700

FILE COPY
Surname:
Murphy
Young
Rathbone
Selledge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

JUL 2 - 1956

Mr. Sam V. Williams
Portola, California

Re: Docket No. DMEA-4085 (Uranium)
Sam V. Williams, et al.
Blackeye and Chalk Mt. Claims
Plumas County, California

Dear Mr. Williams:

Reference is made to your application for Government aid in an exploration project on the above-named claims.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting some minor uranium mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation in an exploration program. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

G. O. Mittendorf

Administrator

FMMurphy/izm 6-18-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Reg. II (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

6/28/56

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUN 28 1956

June 27, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 4085, Sam V. Williams, et al., Blackeye and Chalk Mountain claims, Plumas County, California

I have reviewed the report of examination, DMEA Docket 4085, Sam V. Williams, et al., Blackeye and Chalk Mountain claims, Plumas County, Calif., dated June 6 and received in this office June 15, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The field examiners recommend that the application be denied because no ore structure was found on the subject property and no ore was indicated by sampling.

We concur in the denial.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford
John E. Crawford

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JUN 28 1956

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From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

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We concur in the denial.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

6/22/56.
ae

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1956

June 22, 1956

Re: DMEA 4085
Sam V. Williams, et al.
Blackeye and Chalk Mountain claims
Plumas Co., Calif.
$14,343.18 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in testing by drilling an area underlain by porous slightly radioactive rhyolitic tuff. The applicants believed the radioactive mineral would increase with depth and the drilling would locate a zone of ore grade material.

The examiners found an area 100 x 300 feet in which the radioactivity is higher than background, but not of ore grade. They conclude the porosity and fractures permitted diffusion of the uraniferous minerals, but do not accept the theory of secondary enrichment at depth.

A sample taken by the examiners assayed 0.01% eU_3O_8 and 0.02% cU_3O_8. The sample was taken in a trench, one of the 2 points of relatively high radioactivity.

The examiners and the Field Team recommend denial of the application. I concur with that recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1956

June 22, 1956

Re: DMEA 4085
Sam V. Williams, et al.
Blackeye and Chalk Mountain claims
Plumas Co., Calif.
814,343.18 - Uranium

Memorandum

To: E. A. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

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The examiners and the Field Team recommend denial of the application. I concur with that recommendation.

N. E. Nelson

NENelson:btr
G 6/22/56
cc: J. E. Crawford, 3641
J. O. Nested, 3210
Director's reading file (4212) N. E. Nelson
Branch reading file
DMEA(3)
Chron. file
Docket file

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1956

June 22, 1956

Re: DMEA 4085
Sam V. Williams, et al.
Blackeye and Chalk Mountain claims
Plumas Co., Calif.
$14,343.18 - Uranium

Memorandum

To: R. . Ellis, Defense Minerals Exploration Administration

From: N. . Nelson, U. . Geological Survey

Subject: Review of Field Team report.

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A sample taken by the examiners assayed 0.01% eU_3O_8 and 0.02% eU_3O_8. The sample was taken in a trench, one of the 2 points of relatively high radioactivity.

The examiners and the Field Team recommend denial of the application. I concur with that recommendation.

N. S. Nelson

NSNelson:btr
6/22/56
cc: J. S. Crawford, 3641
J. O. Hosted, 3210
Director's reading file (4212)
Branch reading file
DMEA(3)
Chron.file
Docket file

IN REPLY REFER TO:

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

RECEIVED
JUN 2 2 1956

June 22, 1956

Re: [illegible] 4085
[illegible] Williams, et al.
Blackeye and Chalk Mountain claims
[illegible]lumas Co., Calif.
[illegible]14,343.18 - Uranium

Memorandum

To: [illegible]. [illegible] Ellis, Defense Minerals Exploration Administration

From: R. [illegible] Nelson, U. [illegible] Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in testing by drilling an area underlain by porous slightly radioactive rhyolitic tuff. The applicants believed the radioactive mineral would increase with depth and the drilling would locate a zone of ore grade material.

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The examiners and the Field Team recommend denial of the application. I concur with that recommendation.

R. E. Nelson

N. Nelson:btr
6/22/56
cc: J. [illegible]. Crawford, 3641
J. O. Hunted, 3210
Director's reading file (4212) [illegible]. Nelson
Branch reading file
[illegible](3)
Chron. file
Docket file

Docket Copy

700

Murphy
Ellis

Summary of Proposed Project

June 18, 1956

Object: Denial of application for exploration aid.

Docket No.: DMEA-4085

Commodity: Uranium

Applicants: S. V. Williams, J. W. Johnson, R. Cordova, and H. A. Harper, a partnership.
Portola, California

Property: 4 claims, the Blackeye Nos. 1 and 2, and Chalk Mountain Nos. 1 and 2, situated in secs. 21, 22, 28 and 29, T. 24 N., R. 16 E., M.D.B.M., Plumas County, California

Amount of Application: $14,343.08

Date of Application: November 23, 1955

Referred to Region II: December 14, 1955

Field Examination made: April 26, 1956

Field Team Report received: June 11, 1956

Work Proposed: 10 or 12 core drill holes totaling about 4,000 feet of drilling.

Estimated Costs:

Drilling machinery and equipment	$6,291.15	
Operating supplies	1,250.00	
Operating labor	4,750.00	
Miscellaneous, assays, etc.	950.00	
Payroll taxes	489.25	
Contingencies	2,390.53	
TOTAL		$16,120.93
Less salvage value of machinery, etc.		$ 1,777.85
TOTAL		$14,343.08

Excerpts from Field Team Report:

> The claims are underlain by a 300-foot thick section of mid-Tertiary rhyolitic tuff which is very porous and is cut by faults and minor fractures that allowed circulation of uranium-bearing fluids, probably groundwater. The permeability presumably permitted diffusion of the uraniferous minerals rather than concentration of them.

Outcrop samples taken in one of the two bulldozer trenches on the property assayed 0.01 and 0.02 e-U_3O_8. The samples were taken at a point where the highest radioactivity was recorded. A picked sample submitted by the Applicant from a prospect pit at the other point of high radioactivity assayed 0.16 and 0.21 e-U_3O_8. The pit was filled with water at the time of examination and no facilities were available for pumping it out.

The examiners state that an area 300 feet long, 100 feet wide, and 50 feet deep might possibly contain 85,000 tons of material containing 0.01 to 0.1 percent U_3O_8. However, no ore structure was found, and no ore was indicated by their samples.

The Field Team recommend the application be denied.

Commodity Members' Comments:

U. S. Geological Survey, N. E. Nelson, June 22, 1956

Mr. Nelson summarized the field examiners' report and concurs in Field Team's recommendation of denial.

U. S. Bureau of Mines, G. E. Crawford, June 27, 1956

Mr. Crawford notes the field examiners recommend that the application be denied because no ore structure was found on the subject property and no ore was indicated by sampling.

Mr. Crawford concurs in the recommendation to deny the application.

Rare and Miscellaneous Metals Division, F. M. Murphy, June 29, 1956.

The Field examiners report indicates that a sub-commercial deposit of uranium-bearing rhyolitic tuff occurs on the subject property. However, as no structural traps could be inferred there is no target for a drilling program.

Conclusion and Recommendation

This Division concurs in the Field Team's recommendation to deny the subject application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

R m Ea 6-18-56

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1605 Evans Avenue
Reno, Nevada

June 8, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Acting Executive Officer, DMEA Field Team, Reg. II

Subject: Docket No. DMEA-4085 (Uranium)
Sam V. Williams, et al
Blackeye and Chalk Mountain claims
Plumas County, California

Reference is made to your letter of December 14, 1955 requesting a field examination of the subject property.

Attached are four copies of a report by Walter Bank, Bureau of Mines and Robert G. Reeves, Geological Survey, in which it is recommended that the application for Government assistance be denied.

Mr. S. Ricker and I concur with their recommendations.

Roscoe M Smith

Roscoe M. Smith

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
6-15-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4085 (uranium)
Sam V. Williams, et al.
Blackeye and Chalk Mountain claims
Plumas County, California

by

Walter Bank
U. S. Bureau of Mines

Robert G. Reeves
U. S. Geological Survey

June 6, 1956

Reviewed by
DMEA OPERATING COMMITTEE
6-15-56
(date)

Messrs. Sam V. Williams, Jas. W. Johnson, Remigio Cordova, and Harry A. Harper, partners, applied to the Defense Minerals Exploration Administration for Government assistance to explore the Blackeye and Chalk Mountain groups of claims for uranium. These claims were examined on April 26, 1956 by Walter Bank, U. S. Bureau of Mines, and Robert G. Reeves, U. S. Geological Survey, accompanied by Messrs. Williams, Johnson, and Harper.

Radioactivity from slightly above background to 0.048 mr/hr above background was detected in rhyolite tuff over an area several hundred feet long and 100 feet wide. No ore structure was found, and no ore was indicated by the samples. It is recommended that the application be denied.

The property consists of the Blackeye (Vol. 34, p. 53 A), Blackeye No. 2 (Vol. 34, p. 106), Chalk Mountain (Vol. 33, p. 327), and Chalk Mountain No. 2 (Vol. 34, p. 104) claims, recorded in the Plumas County Courthouse, Quincy, California. The claims are owned by the applicant partners. They are about 8 miles north of Chilcoot, California (fig. 1), in secs. 21, 22, 28, and 29, T. 24 N., R. 16 E., M.D.B.&M., and are readily accessible except during winter months by Forest Service Road.

