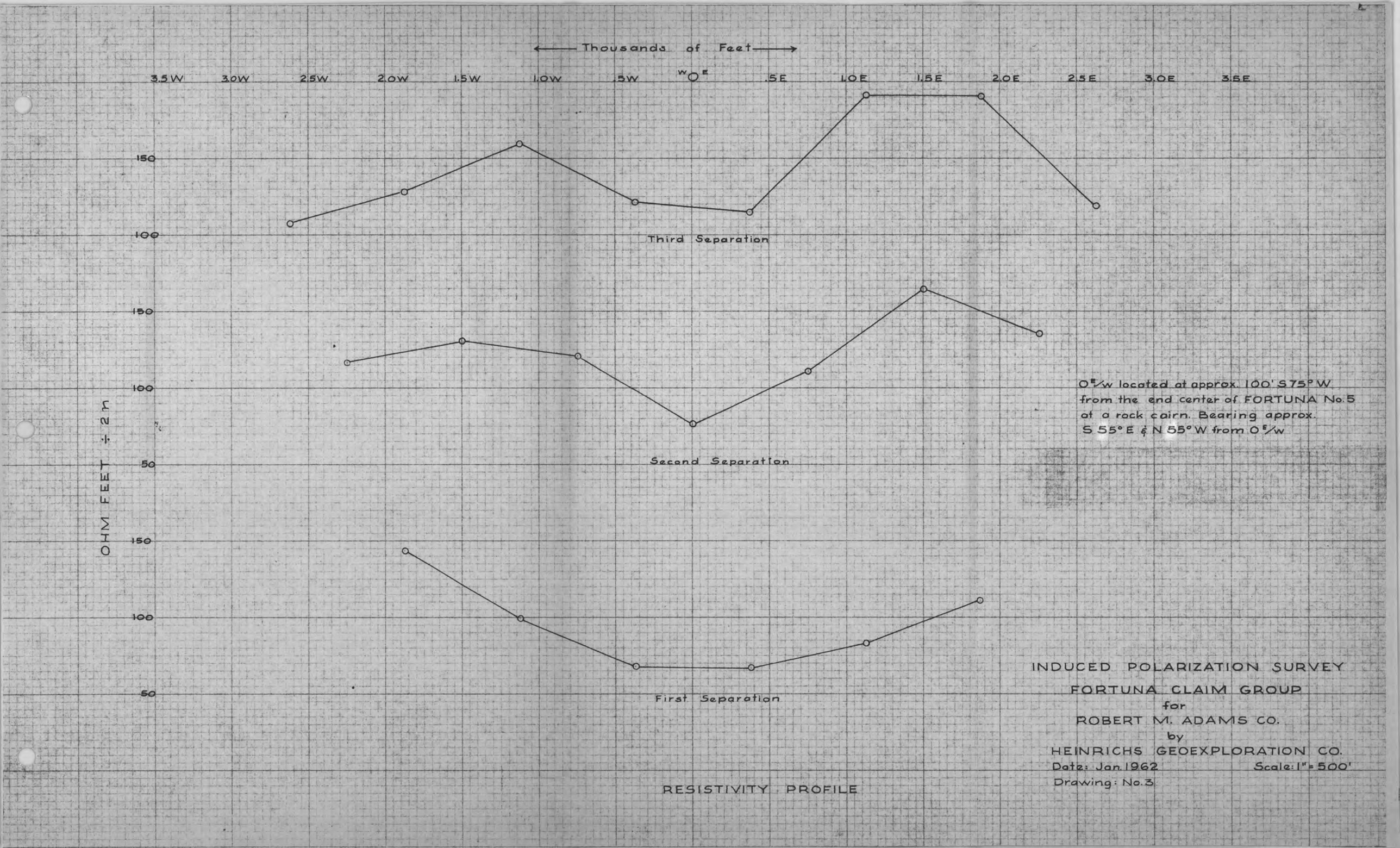
INDUCED POLARIZATION SURVEY

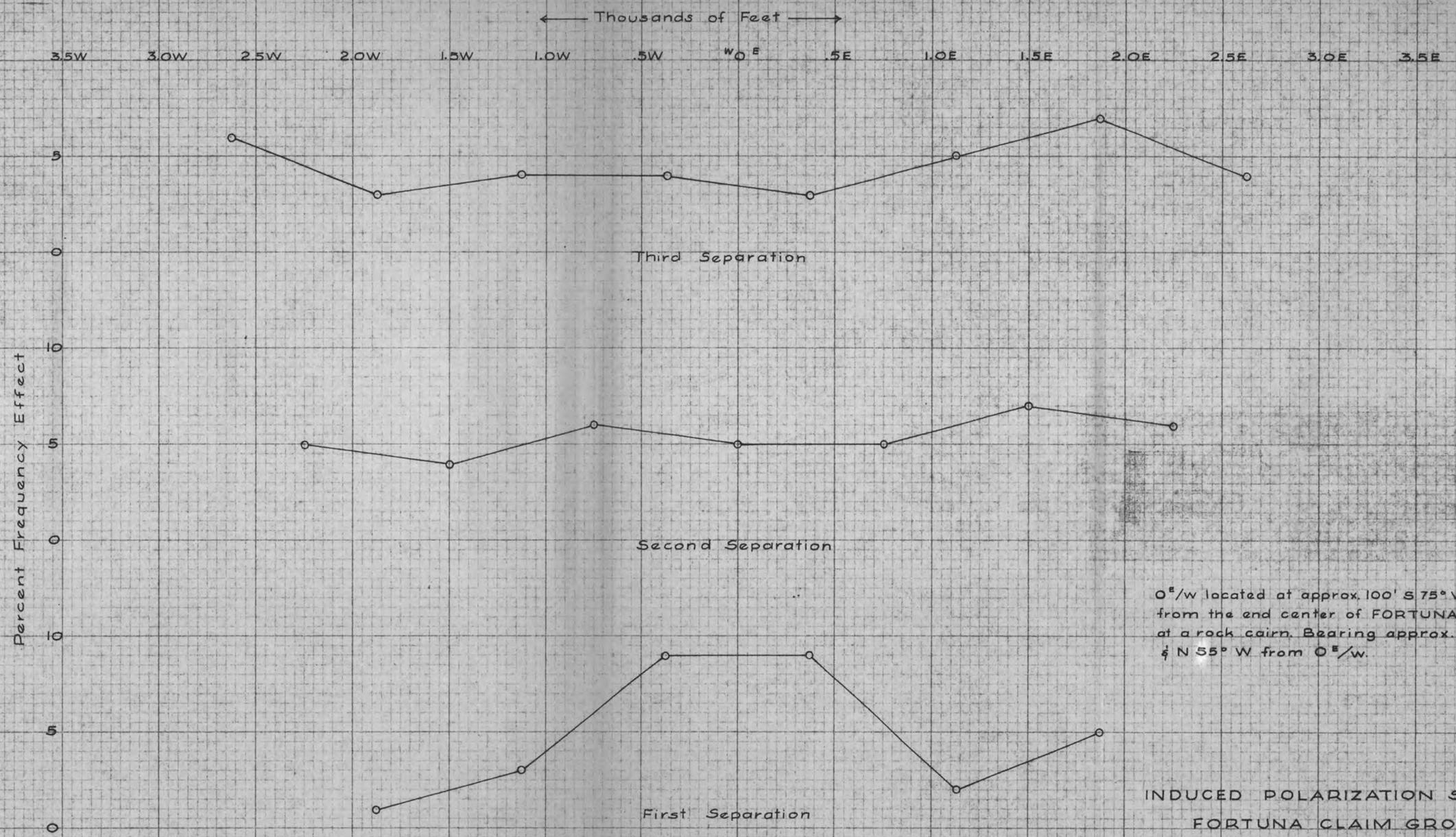
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 750'

DATE: Jan. 1962

DRAWING: No. 2

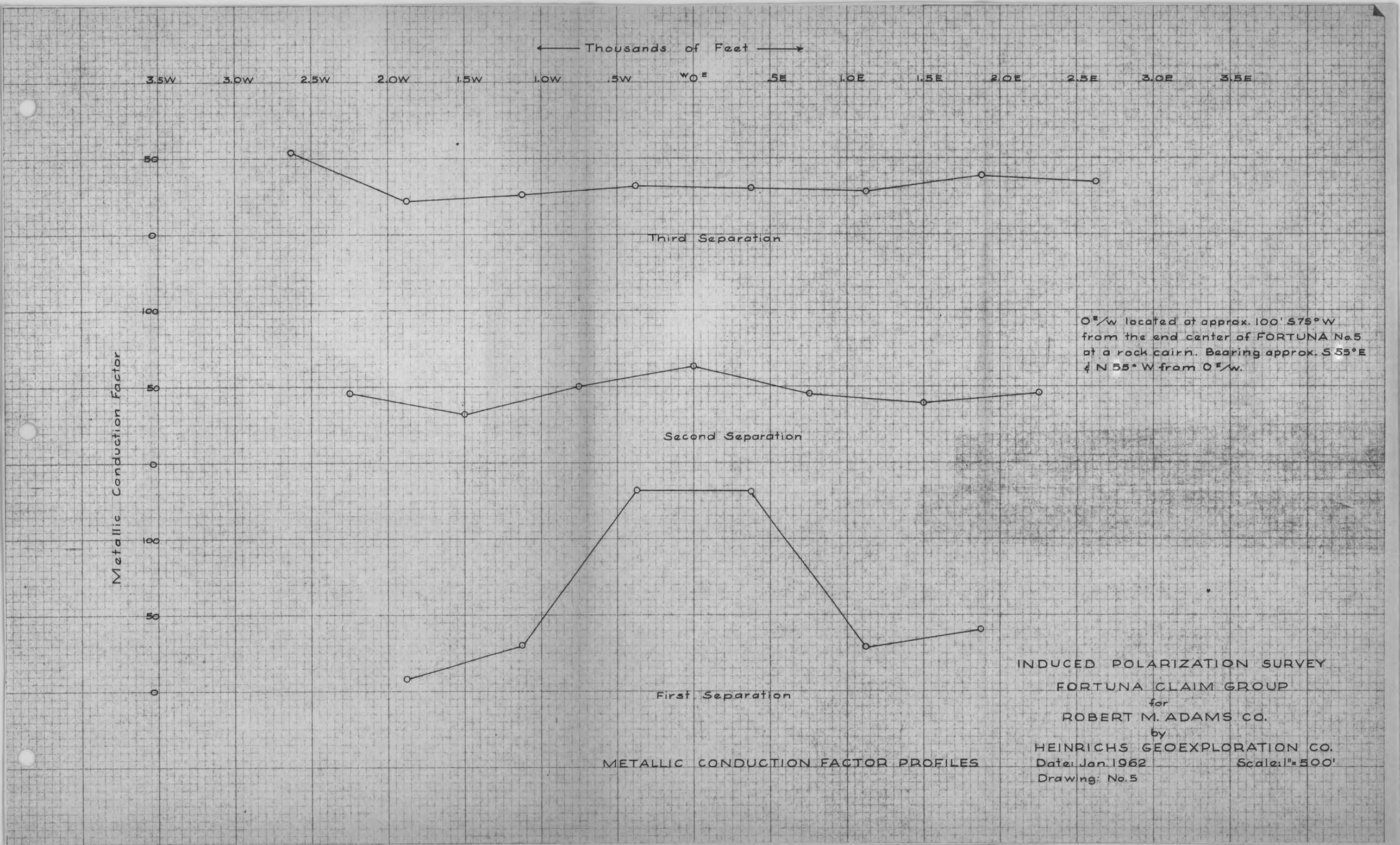

Thousands of Feet
3.5W
3.0W
2.5W
2.0W
1.5W
1.0W
.5W
W O E
.5E
1.0E
1.5E
2.0E
2.5E
3.0E
3.5E
OHM FEET
150
100
Third Separation
150
100
Second Separation
50
150
100
First Separation
50
O E/w located at approx. 100' S 75° W
from the end center of FORTUNA No. 5
at a rock cairn. Bearing approx.
S 55° E & N 55° W from O E/w
INDUCED POLARIZATION SURVEY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Jan. 1962
Scale: 1" = 500'
Drawing: No. 3
RESISTIVITY PROFILE

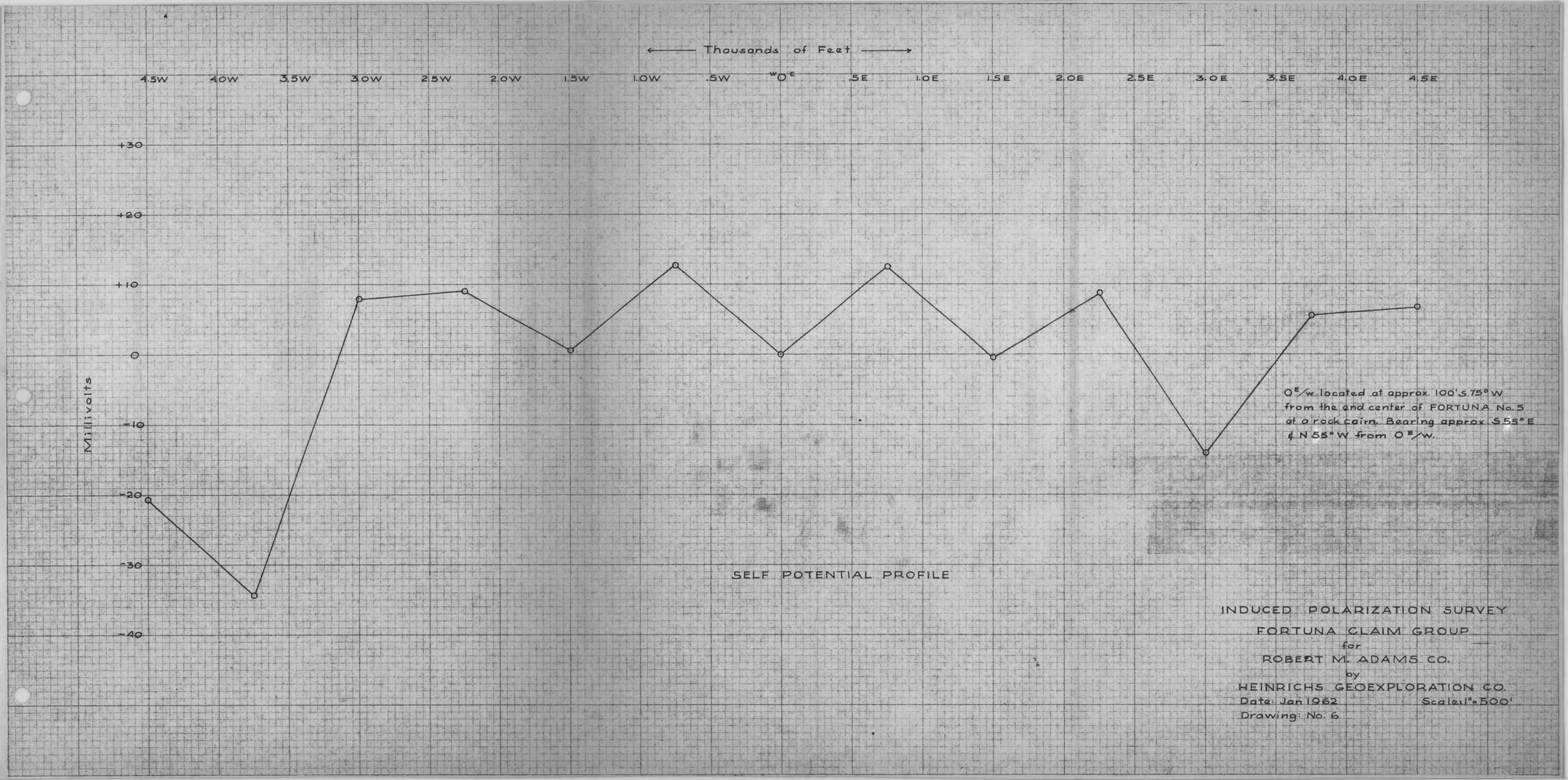


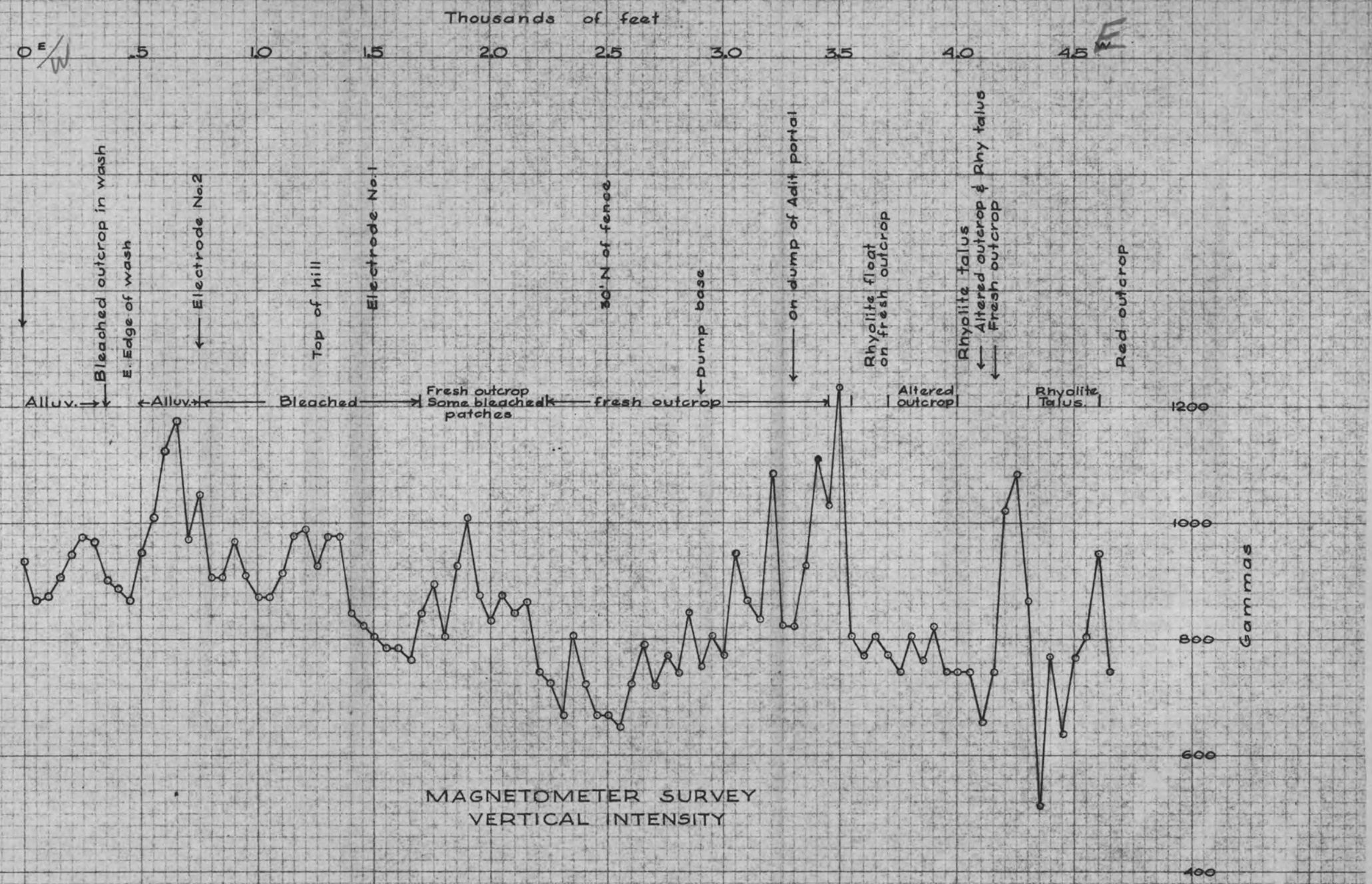
0E/W located at approx. 100' S 75° W from the end center of FORTUNA No. 5 at a rock cairn. Bearing approx. S 55° E & N 55° W from 0E/W.

