DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO._____ | DMEA NO. 4998

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17861

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

April 29, 1958

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Application - Nutmeg Mining Corporation, Lakeville, Connecticut. Old Pool Mine, Litchfield County, Connecticut.

Transmitted are three copies of the subject application received in this office to day. Also attached is a copy of Mr. Arthur P. Levine's transmittal letter to me which is self explanatory.

Mr. Levine has requested that the original report be returned to him, his request is attached to the original report.

Robert A. Laurence

Robert A. Laurence

NUTMEG MINING CORPORATION
LAKEVILLE, CONNECTICUT

BORDEN BUILDING HEMLOCK 5-9062

DMEA
RECEIVED MAY 17 1958

DATE	INITIALS	CODE

April 24, 1958

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
United States Department
of Interior
Room 13PPost Office Bldg.
Knoxville 2, Tennessee

Re: DMEA-4634
Ni--Co
Old Pool Mine
Litchfield County
Connecticut

Dear Mr. Laurence:

I am herewith filing a new application in place of old docket no. 4634, which has been closed. New information in the form of a electro-magnetic examination of the property, conducted by Mr. M. L. Jensen, Department of Geology, Yale University, New Haven, Conn., are enclosed for your determination.

Enclosed are four copies of form MF-103 and four copies of the recent geophysical survey.

Very truly yours,

Arthur P. Levine

Arthur P. Levine,
President

Enclosures (8)

RECEIVED
APR 28 1958
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

Form MF–103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42–R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

NUTMEG MINING CORPORATION
BORDEN BUILDING
LAKEVILLE, CONNECTICUT

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4998
Date Received: 5-1-58
Government Participation %:
Region: Y
Division Code: 400

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: Conn.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Arthur P. Levine	1244 50 Street Brooklyn 19, N.Y.	President
Charles Citelli	68 State St. Rockville Centre, L.I.	Vice-Pres.
Frank R. Hurlbutt	Falls Village, Conn.	Secretary-Treasurer

Mineral(s) for which you wish to explore: Nickel---Cobalt

Estimated Cost of Project: $ 40,000.00

LOCATION OF PROPERTY

Name	County	State
Old Pool Mine Mt. Prospect	Litchfield	Conn.

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order–I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

April 24, 1958
Dated

RECEIVED
APR 28 1958

Arthur P. Levine
BY (*Signature*)

President
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code. Title 18. Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

NUTMEG MINING CORPORATION
LAKEVILLE, CONNECTICUT

BORDEN BUILDING HEMLOCK 5-9062

April 24,1958

Dear Mr.Laurence:

This original copy to be returned at your convenience.Thank you.

Arthur P. Levine
Arthur P. Levine

RECEIVED MAY 1 1958

DATE	INITIALS	CODE

EXTRA COPY
DMEA
RECEIVED MAY 1 1958
DATE | CODE

Report on Electromagnetic Examination of a portion of the Mt. Prospect, Conn. Quadrangle

Introduction

Several small nickel bearing prospects have been known to exist in the Mount Prospect, Conn., Quadrangle for more than a century. They have been examined and described by several investigators (1,2); the most recent and complete study was done by E. N. Cameron (3,4).

Because of the small size and limited extent of the deposits, the area has received little attention from an economic viewpoint. The many recent examples of the success which exploration concerns have had in locating hidden sulfide deposits with the electromagnetic geophysical technique is certainly sufficient reason to indicate the potential value of a preliminary electromagnetic examination of a portion of the Mt. Prospect area. This is especially significant in the Mount Prospect Quadrangle because of the fact that outcrops appear over less than half of the area. A large portion of the quadrangle is covered by moraine and swamps. The presence of sulfide concentrations hidden by these "blankets" may, therefore, be ascertained by the use of the electromagnetic instrument.

The examination was limited to two days; ~~May 29~~ APRIL 3 and April 17, 1958.

NUTMEG MINING CORP.
LAKEVILLE, CONN.

Technique

The survey was conducted by M. L. Jensen, Department of Geology, Yale University, New Haven, Connecticut, and the instrument used was a Ronka, Mark I, Horizontal Loop Electromagnetic Surveying Equipment. The coil interval was two hundred feet and readings were taken at stations one hundred feet apart.

The area covered is indicated by the traverse lines on Plate I, a traverse of more than three miles along which more than one hundred and fifty readings were made. The position of these traverse lines with respect to the bedrock geology is shown by Plate 2.

Results

The results of the electromagnetic examination are shown on Plates 3 and 4 by contours of percent variations from readings over neutral ground, i.e., ground containing no conductors. Two readings are obtained with the Ronka horizontal loop instrument, the In-Phase reading (plate 3) and the Out-of-Phase reading (plate 4). The relative variation of these two components as a function of the conductivity and permeability (magnetic property) is shown in Figure 1. It is evident, therefore, from this figure that