The claims are underlain by a 300-foot thick section of mid-Tertiary rhyolitic tuff which is very porous and is cut by faults and minor fractures that allowed circulation of uranium-bearing fluids, probably groundwater. The permeability presumably permitted diffusion of the uraniferous minerals rather than concentration of them.

One outcrop sample (B-2) was taken at one of the two points of highest radioactivity (fig. 2). It assayed 0.01 eU_3O_8 and 0.02 cU_3O_8. A picked sample submitted by the applicant from the prospect pit at the other point of highest radioactivity assayed 0.16 percent eU_3O_8 and 0.21 percent U_3O_8 by chemical methods. The pit was filled with water at the time of the examination and no facilities were available for pumping it out.

There are no measured, indicated, or inferred ore reserves but 85,000 tons of material in an area 300 feet long, 100 feet wide, and 50 feet deep and containing 0.01 to 0.1 percent U_3O_8 may be inferred. This is the limit of the area of intensity above 0.04 mr/hr.

The applicant proposed to explore the property by 4,000 feet of core drilling in 10 to 12 holes, each 300 to 400 feet deep. As no ore is inferred, and no zone of even moderately high radioactivity is known, no suitable exploration target exists.

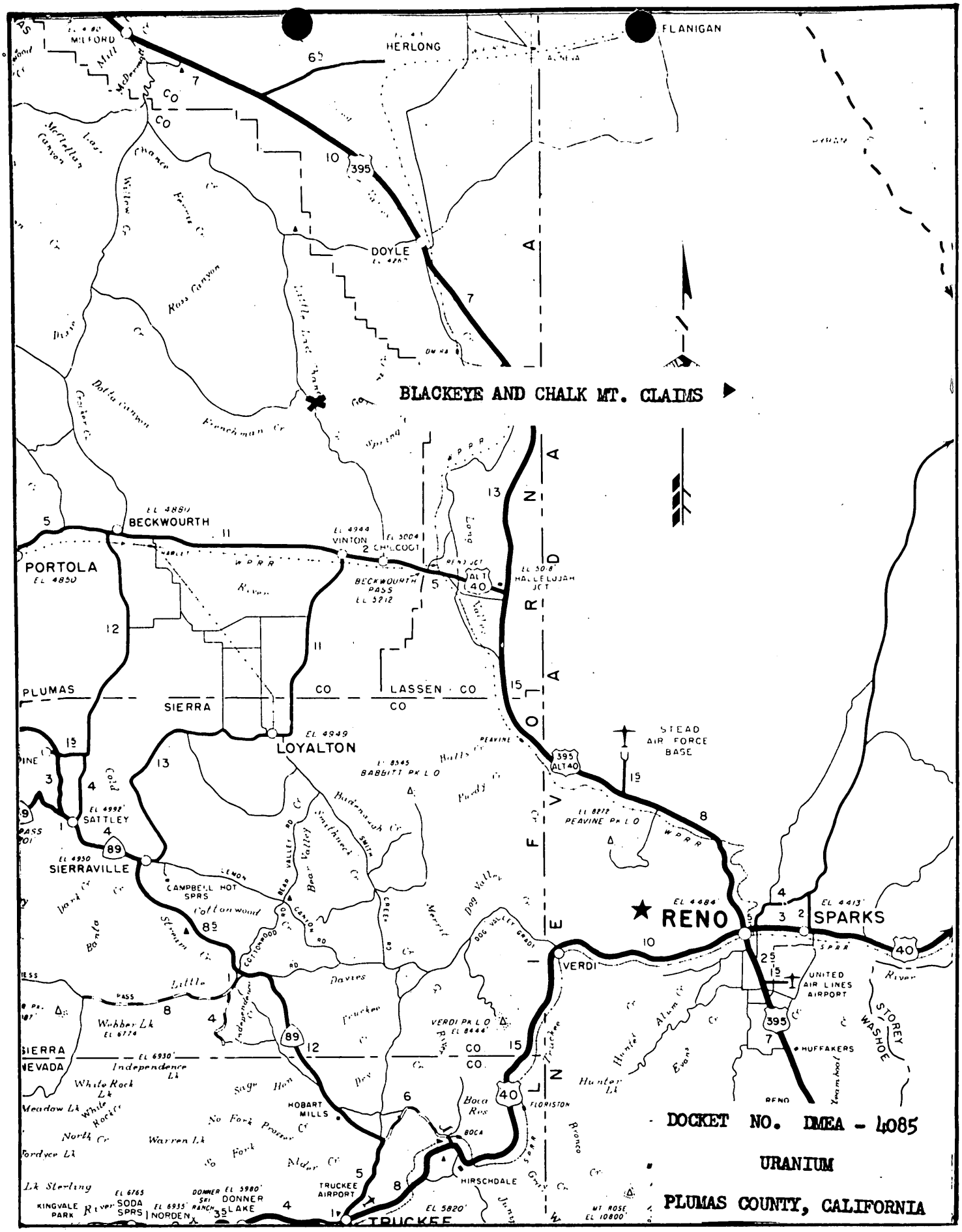


FIG. 1 LOCATION MAP

United States Department of the Interior
Geological Survey

OMEA 4085
(Uranium)