INDUCED POLARIZATION SURVEY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Jan. 1962 Scale: 1" = 500'
Drawing: No. 4

PERCENT FREQUENCY EFFECT PROFILES


Thousands of Feet
3.5W
3.0W
2.5W
2.0W
1.5W
1.0W
.5W
W0E
.5E
1.0E
1.5E
2.0E
2.5E
3.0E
3.5E
Metallic Conduction Factor
50
0
100
50
0
100
50
0
Third Separation
Second Separation
First Separation
0E/w located at approx. 100' S75°W from the end center of FORTUNA No.5 at a rock cairn. Bearing approx. S 55°E & N 55° W from 0E/w.
INDUCED POLARIZATION SURVEY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Jan. 1962
Scale: 1"=500'
Drawing: No. 5
METALLIC CONDUCTION FACTOR PROFILES


Thousands of Feet
4.5W
4.0W
3.5W
3.0W
2.5W
2.0W
1.5W
1.0W
.5W
W 0 E
.5E
1.0E
1.5E
2.0E
2.5E
3.0E
3.5E
4.0E
4.5E
+30
+20
+10
0
-10
-20
-30
-40
Millivolts
0 E/W located at approx. 100' S 75° W from the end center of FORTUNA No. 5 at a rock cairn. Bearing approx. S 55° E & N 55° W from 0 E/W.
SELF POTENTIAL PROFILE
INDUCED POLARIZATION SURVEY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Jan 1962
Scale: 1" = 500'
Drawing: No. 6



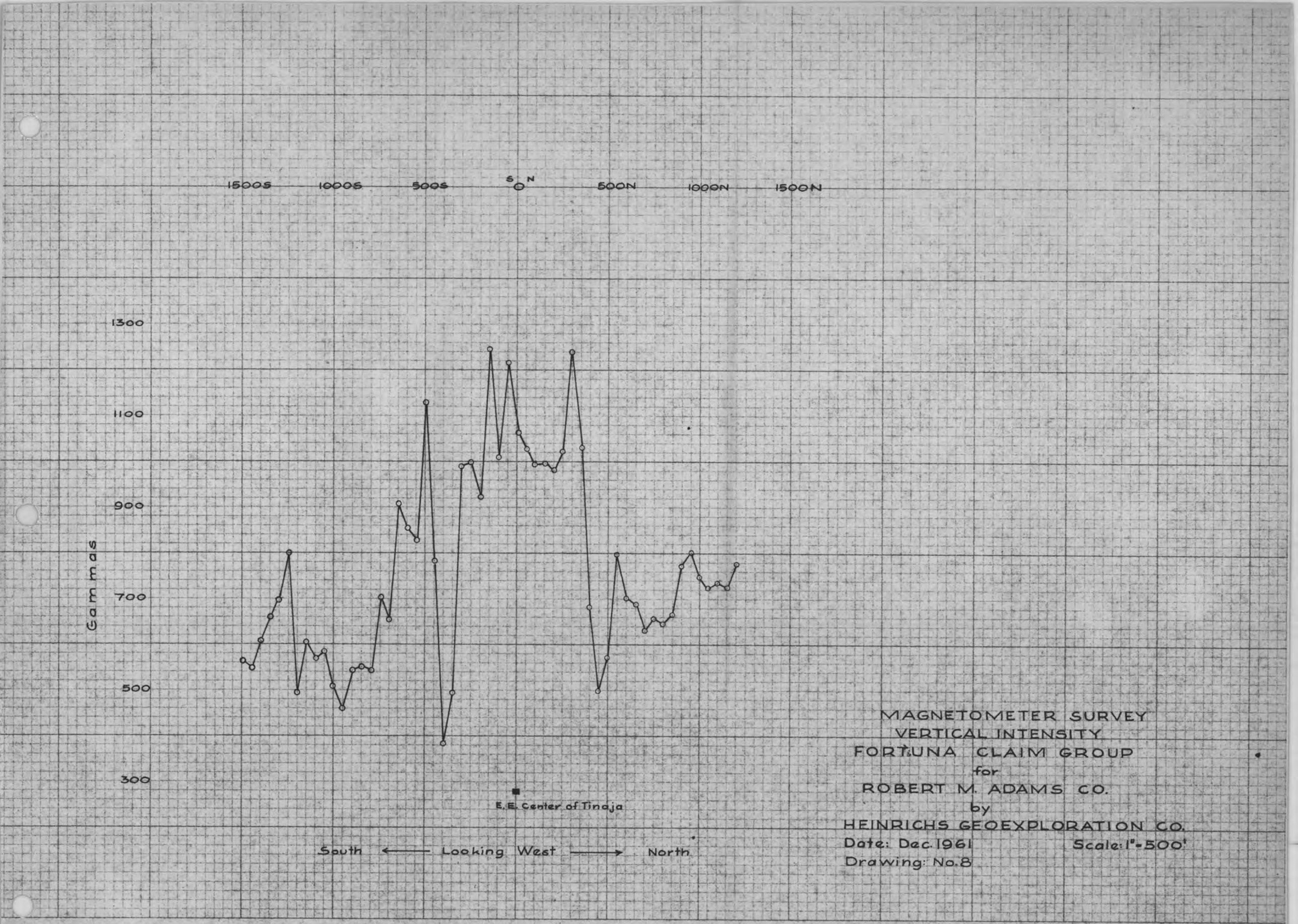
MAGNETOMETER SURVEY
VERTICAL INTENSITY

0 E/W located at approx. 100' S 75° W from the end center of FORTUNA No. 5 at a rock cairn. Bearing approx. S 55° E & N 55° W from 0 E/W.

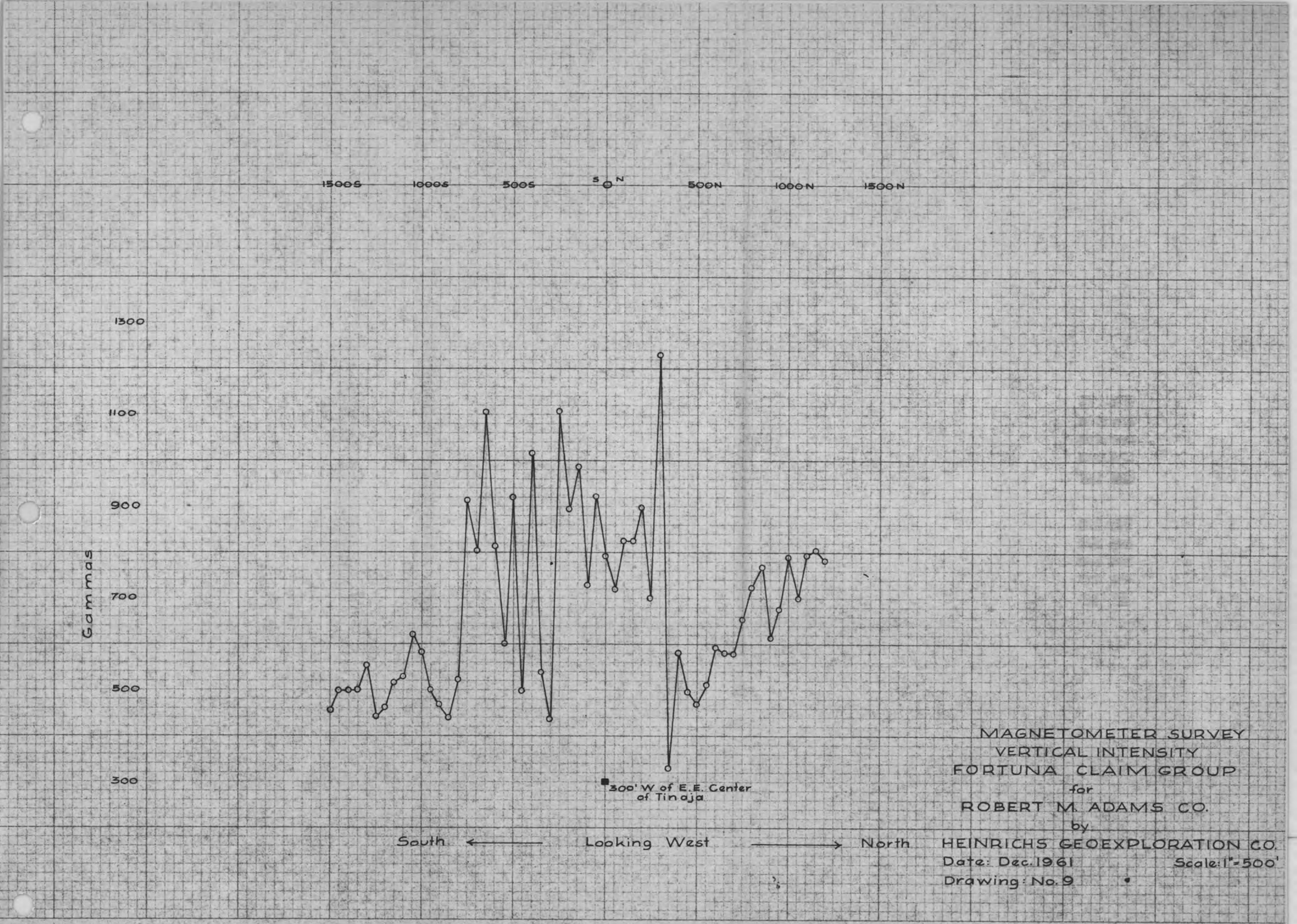
INDUCED POLARIZATION SURVEY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Jan. 1962 Scale: 1"=500'
Drawing: No. 7

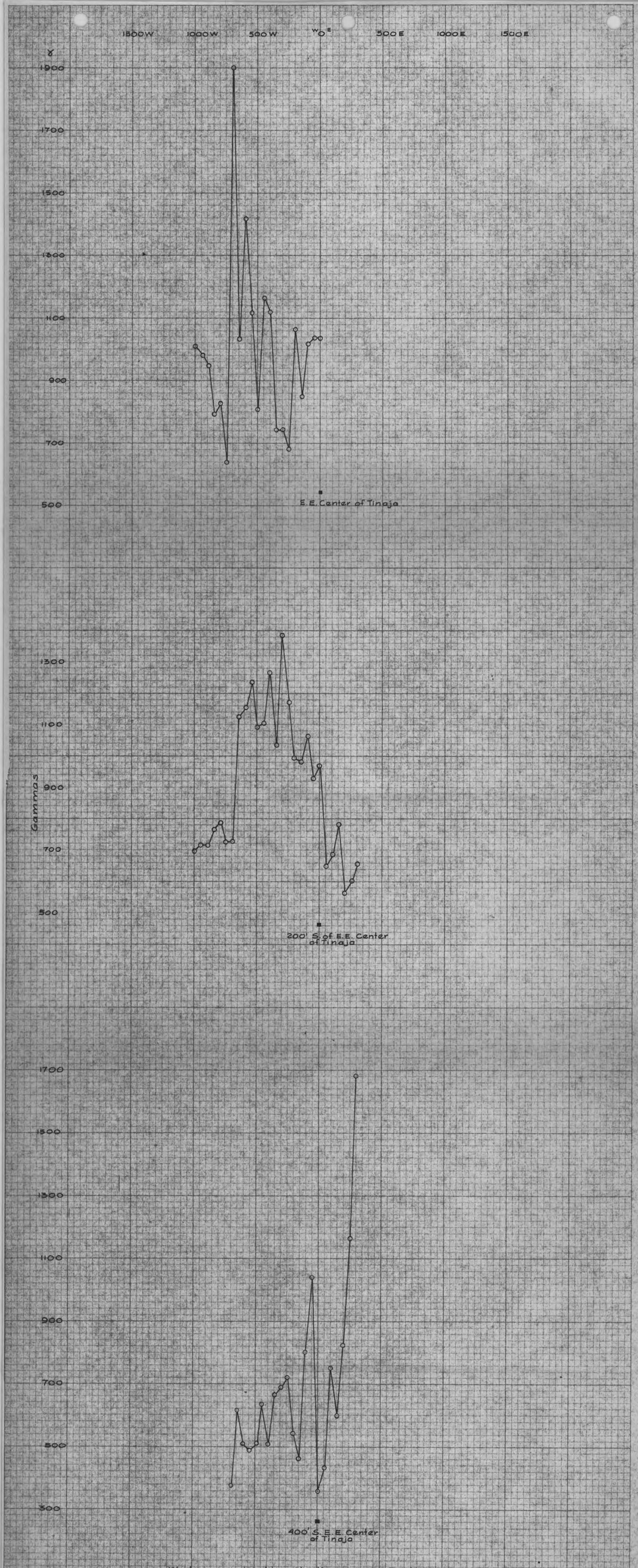
KEUFFEL & ESSER CO.
MADE IN U.S.A.

K+E STANDARD ® CROSS SECTION
10 X 10 TO THE INCH

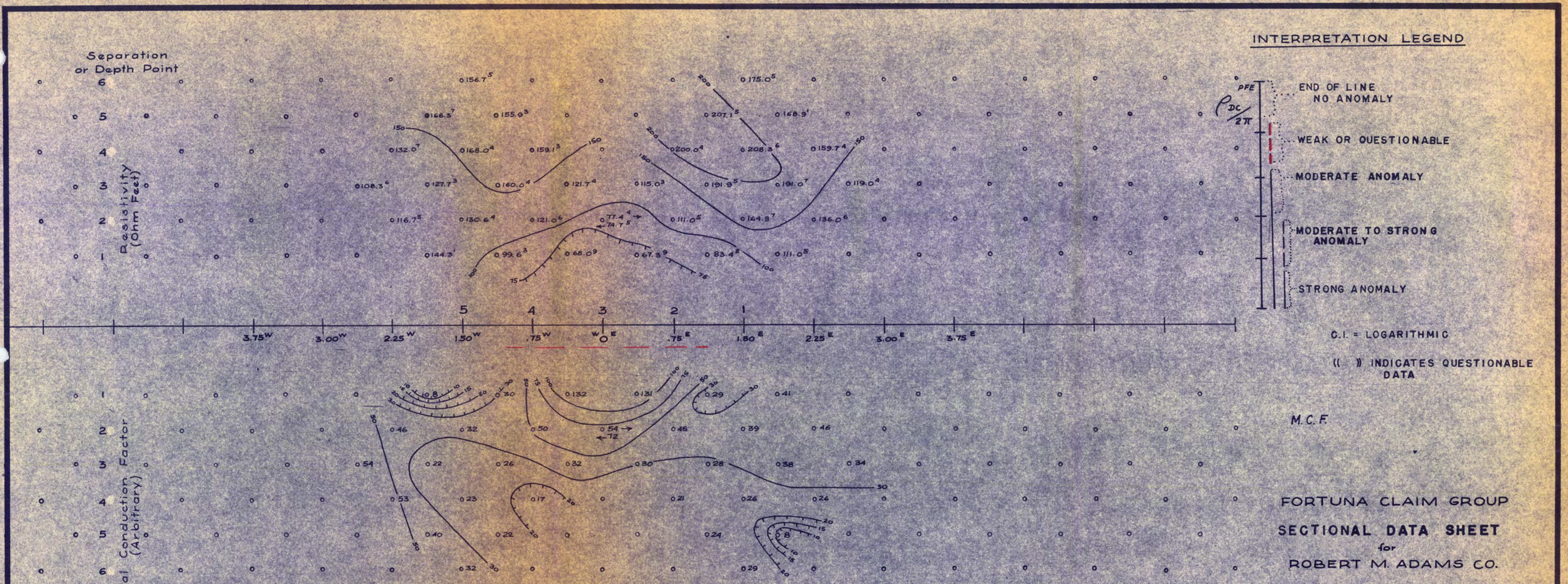


K+E STANDARD CROSS SECTION 10×10 TO THE INCH


1500S
1000S
500S
5 0 N
500N
1000N
1500N
1300
1100
900
700
500
300
Gammas
300' W of E.E. Center of Tinaja
South
Looking West
North
MAGNETOMETER SURVEY
VERTICAL INTENSITY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Dec. 1961
Scale: 1"=500'
Drawing: No. 9



MAGNETOMETER SURVEY
VERTICAL INTENSITY
FORTUNA CLAIM GROUP
for
ROBERT M. ADAMS CO.
by
HEINRICHS GEOEXPLORATION CO.
Date: Dec. 1961 Scale 1"=500'
Drawing: No. 10



O^E/w located at approx. 100' S 75° W from the end center of FORTUNA No. 5 at a rock cairn. Bearing approx. S 55° E & N 55° W from O^E/w.

FORTUNA CLAIM GROUP

SECTIONAL DATA SHEET

for

ROBERT M. ADAMS CO.

LINE No. 1 E-W

INDUCED POLARIZATION SURVEY

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 750'

DATE: Jan. 1962

DRAWING: No. 2

ROBERT M. ADAMS COMPANY
NEVADA
FIDELITY BUILDING
Duluth 2, Minnesota

NOV 1961
GEOEX

November 7, 1961

Mr. E. Grover Heinrichs
Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Dear Mr. Heinrichs:

Mr. Adams has some correspondence from you of October 16 (with enclosures) on both Gila and Fortuna Claims and, due to his absence from the city a great deal of the time since its receipt, Mr. Adams had not acknowledged this correspondence. He is presently on a trip East and will be back in the office on November 20 for two weeks. Meanwhile, your statement of October 16 is being attended to.

Very truly yours,

ROBERT M. ADAMS COMPANY

By Miss Laura C. Wilson

law

ROBERT M. ADAMS COMPANY
NEVADA
Duluth 2, Minnesota
FIDELITY BUILDING

August 29, 1961

SEP 1961
GEOEX

Mr. Grover Heinrichs
Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Dear Mr. Heinrichs:

Pursuant to our recent telephone conversations, particularly that of last Saturday the 26th. Also, referring to your letter of August 23 which I received on my return to the office after an absence of about a week. I note what you say regarding both the Fortuna and Gila Claims--that you have done the magnetometer work on the Fortuna for which enclosed is check for $400 as requested.

As to the Gila, also enclosed is check for $1300 as requested.