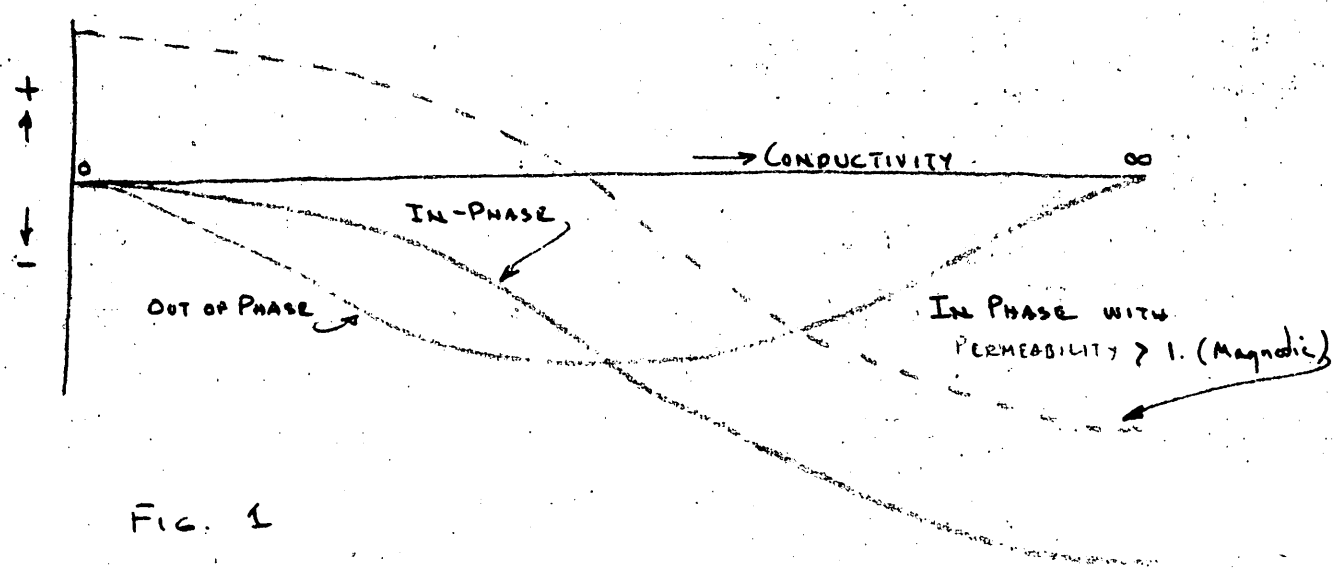

FIG. 1

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LAKEVILLE, CONN.

a mineralized zone consisting of sulfide minerals (which are semi-conductors) should exhibit negative percent variations for both in-phase and out-of-phase readings. Magnetite will give positive in-phase readings, but there should be no quadrant variation; i.e., the out-of-phase reading will be zero. If the sulfide body contains pyrrhotite, which is both magnetic and a semi-conductor, the in-phase readings will be negative as will also the out-of-phase values.

The importance of these quite different relationships is important as magnetite, pyrrhotite, pyrite, chalcopyrite, and pentandite all occur within the area.

Several anomalies are evident on Plates 3 and 4. They have been lettered alphabetically from A to H on the in-phase map and A' to H' if an out-of-phase anomaly is located in the same lettered position.

The anomaly having the greatest percentage variation (+29%) is labeled E. Its geologic occurrence is along the contact between dioritic gneiss and younger olivine norite. As there is no associated E' or out-of-phase anomaly with anomaly E, it seems most probable that this is a locale of a greater concentration of disseminated magnetite which does seem plausible from the geologic relationships. Anomaly E extends eastward several hundred feet from its highest value. At the position where there is still a +10% in-phase reading, anomaly F has been indicated. The interest here is primarily F' which is a -10% out-of-phase value. Pyrrhotite, even though it is magnetic, does exhibit negative in-phase readings because of the greater significance of the conducting property of the mineral over its magnetic property. It is theoretically possible, however, that slightly positive in-phase readings and negative out-of-phase readings may be detected over pyrrhotite bodies. Actually, however, pyrrhotite occurs with other sulfides, such as chalcopyrite, pentlandite, and pyrite, which are common associates in the Mount Prospect

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deposits. I must conclude, therefore, that anomaly F is not indicative of sulfide concentrations.

The same conclusion applies to anomalies G and H (and G' and H') which are the same anomaly type as F and F'. Incidentally, H-H' is located near a fault which has brought dioritic gneiss in contact with the oldest formation of the area, the Berkshire gneiss. There is no evidence, either geological or geophysical, of sulfide mineralization along this fault zone.

Anomalies C and D are of special interest as they are located very near the defunct Buck nickel deposit. The in-phase values of about -5% are of the correct magnitude for the low percentage of sulfides reported as characteristic of these deposits. The out-of-phase values of -3 to -5% at the position of the C' anomaly are also typical and are, therefore, suggestive of the presence of conductors, i.e., presumably sulfides. The lack of an out-of-phase anomaly at position D does not corroborate the existence of conducting materials there.

By far the best and most promising anomalies are A and B, which are located within a few hundred feet of the Pool deposit. In-phase values as high as -10% and out-of-phase values at -7% were measured over an area known as anomaly A which has a diameter of not less than 300 feet. Anomaly B exhibits similar values although the extent of the anomaly, based upon this cursory survey, is apparently less.

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LAKEVILLE, CONN.

Conclusions and Recommendations

Although the known deposits of the Mount Prospect area are not large, the presence of nickel deposits associated with noritic rocks in an area of limited and covered outcrops are favorable facts for the potential of discovering with the electromagnetic instrument other sulfide deposits for which no surface evidence or gossan is visible because of burial.

A preliminary electromagnetic examination has resulted in the localizing of several anomalies, a few of which are indicative of the presence of conducting bodies.

Even though only a small portion of the area about the Pool deposit was covered with the E-M, anomaly A-A' does have more favorable indications of a buried conductor than any other anomaly located within the area. Anomalies B-B' and C-C' are of second importance.

If any further exploration drilling is to be done on this property, it is recommended that at least one drill hole be located at the position of letter A (or A'). Even though this site is several hundred feet from the nearest surface exposure of norite, according to Plate 2, it is quite possible that this parent source rock of nickel sulfides may be located at not great depth near this site.

Assuming that the detected conductor consists of disseminated and thin stringers of sulfides of an average grade of a few percent sulfide, the mineralization should be detected during the exploratory drilling within one hundred feet of the surface. Of course, mineralization may extend below that depth--the Ronka E-M is probably not capable of detecting low grade sulfide deposits below about 150 feet.

This cursory examination should be followed by a more extensive electromagnetic coverage of the area.

Respectfully submitted:

Mead LeRoy Jensen

Mead LeRoy Jensen, Asst. Professor of Geology

NUTMEG MINING CORP.
LAKEVILLE, CONN.

References

1. Howe, E., 1915, Sulfide-bearing rocks from Litchfield, Connecticut: Econ. Geology, v. 10, p. 330-347.

2. Agar, W. M., 1927, The geology of the Shepaug tunnel, Litchfield, Connecticut: Conn. Geol. Nat. Hist. Survey Bull. 40.

3. Cameron, E. N., 1943, Origin of sulfides in the nickel deposits of Mount Prospect, Connecticut: Bull. Geol. Soc. America, v. 54, p. 651-686.

4. _____ 1951, Preliminary report on the geology of the Mount Prospect complex: Conn. Geol. Nat. Hist. Survey Bull. 76.