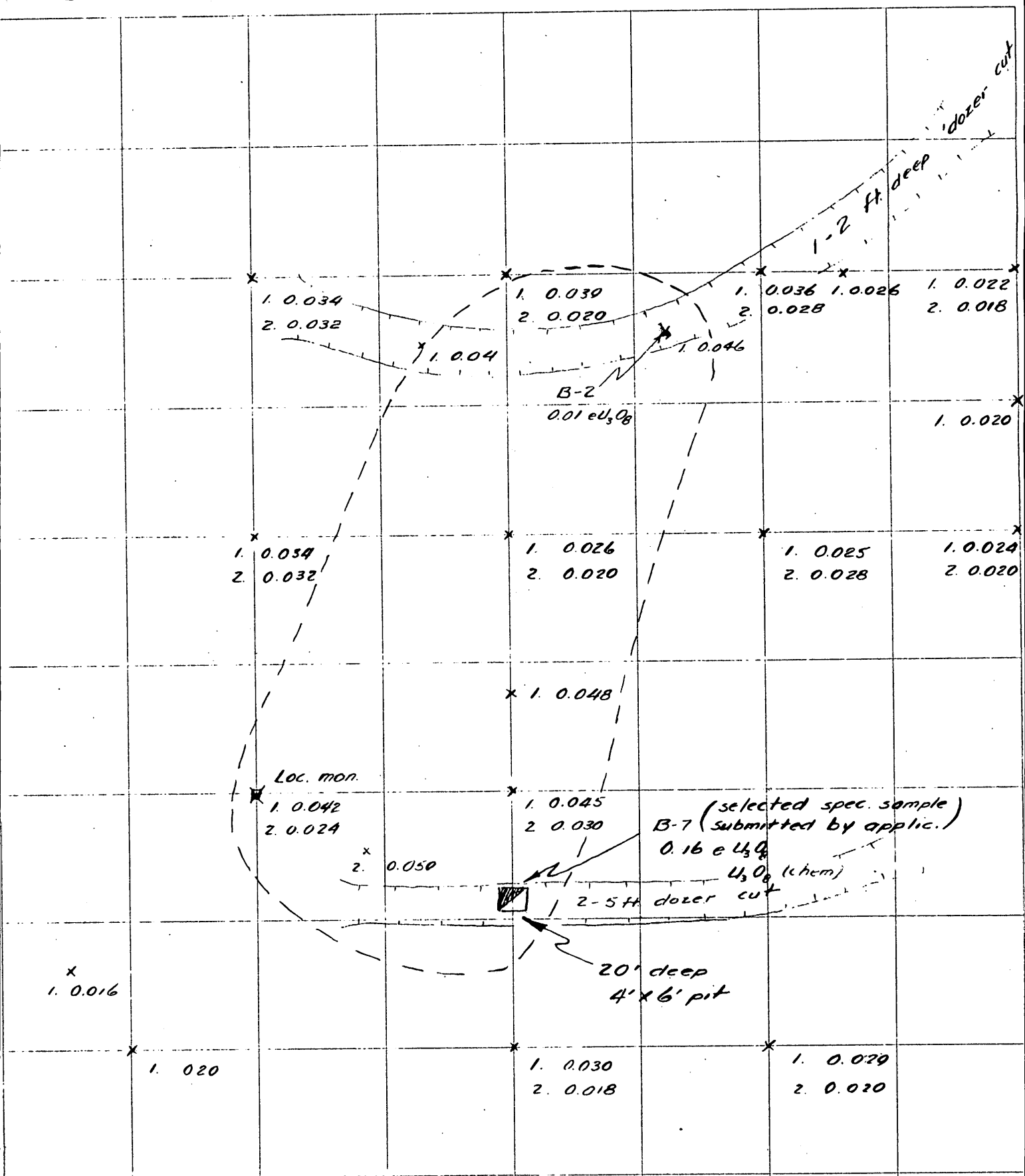


Fig 2 Radioactivity intensity at Blackeye No. 1 Claim

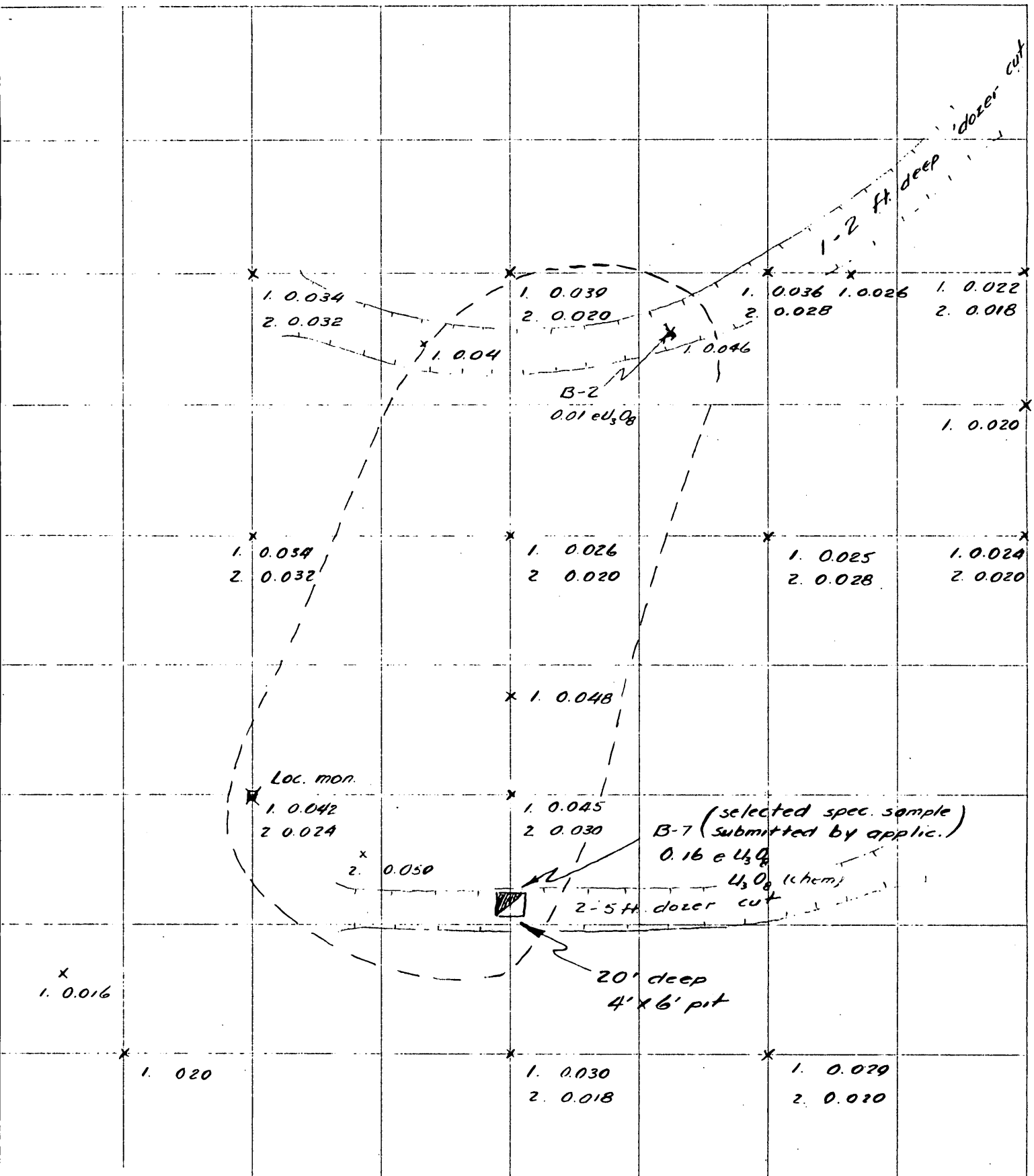
× 1. 0.045 U.S.G.S.-AEC Reading, mi/hr

× 2 0.024 Applicants reading, converted to mi/hr

— — Outline of area of over 0.04 mi/hr intensity (USGS-AEC readings)

United States Department of the Interior
Geological Survey

OMEA 4085
(Uranium)



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6/11/56 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1605 Evans Avenue
Reno, Nevada

June 8, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Acting Executive Officer, DMEA Field Team, Reg. II

Subject: Docket No. DMEA-4085 (Uranium)
Sam V. Williams, et al
Blackeye and Chalk Mountain claims
Plumas County, California

Reference is made to your letter of December 14, 1955 requesting a field examination of the subject property.

Attached are four copies of a report by Walter Bank, Bureau of Mines and Robert G. Reeves, Geological Survey, in which it is recommended that the application for Government assistance be denied.

Mr. S. Ricker and I concur with their recommendations.

Roscoe M. Smith

Attach.

RMSmith:gh
cc: R. M. Smith
File

Reviewed by
DMEA OPERATING COMMITTEE
6-15-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4085 (uranium)
Sam V. Williams, et al.
Blackeye and Chalk Mountain claims
Plumas County, California

by

Walter Bank
U. S. Bureau of Mines

Robert G. Reeves
U. S. Geological Survey

June 6, 1956

Reviewed by
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6-15-56
(date)

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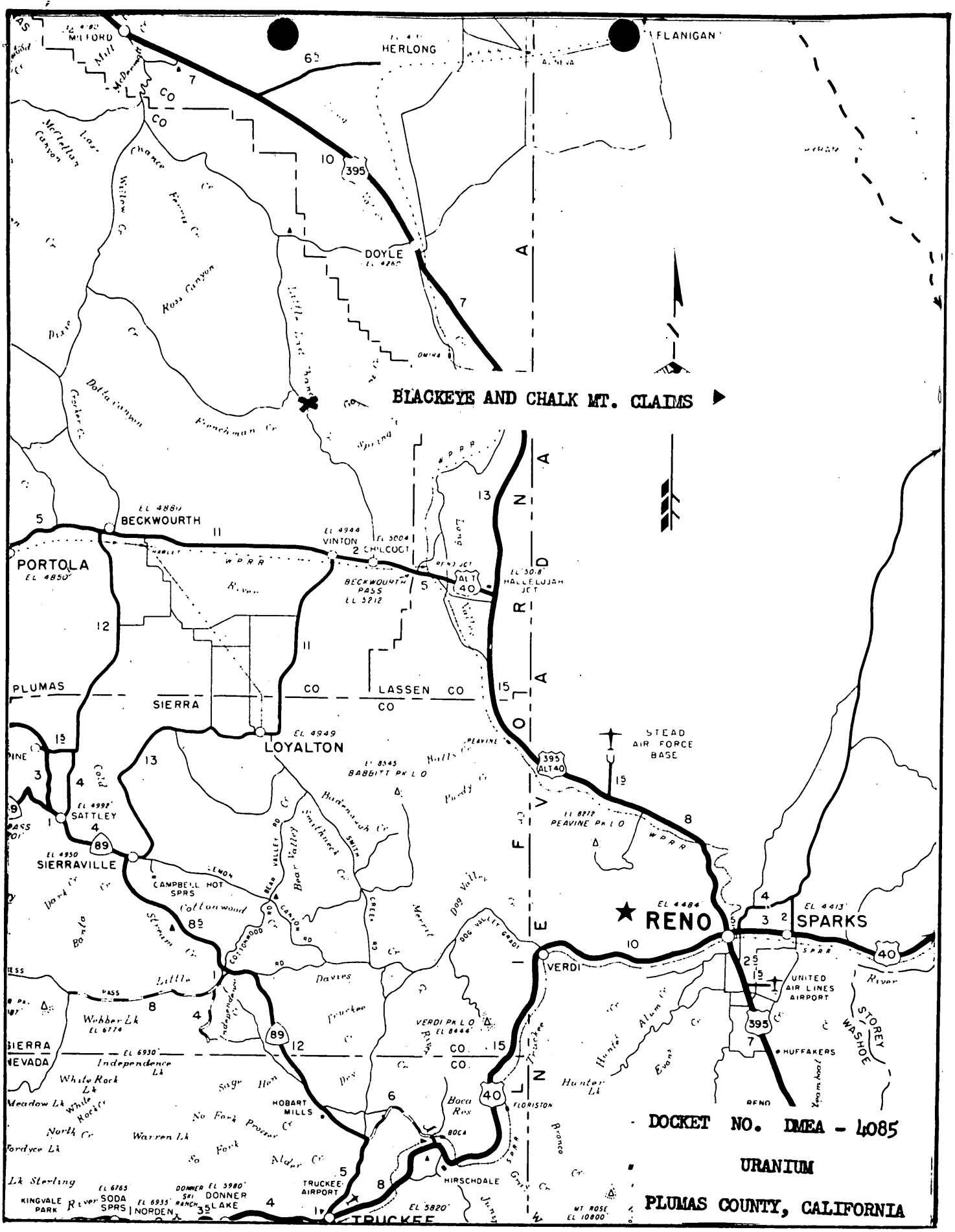

FIG. 1 LOCATION MAP

United States Department of the Interior
Geological Survey

OMEA 4085
(Uranium)