I think my ideas have been covered in prior letters and in telephone conversations, but my understanding on the Gila is that you will cause $1300 of road work to be done which will cover the assessment work on the thirteen Gila Claims. Also, that you will with the same bulldozer cause enough excavations on the eight new claims adjoining the Gila to the southwest to cover the location work thereof. Also, that the assessment work started prior to September 1 and the locations subsequent to September 1 will be all done at this time. I assume we are saving money in the end by doing the location work by bulldozer when it is there for the present Gila assessment work than to have to come back in ninety days after location posting and filing and doing the necessary location excavation at that later date?

Very truly yours,

RMA:law
Enclosures

ROBERT M. ADAMS COMPANY
NEVADA
Duluth 2, Minnesota
FIDELITY BUILDING

AUG 1961
GEOEX

Area 218 Randolph 7-5033

August 18, 1961

Mr. E. Grover Heinrichs
Heinrichs Geoexploration Company
P. O. Box 5671
806-808 West Grant Road
Tucson, Arizona

Dear Mr. Heinrichs:

Referring to our conversation on the phone Saturday the 12th--FORTUNA:

We have to initiate $400 of work on the four claims on the South side to which we have trimmed down this property. We have drilled and we have worked on roads, and some geophysical work was done some years back, mostly to the west; and last year we did our assessment work in the form of a geochemical survey.

I keep running out of maps, and I have no doubt you have a copy of the enclosed. At that time we were holding seven claims. Now we are holding four, and we did intend to amend the locations to have a common corner in the vicinity of the workings where we know there is mineralization. I was to send Mr. D'Antonio a file of physical data, and he was going to confer with some people in the Land Management Office and would sound them out on whether the mineralization that has been shown at this point (they actually shipped a few carloads of ore) would be sufficient to get the o.k. of the department. As Mr. D'Antonio said, if it sounded too problematical as to whether there is enough mineral showing, then why go to the expense of trying to patent? If on the other hand the sizable bunch of work that has been done on the property at this particular point, and the fact that ore can be seen in place in the lower tunnel, should constitute the basis of being able to patent, thus we still have the patenting idea in mind; but we haven't gone into it any further to date and, thus, we have to spend some $400 in assessment work on our four claims. And, as we talked over the phone, we might do some magnetometer work.

The claims which we are maintaining get as far North as the north edge of Fortuna No. 9; and the big geological break on the north side of the mountain as shown on this (AS&R) map is a bit removed from the north edge of Fortuna 9. But if we are conducting geophysical work for the benefit of these four claims, aren't we justified in running North from the north edge of Fortuna 9 and 7 up into the Riqueza Claims and take a few magnetometer observations in the area of this break as bearing upon the Fortuna Claims? After all, the formation is supposed to run under the mountain itself.

If you could make an end run around the west end of the hill toward the mountain and get some shots along that break, and tie the whole thing into work bearing upon the formations of the group of claims on the South, we would kill two birds with one stone and might obtain some valuable information.

You will see the yellow lines drawn some years ago by Allen Rugg where he proposed running lines North across the geological break.

Anyway, will you spend $400 in whatever geophysical means you think best to adopt to the end that we will have $400 assessment requirement fulfilled against the four claims still maintained.

Very truly yours,

RMA:law
Endosure

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM

W. P. MARSHALL, PRESIDENT

SF-1201 (4-60)

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA337 MA344

M DLA376 PD DULUTH MINN 9 406P CDT 1961 AUG 9 PM 2 49

WALTER E HEINRICHS JR PO Box 5671

HEINRICHS GEO EXPLORATION CO 806-808 WEST GRANT RD TUCSON ARIZ

I EXPECT TO CALL YOU SATURDAY MORNING THE 12TH AT 11 OCLOCK OUR TIME 9 OCLOCK YOUR TIME. HOPE WILSON WILL HAVE BEEN INTERVIEWED

ROBERT M ADAMS

12 11 9.

AUG 1961 GEOEX

MA 2-4202 BP

By PC 255P Mail

ROBERT M. ADAMS

Duluth 2, Minnesota

Full Rate Telegram

1:25 PM

JULY 6, 1961

LAWRENCE D'ANTONIO
JOHNSON, DARROW, D'ANTONIO, HAYES & MORALES
608-12 VALLEY NATIONAL BUILDING
TUCSON, ARIZONA

WOULD APPRECIATE HEARING FROM YOU AT YOUR CONVENIENCE ON MY

LETTER JUNE 9.

ROBERT M. ADAMS

Recd: Gever July 17/61

ROBERT M. ADAMS COMPANY
Nevada
Fidelity Building
Duluth 2, Minnesota

Gila File
Fortuna " ✓

Recd June 12/61

June 9, 1961

See p 3.

Mr. Lawrence D'Antonio
Johnson, Darrow, D'Antonio, Hayes & Morales
608-12 Valley National Building
Tucson, Arizona

Dear Mr. D'Antonio:

Supplementing my letter of June 1 regarding Gila Copper, I enclose herein a copy of letter received from Mr. Howell of Duval Sulphur in answer to my letter of June 1 of which I sent you a copy. Also enclosed is a copy of my reply to Mr. Howell and copy of letter of this date to Mr. Jure of American Metal Climax, and to Mr. Heinrichs.

I left with Mr. Howell my complete current file of Gila Copper data when in Tucson in March and I pretty well depleted our records here, hence the letter to Mr. Jure of American Metal asking if I might have another copy of the plan of their geological reconnaissance of our property and the adjacent area hitherto made.

You will note I'm also asking Mr. Howell to have that particular map copied and returned.

Thus talking without the American Metal map before me and from remembrance thereof and commenting upon the map of our area including the Jim claims which I left with you, I would suggest the following:--

We had now best examine the records at Florence and find out if we can what the records show as to certain filings.

You will note from the area map left with you the location of the Jim claims which adjoin the Mitchell or Copper Butte area at about the common corner of Sections 24, 19, 25 and 30, Township 3 South, Range 12 and 13 East, Pinal County.

Going southwesterly from this point we cross the Jim claims, then cross the Gila claims which do not quite reach to Walnut Creek, then in due course continuing southwest is the Gila River and beyond that considerably further west is Florence.

Referring again to American Metal maps given me on a northeast-southwest cross section, they have indicated the following; starting from the northeast:

"Mitchell's claims"
"Reynolds claims"
"Adams claims"
"Open area of interest"
"Open"
"Reclamation withdrawal"
"Open"
"Calumet and Hecla claims"

Now note from Mr. Howell's letter he refers to the Pioneer Group. That is out to the southwest beyond the Gila River but long before you would reach Florence. He cites that Cerro (Cerro de Pasco) apparently has these "Pioneer claims". Next note that (presumably continuing easterly) Duval has located some claims. How far back towards our present area this would extend, we don't know.

I suggest that in referring to the records at Florence we try to identify the descriptive location of:

1) "Pioneer claims" of Cerro.

2) New filings by Duval.

3) Is there such an area as "Calumet & Hecla claims"?

4) Continuing northeast is the area, generally speaking, open until reaching "Adams claims"?

5) Let us try to identify certain filings which, according to Reynolds from 1959 examination of the records, were on top of his Jim filings, supposedly located in the name of "The Three Friends".

Reynolds gave me the following information from his notes:--

"It was October 59 that he went to Florence and looked up this record. It was October 19. Now the book was #225, the pages 580-585. Reynolds thinks these 4 or 6 locations by "The Three Friends" were in two rows of three claims or three rows of two claims, running southerly from Mitchell's Copper Butte claims."

A pretty vague description and we don't know just where these locations may be.

I also quote from my notes of conversation with Walt Heinrichs in March as follows:--

"One of Mr. Heinrich's men was commenting on meeting some prospectors whom we thought might be "The Three Friends"--"Frank said that they looked more like hermits to him. That they had a shack up in Barcelona Wash and where they had been working he didn't know but they were there and they do have a certain amount of nuisance value and it's obvious if anything went ahead in the area they would have to be dealt with if they had any legal claim or not. I don't suppose they have because they doubtless do not have any discovery. In any event, they apparently aren't doing any visible work."

"As to Mitchell, he apparently isn't doing any work either--no operations."

As you can see, I've been waiting to hear from Duval and finally decided to jog them (June 1) and have now received a prompt reply (June 6) and it thus appears that we had better get moving if we are thinking of adding any more territory to what we already have.

I talked with Walt Heinrichs and also Eldred Wilson in March about locating additional ground principally to the west of the present Gila claims. I'm going to write Heinrichs now on this subject. And while we're corresponding thereon, I think it would be desirable if you would have the records at Florence examined for information as to what various people may have located to the southwest and what may be open in between, also as to "The Three Friends".

One additional thought occurs to me which we can take our time about and that is how the Government boys would look upon the possible patenting of some of the Jim claims, particularly as on one of these claims the Purcell drill hole cost a lot of money and was sunk over a half mile deep. This is something like the question we discussed as to Fortuna ground where I am going to send you the physical data so that you can get the feeling as to how they would view proceeding to patent that small area.

Very truly yours,

/s/ Robert M. Adams

RMA:go

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

RECEIVED DEC 2 1960

December 1, 1960

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

F

Dear Mr. Adams: Re: FORTUNA

Enclosed is the affidavit executed by Walter E. Heinrichs, Jr. on October 8, 1960 covering work done on the Fortuna unpatented mining claims. The affidavit was recorded in the office of the Pima County Recorder on October 18, 1960 in Book 1685, pages 306-311.

Very truly yours,

Victor H. Verity

Enclosure

cc-W.E.H.,Jr. (with copy of affidavit)

COPY

RECEIVED OCT 7 1960

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

October 6, 1960

Mr.Walter E. Heinrichs, Jr.
Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Dear Walt:

Will you please sign the enclosed "Affidavit of Performance of Annual Labor" for the Fortuna group and return to me along with three prints of a map showing the geochemical assays. I'll send the affidavit to the county recorder and after it is recorded I'll furnish you with a conformed copy.

Very truly yours,

Victor H. Verity

Enclosure

ROBERT M. ADAMS COMPANY
MINING
Duluth 12, Minnesota
FIDELITY BUILDING

RECEIVED AUG 25 1960

August 22, 1960

Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Gentlemen:

Referring to our conversation on the phone today, enclosed is check for $750.00 as advance payment upon assessment work discussed. I will comment first on the Fortuna and then on the Gila.

FORTUNA

I assume you have a copy of the map entitled "Franco-Riquezza Group", made by Dodge and Williams in 1952 (AS&R geology). I assume you also have the outline of the seven claims on which we have reported assessment work in recent years, being:

Fortuna No. 2
Suerte
Fortuna No. 7
Fortuna No. 9
Fortuna No. 6
Fortuna
Esperanza

We would like to do $400.00 in total of geophysical work on four claims to be so amended as to have a common corner on the mineral showings in the workings in this area. This pattern of four cornering claims should be laid out to best advantage so that there will be a block of ground 3000 feet long, 600 feet wide and in the center the mineral showings in the area of the common corner.

GILA COPPER

Mr. Verity advises that we can declare as assessment work $1300.00 for thirteen Gila Claims, and it doesn't have to be $1300.00 plus overhead charges equalling $1500.00 or $1600.00. In other words, if you bill us for $1300.00 and so arrange it that that covers it, that is what we want.

Mr. Verity also advises that we could follow geophysics from the Gila ground into adjoining territory and still count it work attributable to the Gila group. This would give us an opportunity to follow that anomaly a bit south and also to go a bit northwest towards Walnut Canyon.

I personally feel from the conversations in Tucson last spring that our direction of further interest should probably be to the northwest.

ROBERT M. ADAMS COMPANY

Duluth, Minnesota

[illegible] 22, 19[illegible]

[illegible]

[illegible]

[illegible] enclosed is check [illegible] discussed. I will [illegible]

[illegible]

I [illegible] Group" [illegible] have [illegible]

[illegible]

Mr. [illegible] WORK $1300.00 [illegible] it doesn't have to be $1300.00 plus overhead charges [illegible] $1500.00 or $1[illegible]0.00. In other words, if [illegible] $1300.00 and so arrange it that that cover[illegible] what we want.

Mr. [illegible] follow [illegible] from the Gila [illegible] work attributable to [illegible] be an opportunity to follow [illegible] northwest towards [illegible]

I [illegible] last spring that [illegible] probably [illegible] to the northwe[illegible]

In connection with this work at Gila, will you please check on whether Fred Mitchell is operating at the Copper Butte?

Will you also please check on the location of four or five claims (south of Copper Butte) of which Mr. Barney Reynolds told me in Tucson? He had a rough idea of the location of four claims in a pattern of two each end to end, running southerly from Copper Butte ground over some of the Jim ground. He thought this meant that Fred Mitchell was locating additional ground. On the other hand, I believe last year you ran into some gold prospectors while doing work on the Gila and gathered that they had located these claims. The question is, where are the claims located?--thus eliminating perhaps some southeast portion of Jim territory.

Very truly yours,

RMAslew
Enclosure
cc: Mr. Victor H. Verity

ROBERT M. ADAMS
FIDELITY BUILDING
Duluth 2, Minnesota

August 18, 1959

RECEIVED AUG 21 1959

Mr. Walter E. Heinrichs, Jr.
Heinrichs Geoexploration Company
806-808 West Grant Road
Tucson, Arizona

Dear Mr. Heinrichs:

RE: FORTUNA RIQUEZA GROUP

Enclosed is a map of September 1953 by Seton Williams. It is not colored but I think it has a considerable amount of information on it. It shows the entire block at its maximum number of claims. Since then we've reduced gradually to 7 claims--Esperanza, Fortuna, Suerte, Fortuna #6, #9, #7 and #2.

The old workings were on Buena Vista, now Fortuna #9.

This map shows certain geophysical work which United Geophysical did for us some years ago on the western end of the property. Allen Rugg has geophysical ideas for the north side of Ragged Mountain which I will not go into at this time because we're just talking about the 7 claims on the southwest side of the mountain.

Last year our assessment work was done in the form of improving roads and building a road farther up the Talus slope northeasterly from the underground workings as a location for future drilling.

As Vic can explain, in the underground workings we have two walls which may be permanent or they just may be dikes to the west and the south. We know of nothing to cut off the mineralization shown in the underground workings extending to the north and east. Our thought was to drill a hole farther uphill northeast.

While $700 will not accomplish a great deal in a drill hole it was Rugg's suggestion that we start the hole, spend $700, leaving it capped and then next year go on with it--all with a view to doing work which would help comply with patent requirements. We have so much money in this property that

it is foolish not to consider ultimately patenting the heart of the property on the south side of the mountain.

For the future I am much more interested in the break shown on the north side of the mountain than I am on the south side. As stated Allen Rugg had ideas of further geophysical in that area and only ultimate further drilling would tell the story. That is not what we're talking about now.

Very truly yours,

Robert M. Adams

RMA:go
Enc.
cc: V.Verity

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAST 5-9448

RECEIVED AUG 26 1959

August 24, 1959

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

I arranged with Jimmie Rugg, Al's son, to get the Fortuna and Gila maps out of his father's office. They were picked up by William Marlatt, a geologist with Heinrichs Geoexploration Company. Walt Heinrichs had designated Bill as the one to go over the matter with me and take Metler Brothers to the drill site to do the annual assessment work.

We went over the maps and then Bill Marlatt and one of the Metler brothers went to the property. The road that was made last year with a view to serving as a means of access to a drill site is only partly usable. Part of it goes up on such a steep grade that even a jeep had difficulty and Bill said it would be impossible for the truck with the mounted drill and the water truck to get to the site. However, the road does make it possible to go approximately 200 feet N. 70° E. from drill hole No. 1 on the Fortuna No. 9. This is still on the Fortuna No. 9 but there seems to be no other accessible place. Bill and Metler went over the claims trying to find some way that the drill rig could be taken to a claim where drilling had not previously been done, but they say it's impossible.

I talked with Walt the morning of the 20th about the problem and we decided that rather than phone you, it would be better to go ahead and drill, even though it will be another hole on the Fortuna No. 9. Time is running out. Walt was fortunate to find someone who could do the job on such short notice. We feel that if delayed, we might not be able to get it done.

If you will refer to the maps and to the sketch of the underground workings that was made by Dodge and Brown several years ago, you will see that the location of the new hole will be far enough away from the two slips which seem to bound the ore body on the south and west so that the hole might give some worth while information.

Walt plans to have Metler Brothers case as much of the

COPY

hole as may be necessary so that in another year it can be deepened.

You will recall that after Seton Williams' death the core from the Fortuna holes was stored at Lee Vought's place on the Freeway. I talked with Walt Heinrichs about that and he is going to see what he can do to get the core and store it at his office.

Very truly yours,

Victor H. Verity

cc-Mr. Walter E. Heinrichs, Jr.

ROBERT M. ADAMS
12th Floor
FIDELITY BUILDING
Duluth 2, Minnesota

August 14, 1959

PAID AUG 10 1959

Mr. Walter E. Heinrichs, Jr.
Heinrichs Geoexploration Company
806 West Grant Road
Tucson, Arizona

Dear Mr. Heinrichs:

As you know I have some little mineral property interests in Arizona. There hasn't been much necessity of doing anything in the field as to the same lately. In fact the last time I was in Arizona was in January, 1957. I expect to spend a couple of weeks in Tucson next March, but do not expect to be there beforehand. Hence this letter.

For some years Allen Rugg handled anything that came up regarding inspections, assessment work, etc., and he has recently advised me that he is away from Arizona at present and will be for some time and has suggested that I may want to make other arrangements.

The nature of what he has done for us has been occasionally showing someone certain premises, arranging for assessment work to be done and later inspecting it, occasional correspondence and occasional contact with local people, etc.

Would such assistance be available in your organization?

Very truly yours,

Robert Adams

RMA:go

VICTOR H. VERITY
ATTORNEY AT LAW
2207 EAST WAVERLY STREET
TUCSON, ARIZONA
EAst 5-9448

RECEIVED AUG 13 1959

August 11, 1959

Mr. Robert M. Adams
12th Floor Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams: Re: Fortuna

In your letter of August 14 under the heading of "General" you commented about Al Rugg and the possibility of making other arrangements and wondered if it would be a good idea for you to contact Walt Heinrichs to take care of engineering or field matters. Walt was in my office this morning on other business and I took advantage of the opportunity to discuss the matter with him. He expressed an interest in doing work for you.

With reference to assessment work on the Fortuna, Walt tells me that Lee Vought is working as an instrument man for some party and to the best of Walt's knowledge is not presently engaged in diamond drilling. Lee became acquainted with a man named Cloeter and formed a corporation which operated for a time but finally broke up. Walt understands that Cloeter is doing some drilling but I do not know the man and from what I have read in the paper about lawsuits in which he is involved, I would not suggest that you hire him for drilling.

Walt has used the services of Metler Bros. on a considerable number of jobs. They are presently doing drilling under his direction and he expects to see one of the Metlers this evening and will inquire if they could do a drill job at the Fortuna by September 1.

I suggest you phone Walt Heinrichs upon receipt of this letter and find out what he has learned about the possibility of having some drilling done and make any necessary arrangements. Time is running out and it may be somewhat difficult to get arrangements made and the job started by September 1.

