



CONTACT INFORMATION
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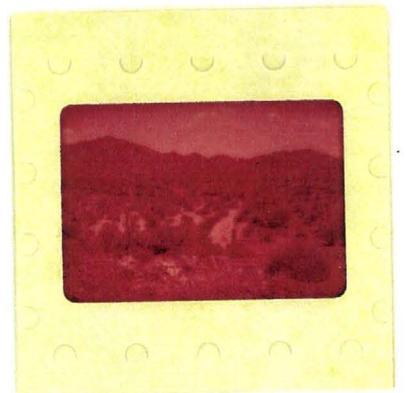
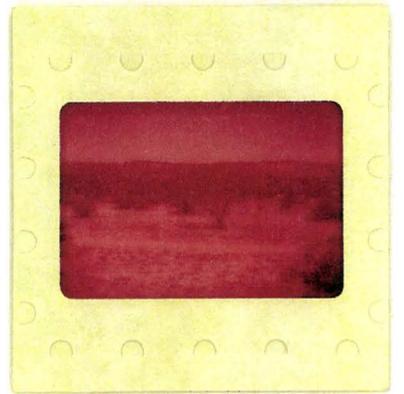
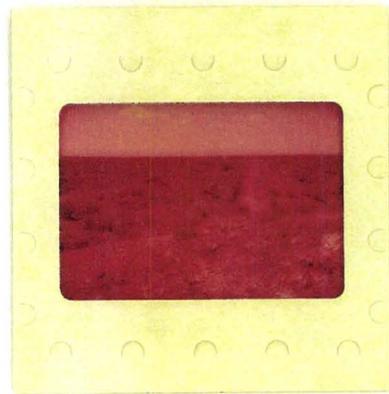
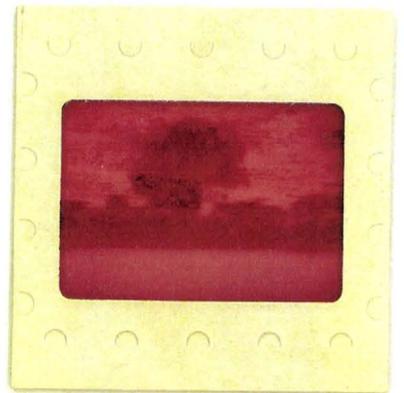
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The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.



May 21, 1959

Mr. Jasper W. Tully
64 Pine Street
San Francisco, California

Dear Mr. Tully:

We were pleased to have been of service to you recently in connection with the North Star Mining prospect.

Although we are not in the business of promoting specific mining properties, we are, naturally, trying to keep our men and equipment at work, and therefore we do occasionally suggest to prospective clients that we can be of assistance in locating for them the type of property or venture in which they may be interested.

We have on file, comprehensive reports and information on many mining areas and prospects in the United States and especially here in the Southwest. Frequently prospectors and mining property owners come to us for help or advice in locating partners, buyers, or financial help for their holdings. We have, further, a growing file of reconnaissance magnetic data obtained by our exclusive, unique and versatile continuous recording truck-mounted magnetometer, which includes many magnetic anomalies completely unknown otherwise. Some of these have potential significance to both the mineral and the oil industries and should be investigated.

Should you be interested along any of the lines mentioned above, let us know what types, with order of magnitude, of properties or ventures you might have in mind and we may be able to offer some suggestions to you. Our interest in doing this would be in the hope of consulting or contract work in connection with an exploration and/or development program.

Sincerely,

HEINRICHS GEOEXPLORATION COMPANY

by:

Walter E. Heinrichs, Jr.
President & General Manager

weh:jh

HEINRICHS GEOEXPLORATION COMPANY
MINERAL ENGINEERING CONSULTANTS AND CONTRACTORS
GEOPHYSICAL, GEOLOGICAL AND ECONOMIC APPRAISALS
TUCSON, ARIZONA

WALTER E. HEINRICHS, JR.
E. GROVER HEINRICHS

PHONE: MAIN 2-4202
806-808 WEST GRANT ROAD
MAIL: P. O. BOX 5671

April 17, 1959

Mr. Jasper W. Tully
64 Pine Street
San Francisco 11, California

Dear Mr. Tully:

This will serve to confirm my phone report of 10 April 1959 and to officially acknowledge both your telegram of 8 April and letter of 10 April.