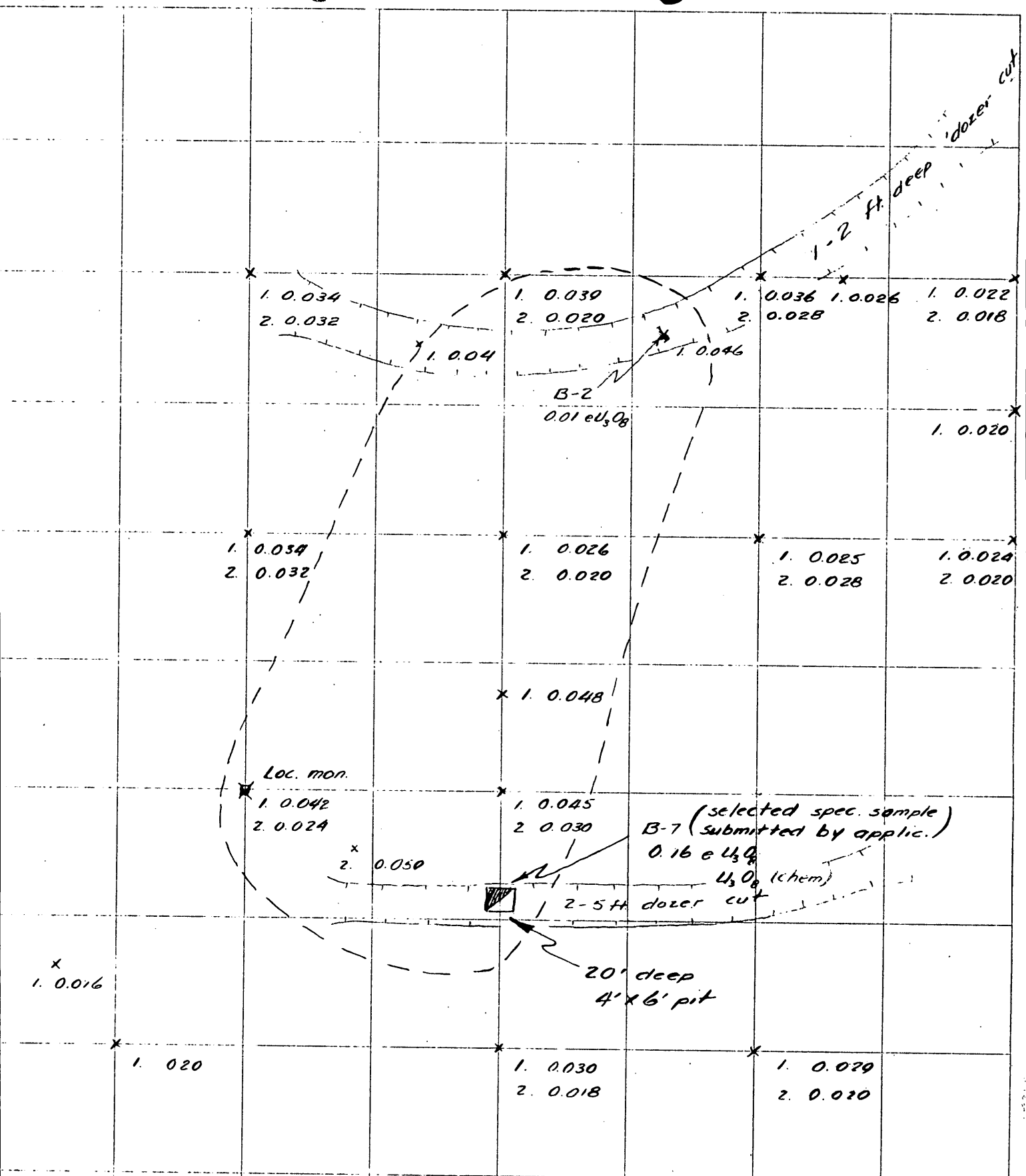

Fig 2 Radioactivity intensity at Blackeye No 1 Claim

× 1. 0.045 U.S.G.S.-AEC Reading, mi/hr

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— — Outline of area of over 0.04 mi/hr intensity (USGS-AEC readings)

Surname copy

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Murphy
Ellis
Kilgoard
Guhen
Selfridge
Eglman

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

DEC 14 1955

Mr. Sam V. Williams
Portola, California

Re: Docket No. DMEA-1085 (Uranium)
Sam V. Williams, et al.
Blackhawk and Chalk Mt. claims
Plumas County, California

Dear Mr. Williams:

The application for assistance in exploring the subject claims in Plumas County, California, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region II at the following address:

Mr. Spangler Richer
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Wirendorf
(Eyest)
Administrator

FMMurphy/gla
12-13-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region II (2)

R.C.S.

urname copy

700

Murphy
Selfridge
Fleming

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Spangler Rieker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

DEC 14 1955

Re: Docket No. DMEA-4085 (Uranium)
Sam V. Williams, et al.
Blackeye and Chalk Mt. claims
Fresno County, California

Dear Mr. Rieker:

The captioned application is referred to Region II Field Team for investigation, a field examination if deemed advisable, and recommendation. A copy of the application was retained by your office.

Enclosed are copies of memoranda, dated December 8 and 9, 1955, by H. E. Nelson, USGS, and J. E. Crawford, USBM, respectively, relating to the subject application.

You will note that the reviewers here in Washington have been unable to interpret and coordinate the data submitted by the applicant to demonstrate the potential value of radioactivity on the subject claims.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JVB)

Enclosures

APPROVED:

/s/ Robert W. Geehan (JVB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JVB)
Member, Geological Survey

FMMurphy/gla
12-13-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy

R.P.4.

12/12/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
DEC 12 1955

December 9, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA Docket 4085, Sam V. Williams et al, Blackeye and Chalk Mt. claims, Plumas County, California

I have reviewed the attached application of Sam V. Williams et al, DMEA Docket 4085, dated November 23 and received in this office December 7. I have also discussed it with Jack Kratchman, Washington representative of the Atomic Energy Commission.

The applicant proposes to explore for uranium on the Blackeye and Chalk Mt. claims located along Little Last Chance Creek in Plumas County, California. The project would consist of core drilling 10 to 12 holes for a total of 4,000 feet, at an overall cost of $14,343,18.

Radiometric surveys of the property were made with a scintillation counter and a series of jackhammer holes were sunk, as a result of which it is reported that radioactive material was discovered. A radiometric anomaly grid map is supplied with the report, as well as a spectrographic analysis of material from one hand-drilled hole.

It is difficult, if not impossible,, to interpret from uncorrelated counter readings the amount of uranium present in such material. Our opinion would be that the radioactivity is low. The spectrographic analysis enclosed is valueless, and the AEC representative points out that little uranium-bearing material of any significance is known to occur in the Plumas County area.

We suggest that the application be denied for lack of sufficient evidence that uranium mineralization of interest actually occurs on the subject property.

John E. Crawford

John E. Crawford

Attachment

12/9/55 gla

IN REPLY REFER TO:

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

RECEIVED
DEC - 9 1955

December 8, 1955

Re: DMEA 4085
Sam V. Williams & partners
Chalk Mountain claims
Plumas Co., California
$14,343.18 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicants request aid in further testing by drilling a bed of porous rhyolite tuff. The tuff is considered a possible "blotter" for secondary uranium minerals originating in weathered and eroded uranium-bearing quartz veins higher on the mountain.

In support of the application a plat of the Black Eye No. 1 claim is furnished. The meanings of the figures as recorded are not clear. The same applies to the second map. Better explanations are needed.

The proposed drilling would amount to 4,000 feet of hole and the cost is estimated as:--

Drilling machine, and equipment	$ 6,291.15
Operating supplies	1,250.00
Operating labor	4,750.00
Miscellaneous, assays, etc.	950.00
Insurance, etc.	489.25
	$13,730.40
Less salvage value machine, etc.	1,777.85
	$11,952.65
Contingencies 20%	2,390.53
Net cost	$14,343.18

Granted that the readings of the scintillator survey are representative of surface and near-surface mineralization, whose magnitude I have not guessed, I know of no example that supports the idea that commercial secondary uranium ore deposits exist in the porous tuff at the base of the range.

Probably the Field Office has dealt with the method of data recording used by the applicant. If so interpretation and appraisal should be a simple matter, otherwise an explanation might be required.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
DEC - 9 1955

December 8, 1955

Re: DMEA 4085
Sam V. Williams & partners
Chalk Mountain claims
Fresno Co., California
$14,343.18 - Uranium

Memorandum

To: K. W. Ellis, Defense Minerals Exploration Administration

From: H. E. Nelson, U. S. Geological Survey

Subject: Review of application.

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Probably the Field Office has dealt with the method of data recording used by the applicant. If an interpretation and appraisal should be a simple matter, otherwise an explanation might be required.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-12/8/55

cc: Director's reading, 4212
Branch reading, 4212
DMRA (3)
Docket file
J. E. Crawford, 3641
J. O. Kosted, 3210

December 6, 1955
Subject: DMEA-4085
Re: Exploration Assistance
Blackeye & Chalk Mt. Claims

Mr. Sam V. Williams
Portola, California

My dear Mr. Williams:

The receipt of your application dated November 23, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4085 and referred to the Rare & Misc. Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

December 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA - 4085 Sam V. Williams

Robert E. Adams
Chief, Operation's Control
and Statistics Division

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
DEC - 5 1955

1605 Evans Avenue
Reno, Nevada

December 1, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
Blackeye and Chalk Mt. Claims
Sam V. Williams, et al
Plumas County, California

Attached are three sets Application for Aid, MF-103 relative to above subject. One set has been retained in our files.

S. Ricker

Attach.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
DEC - 5 1955

1605 Evans Avenue
Reno, Nevada

December 1, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
Blackeye and Chalk Mt. Claims
Sam V. Williams, et al
Plumas County, California

Attached are three sets Application for Aid, MF-103 relative to above subject. One set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEC - 5 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-4085
Metal or Mineral Uranium
Date Received 12/5/55
Estimated Cost $14,343.18
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: (Sam V. Williams - Portola 30%)
(Jas. W. Johnson " 30%)
(partners) (Remigio Cordova " 30%)
(Harry A. Harper - Oroville 10%)

Address all correspondence
Sam V. Williams
Portola, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Blackeye Claim Vol 34 Page 52A Plumas Co.
" " #2 " 34 " 106 California
Chalk Mt. " " 33 " 327 Quincy
Chalk Mt. " #2 " 34 " 104

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(a) State the mineral or minerals for which you wish to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [X] Other Labor

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Nov - 23rd, 1955

Sam V. Williams
(Applicant)

By Jas. W. Johnson
Tomijo Cardova
Harry A. Harpe

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

HARRY A. HARPER
Mining Engineer
1281 MONTGOMERY STREET
OROVILLE, CALIFORNIA

RECEIVED
DEC - 5 75

REPORT

LOCATION

The four claims - Buckeye #1 and #2 and Chalk Mountain #1 and #2 property of Sam V. Williams, Jas. W. Johnson, Remigio Cordova, of Portola, and Harry A. Harper of Oroville, California, are located along Little Last Chance Creek within the eastern border of Plumas County, California.