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LAKEVILLE, CONN.

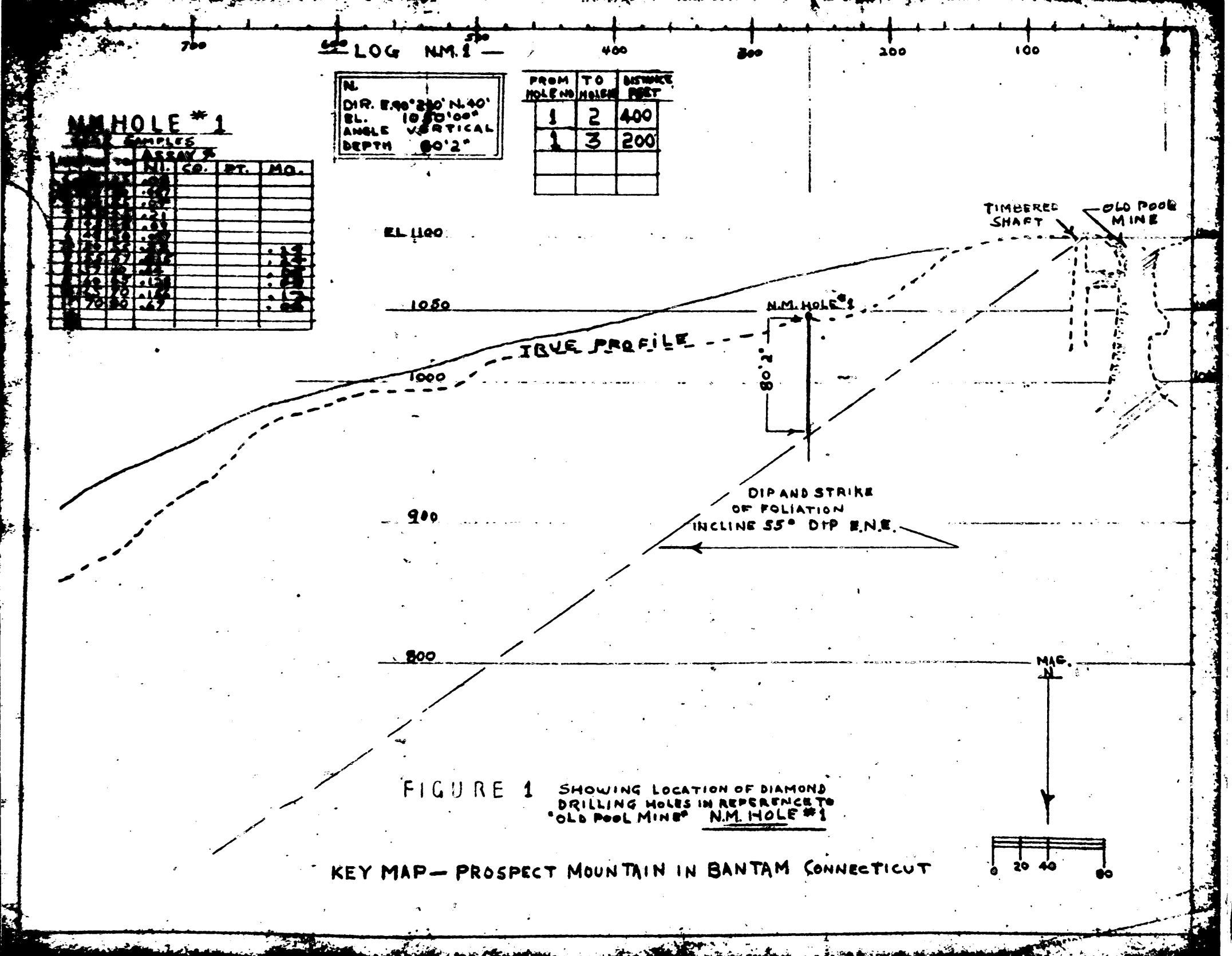


FIGURE 1 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE" N.M. HOLE #1

KEY MAP— PROSPECT MOUNTAIN IN BANTAM CONNECTICUT

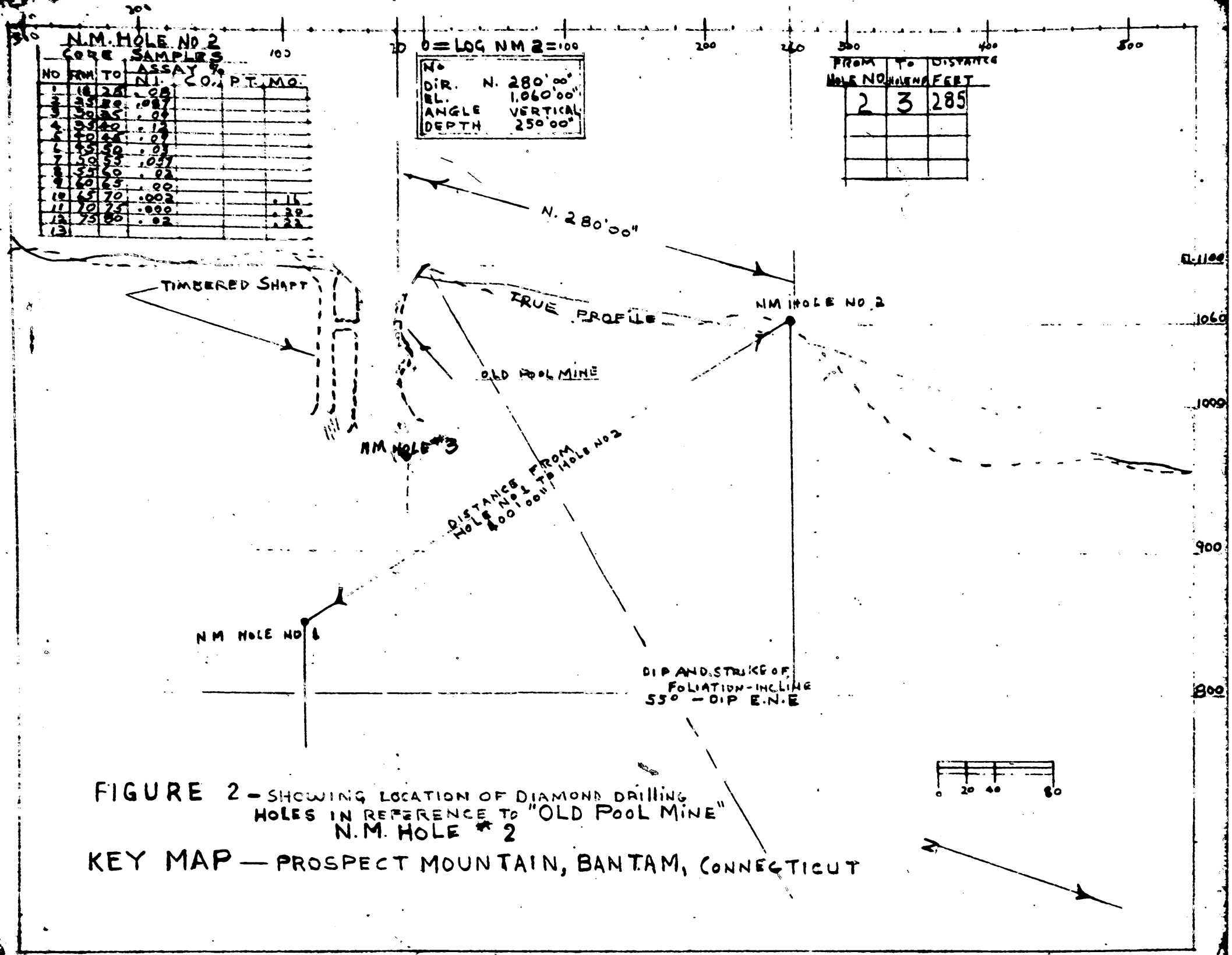
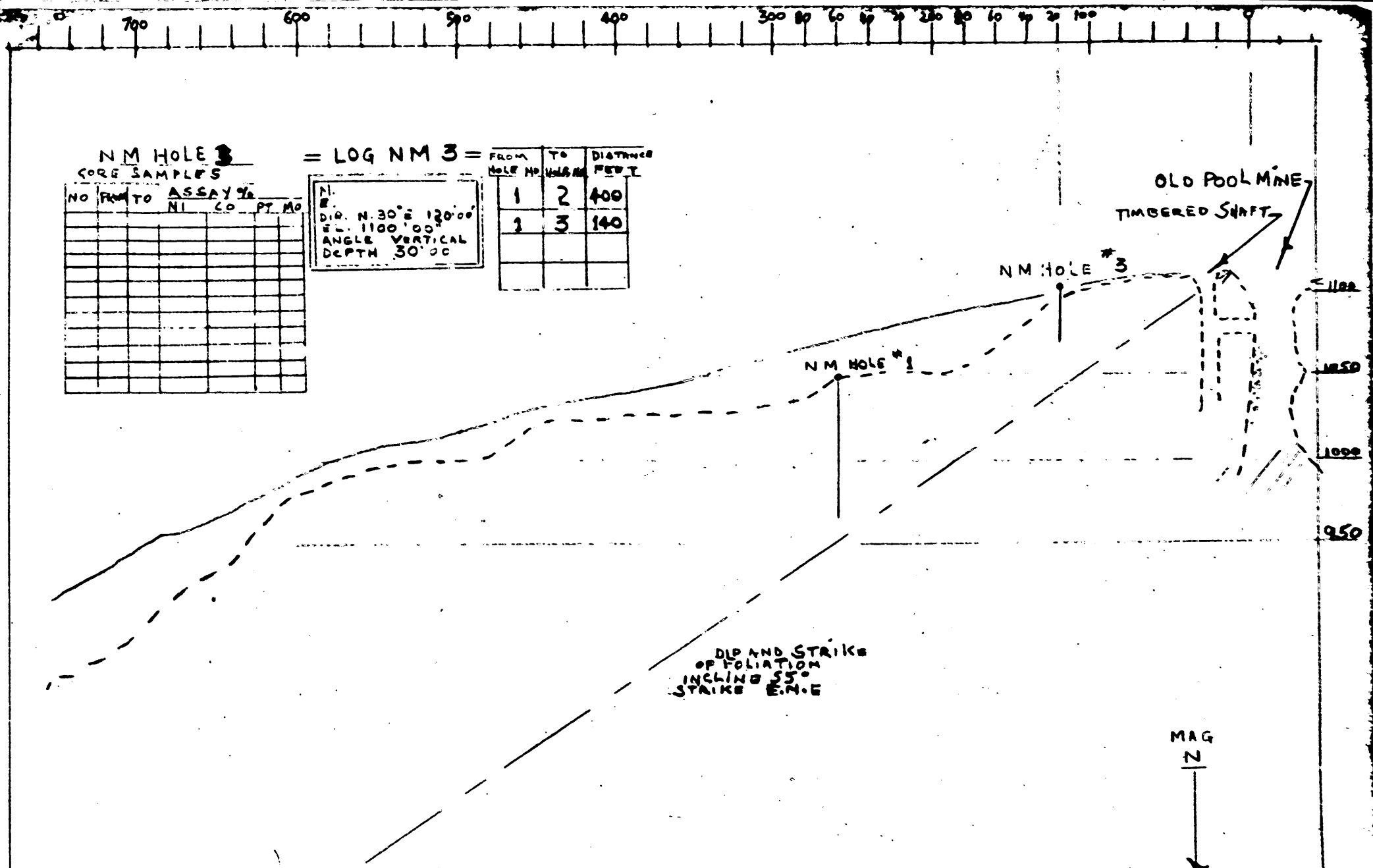


FIGURE 2 - SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE" N.M. HOLE # 2

KEY MAP — PROSPECT MOUNTAIN, BANTAM, CONNECTICUT



NM HOLE 3

CORE SAMPLES

NO	FROM	TO	ASSAY % NI	CO	PT	MO

= LOG NM 3 =

N.
E.
DIR. N. 30° E 120'00"
EL. 1100'00"
ANGLE VERTICAL
DEPTH 30'00

FROM HOLE NO	TO HOLE NO	DISTANCE FEET
1	2	400
1	3	140

FIGURE 3 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL" MINE N.M. HOLE #3

KEY MAP- PROSPECT MOUNTAIN BANTAM, CONN.