My written report and statement for services are herewith enclosed. I hope the information and results serve the use desired and also prove of value. Let me know if there are any further questions or comments.

It was a pleasure to be able to do this work for you and we would happily anticipate any future aid or assistance that you might require and that we might be able to provide. Also we would enjoy the opportunity of sometime meeting you in person.

Faithfully,

HEINRICHS GEOEXPLORATION CO.

by:

Walter E. Heinrichs, Jr.
President & General Manager

weh:jh
Encl: 2

cc: M. G. Edwards

April 17, 1959

S T A T E M E N T

To: Mr. Jasper W. Tully
64 Pine Street
San Francisco, 11, California

Re: North Star copper prospect. NW 1/4 of T7S,
R10E Pinal County, Arizona. Clyde Davis and
Dr. Willard C. Lacy.

Professional Services:

4/8/59	Discussions with Clyde Davis-----	N. C.
4/9/59	One day Recon. exam of property and studying maps assays and core-----	\$125.00
4/10/59	One day discussions with Dr. Lacy and Clyde Davis and review of data----	\$125.00
4/13/59	Review of aerial photos & data-----	N. C.
4/14/59	Discussion with John Cloeter, driller.-----	N. C.
4/15/59	Letter and report-----	N. C.
4/16/59	Letter and report-----	N. C.
	Expenses-----	6.83

Total \$256.83

*2 day - full
1 day - bal.*

EXPLORATION PROGRAM

RECONNAISSANCE EVALUATION

NORTH STAR COPPER PROSPECT

NW 1/4, T7S, R10E PINAL COUNTY,

ARIZONA

15 APRIL 1959

NORTH STAR PROSPECT
Pinal County, Arizona

INTRODUCTION

At the request of Mr. Jasper W. Tully of 64 Pine Street, San Francisco 11, California, a review was made of the present status of the prospect and discussions held with the various personnel recently involved. In order to adequately appraise past accomplishments and present plans, a brief examination was made of the property and vicinity, as well as the available cores, maps and assay results.

LOCATION

The NW 1/4 of T7S, R10E, Pinal County, Arizona is the extreme NE portion of the Pichacho Mountains. The area is reached by going about 7 miles west toward the low foot hills from highway 80 and 89 approximately 1 mile north of Tom Mix Wash, or east about 10 miles from highway 87, just south of Pichacho Reservoir between Eloy and Coolidge, through the small pass to the old Paisano Tanks. Currently, the best available public map of the area is the old U.S.G.S. unpublished advance topog sheet of the Redrock Quadrangle by Darton at 1/2 inch to the mile.

CONCLUSIONS AND RECOMMENDATIONS

This prospect represents an interesting long shot risk venture for a low grade type operation, not at all unlike

several other similar undeveloped occurrences in this part of Arizona. As a group, these deposits reveal relatively large zones of fairly extensive -- though tenuous and intermittent mineralization -- of usually submarginal oxide (below 0.5%) copper, on which very little work has been done in the past. This lack of work allows for geologic speculation of what may be hidden under the adjoining pediments and the extensive alluvial margins surrounding or partly covering the mineralized exposures. Speculation is also made concerning the possibility of associated sulfide mineralization and enrichment, or a major source concentration, any of which may be hidden laterally or with depth.

Basically, the only reasonable exploration approach to this type of problem is to follow what little geology can be done by geophysics and/or random drilling and hope for the best. Known factors do not indicate an ideal geophysical application. However, magnetic, electrical, geochemical and gravity methods would at least provide some negative, and perhaps at least, percentagewise assistance to the geologic interpretation. In addition, the electrical and geochemical methods might delineate some valuable unknown factors. Three or four weeks of preliminary geophysics would give a better evaluation of what to expect from a geophysical standpoint.

At the present stage, because of a few past errors and/or discrepancies, Dr. Lacy first recommends some check assays be made on the old work, which was done by a competent chemist, but not a registered assayer. Next, approximately one crew month of geologic reconnaissance and photo geologic mapping.