The claims can be reached by going east on Highway 40-A from Portola to Chilcoot, then north on good county road approximately 8 miles to claims which lie alongside the road.

In general the region is accessible the year around and at an altitude of between 5500 and 5600 feet. Winter is rarely severe enough to impede mining and transportation for very long.

Little Last Chance Creek flows the year around and has more than enough water for camp and milling purposes.

PROPERTY

The partnership holds the following 4 lode mining claims, on which all location work has been completed.

Buckeye
" #2

Chalk Mountain
" " #2

These claims are in Sections 21, 22, 28 and 29, Township 24 North, Range 16 East.

GEOLOGY AND RADIOACTIVITY

Included in this report is a blowup photostat print showing topography and location of the claims. The region around the claims is mostly alluvium with outcrops of Miocene volcanic rhyolite tuff of undetermined depth, but probably less than 300 feet in thickness, with basalt and volcanic flows on low hill tops. The bedded tuff on the Buckeye claim where it outcrops is radioactive.

A couple of miles to the east of the claims is the western crest of the Sierra Nevada Range, that portion under discussion being drained by Little Last Chance Creek. Along this crest of Jurassic acidic intrusives, mainly granodiorite, between Adams Peak, Crystal Peak and Sand Mountains, many quartz outcrops carrying primary uranium minerals have been discovered. Geologically the long continued erosion during the Cretaceous and Tertiay period coupled with minor oscillations of the land, could readily as a result of the weathering action of ground waters

or other natural processes, form commercial secondary uranium ore deposits, in the porous rhyolite tuff now exposed at the base of the range.

The rhyolite tuff will probably be found interbedded with sandstone between masses of conglomerate belonging in a succession of gravels before the eruption of volcania breccia and basalt.

A grid map of this claim is attached showing scintillator reading at each corner, also a series of Jack hammer holes were sunk vertically approximately 5 feet and the probe of a Geiger Counter, Mineral Engineering Co. Model 600-B, lowered into the hole with direct readings of % of O_3O_8 as shown on separate map. Included also is a Qualitative Spectographic Analysis of the material taken out of hand drilled hole from bottom of a shaft about 20 feet below outcrop. The tuff as far as encountered is a comparatively soft, white, chalk-like rock with red stans and comparatively porous to circulating waters.

EXPLORATION PROGRAM

From the radioactivity readings I believe there is a possibility of locating commercial secondary uranium or deposits at some undetermined depth, but not deeper than 300 feet. This exploratory work can best be done by core drilling, not knowing the exact thickness of the bedded tuff,

it is assumed that a total of 4000 feet of core driling in from ten to twelve holes would bottom each hole well below the ground water table. In this work the drilling would be guided by the radioactivity readings as the drilling progresses. The writer of this report and a 10% partner will act as geologist and consultant, the other three partners to alternate as drill crew with minimum of two men on the job at all times.

ESTIMATE OF OPERATING COSTS

(a)	Independent contracts	None	
(b)	Labor, supervision, consultants		
	1 Driller $3.00 per hr. 1 Helper 2.00 " " Consultant $150.00 per mo.		
(c)	Operating materials and supplies Per day		
	30 gal. gasoline at 35¢ for diamond drill & water pumps	10.50	
	Misc. oils and greases	2.00	
			12.50
(d)	Operating Equipment		
	E. J. Longyear Company to Harry A. Harper		
	LONGYEAR "24" DIAMOND CORE DRILL powered by an air colled 14 HP gasoline engine through clutch and 3-speed transmission and equipped with an "A" 18" twin hydraulic swivel head (medium 16/29 bevel gears) oil circulating system to operate head, drum hoist with steel cable, surface frame, wrenches and grease gun	3320.00	3320.00

		LONGYEAR Pumping Unit 800 gpm, 150 P.s.i.		500.00	500.00
Item No	Quantity		Part No		
	1 Set	A-E Chuck Jaws	A6908	13.50	13.50
	1	A-E Drive Rod Bushing	A7323	5.50	5.50
3	1	1" x 25' Swivel Hose	A14566S	32.85	32.85
4	1	1 1/4" x 15' Suction Hose	A14569S	45.35	45.35
5	1	E Ball Bearing Water Swivel, short type	A7422S	52.90	52.90
6	1	Lifting Bail for Short type Swivel	D7541S	20.00	20.00
7	1 pc.	E 5' Drill Rod with Coupling	B12789S	9.85	9.85
8	50"	E 10' Drill Rods with "	B12781S	15.25	762.50
9	1	EXL 10' Swivel D.T. Core Barrel with water shutoff	X12382S-10	90.65	90.65
10	6	EXL Split Ring Core Lifter	A12227S	2.40	14.40
11	1	EXL D.T. Diamong Reaming Shell $6.00 per carat	Type C	46.85	46.85
12	1	EXL Diamond Core Bit $7.00 per carat	Type C	63.00	63.00
13	1	EX Cross Chopping Bit	B7273S	15.10	15.10
14	1 Set	EXL Parmalee Wrenches	A15781S	38.95	38.95
15	1	Hawthorne Type E. Assy. w/A Sub		30.50	30.50
16	3 Sets	AX Bit Blades		8.50	25.50
17	3 "	BX " "		8.75	26.25
18		AX 1 1/2' Starting Barrel, with Double Tube Shell Conn.	B12149S	18.40	18.40
19	2	AX Core Lifters	A7896S	2.55	5.10
20	1	AX B.W. Diamond Core Bit $6.00 per carat	Type C	78.00	78.00
21	1	E Box to A Pin	A7321S	6.50	6.50
22	1	E " " EX Casing Pin	A7319S	8.95	8.95
23	2	18" Pipe Wrenches	A14942S	6.55	13.10
24	1	E Ball Bearing Hoisting Plug	B6874S	27.55	27.55
25	1	E Safety Clamp with E Jaws	D7526S	90.00	90.00
26	1 pc.	EX 10' Flush Joint Casing	B7794S	14.70	14.70
		Total Cost F.O.B.		5376.15	
		Estimaaed Freight to Portola		200.00	
		Delivery to drilling site		65.00	
		Misc. tools		100.00	
		Attachment to Geiger counter probe and chart recording device		550.00	
				6291.15	

(e) Rehabilitation and repairs — None

(f) New buildings, improvements, installations — "

(g) Miscellaneous

Estimated cost of drill & pump maintenance for 3000'	$ 300.00
Analytical work 100 O_3O_8 Assays	300.00
Accounting	350.00

Workman's Compensation and Employers Liability	5.6%
Payroll	4.7%

(h) Contingencies

Estimated 20% of total cost

Total estimated cost of drilling 4000 feet of hole on basis of drilling an average of 40 feet per shift of 8 hrs including moving, etc.

Equipment		6291.15
Labor		
Driller - 800 hrs at 3.00	2400.00	
Helper 800 " " 2.00	1600.00	
Consultant 5 Mo. " 150.00	750.00	
		4750.00
Operating materials & supplies 100 days at $12.50		1250.00
Misc.		950.00
Insurance-Pay Roll taxes 10.3% of 4750		489.25
Total Cost		13730.40
Salvage value - Equipment 30% of 5376.15		1777.85
Net Cost		11952.65
Add 20% for contingencies		2390.53
Estimated total net cost 4000' of drill hoe		$14343.18

Cost per foot $3.60 per foot

Harry A Harper

LABORATORY REPORT

ABBOT A. HANKS, INC.

ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1896
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 90002

Date October 18, 1955

Submitted by Harry A. Harper
1331 Huntoon Street
Oroville, California

Sample Mark #2 Chalk Mt.
2nd - 10 ft. Drill Hole

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Zirconium Manganese Nickel Strontium Vanadium Chromium Copper Lead Boron	Magnesium Titanium	Iron Calcium Sodium Potassium	Aluminum	Silicon

Remarks

cc: Sam Williams
Portola,
California

bob

RESPECTFULLY SUBMITTED
ABBOT A. HANKS, INC.

By [signature]
Spectro-Chemist

FORM A-5

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
DEC - 5 1955

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-4085
Metal or Mineral Uranium
Date Received 12/6/55
Estimated Cost $14,343.18
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: (Partners) Sam V. Williams - Portola 30% / Geo. U. Johnson " 30% / Remigio Cordova " 30% / Harry A. Harper - Greville 10% — Address all correspondence Sam V. Williams Portola, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

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3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Placer Claim Vol 31 Page 324 Plumas Co. California
Claim No. 42 " 33 " 327 "
Claim No. 43 " 34 " 104 "

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

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(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☒ Money ☐ Use of equipment owned by you ☒ Other Labor

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Nov. 23, 1955

Sam T. Williams
(Applicant)

By Jas W. Johnson
George Cardwa
Harry A. Harper

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

HARRY A. HARPER
Mining Engineer
1281 MONTGOMERY STREET
OROVILLE, CALIFORNIA

RECEIVED
DEC - 5 1955

REPORT

LOCATION

The four claims - Buckeye #1 and #2 and Chalk Mountain #1 and #2 property of Sam V. Williams, Jas. U. Johnson, Rangelo Cordova, of Portola, and Harry A. Harper of Oroville, California, are located along Little Last Chance Creek within the eastern border of Plumas County, California.