If you work out something with Walt, I suggest you authorize me to show him the data which I have here in the office so that he can make certain that the drill hole is properly spotted on a claim adjacent to the Buena Vista so there will be a chance of making a discovery on a claim where none has been made up to the present date. This would work in with the plan

COPY

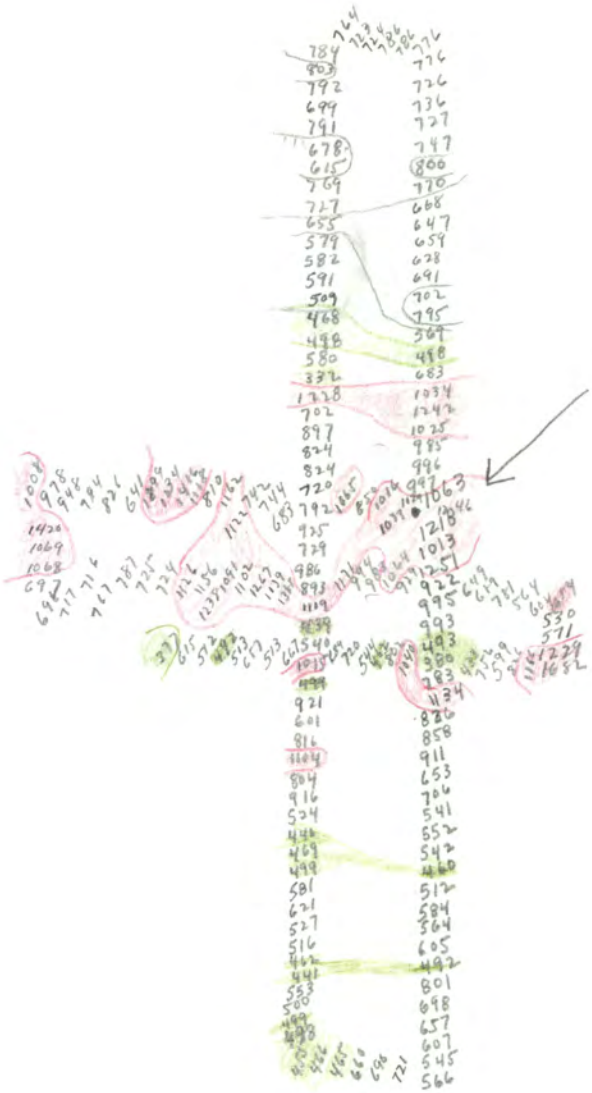
of proving the mineral character of the land for possible future patenting.

I note your suggestion to let the north side of the mountain rest for the time being and confine assessment work to the group on the south side.

Very truly yours,

Victor H. Verity

cc-Mr. Walter E. Heinrichs, Jr.



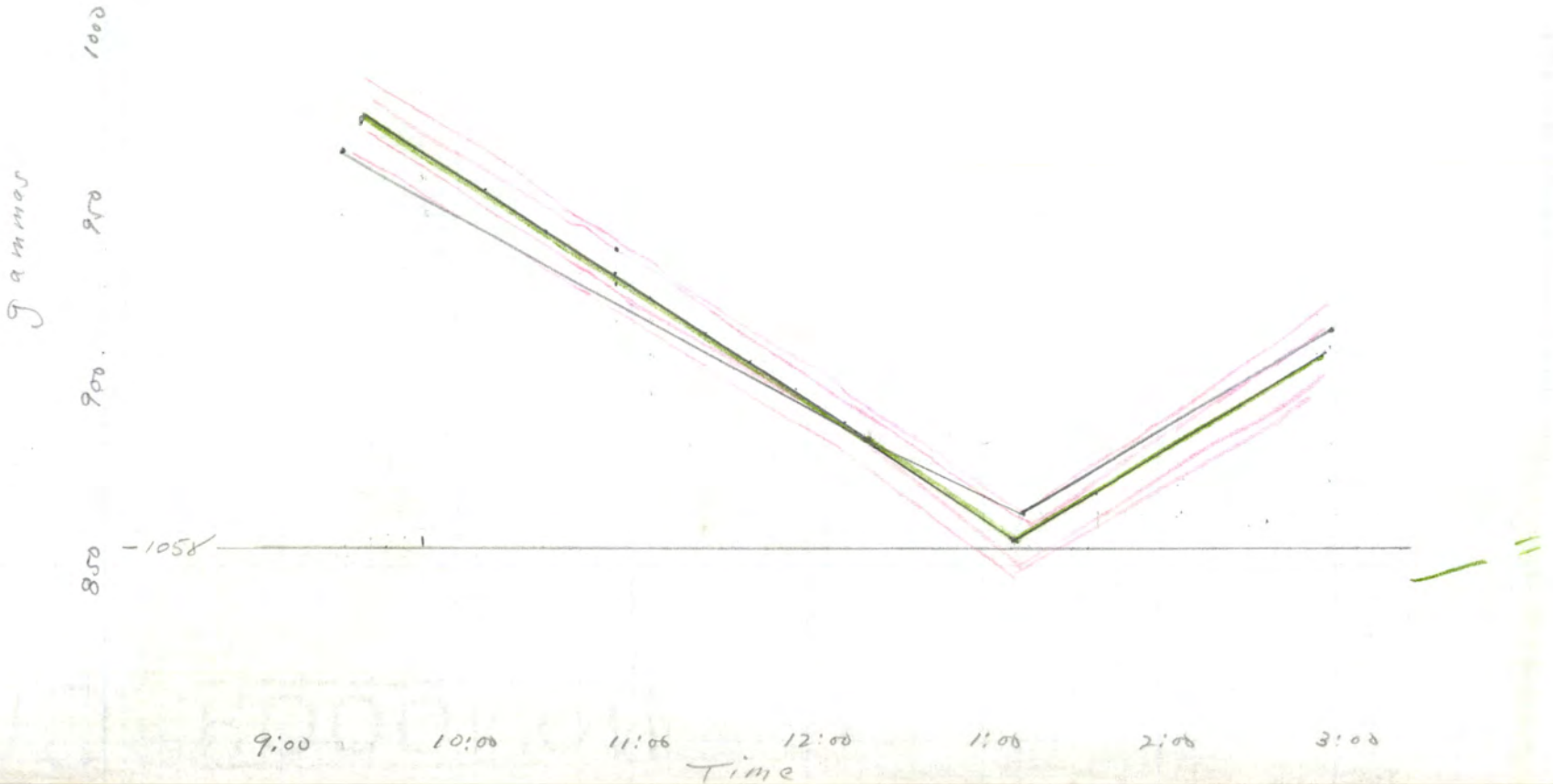
North

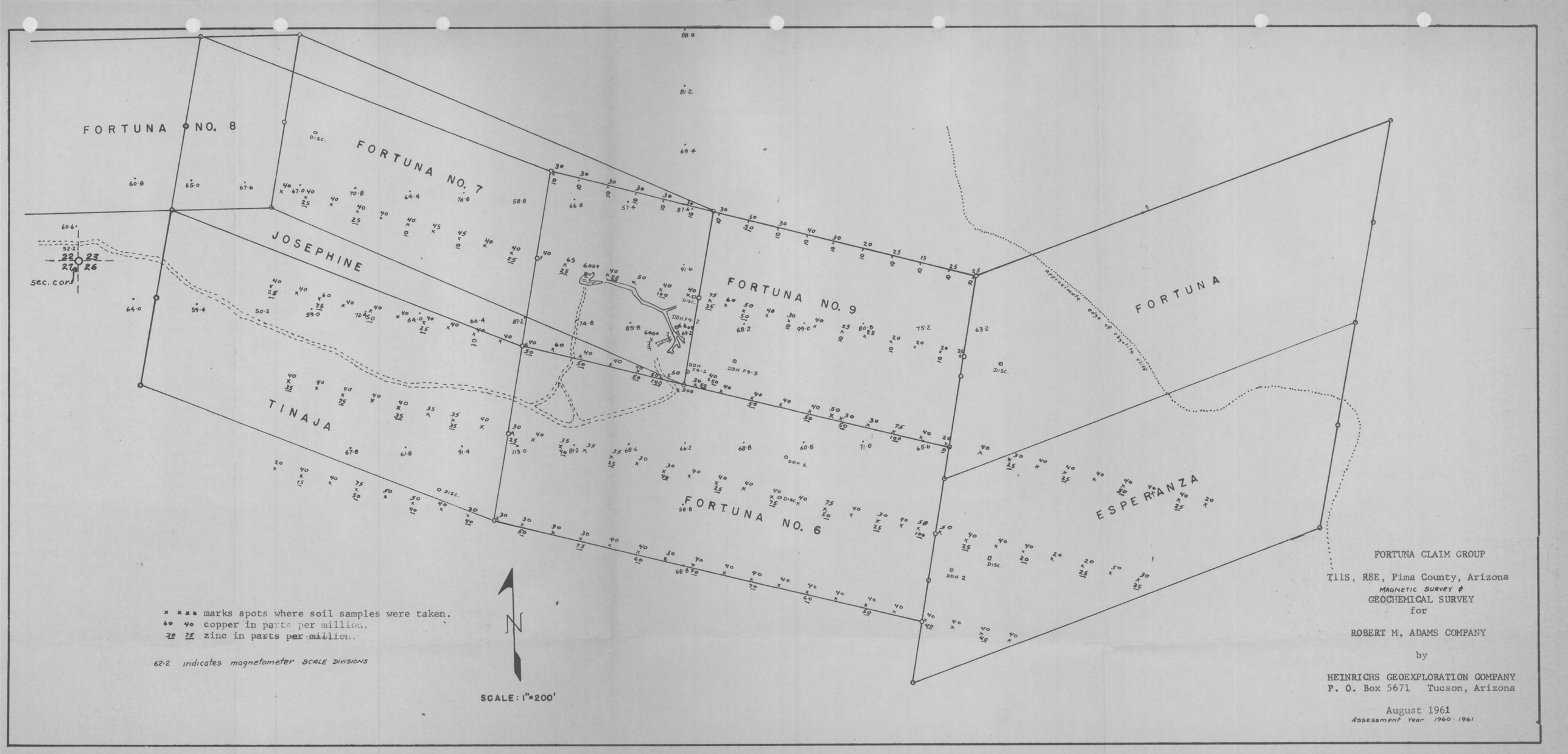
12-17-61

1" = 500'

Diurnal and/or Drift Curve
Base station S.W. COR. Fortuna #7
Jalander # 5792

Adams-Fortuna
12-12-61





× × × marks spots where soil samples were taken.
60 40 copper in parts per million.
30 75 zinc in parts per million.

62·2 indicates magnetometer SCALE DIVISIONS

FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

MAGNETIC SURVEY &
GEOCHEMICAL SURVEY
for

ROBERT M. ADAMS COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1961
Assessment Year 1960-1961

INDUC D POLARIZATION - RECEIVER NOTES PAGE

Center NW cor Fortuna #4

Project: Adams Fortuna Line: #1 S65°E-N65W Int.Cal 55.0 53.5 Date: 4/Jan/82

Send	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4
Rec.	.75-1.5	→	1.5-2.25	→	→	2.25-3.0	→	→	→	3.0-3.75	→	→
Time	1538	1543	1556	1601	1606	1627	1630	1634	1638	1655	1658	1703
DC-1	25.0 25.0	7.0 6.65	31.5 31.4	10.0 9.9	4.3 4.19	42.0 42.0	15.6 15.8	7.1 7.3	3.8 3.58	13.1 13.0	7.0 7.05	3.80 3.60
DC-2	25.5 25.4	7.6 7.85	31.7 31.9	10.7 11.0	4.3 4.4	41.5 41.5	15.2 15.1	7.25 7.0	3.6 3.8	12.5 12.5	7.2 7.15	3.95 4.10
Σ	50.5 50.4	14.6 14.5	63.2 63.3	20.7 20.9	8.60 8.58	83.5 83.5	30.8 30.9	14.35 14.30	7.40 7.38	25.6 25.5	14.2 14.2	7.75 7.70
DC-3	24.9 24.9	6.4 7.1	31.2 31.1	9.6 9.4	4.3 4.5	42.0 41.0	16.0 16.2	7.02 7.22	3.8 3.8	13.1 12.9	7.15 7.05	3.50 3.35
Dc-4	25.6 25.6	8.0 7.3	31.8 31.9	11.2 11.3	4.28 4.10	41.2 41.9	14.9 14.8	7.22 7.04	3.6 3.6	12.5 12.6	7.05 7.20	4.20 4.35
Σ	50.5 50.5	14.4 14.4	63.0 63.0	20.8 20.7	8.58 8.60	83.2 82.9	30.9 31.0	14.24 14.26	7.40 7.40	25.6 25.5	14.20 14.25	7.70 7.70
DC-AV	50.5	14.5	63.1	20.8	8.59	83.3	30.9	14.29	7.40	25.55	14.21	7.71
AC-1	23.2	6.95	30.8	9.9	4.15	39.8	14.5	6.78	3.55	12.0	6.68	3.65
AC-2	23.2	6.95	30.8	9.9	4.15	39.8	14.5	6.78	3.55	12.0	6.63	3.65
Σ	46.4	13.9	61.6	19.8	8.30	79.6	29.0	13.56	7.10	24.0	13.26	7.30
S. P. ∂	0.95 -.156 +12.5	+4.4 -13.0	9.3 →	+4.9 +5.0	+5.0	-22.7	-25.7	-24.2		+19.7		
AC-N	-	.12	.09		.15				0.15			
	+12.5 much	-13.0 .14			+9.3				-22.7			

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: Adams Fortuna Line: # 1 E Int.Cal _____ Date: 9/10/11

Send	4-5	1-2	2-3	3-4	4-5							
Rec.	3.0-3.75	3.75-4.5	→		→							
Time	1707	1725	1728	1731	1735		3:27	1530				
DC-1	2.15 1.90	4.4 4.4	3.25 2.15	2.15 1.90	.95 .94		.40.0	84.8				
DC-2	2.20 2.45	4.45 4.45	2.60 2.80	1.32 1.65	1.48 1.40		40.0	84.8				
Σ	4.35 4.35	8.85 8.85	5.85 5.95	3.47 3.55	2.43 2.34		80.0	169.6				
DC-3	2.25 2.48	4.4 4.45	3.10 2.85	1.82 1.95	1.55 1.93		40.0	84.5				
Dc-4	2.07 1.90	4.45 4.4	2.85 3.15	1.88 1.62	.59 1.32		40.0	84.5				
Σ	4.22 4.38	8.85 8.85	5.95 6.00	3.70 3.57	2.14 2.25		80.0	169.0				
DC-AV	4.35	8.85	5.94	3.57	2.29		80.0	169.3				
AC-1	2.07	4.25	2.85	1.76	1.09		40.0	83.5				
AC-2	2.07	4.25	2.85	1.76	1.09		40.0	83.5				
Σ	4.14	8.50	5.70	3.52	2.18		80.0	167.0				
S. P. →	+16.5	+1.0	-1.8	+2.4	-3.3							
AC-N	.07				.10							
	+19.7				+1.0							

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Adams - Fortuna Line 1 E Field date 1/4/62 Data page_____ Comp. date 1/5/62. Comp by C.S.L.

(A) Send	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4
(B) Receive	.75-1.50	E →	1.50-2.25	E →	→	1.25-2.00	E →	→	→	2.00-2.75	E →	
(C) n separation	1	2	1	2	3	1	2	3	4	2	3	4
(D) I	1560	1560	1575	1560	1550	1560	1560	1550	1540	1560	1550	1540
(E) Vdc (avg)	50.5	14.5	63.1	20.8	8.59	83.3	30.9	14.29	7.40	25.55	14.21	7.71
(F) DCcal USED	.925											
(G) Kn x 10^{-3} $a = 750'$	2.25	9.00	2.25	9.00	22.5	2.25	9.00	22.5	45.0	9.00	22.5	45.0
(H) ρ dc=ExFxGx10^3/D	67.3	77.4	83.4	111.0	115.0	111.0	164.8	191.9	200.0	136.0	191.0	208.3
(I) Vac Σ	46.4	13.9	61.6	19.8	8.30	79.6	29.0	13.56	7.10	24.0	13.26	7.30
(J) AC noise x 2	.24	.24	.30	.30	.30	.30	.30	.30	.30	.14	.14	.14
(K) Vac(corr) = $\sqrt{I^2 - J^2}$	46.4	13.9	61.6	19.8	8.30	79.6	29.0	13.56	7.10	24.0	13.26	7.30
(L) AC-DC cal. USED	1.000											
(M) ρ dc/ρac=ExL/K	1.088	1.042	1.024	1.050	1.034	1.045	1.065	1.054	1.042	1.062	1.073	1.055
(N) PFE=(M-1)(10^2)	9	4	2	5	3	5	7	5	4	6	7	6
(O) MCF=(M-1)(10^5)/H	131	54	29	45	30	41	39	28	21	46	38	26

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	1-2	2-3	3-4	4-5		CAL	→				
(B) Receive	→	3.75-4.50	E →	→	→		2-3	→				
(C) n separation	5	3	4	5	6							
(D) I	1530	1550	1550	1540	1525		740	1560				
(E) Vdc (avg)	4.35	8.85	5.94	3.57	2.29		80.0	169.3				
(F) DCcal	→	→	→	→	→		.925	.922				
(G) Kn x 10^{-3}	28.75	22.5	45.0	28.75	126							
(H) ρ dc=ExFxGx10^3/D	207.1	119.0	159.7	168.9	175.0							
(I) Vac Σ	4.14	8.50	5.70	3.52	2.18		80.0	167.0				
(J) AC noise x 2	.14	.20	.20	.20	.20							
(K) Vac (corr) = $\sqrt{I^2 - J^2}$	4.14	8.50	5.70	3.52	2.18							
(L) AC-DC cal.	→	→	→	→	→		1.000	.986				
(M) ρdc/ρac =ExL/K	1.050	1.040	1.042	1.013	1.050							
(N) PFE=(M-1)(10^2)	5	4	4	1	5							
(O) MCF=(M-1)(10^5)/H	24	34	26	8	29							

Bearing S65E
Nº3 Elect. NW

INDUCED POLARIZATION SENDER NOTES

Project: FORTUNA 4 FORTUNA Line: #1 E Date: 1/4/62

Send	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4
Receive	.75E	→	1.5E	→	→	2.25E	→	→	→	3.0	→	→
Time	15:38	15:43	15:56	16:01	16:06	16:27	16:30	16:34	16:38	16:55	1658	17:03
Range	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Current	1560	1560	1575	1560	1550	1560	1560	1550	1540	1560	1550	1540
Send	4-5	1-2	2-3	3-4	4-5		CAL	→	→	→	→	→
Receive	→	3.75E	→	→	4.50E		2-3	2-3				
Time	17:07	17:25	17:28	17:31	17:34		15:27	15:30				
Range	1.5	1.5	1.5	1.5	1.5		.75	1.5				
Current	1530	1550	1550	1540	1525		740	1560				

Shunt @ 1.0 Stake rest. 250Ω Ave.