This to be followed by about 3 or 4 crew months of geophysics and finally at least 8 or 10 more drill holes to a minimum average depth of 500'.

The reason Lacy recently suggested a series of shallow holes before any more deep holes were drilled, was to try and develop information about the sub-alluvial mineral distribution in the "cap rock"--the idea being to first locate the best zone, or sub area, on which to later concentrate deeper work. In lieu of geophysical or any other better leads, this is probably the best procedure.

Outline of a suggested program is as follows:

<u>PHASE</u>	<u>TIME</u>	<u>ESTIMATED COST</u>		
		<u>Max.</u>	<u>Min.</u>	<u>Average</u>
A. Check assays:	1 week	\$150.00	\$300.00	\$225.00
B. (1) Geology & photo recon mapping	6 crew-weeks	\$1,500.00	\$3,000.00	\$2,250.00
(2) Preliminary geophysics	4 crew-weeks	\$3,000.00	\$6,000.00	\$4,500.00
C. Geophysics	15 crew-weeks	\$10,000.00	\$20,000.00	\$15,000.00
D. Drilling	18 crew-weeks	\$50,000.00	\$100,000.00	\$75,000.00
TOTAL:	43 crew-weeks	\$63,650.00	\$129,300.00	\$96,975.00

Initial effort should be concentrated along the NW-SE mineralized trend in an area of approximately 9 square miles centered around sections 7, 8, 16, & 17. Both this and the related scope of effort and priority of each phase would be subject to adjustment based on results as accrued. If favorable

results were obtained from this program, continued exploration would mostly involve additional drilling to block out ore and possibly some more geophysics and mapping. Eventually a study of mining feasibility and methods and finally development would be required. At present, open pit mining would be the most desirable method, underground block caving second, and in-place oxide leaching a third possible consideration. The latter method has not been used very much, but research the last few years has provided improved technology and inferred promise of more successful future applications.

Over all, such a program would take a minimum of 3 years to bring to substantial or permanent production, but a better average time would be 5 years. On a crash basis, time factors could be reduced by 1/3 to 1/2 with a proportionate increase in total cost.

In general, I concur with this approach, however, before a final decision was made to go ahead, if not already done, I would insist that a detailed analysis be made of all outstanding agreements on the property, especially those between Davis et al, and Randall, and any others that may be involved. It would also be advisable to review the land status of all claim holdings, leases, etc., from the aspect of preliminary title validity. This would only cost about \$600.00 and would be good insurance before any sizeable investment was made.

For the most part, Davis' approach is reasonably conscientious though possibly somewhat over optimistic. Lacy's attitude is more conservative and practical. Personally, I would not

recommend any program in the area under Davis' sole direction without the continued benefit of Lacy's (or someone similar) constant advice and assistance.

PRESENT SITUATION

Mr. Clyde Davis obtained rights to the area under contract a year or two ago from a prospector named Randall. Davis' backing apparently has come from an eastern construction contractor named Lane who has supported most, if not all, the expenditures made to date, including the eight drill holes and location of the 180 unpatented claims. Somehow, Davis does not seem especially trained or experienced in mineral exploration, but he seems to have developed a conscientious interest and some recent practical background, in mining geology and prospecting. He is currently enrolled at the University of Arizona working on additional geological training.

Dr Lacy was called in for purely paid consulting advice by Davis and, according to both of them, has no other interest in the property whatsoever. Lacy is thoroughly experienced and well respected professionally. The only possible trace of academic leanings is his statement about the area: "Where there's a lot of smoke, there must be some fire somewhere". In some respects, this is damming with faint praise, but after all, there isn't much else favorable that can be said at this point.