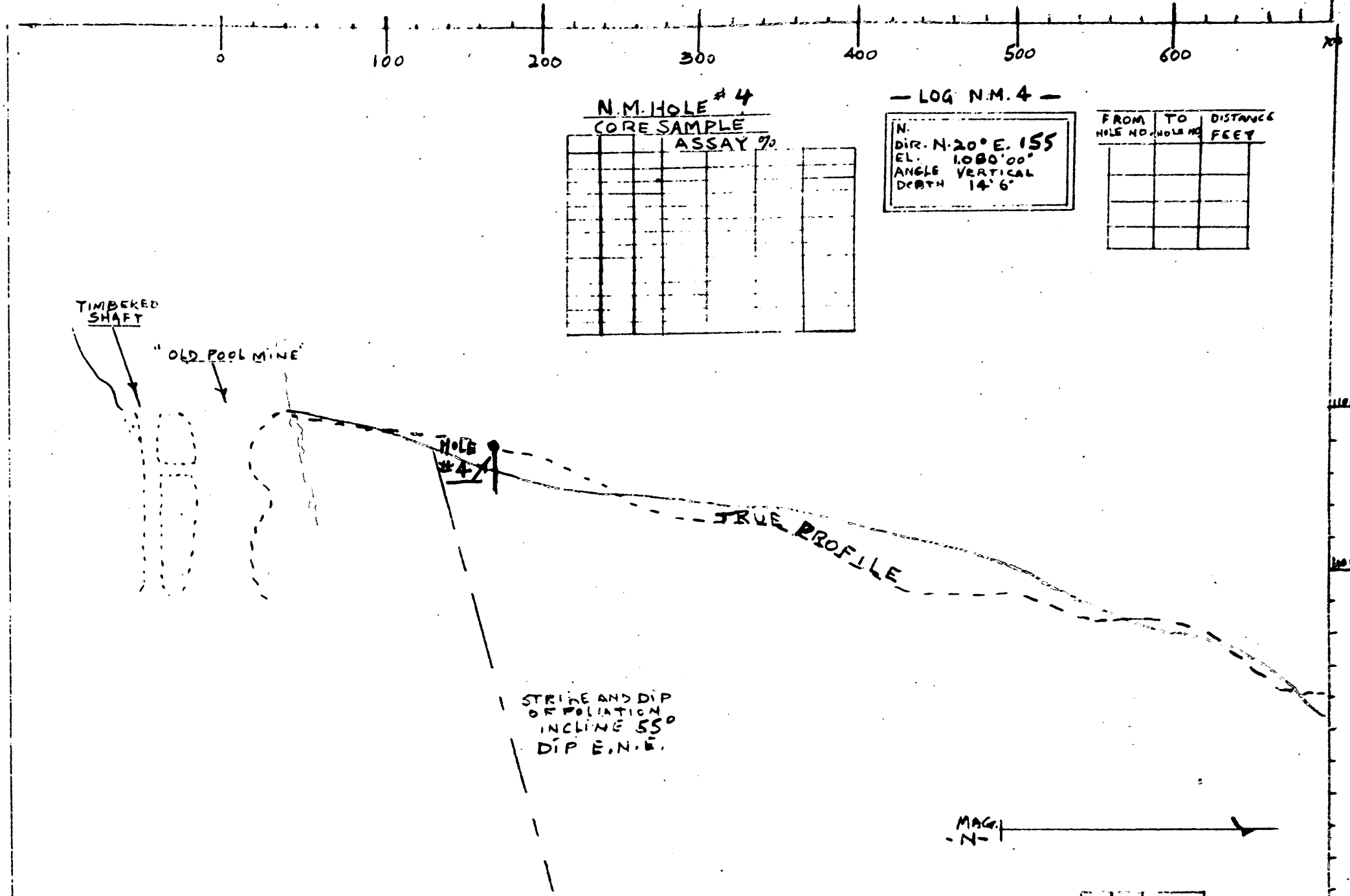


FIGURE 4 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE" N.M. HOLE #4

KEY MAP— PROSPECT MOUNTAIN IN BANTAM CONN.