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: Adams Fortune Line: 1W Int.Cal 54.0-52.5 Date: 5/Jun/6

	.05	.15	.05	.05	.15 →							
Send	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
Rec.	.75-1.5W →		1.5-2.25W →			2.75-3.0W			→	3.0-3.25W		→
Time	1027	1030	1047	1050	1054	1105	1109	1112	1116	1129	1132	1136
DC-1	26.5 26.3	7.4 7.5	38.0 38.0	10.8 10.5	4.70 4.78	54.5 54.8	12.2 11.8	5.99 6.50	2.99 3.02	10.7 11.0	4.4 4.63	3.04 2.92
DC-2	25.9 26.0	6.95 6.80	37.9 37.9	12.1 12.4	4.52 4.50	54.8 54.2	12.1 12.4	6.10 5.40	3.10 2.80	11.0 10.7	5.1 4.80	3.20 3.35
Σ	52.4 52.3	14.35 14.30	75.9 75.9	22.9 22.9	9.22 9.28	109.3 109.0	24.3 24.4	12.09 11.90	6.09 5.82	21.7 21.7	9.50 9.43	6.24 6.27
DC-3	26.2 26.1	7.3 7.4	37.9 37.9	10.2 10.0	4.35 4.25	54.8 54.7	12.9 11.4	6.02 6.15	3.40 2.80	10.7 11.0	4.85 5.00	3.00 2.90
Dc-4	26.1 26.2	7.0 6.95	37.8 37.8	12.6 12.8	4.90 5.00	54.1 54.0	11.3 13.0	6.00 5.75	2.50 3.20	11.0 10.7	4.46 4.32	3.22 3.35
Σ	52.3 52.3	14.30 14.25	75.7 75.7	22.8 22.8	9.25 9.25	108.9 108.7	24.4 24.4	12.02 11.90	6.0 5.90	21.7 21.7	9.31 9.32	6.22 6.25
DC-AV	52.3	14.33	75.8	22.85	9.25	109.0	24.4	11.98	5.95	21.7	9.39	6.25
AC-1	24.0	6.80	36.8	10.8	4.45	53.9	11.7	5.75	2.90	10.3	4.57	3.01
AC-2	24.0	6.80	36.8	10.8	4.45	53.9	11.7	5.75	2.90	10.3	4.57	3.01
Σ	48.0	13.60	73.6	21.6	8.90	107.8	23.4	11.50	5.80	20.6	9.14	6.02
S. P.	0.0-3.5W +12.8	-12.2	+8.4 →	+7.3 →	-13.2	-1.2	→	-7.9		-42.1	-46.0	-47.7
AC-N		.10			.10				.10			
S.P.	+12.8	-12.2			-8.4				-1.2			

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: 1W Int.Cal _____ Date: _____

Send	1-2	4-5	3-4	2-3	1-2		2-4	3-4	3-4	3-4		
Rec.	30-3.75	3.75-4.5	5 w →				—	—				
Time	1140	1156	1159	1203	1209		1016	1019	1231	1233		
DC-1	1.85 2.00	4.00 3.98	2.34 2.15	1.70 1.68	1.01 1.19		39.5	84.0	84.0	38.1		
DC-2	1.47 1.30	3.99 4.00	2.50 2.70	1.76 1.84	1.09 0.80		39.5	84.0	84.0	38.1		
Σ	3.32 3.30	7.98 7.98	4.84 4.85	3.46 3.52	2.10 1.99		79.0	168.0	168.0	76.2		
DC-3	1.72 1.85	4.00 3.98	2.58 2.59	1.55 1.65	1.02 1.10		39.5	84.0	84.0	38.1		
Dc-4	1.59 1.47	3.99 3.99	2.28 2.17	1.98 1.83	1.06 0.90		39.5	84.0	84.0	38.1		
Σ	3.31 3.32	7.98 7.97	4.78 4.76	3.53 3.48	2.08 2.08		79.0	168.0	168.0	76.2		
DC-AV	3.31	7.98	4.81	3.50	2.04		79.0	168.0	168.0	76.2		
AC-1	1.60	3.77	2.25	1.64	0.98		40.0	83.8	83.8	38.7		
AC-2	1.60	3.77	2.25	1.64	0.98		40.0	83.8	83.8	38.6		
Σ	3.20	7.54	4.50	3.28	1.96		80.0	167.6	167.6	77.3		
S. P.	-48.3	+137	+8.0 +	10.0								
AC-N	.15											
S.P.	-42.1				+13.7							

#3 Electrode @ NW CORNER Fortuna N2 4

INDUCED POLARIZATION SENDER NOTES

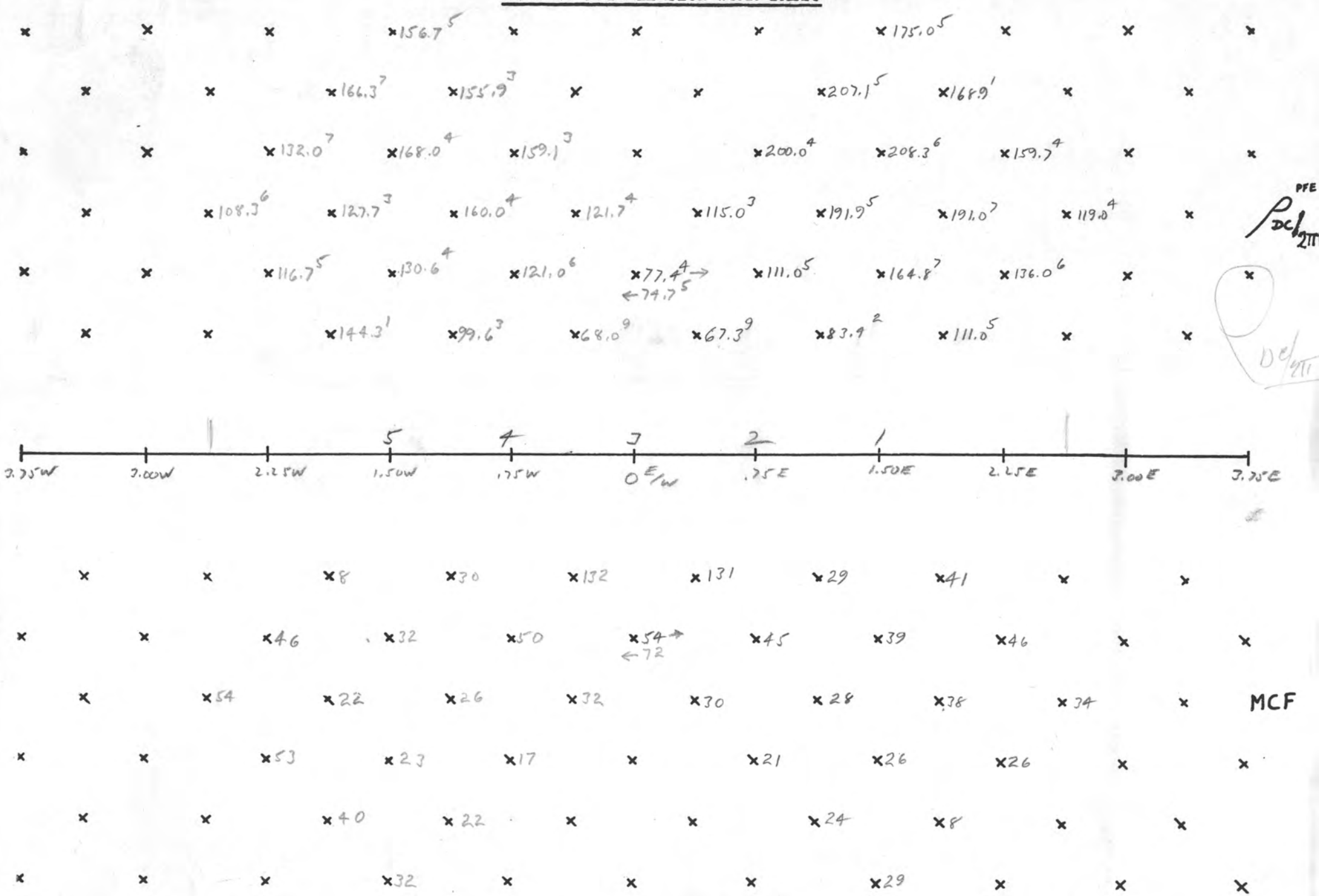
Project: FORTUNA Line: #1 W Date: 1/5/62

Send	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
Receive	.75W	→	1.5W	→	→	2.25W	→	→	→	3.0W	→	→
Time	10:27	10:30	10:47	10:50	10:54	11:05	11:09	11:12	11:16	11:29	11:32	11:36
Range	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Current	1590	1590	1575	1575	1575	1560	1550	1550	1550	1540	1525	1540
Send	1-2	4-5	3-4	2-3	1-2		CAL.	→	→	→		
Receive	→	3.75W	→	→	→		3-4	3-4	3-4	3-4		
Time	11:40	11:56	11:59	12:03	12:09		10:16	10:19	12:33	12:31		
Range	1.5	1.5	1.5	1.5	1.5		.75	1.5	.75	1.5		
Current	1540	1525	1510	1525	1510		725	1575	700	1510		

Shunt Cap. 1.0
Gen. output 116 V. 400 C.P.S.

All except .75W @ .15 Freq. D.C.
.75W @ .05 " "

INDUCED POLARIZATION WORK SHEET



Area Adams - Fortuna Line 1 E&W Scale 1" = 750' Date 1/5/62

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

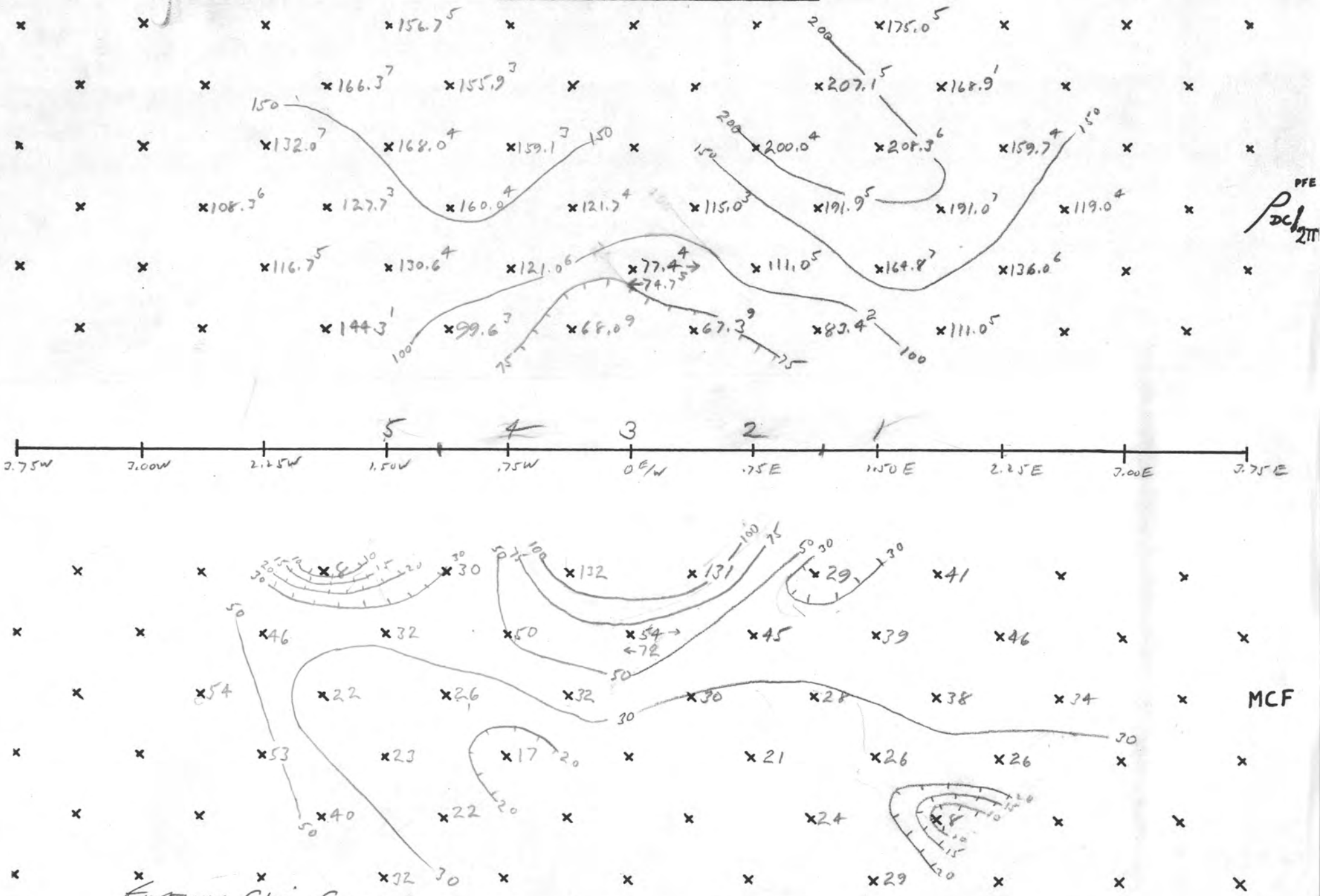
Project *Adams-Fortuna* Line *1 W* Field date *11/5/62* Data page_____ Comp. date *11/5/62* Comp by *C.S.L.*

(A) Send	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
(B) Receive	.75-1.50 W →		1.50-2.25 W	→		2.25-3.00 W	→			3.00-3.75 W	→	
(C) n separation	1	2	1	2	3	1	2	3	4	2	3	4
(D) I	1590	1590	1575	1575	1575	1560	1550	1550	1550	1540	1525	1540
(E) Vdc (avg)	52.3	14.33	75.8	22.85	9.25	109.0	24.4	11.98	5.95	21.7	9.39	6.25
(F) DCcal USED	.920											
(G) Kn x 10^{-3}	2.25	9.00	2.25	9.00	22.5	2.25	9.00	22.5	45.0	9.00	22.5	45.0
(H) ρ dc=ExFxGx10^3/D	68.0	74.7	99.6	121.0	121.7	144.3	130.6	160.0	159.1	116.7	127.7	168.0
(I) Vac Σ	48.0	13.60	73.6	21.6	8.90	107.8	23.4	11.50	5.80	20.6	9.14	6.02
(J) AC noise x 2	.24	.24	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
(K) Vac(corr) = $\sqrt{I^2 - J^2}$	48.0	13.60	73.6	21.6	8.90	107.8	23.4	11.50	5.80	20.6	9.14	6.02
(L) AC-DC cal. USED	1.000											
(M) ρ dc/ρac=ExL/K	1.090	1.054	1.030	1.060	1.039	1.011	1.042	1.041	1.027	1.053	1.028	1.039
(N) PFE=(M-1)(10^2)	9	5	3	6	4	1	4	4	3	5	3	4
(O) MCF=(M-1)(10^5)/H	132	72	30	50	32	8	32	26	17	46	22	23

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	1-2	4-5	3-4	2-3	1-2		CAL	→		→		
(B) Receive	→	3.75-4.50 W	→		→		3-4	→		→		
(C) n separation	5	3	4	5	6							
(D) I	1540	1525	1510	1525	1510		725	1575	1510	700		
(E) Vdc (avg)	3.31	7.98	4.81	3.50	2.04		79.0	168.0	168.0	76.2		
(F) DCcal	→				→		.918	.939	.900	.919		
(G) Kn x 10^{-3}	28.75	22.5	45.0	28.75	126				~ .920			
(H) ρ dc=ExFxGx10^3/D	155.9	108.3	132.0	166.3	156.7							
(I) Vac Σ	3.20	7.54	4.50	3.28	1.96		80.0	167.6	167.6	77.3		
(J) AC noise x 2	.30	.30	.30	.30	.30							
(K) Vac (corr) = $\sqrt{I^2 - J^2}$	3.20	7.54	4.50	3.28	1.94							
(L) AC-DC cal.	→				→		1.011	.998	.998	1.012		
(M) ρdc/ρac =ExL/K	1.034	1.058	1.070	1.067	1.050							
(N) PFE=(M-1)(10^2)	3	6	7	7	5			~	1.000			
(O) MCF=(M-1)(10^5)/H	22	54	53	40	32							

INDUCED POLARIZATION WORK SHEET



Area Adams - ~~Fortuna~~ - Line 1E&W Scale 1" = 750' Date 1/5/62

FORTUNA Claim Group

Robert M. Adams Co.

December 29, 1961

Mr. Robert M. Adams
Fidelity Building
Duluth 2, Minnesota

Re: Fortuna Claims & Vicinity

Dear Mr. Adams:

Following discussinns with you in our office in December 1961, and visits to the area, both on the ground and flying over and around it, we hereby set forth our evaluation and recommendations to this date:

1. Except for the immediate vicinity of the Buena Vista Mine there is little show of any base metal mineralization such as copper, lead or zinc.

2. Drill holes to date have shown scattered pyritization and small blobs of Cu, Pb, & Zn but assays have been very low.

3. Assays of surface rock from location pits have shown only traces or extremely low assays.

4. The iron staining common in the area appears to be alteration both from seams or veinlets of pyrite and from mafic minerals of the country rock.

5. We have not yet seen a good gossan zone, or cap rock type of situation from which there would appear to have been leaching of sulfides with possible enrichment below.

6. The red zones north of Ragged Mountain are a contact zone of some kind, probably a fault, but show little present or past mineralization of Cu, Pb, or Zn. Neither is the color quite right for a sulfide leached zone. The rocks there are generally granite with the alteration in color due to the structural disturbances and intrusions of diorite or diabase

7. General rock type to the north is a granite, or monzonite, apparently very old. Under Ragged Mt. and to the south is diorite porphory, probably a later intrusion through the granite. The top of Ragged Mt. is rhyolite and latite. There are old sediments to the north and northeast of Ragged Mt. Recent volcanics lie west and to the far north.

8. Rock types and structural intersections are favorable for good ore body emplacement, but if there were no strongly mineralized solutions there can be no good ore bodies.

9. The proximity to Silver Bell and the B.S.&K. Atlas Mine is encouraging. Lack of more mineral show at the surface near Ragged Mt. is not encouraging. However, the possibility for good mineralization at some economic depth is quite possible.

10. Some reconnaissance geophysics utilizing the combination of induced polarization, self potential and magnetic methods is definitely warranted. The best trial area would be from the Buena Vista Mine northwest to the windmill. This would cover the most obvious features of the best mineral show, the most highly altered and bleached area, a crossing of the major east-west fault zone, and also test the magnetic low and self potential low of some significance found by Al Rugg on one reconnaissance profile. We have done some check magnetometer work over and around the magnetic high located by last years assessment work and decided it is due to a greater concentration of magnetite in the country rock there and carries no economic significance in itself. Probably magnetic lows in this region would be more significant, due to alteration and leaching, or iron content being locked up in pyrite and/or other sulfides.