The old shafts and numerous pits, trenches, etc., in the more heavily mineralized outcrop zone only serve to indicate the nature of the near surface mineralization. The work so far, has revealed only minor marginal copper oxide. The more recent

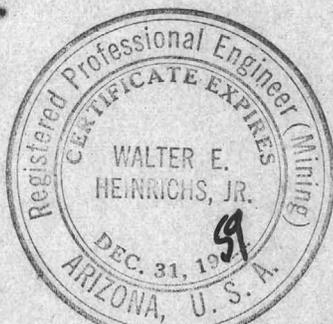
drilling does, however, suggest a SE trend and therefore also some persistence to the mineralization--at least in that direction. Except for exploring this situation, past drilling has been more or less random.

GEOLOGY

Rocks observed in the area are mostly old granites, some younger intrusive igneous rocks, and probably some gneisses, schists and more recent volcanic flows. Most of the important Arizona copper production has not come from exclusively this type of environment, however, there are significant exceptions to this rule, Jerome mining area being a prime example. In addition, the exposed picture is undoubtedly not the whole answer.

The prominent mineralization is exposed as several small red hills or knolls rather thoroughly stained with limonite and hematite. Copper indications are concentrated as thin intermittent parallel slips and fissures of oxide with a very few blebs of sulfide. This zone strikes NW-SE with a general 45° dip to the southwest. Leaching has been sparse and the original sulfide content appears low. The rest of the area appears to be a pediment covered with alluvium, a lot of which is probably less than 400' thick.

Tucson, Arizona
16 April 1959



Respectfully submitted,
HEINRICHS GEOEXPLORATION CO.

by Walter E. Heinrichs, Jr.
Walter E. Heinrichs, Jr. Reg. Eng.
President & General Manager
HEINRICHS GEOEXPLORATION COMPANY

RESERVE OIL AND GAS COMPANY

NOTICE OF CHANGE OF ADDRESS OF EXECUTIVE OFFICES

■ THE EXECUTIVE OFFICES of Reserve Oil and Gas Company are now at the following address:

550 SOUTH FLOWER STREET

LOS ANGELES, CALIFORNIA 90017

TELEPHONE: MADISON 6-4108

■ MR. JOHN R. MCMILLAN, President, and Mr. Harold F. Green, Vice President and Secretary, are located at the Los Angeles office.

■ THE GENERAL OFFICES of the company will continue at 64 Pine Street, San Francisco, California 94111 and Mr. Jasper W. Tully, Chairman of the Board of Directors, will remain in San Francisco.

■ THE ACCOUNTING DEPARTMENT AND THE LAND DEPARTMENT will remain at 64 Pine Street, San Francisco 94111.

■ THE WESTERN DIVISION operations office will continue at Route 2, Box 434, Bakersfield, California 93302.

■ THE MID-CONTINENT DIVISION operations office is located at 1700 Fidelity Union Tower, Dallas, Texas 75201.



Jasper W. Tully

64 PINE STREET
San Francisco 11

RECEIVED MAY 27 1959

May 26, 1959

Mr. Walter E. Heinrichs, Jr.
President and General Manager
Heinrichs Geoeexploration Company
P. O. Box 5671
Tucson, Arizona

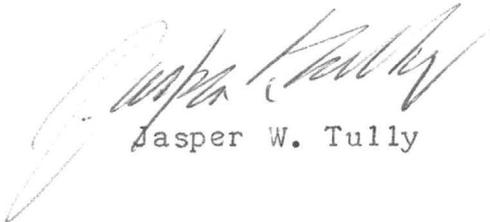
Dear Mr. Heinrichs:

I had expected to be in Tucson before this and to call on you while there. However, I have been detained in San Francisco so I now write to thank you for your letter of May 21, outlining the various services conducted by your firm.

In due course I should like to sit down and discuss various matters with you over the course of an hour or two. With that in mind, before leaving San Francisco for Tucson I shall wire or phone you in advance in order that our times will coincide.

With kind regards, I am

Very truly yours,


Jasper W. Tully

Jasper W. Tully

64 PINE STREET

San Francisco 11

RECEIVED APR 22 1959

April 20, 1959

Mr. Walter E. Heinrichs, Jr.
President and General Manager
Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

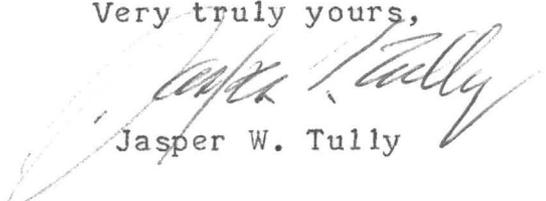
Dear Mr. Heinrichs:

I am grateful to you for the time and trouble you took inspecting and analyzing the North Star copper prospect owned by Mr. Clyde Davis.