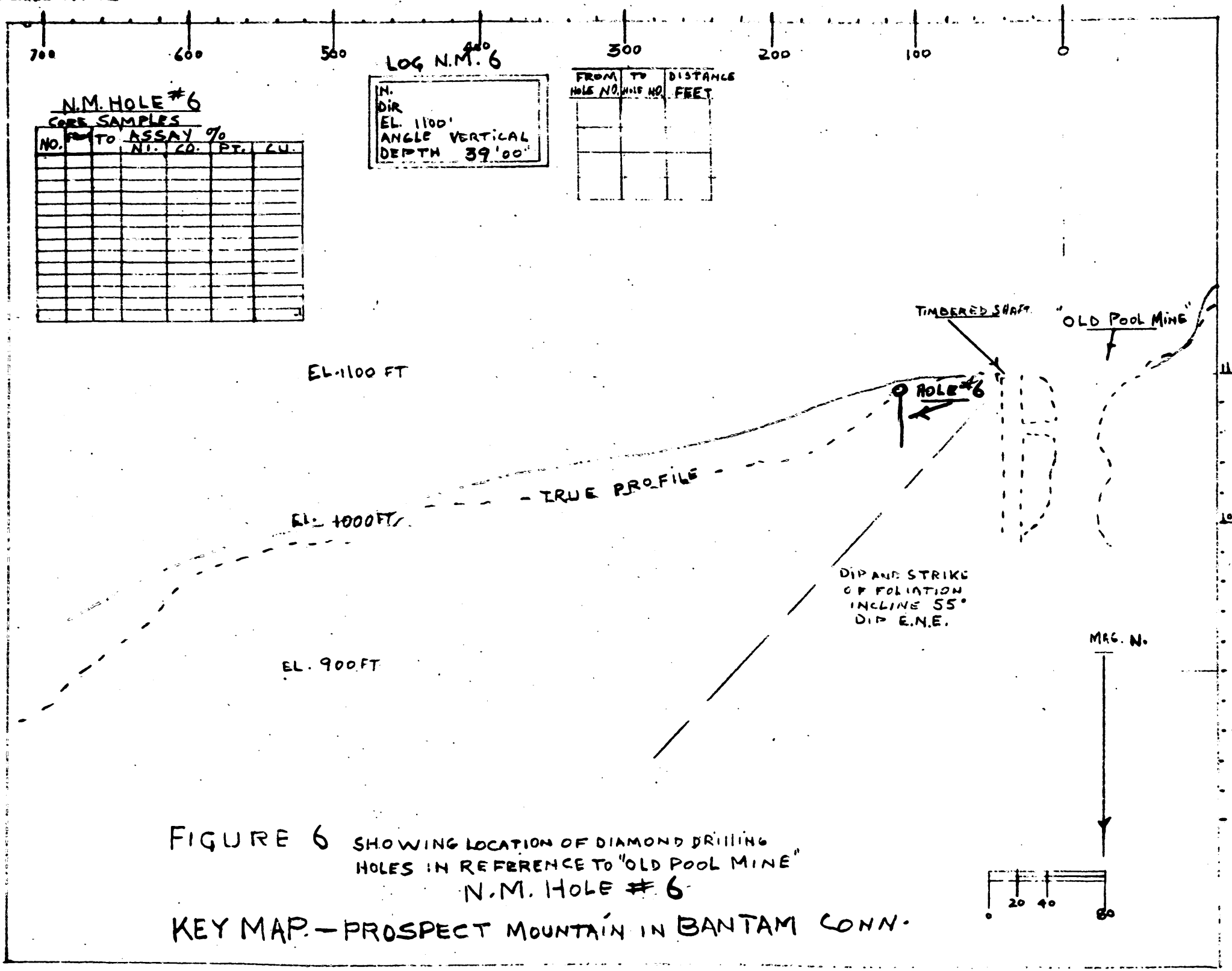


FIGURE 6 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE"

N.M. HOLE #6

KEY MAP.—PROSPECT MOUNTAIN IN BANTAM CONN.

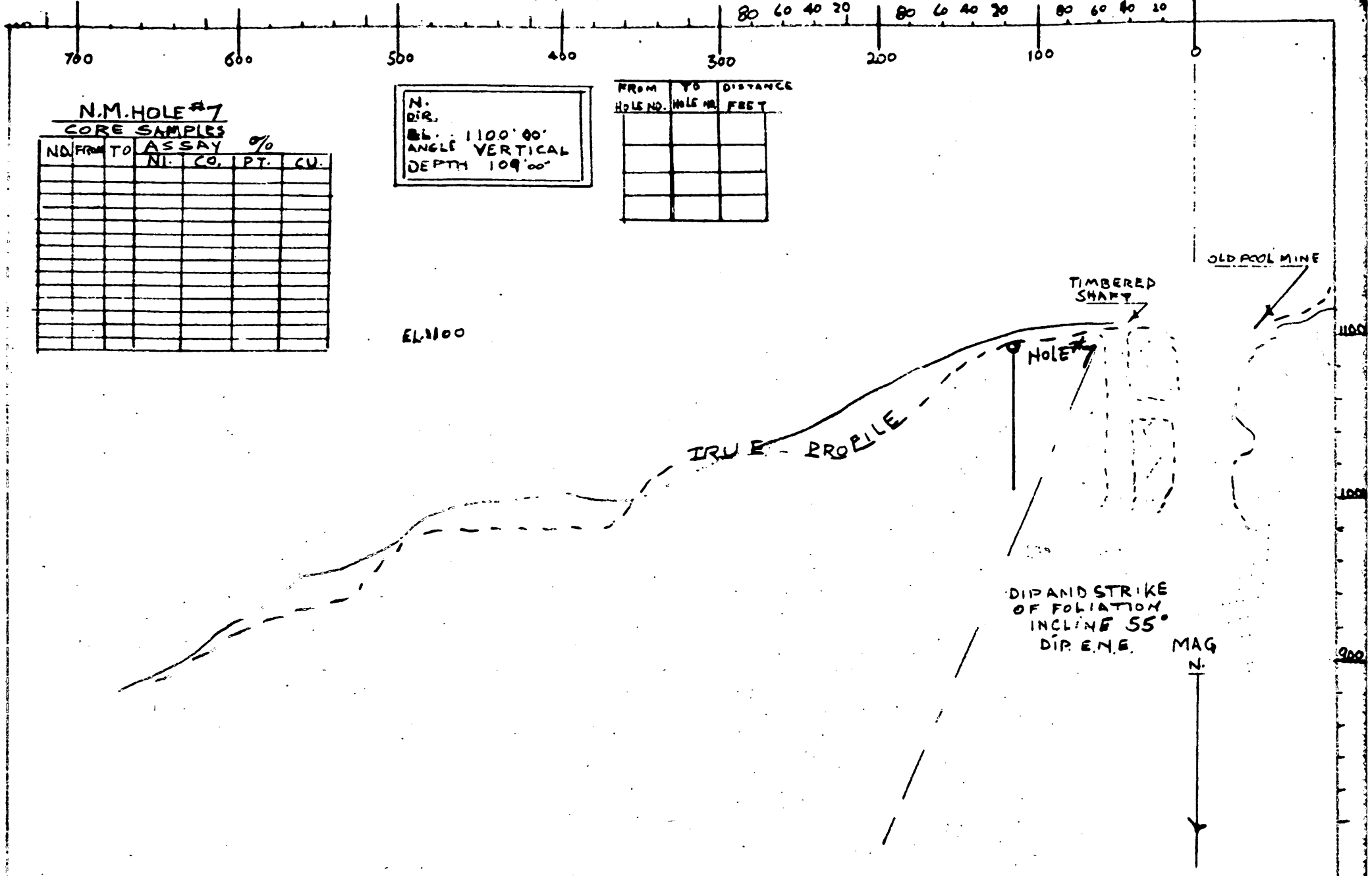


FIGURE 7 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE"

N.M. HOLE #7

KEY MAP — PROSPECT MOUNTAIN IN BANTAM CONN.