The claims can be reached by going east on Highway 40-A from Portola to Chicoot, then north on good county road approximately 8 miles to claims which lie alongside the road.

In general the region is accessible the year around and at an altitude of between 5500 and 5600 feet. Winter is rarely severe enough to impede mining and transportation for very long.

Little Last Chance Creek flows the year around and has more than enough water for camp and milling purposes.

PROPERTY

The partnership holds the following 4 lode mining claims, on which all location work has been completed.

Buckeye
" #2

Chalk Mountain
" " #2

These claims are in Sections 21, 22, 28 and 29, Township 24 North, Range 16 East.

GEOLOGY AND RADIOACTIVITY

Included in this report is a blowup photostat print showing topography and location of the claims. The region around the claims is mostly alluvium with outcrops of Miocene volcanic rhyolite tuff of undetermined depth, but probably less than 300 feet in thickness, with basalt and volcanic flows on low hill tops. The bedded tuff on the Buckeye claim where it outcrops is radioactive.

A couple of miles to the east of the claims is the western crest of the Sierra Nevada Range, that portion under discussion being drained by Little Last Chance Creek. Along this crest of Jurassic acidic intrusives, mainly granodiorite, between Adams Peak, Crystal Peak and Sand Mountains, many quartz outcrops carrying primary uranium minerals have been discovered. Geologically the long continued erosion during the Cretaceous and Tertiay period coupled with minor oscillations of the land, could readily as a result of the weathering action of ground waters

or other natural processes, form commercial secondary uranium ore deposits, in the porous rhyolite tuff now exposed at the base of the range.

The rhyolite tuff will probably be found inter-bedded with sandstone between masses of conglomerate belonging in a succession of gravels before the eruption of volcanic breccia and basalt.

A grid map of this claim is attached showing scintillator reading at each corner, also a series of Jack hammer holes were sunk vertically approximately 5 feet and the probe of a Geiger Counter, Mineral Engineering Co. Model 600-B, lowered into the hole with direct readings of % of O_3O_8 as shown on separate map. Included also is a Qualitative Spectographic Analysis of the material taken out of hand drilled hole from bottom of a shaft about 20 feet below outcrop. The tuff as far as encountered is a comparatively soft, white, chalk-like rock with red stans and comparatively porous to circulating waters.

EXPLORATION PROGRAM

From the radioactivity readings I believe there is a possibility of locating commercial secondary uranium or deposits at some undetermined depth, but not deeper than 300 feet. This exploratory work can best be done by core drilling, not knowing the exact thickness of the bedded tuff,

it is assumed that a total of 4000 feet of core drilling in from ten to twelve holes would bottom each hole well below the ground water table. In this work the drilling would be guided by the radioactivity readings as the drilling progresses. The writer of this report and a 10% partner will act as geologist and consultant, the other three partners to alternate as drill crew with minimum of two men on the job at all times.

ESTIMATE OF OPERATING COSTS

(a)	Independent contracts	None	
(b)	Labor, supervision, consultants		
	1 Driller $3.00 per hr. 1 Helper 2.00 " " Consultant $150.00 per mo.		
(c)	Operating materials and supplies Per day		
	30 gal. gasoline at 35¢ for diamond drill & water pumps	10.50	
	Misc. oils and greases	2.00	
			12.50
(d)	Operating Equipment		
	E. J. Longyear Company to Harry A. Harper		
	LONGYEAR "24" DIAMOND CORE DRILL powered by an air colled 14 HP gasoline engine through clutch and 3-speed transmission and equipped with an "A" 18" twin hydraulic swivel head (medium 16/29 bevel gears) oil circulating system to operate head, drum hoist with steel cable, surface frame, wrenches and grease gun	3320.00	3320.00

		LONGYEAR Pumping Unit 800 gpm, 150 P.s.i.		500.00	500.00
Item No	Quantity		Part No		
	1 Set	A-E Chuck Jaws	A6908	13.50	13.50
	1	A-E Drive Rod Bushing	A7323	5.50	5.50
3	1	1" x 25' Swivel Hose	A14566S	32.85	32.85
4	1	1 1/4" x 15' Suction Hose	A14569S	45.35	45.35
5	1	E Ball Bearing Water Swivel, short type	A7422S	52.90	52.90
6	1	Lifting Bail for Short type Swivel	D7541S	20.00	20.00
7	1 pc.	E 5' Drill Rod with Coupling	B12789S	9.85	9.85
8	50"	E 10' Drill Rods with "	B12781S	15.25	762.50
9	1	EXL 10' Swivel D.T. Core Barrel with water shutoff	X123828-10	90.65	90.65
10	6	EXL Split Ring Core Lifter	A12227S	2.40	14.40
11	1	EXL D.T. Diamong Reaming Shell $6.00 per carat	Type C	46.85	46.85
12	1	EXL Diamond Core Bit $7.00 per carat	Type C	63.00	63.00
13	1	EX Cross Chopping Bit	B7273S	15.10	15.10
14	1 Set	EXL Parmalee Wrenches	A15781S	38.95	38.95
15	1	Hawthorne Type E. Assy. w/A Sub		30.50	30.50
16	3 Sets	AX Bit Blades		8.50	25.50
17	3 "	BX " "		8.75	26.25
18		AX 1 1/2' Starting Barrel, with Double Tube Shell Conn.	B12149S	18.40	18.40
19	2	AX Core Lifters	A7896S	2.55	5.10
20	1	AX B.W. Diamond Core Bit $6.00 per carat	Type C	78.00	78.00
21	1	E Box to A Pin	A7321S	6.50	6.50
22	1	E " " EX Casing Pin	A7319S	8.95	8.95
23	2	18" Pipe Wrenches	A14942S	6.55	13.10
24	1	E Ball Bearing Hoisting Plug	B6874S	27.55	27.55
25	1	E Safety Clamp with E Jaws	D7526S	90.00	90.00
26	1 pc.	EX 10' Flush Joint Casing	B7794S	14.70	14.70
		Total Cost F.O.B.		5376.15	
		Estimaaed Freight to Portola		200.00	
		Delivery to drilling site		65.00	
		Misc. tools		100.00	
		Attachment to Geiger counter probe and chart recording device		550.00	
				6291.15	

(e) Rehabilitation and repairs — None

(f) New buildings, improvements, installations — "

(g) Miscellaneous

Estimated cost of drill & pump maintenance for 3000'	$ 300.00
Analytical work 100 O_3O_8 Assays	300.00
Accounting	350.00

Workman's Compensation and Employers Liability	5.6%
Payroll	4.7%

(h) Contingencies

Estimated 20% of total cost

Total estimated cost of drilling 4000 feet of hole on basis of drilling an average of 40 feet per shift of 8 hrs including moving, etc.

Equipment		6291.15
Labor		
Driller - 800 hrs at 3.00	2400.00	
Helper 800 " " 2.00	1600.00	
Consultant 5 Mo. " 150.00	750.00	
		4750.00
Operating materials & supplies 100 days at $12.50		1250.00
Misc.		950.00
Insurance-Pay Roll taxes 10.3% of 4750		489.25
Total Cost		13730.40
Salvage value - Equipment 30% of 5376.15		1777.85
Net Cost		11952.65
Add 20% for contingencies		2390.53
Estimated total net cost 4000' of drill hole		$14343.18

Cost per foot $3.60 per foot

Harry A Harper

LABORATORY REPORT
ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1906
534 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 90002

Date October 18, 1955

Submitted by Harry A. Harper
1331 Huntoon Street
Oroville, California

Sample Mark #2 Chalk Mt.
2nd - 10 ft. Drill Hole

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found
and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Zirconium Manganese Nickel Strontium Vanadium Chromium Copper Lead Boron	Magnesium Titanium	Iron Calcium Sodium Potassium	Aluminum	Silicon