11. The above suggested geophysical profile would involve two field days and some office computations for an estimated total cost of about $700.00. This expenditure could also apply as assessment work for this year on claims on which no assessment work was done in recent years, such as Fortuna 2, 3, 4, 5, 8 and Addition.

COPY

12. If the above should reveal anything to continue interest in this part of the area, we can plan further action depending on what, where and how much is revealed. If nothing shows, then you should revert to the former plan of amending four claims to put a common corner on the Buena Vista and initiate patent proceedings if still so desired.

13. After consideration of the above, would you please phone us immediately so as to communicate your wishes as to whether we should proceed promptly with the geophysics or not.

Very truly yours,

Walter E. Heinrichs, Jr.

WEH:jh

COPY

December 15, 1961

ROBERT M. ADAMS CO. -- FORTUNA AREA

The earliest information we have any record on is 1950. Ted Dodge was involved for Adams. A woman named Ruby Shaw had control over part of the area but apparently Adams dealt with her or legally jumped (?) her ground and apparently she is no longer a factor.

Dodge had a letter from the state land department and none of the sections are state land so federal mineral was presumed.

Dodge was involved in surveying, monumenting, digging of location pits and a comprehensive geology-economic report, which we have along with his maps.

By 1951 (if not before) Seaton Williams is in the picture. He located more claims for Adams (the Riqueza Group) and did a lot of geology and had Zappia for manual work. Williams had considerable assaying, some drilling, a little flying and was involved through early 1954. We have much of his notes and maps.

1954 through 1958 Al Rugg was in charge, locally. Kept up assessment work and handled things in general. Steve Congdon made a geochem survey. Al did hand mag and S.P. None of them too exciting, apparently. Tate did some road-building assessment, Lee Vought some drilling.

Since 1959 GEOEX has handled the assessment which has been a drill hole by Metlers, geochem and hand mag. Nothing too exciting shown, yet.

Apparently at least 8 holes have been drilled so far. Mineralization in most but no high grade. Geochem sampling has had weakly marginal results. S. P. profiles not extensive but somewhat interesting in places. Magnetic variation is quite anomalous but does not correlate to known mineralization and does correlate to rock features.

Dodge puzzled by certain geologic features but held out hope for possible mining discovery. Williams apparently quite bullish, especially to north and east of Ragged Mt., where he staked Riqueza Claims. GEOEX personnel have not yet seen enough of the ground but have noted some interesting, potentially favorable signs.

Recommendd: immediate on-the-ground reconnaissance inspection and aerial flight over area.

In 1956 Kalaf of B. S. & K. mining Co. offered $35,000 for an option but Adams turned it down. In 1958, Anan Cook of Kennecott and Lowell of Ventures were mildly interested and had correspondence with Adams.

Conformed Copy

AFFIDAVIT OF PERFORMANCE OF ANNUAL LABOR

#63885

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

Sept 28, 1961 4:37 P.M.

WALTER E. HEINRICHS, JR., being first duly sworn, deposes and says:

That he is a citizen of the United States and more than twenty-one years of age; he is a registered professional mining engineer, No. 2447, in the State of Arizona and is personally acquainted with the following unpatented mining claims situated in the Silver Bell Mining District of Pima County, Arizona, the location notices of which are of record in the office of the County Recorder of Pima County as follows:

NAME OF CLAIM	BOOK	PAGE
Fortuna No. 6	645	330
Fortuna No. 7	645	331
Fortuna No. 9	646	565
Esperanza	314	55

That the said mining claims are contiguous and constitute a single group and are owned by Robert M. Adams Company.

That the affiant is now, and has been since August 1959, employed as consulting mining and exploration engineer and geologist by Robert M. Adams Company, and that he is duly authorized to make this affidavit for and on behalf of the owner of the said property.

That between August 23, 1961 and August 26, 1961 at least Four Hundred Dollars ($400.00) worth of work and improvements were done and performed upon the said claims, not including the location work. The work was performed by Heinrichs Geoexploration Company of Tucson, Arizona, at the request and expense of Robert M. Adams Company, for the purpose of complying with the laws of the United States pertaining to assessment or annual work for the assessment year ending September 1, 1961, at a cost of not less than $400.00, and Walter E. Heinrichs, Jr., E. Grover Heinrichs, John M. Patten, and Chris S. Ludwig, employees of Heinrichs Geoexploration Company, all of Tucson, Arizona, were the men who performed the said work, and that these personnel represent a total of approximately 37 years of training and/or experience as graduate geophysical engineers, geologists and/or technicians, working under the direct supervision of affiant as President and General Manager of Heinrichs Geoexploration Company.

The work was performed on the Fortuna Nos. 6, 7, 9 and Esperanza claims and consisted of vertical intensity magnetic readings along three parallel East-West lines and one North-South line across the above described unpatented mining claims. Station readings were taken each 200 ft.

Book 1836 page 461-465

Fee: $4.75

Magnetic results delineated certain geo-magnetic trends and anomalism which, when related to the exposed geology and previous known exploration results form the basis of interpretation, justifying continued consideration and effort to further develop the above listed claims.

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E.
HEINRICHS, JR.
DEC. 31, 1961
ARIZONA, U. S. A.

Walter E. Heinrichs, Jr.
Registered Engineer

Subscribed and sworn to before me this 5th day of September

M. Jean Heinrichs
M. Jean Heinrichs
Notary Public

My commission expires:

My Commission Expires July 20, 1965

Conformed Copy

Pima County
63885

AFFIDAVIT OF PERFORMANCE OF ANNUAL LABOR

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4:37 P.M.

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DEC. 31, 19 61
ARIZONA, U. S. A.

Walter E. Heinrichs, Jr.
Registered Engineer

Subscribed and sworn to before me this 5th day of September

M. Jean Heinrichs
Notary Public

My commission expires:

My Commission Expires July 20, 1965

vicinity until such time as future developments indicate such is warranted. There is a suggestion that the trend of anomalism is a little west of north.

The readings obtained along the I. P. profile show considerable rapid variations also and probably mainly reflect the same rock type. Some of the lows are undoubtedly related to zones of alteration and latite. Much further detailed work would be required to separate and isolate these zones and such should not be done until a more localized area is delineated by other methods.

COPY

Respectfully submitted,

HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs

J. W. Marlatt

Walter E. Heinrichs, Jr.

January 18, 1962
P. O. Box 5671
Tucson, Arizona

October 16, 1961

Mr. Robert M. Adams
Fidelity Building
Duluth 2, Minnesota

Re: Gila Claims
Fortuna Claims ✓ File

Dear Mr. Adams:

Your letter of 9 October 1961 has been received. Below are my comments to your questions, answered in the same order as you asked them:

A) Yes, the high magnetic intensity zone mentioned in the GEOEX report dated 25 September 1961 is of interest and if further work is contemplated it is recommended that this zone be closed off to the south.

B) As covered above.

C) An induced polarization survey would be worthwhile in the Fortuna Area. I.P. is currently the best known geophysical method of locating disseminated sulfide concentrations.

D) Enclosed is a sketch showing in red pencil my suggested changes in the Fortuna Claim Group configuration. My reasons for these changes are as follows:

1) Corner four claims at present workings so that mineral is on all four claims without doubt. See the enclosed sketch map.

2) Abandon the Esperanza for the time being because of the distance and strike from present known mineral and geophysical trends.

3) Maintain the present general strike of the 4 claims so as to take advantage of present location pits and continuous title over a long period will have been maintained at least on the Fortuna 6, Fortuna 7 and Fortuna 9.

4) Covering the magnetic anomaly is a separate problem and should be handled by locating another claim parallel with the trend of the magnetic anomaly. The corner locations could be surveyed in after the magnetics was completed to the south. The ground, in the interim period could be tied up by a location monument south of the SW corner of the Fortuna #6.

E) Yes, the correlation is weak between the copper concentrations on the geochemical survey and the magnetics. Nevertheless it is still there and does point to the same general area.

F) The Fault is approx. 1600 ft. north of the north edge of Fortuna 7 and Fortuna 9. Although the magnetic picture showed little in this area, the fault could still provide some "plumbing" however one profile is not enough information to say much.

G) At Line 6N, Station 0 the magnetic anomaly is still trending to the northeast and any further magnetics done should close this anomaly off. A minimum of two EW lines 1,000 ft. long and 300 ft. apart would accomplish this, I believe.

In reference to the third paragraph, page 2 of your letter of October 9, 1961 I think further geochemical work is not necessary at this time. Any exploration money would be better spent finishing the magnetic survey and conducting an I.P. survey over a zone indicated by the magnetics.

In reply to your paragraph 4, page 2 the dozing and road work done was not entirely money down the drain. In fact 95% of the road is still intact. The areas washed out are where the road crosses the drain or goes down the wash. The most critical point is in Barcelona Wash at the waterfall. We had dozed a dirt ramp here, passable for a jeep. However, the following week a flash flood took it out. This spot is still impassable for a 4 w/d vehicle. There are a few other bad areas but they are passable for a 4 w/d vehicle.

It is my understanding that you wish us to approach the Bureau of Land Management and sound out the chances of obtaining a patent to four claims as shown in my enclosed sketch map.

We will proceed with this upon your approval of a configuration for the claims and authorize us to commence this phase of work on the Fortuna Group.

Very truly yours,

HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs

EGH:jh

MAGNETIC RECONNAISSANCE SURVEY
(Vertical Intensity)

SILVER BELL MINING DISTRICT
PIMA COUNTY, ARIZONA

1960 - 1961 Assessment Work

for
Robert M. Adams Company
Duluth, Minnesota

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. BOX 5671 TUCSON, ARIZONA

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Magnetic Profiles attached:

Line 0 E/W---------- 5

Line 2 North---------- 6

Line 6 North---------- 7

Line 2 South---------- 8

PLAN MAP---------- 9

INTRODUCTION

During the period of August 23, 1961 through August 26 1961 a magnetic survey was conducted by Chris S. Ludwig, John M. Patten, supervised by E. Grover Heinrichs, all employees of Heinrichs Geoexploration Company, Tucson, Arizona on the Fortuna Claim Group located in Section 23, & 26, T11S, R8E, GSRB&M, Pima County, Arizona for Robert M. Adams Company of Duluth, Minnesota. This magnetic survey consisted of three (3) east-west profiles and one (1) north-south profile. The profiles varied in length from 2000 ft to 4200 ft. The three east-west profiles covered the Fortuna #6, Fortuna #7, Fortuna #9 and the Tinaja unpatented mining claims. The north-south profile covered only Fortuna #6 and Fortuna #9 unpatented mining claims.

CONCLUSIONS AND RECOMMENDATIONS

A rather long (1,000 ft.) broad (500 ft.) magnetic trend over the mineralized workings indicates that the possibility exists of a metamorphosed zone of some importance.

Mr. Seaton Williams, in 1952, mapped a small altered area of iron staining about 200 ft. south of the peak of this anomaly, which further points to the possible importance of the area.

If further geophysical work is considered, it is recommended that a more detailed magnetic survey be conducted to close off

the magnetic high to the south.

An induced polarization survey would then be useful and a worthwhile method to directly determine the existence of sulphide concentrations.

OBJECTIVES

The purpose of this magnetic survey was to determine if magnetics could indicate structural features not visible from surface indications and possibly indicate a contact metamorphic zone.

PROCEDURE

A Sharpe model A-2 tripod mounted Schmidt type station reading magnetometer of approximately 10 gamma sensitivity was used.

Horizontal control was established by Brunton compass and pace and stations were tied to claim corners on either end of the line.

A base station was established at the SE corner of Fortuna #7. Throughout the survey an observation was taken in the morning and repeated in the evening to determine the diurnal magnetic changes. A maximum variation of 8 gammas was observed throughout the survey which was deemed insignificant to include in the calculations.

Lines were spaced 400 ft. apart and observations were taken each 200 ft. along the line. The purpose being to get as much area covered as possible and then at some future date do any detail work that appears warranted or necessary.

INTERPRETATION

An anomalous zone extending NE-SW, the peak of which is located at the common end center of the Tinaja and Fortuna #6 could be a contact metamorphic zone of significance. This same zone shows a weak correlation with the copper concentrations on the geochemical survey we conducted last year.

Depth to the top of the cause of the anomaly is estimated to be 360 ft. However this figure is based on meagre information.

This survey, being only reconnaissance in nature, did detect a fairly strong magnetic trend of some possible importance.

Line 0 East - West.

The bleached latite zone from 4N to 6S shows a slightly lower magnetic intensity and at Station 2N the sharp difference of over 200 gammas may be an indication of the change in rock type.

The monzonite zone from 36N to 22N appears to have a slightly higher magnetic susceptibility. There is no noticeable magnetic characteristic over the Trachyte dike, however, the low at station 18N may be an expression of the downward extension of the fault.

Line 2 South.

Station 6W is the peak of magnetic high and a fairly strong trend.

Line 2 North.

Station 6W is a finger of this same high magnetic trend that is indicated at Station 2W. Station 4E may also be a part of this trend but more work will be necessary to establish this.

Line 6 North.

Station 0 E/W shows the northern most expression of a high magnetic trend. Further work would better close the trend to the NE.

Respectfully submitted,

HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs
Vice President

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E. HEINRICHS, JR.
DEC. 31, 1961
ARIZONA, U.S.A.

Approved:

Walter E. Heinrichs, Jr.
Registered Mining Engineer

September 25, 1961
P. O. Box 5671
Tucson, Arizona

MAGNETOMETER DATA SHEET

AREA Adams - Fortuna LOCATION _____ LINE 2N

OPERATORS C.S.L. & J.M.P. BASE DATUM _____ INST. NO. _____ SCALE VALUE 20γ/S.D. DATE Aug. 24, 61

STATION	TIME	N. TO E. / N. TO W.	AVERAGE READING S.D. (1)	~~AUX. MAGNET & POSITION~~ Ave	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	REMARKS: GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) / CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
(0' NS 0 EW) Base	11:18	37.4/36.9	37.15			+.1			
"	11:20	37.3/37.1	37.2	37.2					
"	11:22	37.3/36.9	37.1						
0' EW	11:28	34.9/34.5	34.7				35.0	700	
2 W	11:39	42.5/42.0	42.6				42.9	858	
4 W	11:44	37.3/36.9	37.1				37.4	748	On road leading to lower drift
6 W	11:50	43.5/43.0	43.3				43.6	872	
8 W	11:54	33.4/32.5	32.9				33.2	664	
10 W	11:56	31.7/31.4	31.7				32.0	640	
12 W	12:03	36.1/35.7	35.9				36.2	724	
14 W	12:09	29.3/29.1	29.2				29.5	590	In wash. dike of basalt
16 W	12:24	24.8/24.7	24.8				25.1	502	50' N of Road
18 W	12:29	29.7/29.1	29.4				29.7	594	
20 W	12:42	32.1/31.3	31.7				32.0	640	WEC of Tunnel is 80' E of this point

MAGNETOMETER DATA SHEET

AREA: Adams Fortune LOCATION: LINE: 6N

OPERATORS: C.S.L. & L.M.P. BASE DATUM: INST. NO.: SCALE VALUE: DATE: Aug. 24, 61

STATION	TIME	N. TO E. / N. TO W.	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) REMARKS	CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
20 W	12:51	30.3/29.9	30.1			+.3	30.4	608	Bleached diorite	
18 W	1:06	32.3/32.1	32.2				32.5	650		
16 W	1:10	33.8/33.4	33.5				33.8	676		
14 W	1:15	33.6/33.1	33.2				33.5	670		
12 W	1:19	35.2/35.0	35.1				35.4	708	Sm wash	
10 W	1:22	31.9/31.9	31.9				32.2	644		
8 W	1:25	38.1/38.1	38.1				38.4	768		
6 W	1:33	29.0/29.1	29.1				29.4	588		
4 W	1:37	33.2/33.0	33.1				33.4	668	Strong [illegible] SEE	
2 W	1:41	28.2/28.6	28.4				28.7	574		
0 W	1:50	43.9/43.3	43.6				43.9	878		
0'NS, 0'WE BASE	1:57	37.7/37.2	37.4							
	Base Ave		37.5				37.6	752		

MAGNETOMETER DATA SHEET

AREA Adams Fortune LOCATION LINE 2 S

OPERATORS C.S.L. & L.M.P. BASE DATUM INST. NO. SCALE VALUE DATE Aug. 29, 61

	STATION	TIME	N. TO E. / N. TO W.	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) REMARKS	CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
ONS, OWE	Base	3:51	38.0/38	37.9			-.4				
	OEW	3:57	33.7/33.7	33.7				33.3	666		
	2E	4.08	34.8/34.7	34.8				34.4	688	On wad latite	
	4E	4:14	30.8/30.8	30.8				30.6	608	altered latite	
	6E	4:18	35.9/35.8	35.9				35.5	710	[illegible]	
	8E	4:25	33.1/33.1	33.2				32.8	656		
	2W	4:40	34.8/34.5	34.7				34.3	686		
	4W	4:45	41.0/41.0	41.0				40.6	812	On wad [illegible] latite	
	6W	4:53	57.4/56.7	56.9				56.5	1130		
	8W	4:58	46.5/45.7	46.1				45.7	914	[illegible]	
	10W	5:04	31.3/31.2	31.3				30.9	618		
	12W	5:10	34.4/34.1	34.3				33.9	678	[illegible]	
	14W	5:13	34.2/34.1	34.1				33.8	676		
	16W	5:18	38.7/38.1	38.3				37.9	758		
	18W	5:23	32.9/32.8	32.9				30.5	610		
	Line 9W										
	0 %	532	55.0/54.8	54.9				54.5	690		
ONS, OEW	Base	5:43	38.1/38.9	38.0							
	"	5:47	38.1/38.0	38.05				37.6	752		
		Base Ave		38.0							

MAGNETOMETER DATA SHEET

Reoccupy old mag sta.