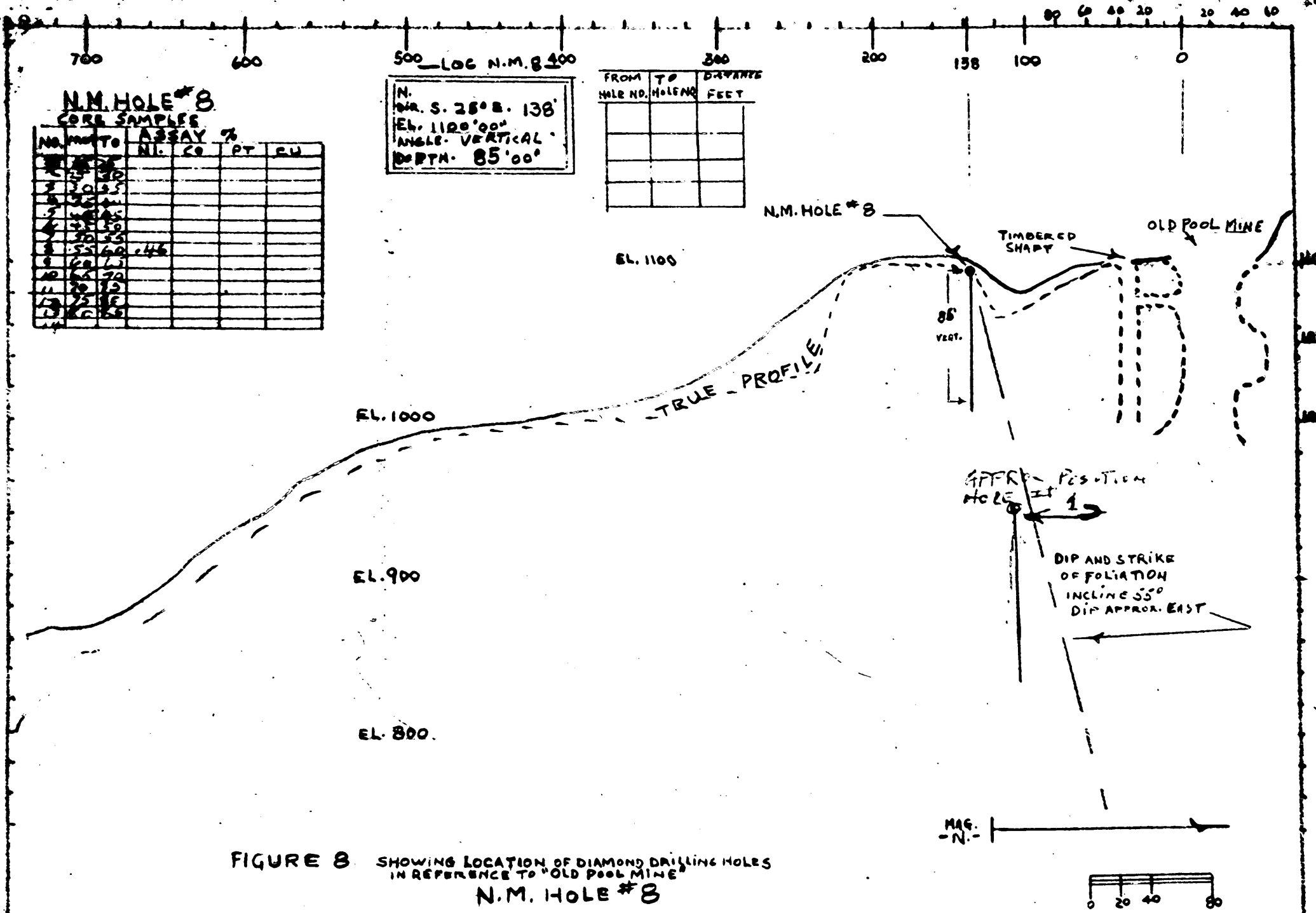
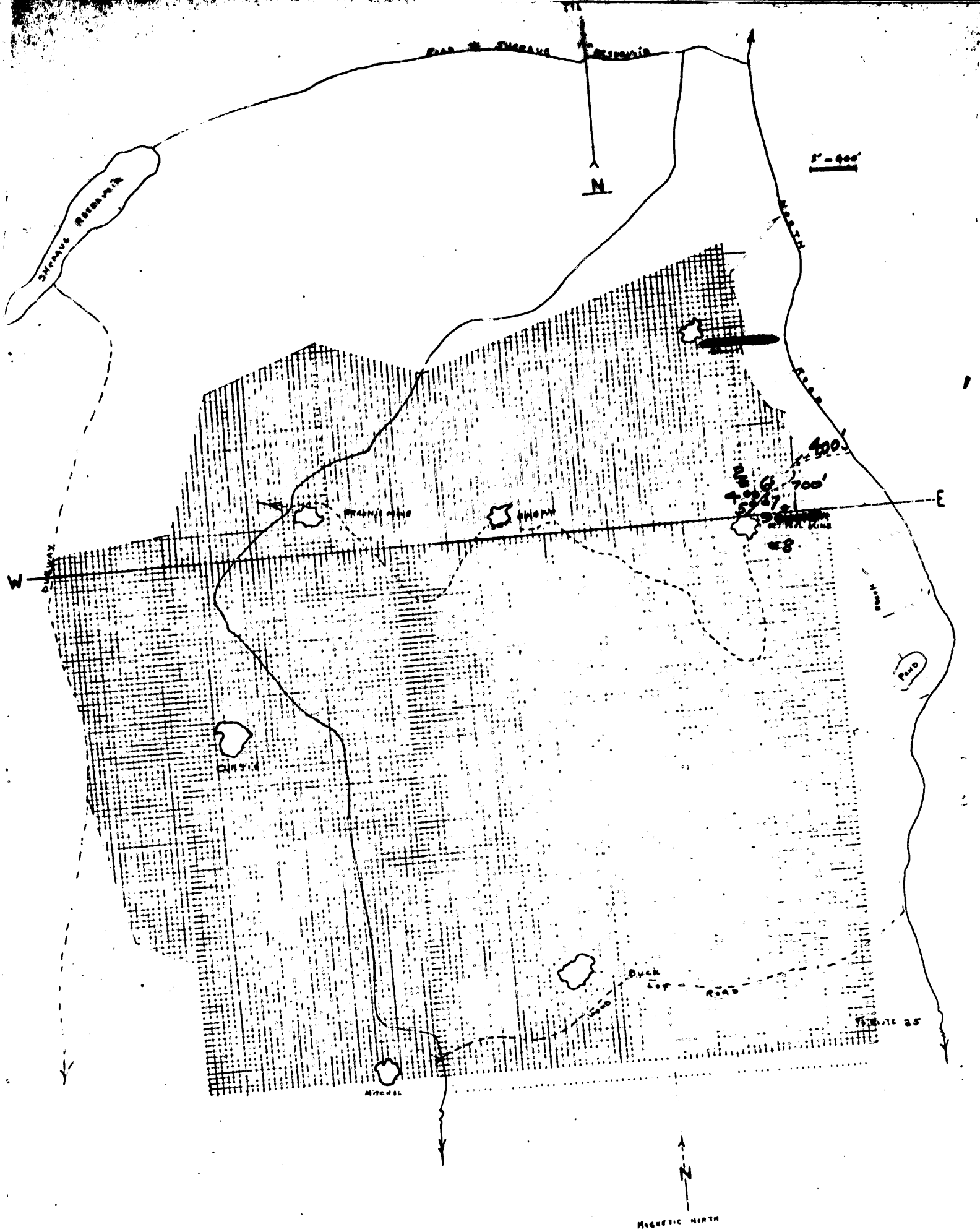