Remarks

cc: Sam Williams
Portola,
California

bob

RESPECTFULLY SUBMITTED,
ABBOT A. HANKS, INC.
By [signature]
Spectro-Chemist

FORM A-5

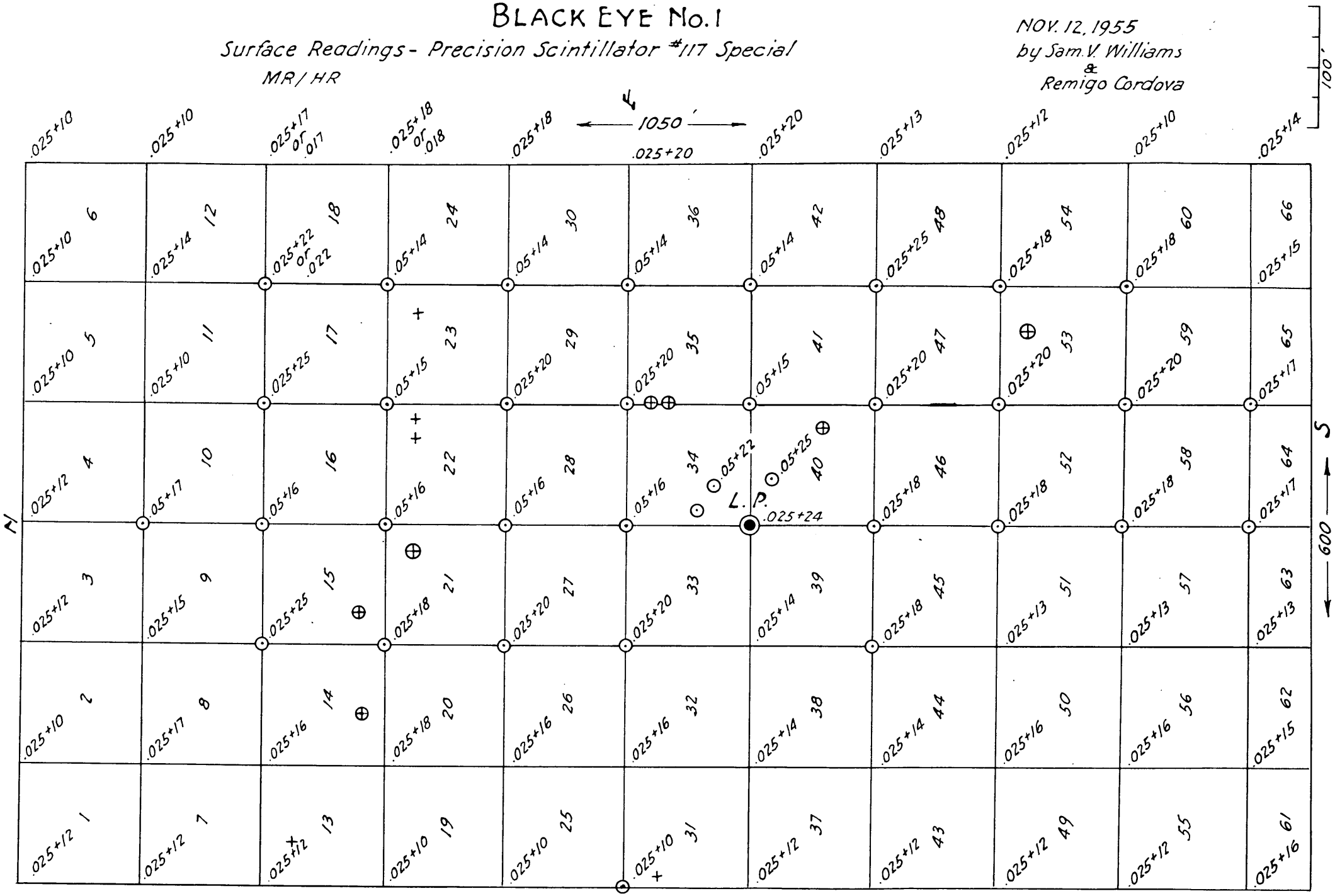
Contours - 40'

BLACK EYE No. 1

Surface Readings - Precision Scintillator #117 Special

MR/HR

NOV. 12, 1955
by Sam V. Williams
&
Remigo Cordova



Directions are General
See Location Notice
Blackeye No. 1 adjoins Blackeye No. 2 on West

⊕ Drill Hole

Background Count
+ .025+10 or .010 MR HR at Center Line Post Black Eye #2

L.P. Location Post
⊙ Discovery Site
+ Drill Hole

NOV. 12, 1955

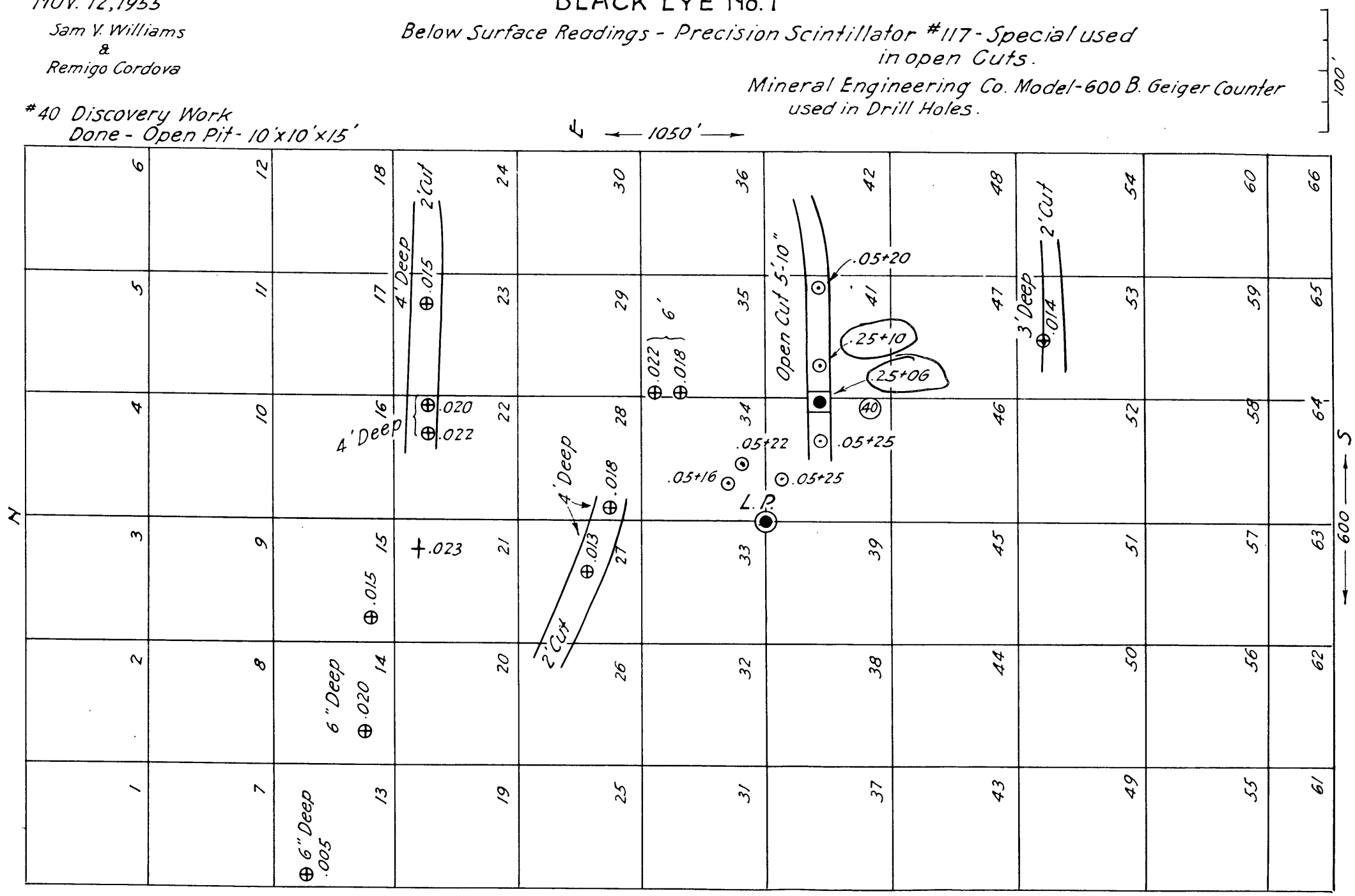
Sam V. Williams
&
Remigo Cordova

BLACK EYE No. 1

Below Surface Readings - Precision Scintillator #117 - Special used in open Cuts.

Mineral Engineering Co. Model-600 B. Geiger Counter used in Drill Holes.

#40 Discovery Work Done - Open Pit - 10'x10'x15'