Your written report confirmed those things you had told me over the telephone, amplifying matters so that I have been able to reflect and cogitate over the weekend. I am happy to enclose herewith my check #8665 in the amount of \$256.83, in payment of the statement you sent me. I must say that I found your charge very reasonable. I shall look forward to seeing you in person on my next trip to Tucson.

In the meantime, with kind regards, I am

Very truly yours,


Jasper W. Tully

enclosure - check #8665

Jasper W. Tully

64 PINE STREET
San Francisco 11

RECEIVED APR 11 1959

April 10, 1959

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

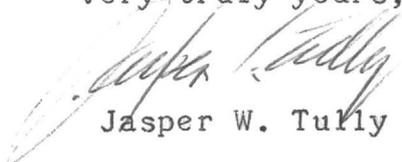
Dear Mr. Heinrichs:

I trust that my telegram from Los Angeles reached you in due course. I can't send you a carbon copy of it because I wrote it in longhand from the Biltmore Hotel and unfortunately the carbon paper was reversed; not a very efficient way of doing business!

In any event I was happy to receive word that you would undertake conversations with Mr. Clyde Davis and Dr. Lacey on my behalf, and would in due course give me your reactions to their approach to their prospect. Of course, I shall be happy to receive your statement of costs and expenses and to pay you for your services.

In the meantime thanks to you, and to Mr. Guy Edwards for suggesting that I get in touch with you.

Very truly yours,


Jasper W. Tully

cc: Mr. M. Guy Edwards

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

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

1201

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

RECEIVED APR 10 1959

LA566

1959 APR 8 PM 10 31

BMA063 NL PD=BM LOS ANGELES CALIF 8=
 WALTER E HEINRICHS JR=
 MAIN 2-4202 TUCSON ARIZ=

PO Box 5671

826 to mail

Ma 24202

CONFIRMING OUR TELEPHONE CONVERSATION I SHALL APPRECIATE RECEIVING FROM YOU AN EVALUATION OR RECONAISSANCE REPORT RESPECTING PLANS AND COSTS OF PROGRAM OF MR CLYDE DAVIS AND DR LACEY RE NORTH STAR PROSPECT NEAR FLORENCE ARIZONA PLEASE BILL ME PERSONALLY AT 64 PINE ST SAN FRANCISCO FOR YOUR CHARGES IN THIS CONNECTION WHICH I SHALL BE HAPPY TO PAY MANY THANKS=

JASPER W TULLY=

Op 733

Madison

41011

Mr Tully

Room 7225

Biltmore

Los Angeles

Mr. Tully

Confirming our phone
I shall appreciate
receiving from you ⁹⁴ evaluation
or reconnaissance report respecting
plans & cost of program
of Dr. Clyde Davis & Dr. Tracy

Re. North Star

near Florence Aziz

please Bill me
personally 64 Pine St.

S. F. Calif. for

charges in this connection
which I shall be happy

to pay many thanks

Jasper Tully

New Folder:

Tulley, Jasper W.
Pres. Reserve Oil & Gas Co.

Talk with Davis & Lacy.

Jasper W. Tulley, 68 yrs. old

64 Pine St.

S.F. 11, Cal.

Pres. Reserve Oil & Gas Co.

Leverage:

Davis' phone No: 1 Main 3-8814.

" 3-3341 - 9:30 AM.

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Pat Lane.

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5000	10	2250
50,000		45,000

4/8/59

Jasper Tulley, Oil
Los Angeles. EA 6-4019.

Guy Edwards.

Friend in oil came from

Clide Davis Mgr. S.W. Mining Co. Dr. Lang's MFA etc.

N. Star Project.

3000 Acres, 180 claims.

Russell orig owner. Ag. & Cu. Small shipments
to Chicago etc.