AREA Adams Fortuna LOCATION LINE N from sec'n corner

OPERATORS C.S.L & J.M.P. BASE DATUM INST. NO. SCALE VALUE 22/23 27/26 DATE Aug 25. 61

STATION	TIME	N. TO E. N. TO W.	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) REMARKS	CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
27	11.10	26.1/26.1	26.1					522		
26	11.13	30.5/30.1	30.3					600		
Check	with	Everyman	Mag.							
26	×1000	+3.4/+3.4	+3.4					3400		
"	×5000	+.7/+.7	+.7					3500		
27	×1000	+3.1/+3.1	+3.1					3100		
"	×5000	+.7/+.7	+.7					3500		

MAGNETOMETER DATA SHEET

AREA Adams - Fortuna LOCATION _____ LINE 0 E/W

OPERATORS C.S.L. U.M.P. BASE DATUM _____ INST. NO. _____ SCALE VALUE _____ DATE Aug. 25, 61

STATION	TIME	N. TO E. / N. TO W.	AVERAGE READING S.D. (1)	~~AUX.~~ Ave MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D	INTENSITY GAMMA	GEOLOGY REMARKS (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.)	CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
0°EW, 0°NS BASE	12:00	37.8/37.4	37.6	37.6				752		
"	12:01	37.8/37.2	37.5							
"	12:02	37.8/37.6	37.7							
	12:03	37.8/37.6	37.7							
6N	12:28	44.0/43.0	43.5					870	fresh to slightly altered diorite	
8N	12:31	34.9/34.4	34.7					694	" "	
10N	12:43	41.0/40.2	40.6					812	" "	
12N	12:48	44.9/44.2	44.4					888	" "	
14N	12:54	45.6/45.0	45.3					906	" "	
16N	12:58	42.1/41.7	42.0					840	" "	
18N	1:05	34.9/34.8	34.9					698	" "	
20N	1:11	44.1/43.5	43.8					876	" "	
22N	1:18	45.0/42.2	42.6					852	Felsite & rhyolite dike	
24N	1:25	41.3/40.7	41.0					820	Monzonite	
26N	1:32	45.8/44.8	45.3					906	"	
28N	1:37	43.9/42.9	43.4					868	"	
30N	1:43	48.6/47.8	48.2					964	"	
32N	1:48	52.8/51.8	52.3					1046	"	
34N	1:54	44.7/44.1	44.4					888	"	
36N	1:59	47.0/46.3	46.6					932	"	
0°EW, 0°NS BASE	2:25	37.7/37.2	37.5							
"	2:26	37.7/37.2	37.5							

MAGNETOMETER DATA SHEET

AREA _____ LOCATION _____ LINE _____

OPERATORS _____ BASE DATUM _____ INST. NO. _____ SCALE VALUE _____ DATE _____

STATION	TIME	N. TO E. N. TO W.	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) REMARKS	CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)

MAGNETOMETER DATA SHEET

Test of Everyman Magnetometer

AREA Adams - Fortune LOCATION _____ LINE _____

OPERATORS C.S.L. J.M.P. BASE DATUM _____ INST. NO. _____ SCALE VALUE 1000 γ/S.D. 8 5000 γ/S.D. DATE Aug. 25, 61

STATION	Range ~~TIME~~	2 - Reading ~~N. TO E.~~ ~~N. TO W.~~	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) REMARKS CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)
N of Sec. Cor.				22/23 21/26					
26	X1000	3.4/3.4	3.4					3400	
"	X5000	.7/.7	.7					3500	
27	X1000	3.1/3.1	3.1					3100	
	X5000	.7/.7	.7					3500	
Line 2 S/W									
Base	X1000	3.5/3.5	3.5					3500	
6N		3.6/3.6	3.6					[illegible]	
8N		3.2/3.2	3.2					[illegible]	
10		3.4/3.4	3.4					[illegible]	
12		3.5/3.5	3.5					[illegible]	
14		3.6/3.6	[illegible]					[illegible]	
16		3.4/3.4	3.5					[illegible]	
18		3.2/3.2	[illegible]					[illegible]	
20		3.6/3.6	[illegible]					[illegible]	
22		3.4/3.4	[illegible]					3300	
24		3.3/3.3	[illegible]					[illegible]	
26		[illegible]	[illegible]					[illegible]	
28		[illegible]	[illegible]					[illegible]	
30		3.3/3.3	[illegible]					[illegible]	
32		3.8/3.8	[illegible]					[illegible]	
34		[illegible]	[illegible]					[illegible]	
36		[illegible]	[illegible]					[illegible]	
Base		[illegible]	3.5					3500	

MAGNETOMETER DATA SHEET

AREA _____ LOCATION _____ LINE _____

OPERATORS _____ BASE DATUM _____ INST. NO. _____ SCALE VALUE _____ DATE _____

STATION	TIME	N. TO E. N. TO W.	AVERAGE READING S.D. (1)	AUX. MAGNET & POSITION	AUX. MAG. CORR. S.D. (2)	DIURNAL PLUS BASE CORR. S.D. (3)	(1) PLUS (2) PLUS (3) S.D.	INTENSITY GAMMA	REMARKS GEOLOGY (MINERALIZATION, RIDGES, VALLEYS, BLUFFS, FORMATIONS, STREAMS, DIPS, STRIKES.) CULTURE (SURVEY MONUMENTS, BRIDGES, PIPE LINES, CULVERTS, ROADS, FENCES, PITS, CORNERS, SHAFTS, BUILDINGS, POWER LINES.)

August 23, 1961

VIA AIR MAIL

R. M. Adams
Fidelity Bldg.
Duluth 2, Minnesota

Dear Mr. Adams:

Your letter of instructions of August 18, 1961 has been received and we have scheduled work to commence on file Fortuna Group tomorrow. We plan to run magnetics and will follow the outline as you suggested in your letter.

In order to actually meet the requirements of the law pertaining to assessment work it will be necessary to spend more than $40000. Such things as recording fees and affidavit preparation and etc. will be over and above the $400.00. However I don't think it will exceed $25 - $30.

It has been our policy in the past to have an advance payment on all extended field operations, therefore I respectfully request $400.00 to cover the Fortuna assessment work.

The Gila project is still awaiting your go ahead. As I mentioned on the phone last Saturday August 19th Geoex personnel scouted the area of the Gila claim group and found the road impassable down Barcelona Canyon at the point of the waterfall. This will mean dozer & rock work at the waterfall to make it passable for the vehicle. The drop at the waterfall is about 6' and we expect the cost to approximate $400.00 to blast and clear this area to allow a vehicle through. Although the waterfall is off the Gila Claims the expense <u>will</u> apply as assessment work on the Gila Claim Group. The remaining $900.00 can be spent on road work on the claim group itself. We have found some local equipment for use on the Gila but have not made a definite commitment for it till we hear from you. The hermit (gold mine) is still camped in Barcelona Canyon and his partner

Fortuna File

has apparently left him. No visable activity was noted between the Gila Claims and the Pioneer Claim Group of Cerro. Cerro apparently has discontinued drilling but is keeping the claims.

We are awaiting your early instructions so that equipment can be arranged for, and respectfully request an advance of $1300.00.

Any new claims located as discussed on the phone August 12, 1961 will be located after Sept,1, 1961 and I would like written instructions as to your wishes in this matter.

Very truly yours
HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs
Vice President

EGH:ib

No. 77526
Recorded in the office of the Pima County Recorder in Book 1685 Page 306, October 18, 1960.

AFFIDAVIT OF PERFORMANCE OF ANNUAL LABOR

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

WALTER E. HEINRICHS, JR., being first duly sworn, deposes and says:

That he is a citizen of the United States and more than twenty-one years of age; he is a registered professional mining engineer, No. 2447, in the State of Arizona and is personally acquainted with the following unpatented mining claims situated in the Silver Bell Mining District of Pima County, Arizona, the location notices of which are of record in the office of the County Recorder of Pima County as follows:

Name of Claim	Book	Page
Fortuna No. 6	645	330
Fortuna No. 7	645	331
Fortuna No. 9	646	565
Esperanza	314	55

That the said mining claims are contiguous and constitute a single group and are owned by Robert M. Adams Company.

That the affiant is now, and has been since August 1959, employed as consulting mining and exploration engineer and geologist by Robert M. Adams Company, and that he is duly authorized to make this affidavit for and on behalf of the owner of the said property.

That between August 28, 1960 and September 8, 1960 at least Four Hundred Dollars ($400.00) worth of work and improvements were done and performed upon the said claims, not including the location work. The work was performed by Heinrichs Geoexploration Company of Tucson, Arizona, at the request and expense of Robert M. Adams Company, for the purpose of complying with the laws of the United States pertaining to assessment or annual work for the assessment year ending September 1, 1960, at a cost of not less than $400.00, and Walter E. Heinrichs, Jr., E. Grover Heinrichs, John W. Marlatt, Franklin A. Seward, Jr., Chris S. Ludwig, and Charles A. Allen, employees of Heinrichs Geoexploration Company, all of Tucson, Arizona, were the men who performed the said work, and that these personnel represent a total of approximately 55 years of training and/or experience as graduate geophysical engineers, geologists and/or technicians, working under the direct supervision of affiant as President and General Manager of Heinrichs Geoexploration Company.

The work was performed on the Fortuna Nos. 6, 7, 9 and Esperanza claims and consisted of geochemical soil sampling along five parallel profile lines 300 feet apart across the above-described unpatented mining claims with samples taken every 100 feet. Analyses were made of the samples in the laboratory for copper and zinc content in parts per million using the biquinoline method for copper determination and the dithiozone method

for zinc determination. Results shown on the map attached hereto reveal above normal background copper and zinc content in the samples with minor anomalism.

Walter E. Heinrichs, Jr.

(Seal)

Walter E. Heinrichs, Jr.
Registered Engineer

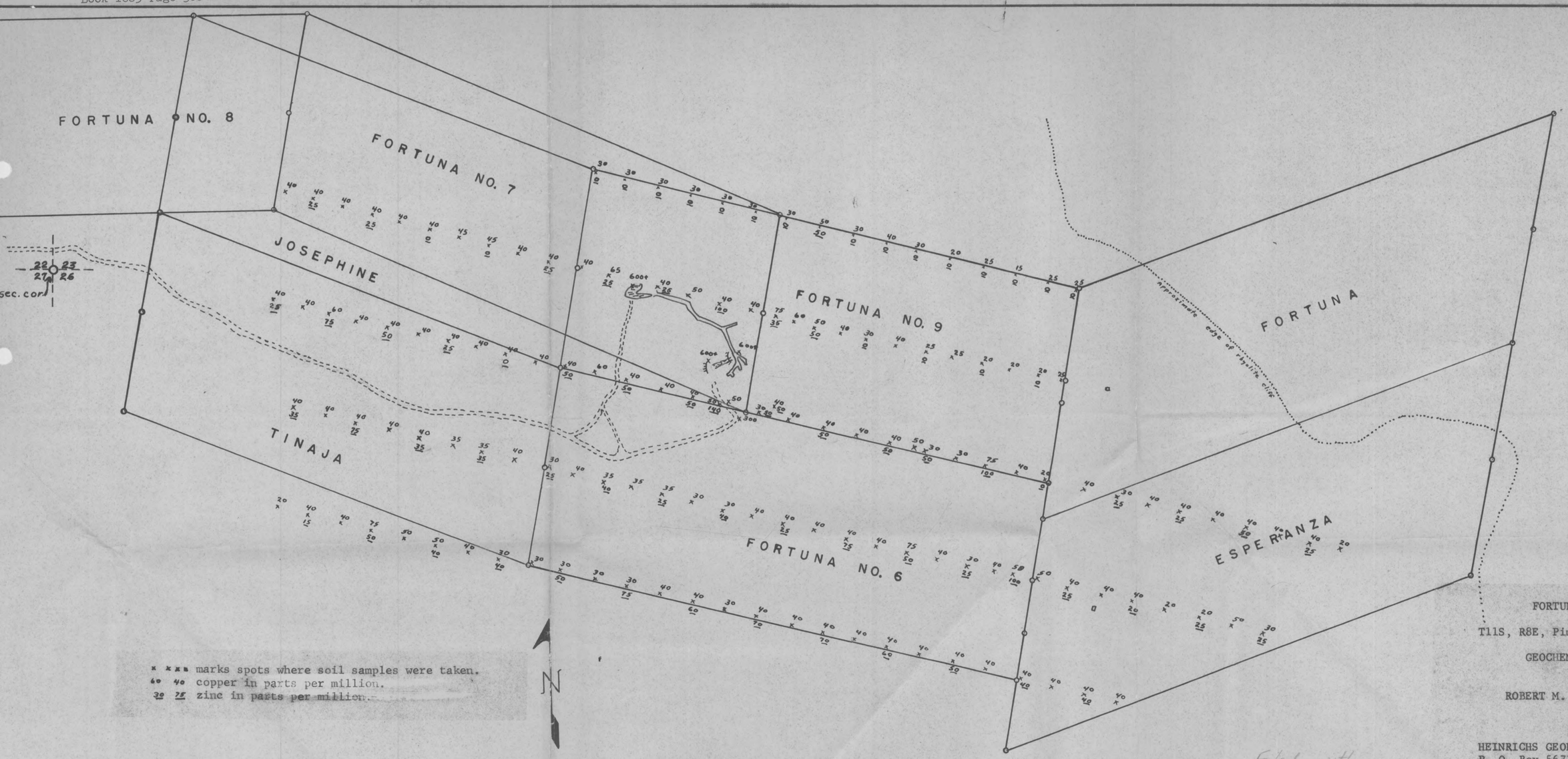
Subscribed and sworn to before me this 8th day of October 1960.

Victor H. Verity

Notary Public

My commission expires:

July 8, 1963



x xxx marks spots where soil samples were taken.
60 40 copper in parts per million.
30 75 zinc in parts per million.

FORTUNA CLAIM GROUP

T11S, R8E, Pima County, Arizona

GEOCHEMICAL SURVEY
for

ROBERT M. ADAMS COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

August 1960

Filed with
Affidavit of Labor
1959-1960 Ass. year
BK1685 PG. 308

October 10, 1960

Robert M. Adams,
Fidelity Building,
Duluth 2, Minnesota.

Dear Mr. Adams,

We recently mailed you two copies each of our reports on geophysical investigations on the Gila Claim Group and geochemical survey over four of the claims of the Fortuna group. You should find they are fully explanatory, but if you have any questions, let us know.

The Gila area still shows some possibility, but much expensive work followed by a drilling program would be required to investigate it fully.

On the Fortuna claims we felt that a reconnaisance geochemical investigation would give the most benefit and value under the circumstances, in hopes of showing trends that could be followed later by other methods. The samples were gathered along profiles that would fall on four amended claims if it is decidedto amend four with a common corner at the mine area. If you still desire to amend them we can arrange to do this for you in the near future.

All 145 samples were run for copper, but, to keep expenditures within $400.00 not all were run for zinc. Our thinking in doing this geochenical work was that determinations for lead might be of value if so indicated by results from the copper and zinc determinations. Therefore sufficient amounts of each sample were taken so that we could keep them in storage. If you should ever desire to have the rest of the zinc determinations made, or have them run for lead or other minerals, we have them on hand.

Vic Verity has prepared the affidavits and they are being recorded.

Our billing is enclosed.

Very Truly yours,

E. G. H.

E. Grover Heinrichs, Vice Pres.
Heinrichs Geoexploration Co.

EGH/cp

GEOCHEMICAL SURVEY

FORTUNA Claim Group
Silver Bell Mining District
Pima County, Arizona

1959-1960 Assessment Work

for

Robert M. Adams Company
Duluth, Minnesota

COPY

by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

GEOCHEMICAL SURVEY
FORTUNA Claim Group

Silver Bell Mining District
Pima County, Arizona

1959-1960 Assessment Work

INTRODUCTION

During the month of August 1960 the annual Assessment Work was performed by Heinrichs Geoexploration Co. of Tucson Arizona on the Fortuna Claim Group in Sections 23 and 26, T11S, R8E, G&SRB&M, Pima County, Arizona, for Robert M. Adams of Duluth,Minnesota. This work consisted of five (5) geochemical profiles of from 1500 to 3300 feet in length, 300 feet apart with stations on 100 ft. centers. These profiles were roughly parallel to the sidelines of the Fortuna Claims #6 and #9. In all 145 soil samples were taken and evaluated for copper content. A number of samples were analysed for zinc content.

CONCLUSIONS AND RECOMMENDATIONS

1. Determining the significance of the somewhat higher than normal background in this area would rely on some work of a more regional nature, i.e. several profiles extended for a considerable distance from the known area of interest.

2. Making the purely hypothetical assumption that a disseminated copper sulfide body exists at some depth, covered by pre-mineralization (but non mineralized) country rock

(either sedimentary or igneous intrusive or extrusive) the slightly anomalous background could be interpreted as hydrothermal alteration effects in the overlying rock. If the presence of such a mineralized body was proved, by other means, it should be possible by detailed geochemical survey to delineate the lateral extent of such a body.

3. In general the small isolated anomalies observed did not exceed 75 parts per million Cu or 3 times background and without a further detailed survey, cannot be considered significant. Tentatively they are interpreted as representing highly localized fissure controlled, more or less by minor mineralization in the outcropping country rock.

4. The single station strong anomalies are from areas (dumps and vein) known to contain appreciable copper concentrations and are not in themselves significant of the surrounding area.

5. Zinc concentrations closely parallel the copper values obtained.

6. Any recommendation for further geochemical examination would rely on additional data obtained from other sources and reinterpretation of the current geochemical data in this light.

OBJECTIVES

The purpose of this survey was to determine the feasibility of delineating potential ore bodies in the area by geochemical

methods, using the biquinoline method for copper and dithiozone method for zinc.

PROCEDURE

Samples were taken in the field generally from the "C" soil zone. The "C" zone is residual soil or that soil which is composed primarily of decomposing bedrock. These samples were brought to the laboratory, sieved, and the plus 80 mesh fraction discarded. An 0.1 gampample of the minus 80 mesh fraction was fused with potassium pyrosulfate, taken into solution with hydrochloric acid, diluted to 10 ml with metal free water, and 2.0 ml portions of the aqueous sample analysed for copper content by extraction with a standard solution of 2 x 2' biquinoline in iso-amyl alcohol. A second 2.0 ml portion of the sample was analysed for zinc content by extraction with a standard solution of diphenol thiocarbozone (dithizone).