⊙ Discovery Site
L.P. Location Post
⊕ Drill Holes

40, 41, 42 } Open Cut 5'-10" deep

■ 25' Deep Pit

Drill Hole in Pit .015
N.E. Side Wall .012
Floor Pit .012

NOV. 12, 1955

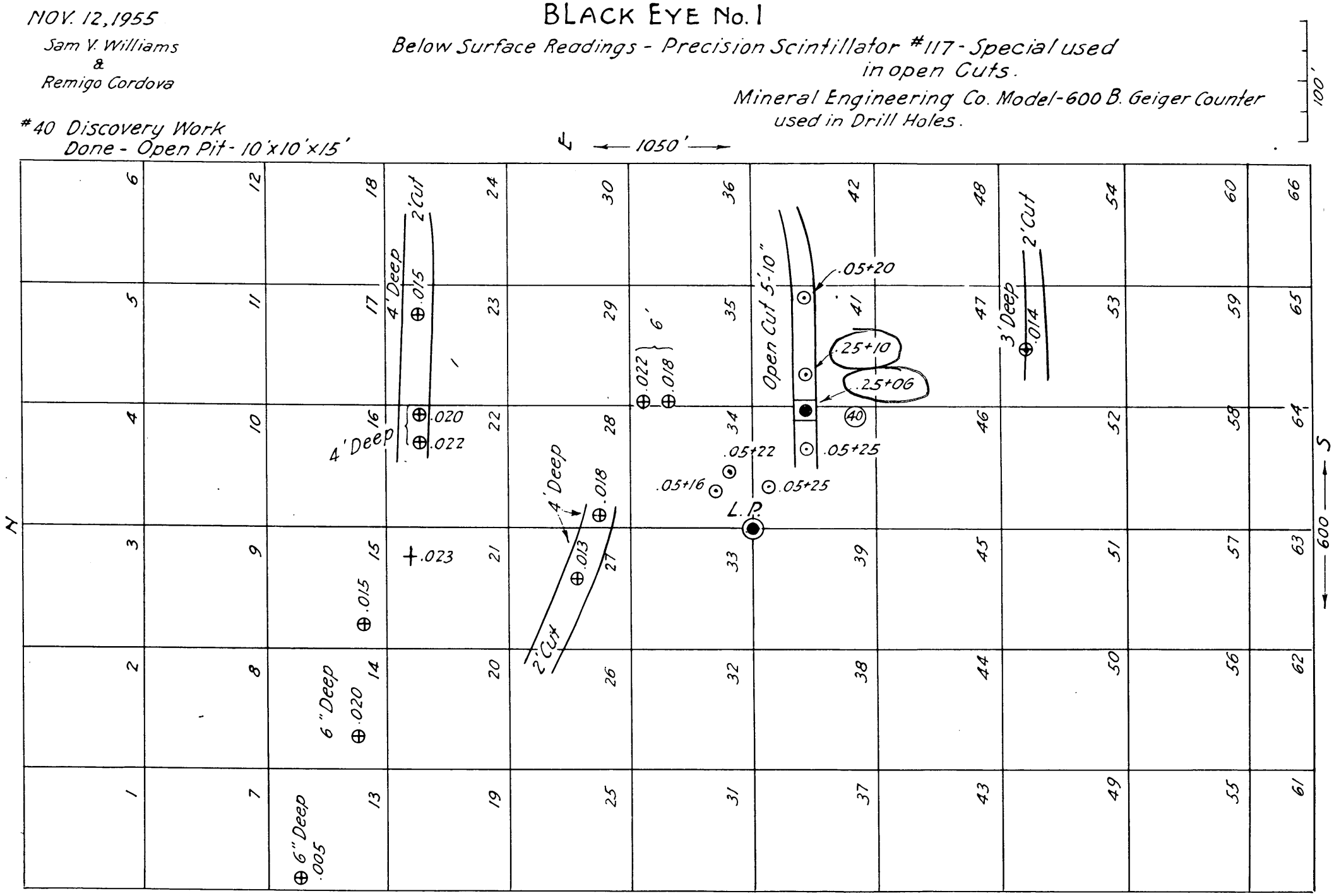
Sam V. Williams
&
Remigo Cordova

BLACK EYE No. 1

Below Surface Readings - Precision Scintillator #117 - Special used in open Cuts.

Mineral Engineering Co. Model-600 B. Geiger Counter used in Drill Holes.

#40 Discovery Work Done - Open Pit - 10'x10'x15'



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BLACK EYE No. 1

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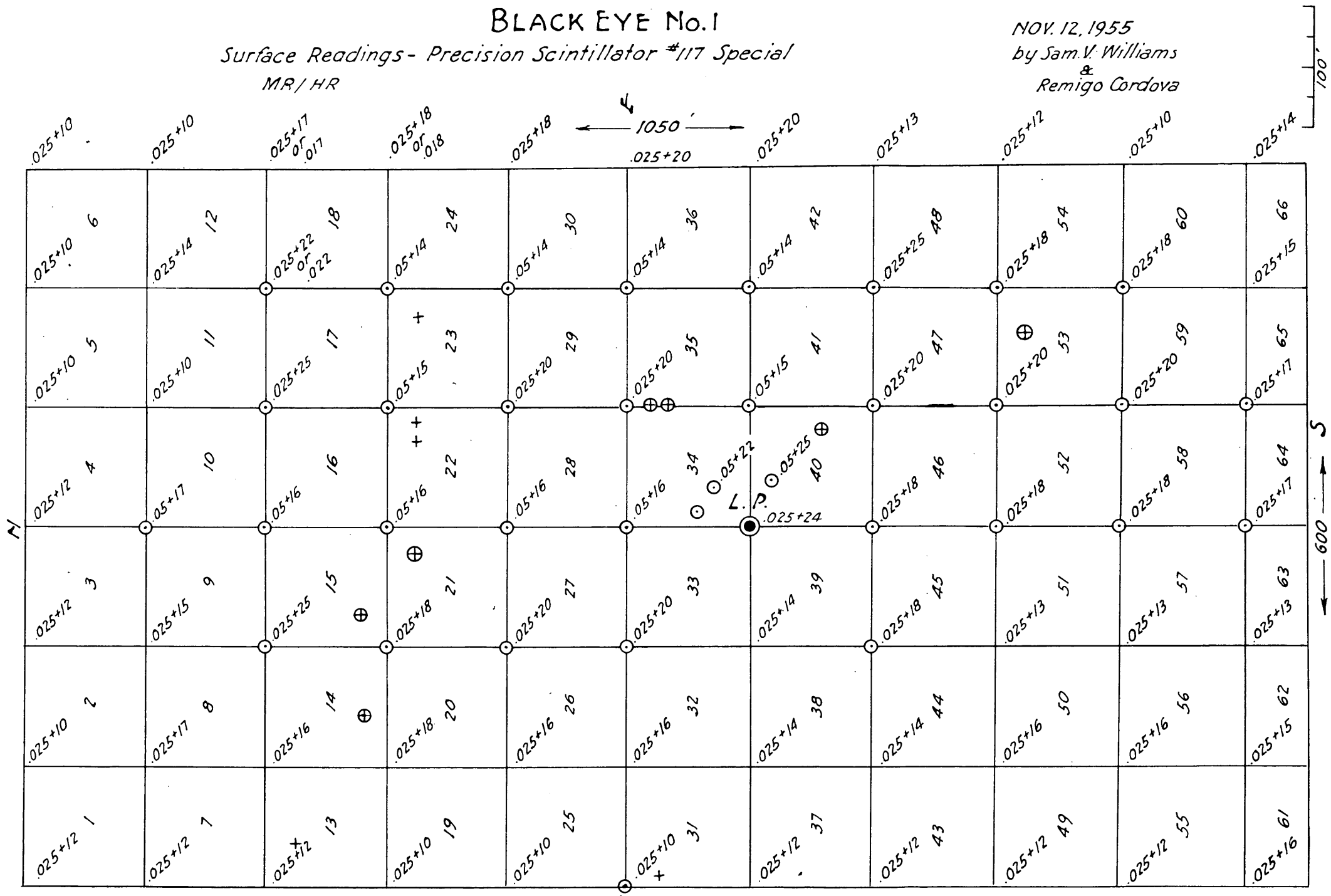
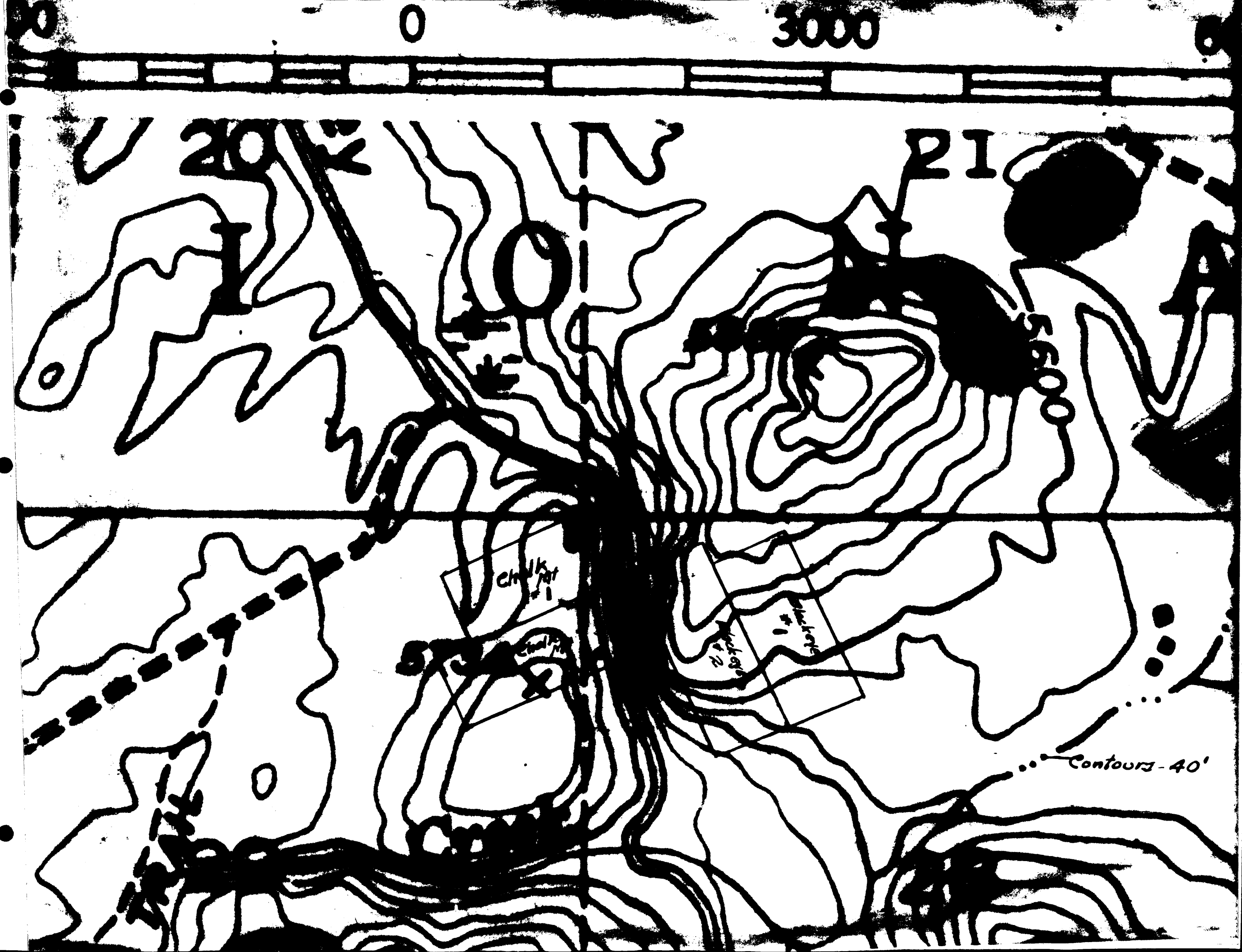


Directions are General
See Location Notice
Blackeye No. 1 adjoins Blackeye No. 2 on West

⊕ Drill Hole

Background Count
+ .025+10 at Center Line Post
or
.010 MR
HR
Black Eye #2

L.P. Location Post
⊙ Discovery Site
+ Drill Hole


0
3000
Chalk Pot #1
Contours - 40'