Dike 1500' wide x 1/2 mile projected

2 1/2 miles to S.E.

Some 6 core holes. 0.5% ± Ca. 750' Max 250'-400' - av depth of
hole or depth of AI?

No. Enrichment, or property known.

Mormon etc 2 hrs. Visit in Sept.

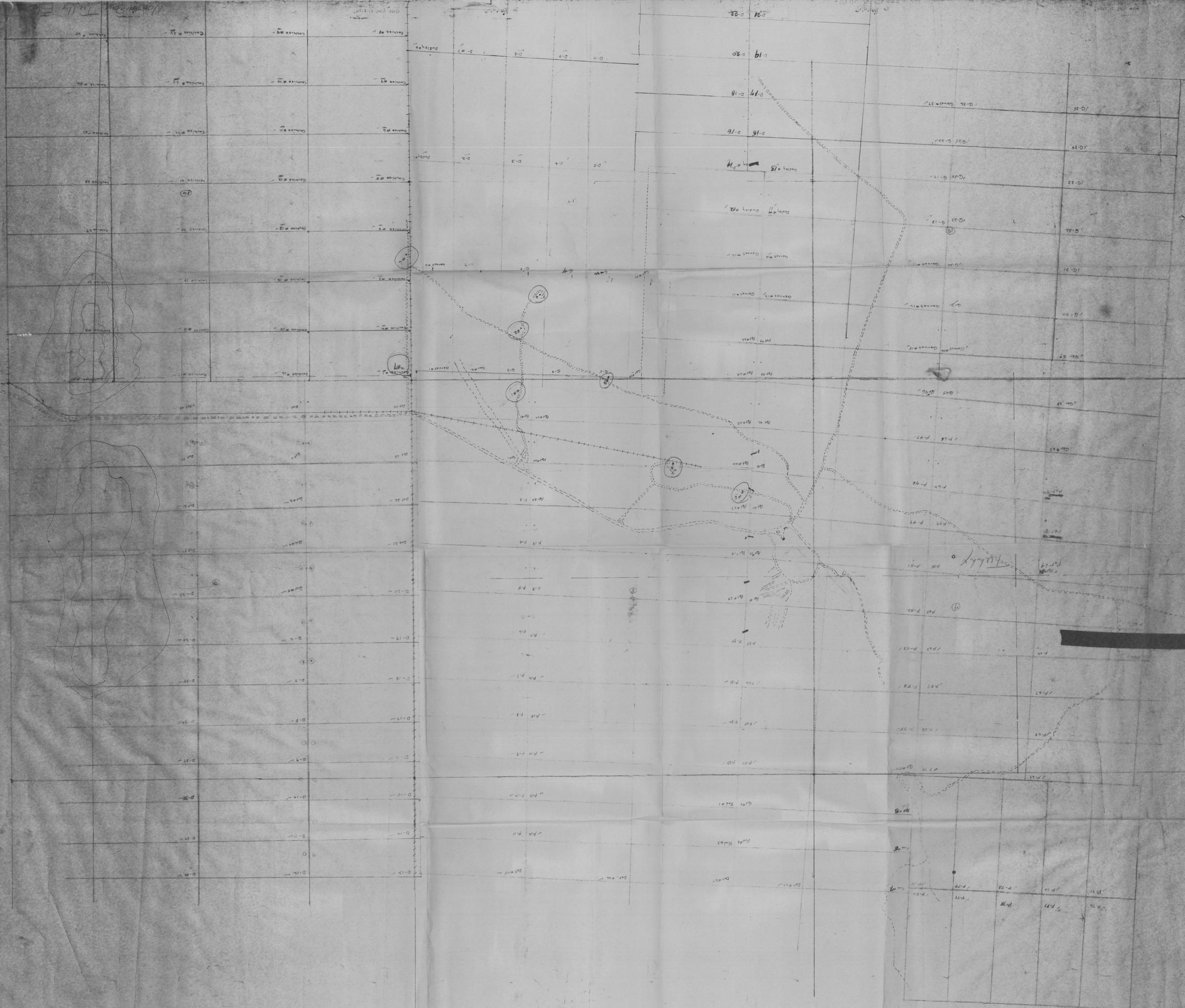