INTERPRETATION

In general the area surveyed can be considered as somewhat anomalous with respect to other areas in this region of the country. Normal background in "barren" country rock is generally of the order of 10 to 25 parts per million Cu. Average background in the Fortuna area was 30 to 40 ppm Cu. Without further regional study this "anomalism" in the background cannot be considered significant or indicative of a deeply buried disseminated copper deposit. Further study of outlying areas might add

Sample #	TT #	Cu. Aliq.	Cu. %	Cu. ppm	Zn. Aliq	Zn. %	Zn. ppm
(Line#1) 1	1 ✓	2	.6	30	2	0	0 50
2	2 ✓	2	.6	30	2	0	0 50
3	3 ✓	2	.6	30	2	0	0 1.2 / 50 60
4	4 ✓	2	.6	30	2	0	0 50
5	5 ✓	2	.6	30	2	0	0 1.2 / 50 60
6	6 ✓	2	.6	30	2	0	0 50
7	7 ✓	2	.6	30	2	0	0 50
8	8 ✓	2	1.0	50	2	1	50 2.0 / 100 100
9	9 ✓	2	.6	30	2	0	0 50
10	10 ✓	2	.8	40	2	0	0 50
11	11 ✓	2	.6	30	2	0	0 50
12	12 ✓	2	.4	20	2	0	0 50
13	13 ✓	2	.5	25	2	0	0
14	14 ✓	2	.3	15	2	0	0
15	15 ✓	2	.5	25	2	0	0 1.0 100 50
16	16 ✓	2	.5	25	2	0	0 50
(Line#2) 17	17 ✓	2	.5	25			
18	18 ✓	2	.4	20	2	0	0 50
19	19 ✓	2	.4	20			
20	20 ✓	2	.4	20	2	0	0 50
21	21 ✓		.5	25			
22	22 ✓		.5	25	2	0	0 50
[redacted]			.8	40			
24	24 ✓		.6	30	2	0	0 50
25	25 ✓		.8	40			
26	26 ✓		1.0	50	2	1	50
27	27 ✓		1.2	60			
28	28 ✓		1.5	75	2	.7	35
29	29 ✓		.8	40			
30	30 ✓		.8	40	2	2	100 1.5 75
31	31 ✓	2	1.0	50			
32	32 ✓	2	.8	40	2	.5	25
33	33 ✓	1	6.0+++	600+++			
34	34 ✓	2	1.3	65	2	.5	25

Sample #	TT #	Cu Aliq	Cu γ	Cu ppm	Zn Aliq.	Zn γ	Zn ppm.
(Line#2) 35	35 ✓	2	.8	40.	~~2~~		
36	36 ✓	2	.8	40	2	.5	25
37	37 ✓	2	.8	40			
38	38 ✓	2	.9	45	2	0	0
39	39 ✓	2	.9	45			
40	40 ✓	2	.8	40	2	0	0
41	41 ✓	2	.8	40			
42	42 ✓	2	.8	40	2	.5	25
43	43 ✓	2	.8	40.			
44	44 ✓	2	.8	40	2	.5	25.
45	45 ✓	2	.8	40			
(Line#3) 46	46 ✓	2	.8	40	2	.5	25
47	47 ✓	2	.8	40			
48	48 ✓	2	1.2	60	2	1.5	75
49	49 ✓	2	.8	40			
50	50 ✓	2	.8	40	2	1.0	50
51	51 ✓	2	.8	40			
52	52 ✓	2	.8	40	2	.5	25
53	53 ✓	2	.8	40			
54	54 ✓	2	.8	40	2	0	0
55	55 ✓	2	.8	40			
56	56 ✓	2	.8	40	2	1.0	50
57	57 ✓	2	1.2	60			
58	58 ✓	2	.8	40	2	1.0	50
59	59 ✓	2	.8	40			
60	60 ✓	2	.8	40	2	1.0	50
61	61 ✓	2	1.0	50			
62	62 ✓	2	.6	30	2	1.0	50
63	63 ✓	2	.8	40			
64	64 ✓	2	.8	40	2	1.0	50
65	65 ✓	2	.8	40			
66	66 ✓	2	.8	40	2	1.0	50
67	67 ✓	2	1.0	50			
67	68 ✓	2	.6	30	2	1.0	50

Sample #	TT #	aliq	γ	ppm	Aliq.	γ	ppm.
68	69 ✓	2	.6	30			
69	70 ✓	2	1.5	75	2	2.0	100
70	71 ✓	2	.8	40			
71	72 ✓	"	.4	20	2	0	0
72	73 ✓	"	.8	40			
73	74 ✓	"	.6	30	2	.5	25
74	75 ✓	"	.8	40		~~.5~~	~~25~~
75	76 ✓	"	.8	40	2	.5	25
76	77 ✓	"	.8	40			
77	78 ✓	"	.8	40	2	1.0	50
78	79 ✓	"	.8	40			
79	80 ✓	"	.8	40	2	.5	25
80	81 ✓	"	.4	20			
81	82 ✓	"	.6	30	2	.5	25
82	83 ✓	"	1.0	50			
83	84 ✓	"	.4	20	2	.5	25
84	85 ✓	"	.4	20			
85	86 ✓	"	.8	40	2	<.5	<25
86	87 ✓	"	.8	40		~~<.5~~	~~<25~~
87	88 ✓	"	.8	40	2	.5	25
88	89 ✓	"	1.0	50			
89	90 ✓	"	1.0	50	2	2.0	100
90	91 ✓	"	.8	40			
91	92 ✓	"	.6	30	2	.5	25
92	93 ✓	"	.8	40			
93	94 ✓	4	1.5	75	2	1.0	50

Young

Sample #	T.T. #	Cu. Aliq	Cu. γ	Cu. PPM	Zn Aliq	Zn γ	Zn PPM
94	95	2	.8	40			
95	7 96	2	.8	40	2	2.5	75
96	97A	2	.8	40			
97	8 97B	2	.8	40	2	.5	25
98	98	2	.8	40			
99	9 99	2	.6	30	2	.8	40
100	100	2	.6	30			
101	10 101	2	.7	35	2	.5	25
102	102	2	.7	35			
103	1 103	2	.7	35	2	.8	40
104	104	2	.8	40			
105	2 105	2	.6	30	2	.5	25
106	6x 106	2	.8	40	2	.5	25
107	3 107	2	.7	35	2	.7	35
108	108	2	.7	35			35
109	4 109	2	.8	40	2	.7	35
110	110	2	.8	40.		1.5	75
111	5 111	2	.8	40.	2	1.5	75
112	112	2	.8	40			
113	6 113	2	.8	40	2	.7	35
114	114	2	.4	20			
115	7 115	2	.8	40	2	.3	15
116	116	2	.8	40			
117	8 117	2	1.5	75	2	1.0	50
118	118	2	1.0 ~~.8~~	50 ~~40~~			
119	9 119	2	1.0	50	2	.8	40
120	120	2	.8	40			
121	1 121	2	.6	30		.8	40
122	122	2	.6	30			
123	2 123	2	.6	30		1.0	50
124	124	2	.6	30			
125	3 125	2	.6	30		1.5	75
126	126	2	.8	40			
127	4 127	2	.8	40		1.2	60.

2 8494

Sample #	T.T #	Young Aliq	γ	ppm	Zn aliq.	γ	ppm
128	128	2	.6	30			
~~128~~							
129	129 5	2	.8	40	2.	1.4	70
130	130	2.	.8	40			
131	131 6	2	.8	40		1.4	70
132	132	2	.8	40			
133	133 7	2	.8	40		1.2	60
134	134	2	.8	40			
135	135 8	2	.8	40		1.0	50
136	136	2	.8	40			
137	137 9	2	.8	40		0.8	40
138	138	2	.8	40			
139	139 10	2	.8	40		0.8	40
140	140	2	.8	40			
141	141 1	2	.8	40		1.5	75
142	142 2	2	6.0+	300+		4.0	200
143	143 3	2	1.0	50		2.8	140
JUMP Sample 144	144 4	1	6.0+	600++		200+++	
145	5	1	6.0+	600++		200+++	

135°

December 9, 1959

Mr. Robert M. Adams
Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

We enclose the original copies of two (2) executed and recorded affidavits of performance of annual labor on your respective Gila and Fortuna claim groups in Pinal and Pima Counties, Arizona.

Trust you will find these both in order and I believe this completes everything specifically related to your original asignment to us. We located no old Fortuna core at Vought & Cloeter, and Lee Vought knows of none. He says he thought Allen Rugg picked it all up. If so, then Al has everything except that which we have here.

Our statements regarding preparation and recording of affidavits of labor are attached.

Season's Greetings and Best Wishes for 1960.

Sincerely,

HEINRICHS GEOEXPLORATION CO.

Walter E. Heinrichs, Jr.
President & General Manager

WEH:jh
Encl: 4

cc: V. H. Verity

STATEMENT

To: Robert M. Adams
Fidelity Building
Duluth 2, Minnesota

Re: FORTUNA CLAIM GROUP, Silver Bell Mining District, Pima County, Arizona
August, September, October 1959

DATE 1959 August	DESCRIPTION	TIME SPENT	CHARGES (Non Assessment or indirect)	CHARGES Direct Assessment
18	J. W. Marlatt picked up maps for both Fortuna & Gila groups from A.M. Rugg	1½ hrs	N.C.	
19	J. W. M. had conference with V. H. Verity 8:00-9:00 a.m. then left at 10:30 a.m. with Dick Metler for the Fortuna Area. Found it with no difficulty, but no possible way to get a mobile rig in on the Fortuna claim, and hardly anywhere else except along the roads or old workings. Scope of job did not justify consideration of using a skid rig. Therefore, a potential drill site was plotted 200' N70E from DDH F 9-1, also on Fortuna #9 claim. Went back to see Verity 4:15-5:00 p.m. Used Jeep Pick-up--total mileage 101 miles.	10 hrs		1/2 day @ $100.00/day $50.00
20	W.E.H. & Verity discussed site, then gave Metlers were given O.K. to drill	1 hr.		
22	Metlers moved on site, set up & began drilling.			
24	Drilling	Contracted direct.		$700.00 (direct billing sent in Aug.)
25	Drilling completed, rig taken down. Bottom of hole at 92'. Top 18' cased and capped			
Sept. 15	Picked up core from A. L. Rugg (from hole F9-2	1 1/2 hrs.		
29	Marked core boxes & logged core.	6 hrs.	1/2 day $50.00	
August, Sept. & Oct.	Several times we have tried to contact Mr. John Cloeter at the former firm of Vought & Cloeter drilling Co. with no success. He has been out of town on business. Mr. Vought confirmed that the older Fortuna core was at their old office and that we could probably get it from Mr. Cloeter. This we will do at the first opportunity	1 1/2 hrs.	N.C.	
	Sub totals		$50.00	$750.00
		Total:		$800.00

HEINRICHS GEOEXPLORATION COMPANY

CONCLUSIONS:

Drilling did accomplish annual assessment requirement. Cost per foot drilled was $7.61 over all. No direct commercial mineralization was noted in the core which dictates the need for assays at this time other than for pure exploratory information purposes. Our log of the hole is attached herewith.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

by: W E Heinrichs Jr.

Walter E. Heinrichs, Jr.
President & General Manager

CC: Victor H. Verity

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E.
HEINRICHS, JR.
DEC. 31, 1959
ARIZONA, U. S. A.

6 November 1959
P. O. Box 5671
Tucson, Arizona

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

WALTER E. HEINRICHS, JR., being duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one years of age, and resides at Tucson in Pima County, Arizona, and is personally acquainted with the following mining claims situated in the Silver Bell Mining District of Pima County, Arizona, the location notices of which are of record in the office of the County Recorder of Pima County as follows:

Name of Claim	Book	Page
Fortuna	314	54
Fortuna No. 2	539	555
Fortuna No. 6	645	330
Fortuna No. 7	645	331
Fortuna No. 9	646	565
Esperanza	314	55
Suerte	314	56

That between August 18, 1959 and September 1, 1959, at least Seven Hundred Dollars ($700.00) worth of work and improvements were done and performed upon the said claims, not including the location work. The work and improvements were made by Metler Brothers Drilling Co. at the expense of Robert M. Adams Company, owner of said claims, for the purpose of complying with the laws of the United States pertaining to annual assessment work, and Frank C. Metler, E. Richard Metler, and C. W. Shipley, employees of Metler Brothers Drilling Co., and J. W. Marlatt, employee of Heinrichs Geoexploration Company, all of Tucson, Arizona, were the men who performed the said work which consisted of one diamond drill hole BX size on the Fortuna No. 9 mining claim which was done for the benefit of the group of seven mining claims above described.

W. E. Heinrichs Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 28 day of November 1959.

Dave F. Barry
Notary Public

My commission expires: My Commission Expires Nov. 2, 1960.

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

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W. E. Heinrichs Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 28 day of November 1959.

Walter F. Barry
Notary Public

My commission expires: My Commission Expires Nov. 2, 1960

BOOK 1524 PAGE 322

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1524 322

1959 NOV 30 AM 9:43

Walter E. Heinrichs

By H Dilton McKee

Deputy

mail

Box 5671

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

MISCELLANEOUS

WALTER E. HEINRICHS, JR., being duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one years of age, and resides at Tucson in Pima County, Arizona, and is personally acquainted with the following mining claims situated in the Silver Bell Mining District of Pima County, Arizona, the location notices of which are of record in the office of the County Recorder of Pima County as follows:

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W E Heinrichs, Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 28 day of November 1959.

Notary Public

My commission expires: My Com

November 10, 1959

Mr. Victor H. Verity
2207 East Waverly
Tucson, Arizona

Re: Adams Fortuna & Gila

Dear Vic:

Enclosed herewith are one copy each of our reports, data and billings re: the above and your two respectively related letters of 30 October 1959.

On the Fortuna the men who did the drilling were : Frank C. Metler, E. Richard Metler and C. W. Shipley, all of Tucson and our man J. W. Marlatt also of Tucson, helped locate the drill site etc.

On the Gila, they were Charles L. Fair, E. Grover Heinrichs, W. K. McLain and J. W. Marlatt, all our personnel and of Tucson.

Very truly yours,

Walter E. Heinrichs, Jr.

WEH;jh
cc: Mr. Adams (2)
Encl: 1 Extra copy

November 10, 1959

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2207 East Waverly
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On the Gila, they were Charles L. Fair, E. Grover Heinrichs, W. K. McLain and J. W. Marlatt, all our personnel and of Tucson.

Very truly yours,

Walter E. Heinrichs, Jr.

WEH;jh
cc: Mr. Adams (2)
Encl: 1 Extra copy

August 29, 1959

Mr. Robert M. Adams
12th Floor, Fidelity Building
Duluth 2, Minnesota

Dear Mr. Adams:

Metlers are a good small outfit and did a good hurry-up job to get this done and probably need the money. They would appreciate remittance as soon as possible.

Our fees will be nominal and will follow with our report and summary of results, etc. later.

Gila group magnetometer work will start on Monday, August 30, 1959 and will be carried through until completion. We have checked signals with Eldred Wilson's office--he has been out of town incommunicado for about two weeks but his assistant, Dick Moore was up on all details. We have been keeping in touch with Vic and received your letters and attached data of 18 August. Many thanks.

Sincerely yours,

Walter E. Heinrichs, Jr.

WEH:jh

cc: V. H. Verity

LOG OF DIAMOND DRILL CORING

Robert Adams' Fortuna Group

Drill Contractor: Metler Bros.

Visual logging--no petrographic work.

Hole No. DDH-F9-3
From 0' to 92'
Coordinates 200'± N 70E
from DDH-F9-1
Direction: Vertical
Inclination: Vertical
Depth: 92'
Started: 8-22-59
Completed: 8-25-59

	Geology	Core
o.0' Alluvium 16'	Rock bit used to penetrate overburden to 16'. Hole cased to 18'	0.0' 0%
16' Trachite 25'	Porphory--somewhat altered feldspars with some quartz. Probably the trachite of previous reports. Sparse finely x-talline, disseminated pyrite.	9.0' 100%
25' - 35'	Same as above. The rock cored nicely.	10.0' 100%
35' - 45'	Same as above.	9.8' 98%
45' - 51'	Same as above	5.8' 97%
51' - 58'	Fault zone. Crushed trachite and gouge and crushed pyrite.	5.7' 81%
58' - 70'	Trachite as above but more altered with the feldspar kaolinized. Pyrite scarce to absent.	11.5' 96%
70' - 84'	Same as above.	13' 93%
84' - 92'	Same as above.	6.7' 84%
92'	Bottom of hole.	

J. W. M.

HEINRICHS GEOEXPLORATION COMPANY

LOG OF DIAMOND DRILL CORING

Robert Adams' Fortuna Group

Drill Contractor: Metler Bros.

Visual logging--no petrographic work.

Hole No. DDH-F9-3
From 0' to 92'
Coordinates 200' ± N 70E
from DDH-F9-1
Direction: Vertical
Inclination: Vertical
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25' - 35'	Same as above. The rock cored nicely.	10.0' 100%
35' - 45'	Same as above.	9.8' 98%
45' - 51'	Same as above	5.8' 97%
51' - 58'	Fault zone. Crushed trachite and gouge and crushed pyrite.	5.7' 81%
58' - 70'	Trachite as above but more altered with the feldspar kaolinized. Pyrite scarce to absent.	11.5' 96%
70' - 84'	Same as above.	13' 93%
84' - 92'	Same as above.	6.7' 84%
92'	Bottom of hole.	

J. W. M.

HEINRICHS GEOEXPLORATION COMPANY

LOG OF DIAMOND DRILL CORING

Robert Adams' Fortuna Group

Drill Contractor: Metler Bros.

Visual logging--no petrographic work.

Hole No. DDH-F9-3
From 0' to 92'
Coordinates 200' ± N 70E
from DDH-F9-1
Direction: Vertical
Inclination: Vertical
Depth: 92'
Started: 8-22-59
Completed: 8-25-59

	Geology	Core
0.0'- 16' Alluvium	Rock bit used to penetrate overburden to 16'. Hole cased to 18'	0.0' 0%
16'- 25' Trachite	Porphory--somewhat altered feldspars with some quartz. Probably the trachite of previous reports. Sparse finely x-talline, disseminated pyrite.	9.0' 100%
25'- 35'	Same as above. The rock cored nicely.	10.0' 100%
35'- 45'	Same as above.	9.8' 98%
45'- 51'	Same as above	5.8' 97%
51'- 58'	Fault zone. Crushed trachite and gouge and crushed pyrite.	5.7' 81%
58'- 70'	Trachite as above but more altered with the feldspar kaolinized. Pyrite scarce to absent.	11.5' 96%
70'- 84'	Same as above.	13' 93%
84'- 92'	Same as above.	6.7' 84%
92'	Bottom of hole.	

J. W. M.

HEINRICHS GEOEXPLORATION COMPANY

Robert Adams' Fortuna Group
Drill Contractor: Metler Bros.
Visual logging - no petrographic work.

HOLE No. DDH-F9-3
FROM 0' to 70'
ELEVATION
COORDINATES 200'± N 70E from DDH F91
DIRECTION Vertical
INCLINATION Vertical DEPTH 92'
STARTED 8-22-59 COMPLETED 8-25-59

SECTION	COL.	GEOLOGY	SURVEY	% CORE RECOVERED	CORE ASSAYS SECTION	CORE ASSAYS CU.	SLUDGE ASSAYS SECTION	SLUDGE ASSAYS CU.
Alluvium		Rock bit used to penetrate over burden to 16'. Hole cased to 18'.		0.0' 0%				
		16						
Trachite		Porphory - somewhat altered feldspars with some quartz. Probably the [redacted] trachite of previous reports. sparse finely x-talline, disseminated pyrite	BX	9.0' 100%				
		25						
		Same as above. The rock cored nicely.	BX	10.0' 100%				
		35						
		Same as above	BX	9.8' 98%				
		45						
		Same as above	BX	5.8' 97%				
		51						
		Fault zone. Crushed trachite & gouge & crushed pyrite. [redacted]	BX	5.7' 81%				
		58						
		Trachite as above but more altered with the feldspar kaolinized. Pyrite scarce to absent.	BX	11.5' 96%				
		70						

Robert Adams' Fortuna Group
Drill Contractor: Metler Bros.

HOLE No. DDH - F9-3
FROM 70' to 92'
ELEVATION
COORDINATES 200'± N 70E from DDH F9-1
DIRECTION Vertical
INCLINATION Vertical DEPTH 92'
STARTED 8-22-59 COMPLETED 8-25-59

SECTION	COL	GEOLOGY	SURVEY	% CORE RECOVERED	CORE ASSAYS SECTION	CORE ASSAYS CU.	SLUDGE ASSAYS SECTION	SLUDGE ASSAYS CU.
Trachite		70						
		Same as above		13.0'				
			BX					
				93%				
		84						
		Same as above		6.7'				
			BX					
				84%				
		92						