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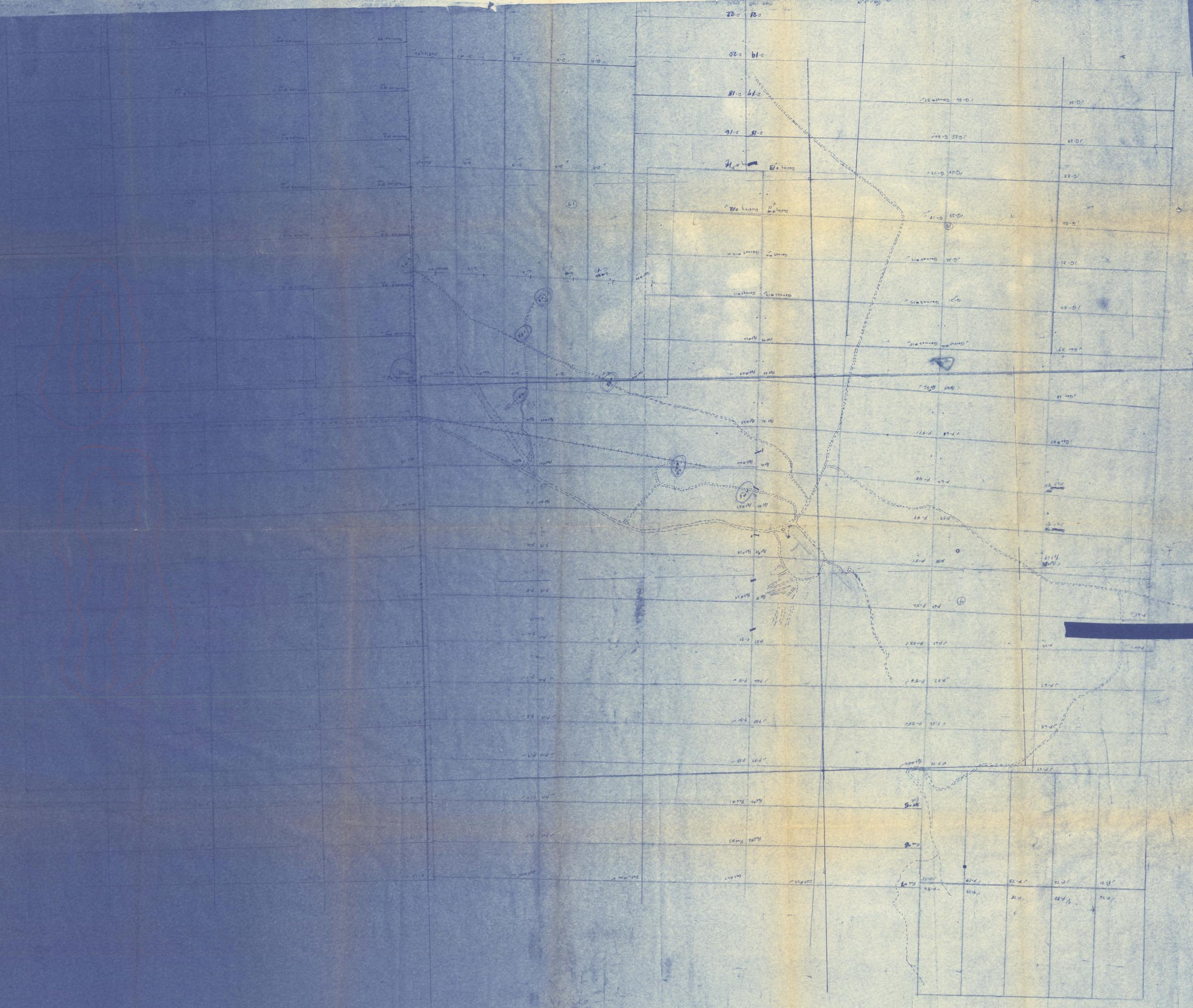
800'-12-1300'

Lang: Step A.

Shallow ones.

now: Block covering?





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