FIGURE 8 SHOWING LOCATION OF DIAMOND DRILLING HOLES IN REFERENCE TO "OLD POOL MINE"
N.M. HOLE #8

KEY MAP- PROSPECT MOUNTAIN IN BANTAM CONN.



Nickel Prospect - Prospect Mountain Litchfield Conn.

Anomaly Report of Grid Survey - Distance between each square represents 50 feet - North line compensated for 13° W.

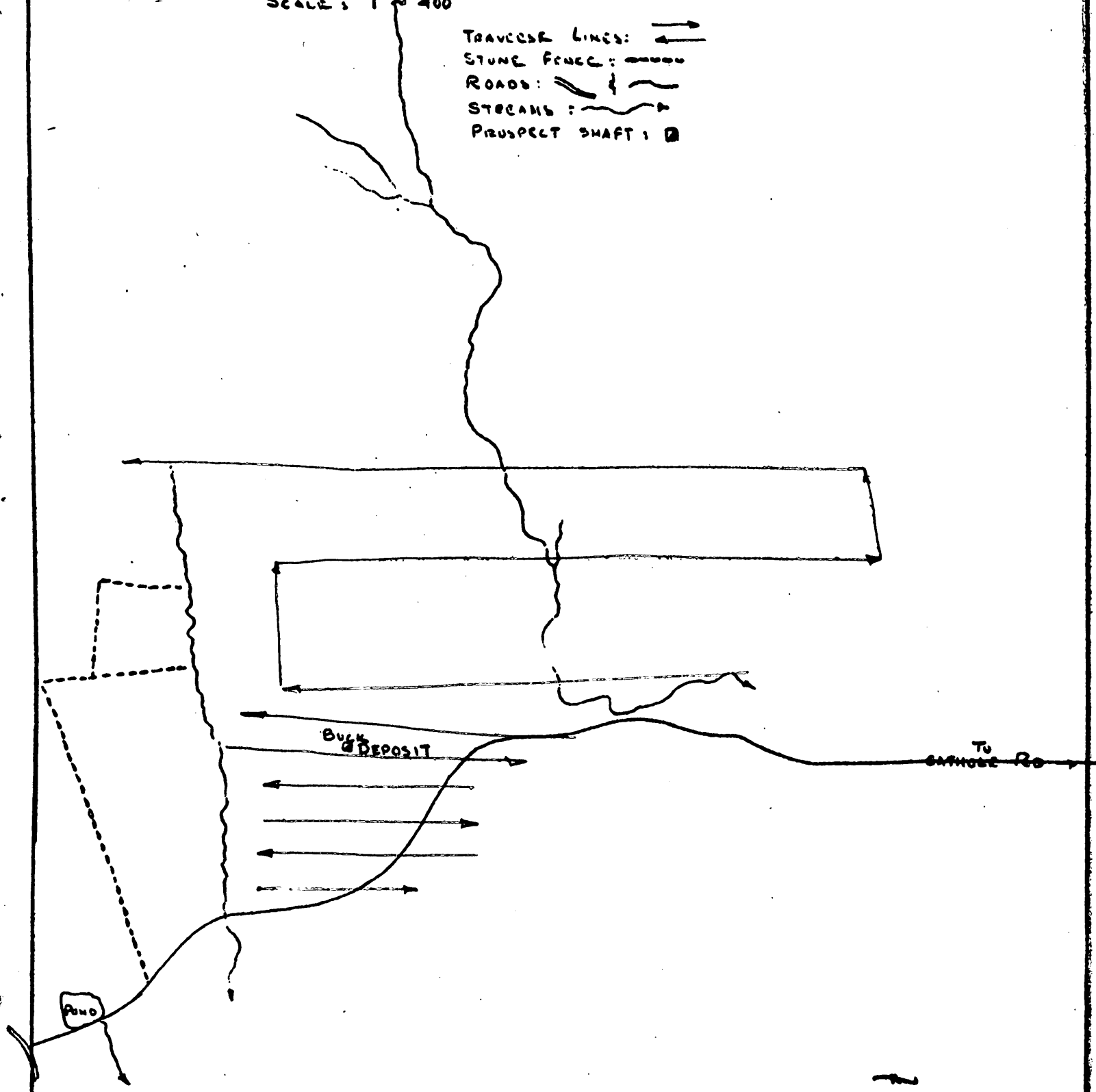
Map drawn by Arthur Levine and Charles Citelli

Nutmeg Mining Corp
Lakeville, Conn. - Dec 26, 1957

PLATE 1

ELECTROMAGNETIC TRAVERSE LINES

SCALE: 1" = 400'



Packet 4998

H.L. JENSEN
APRIL, 1958

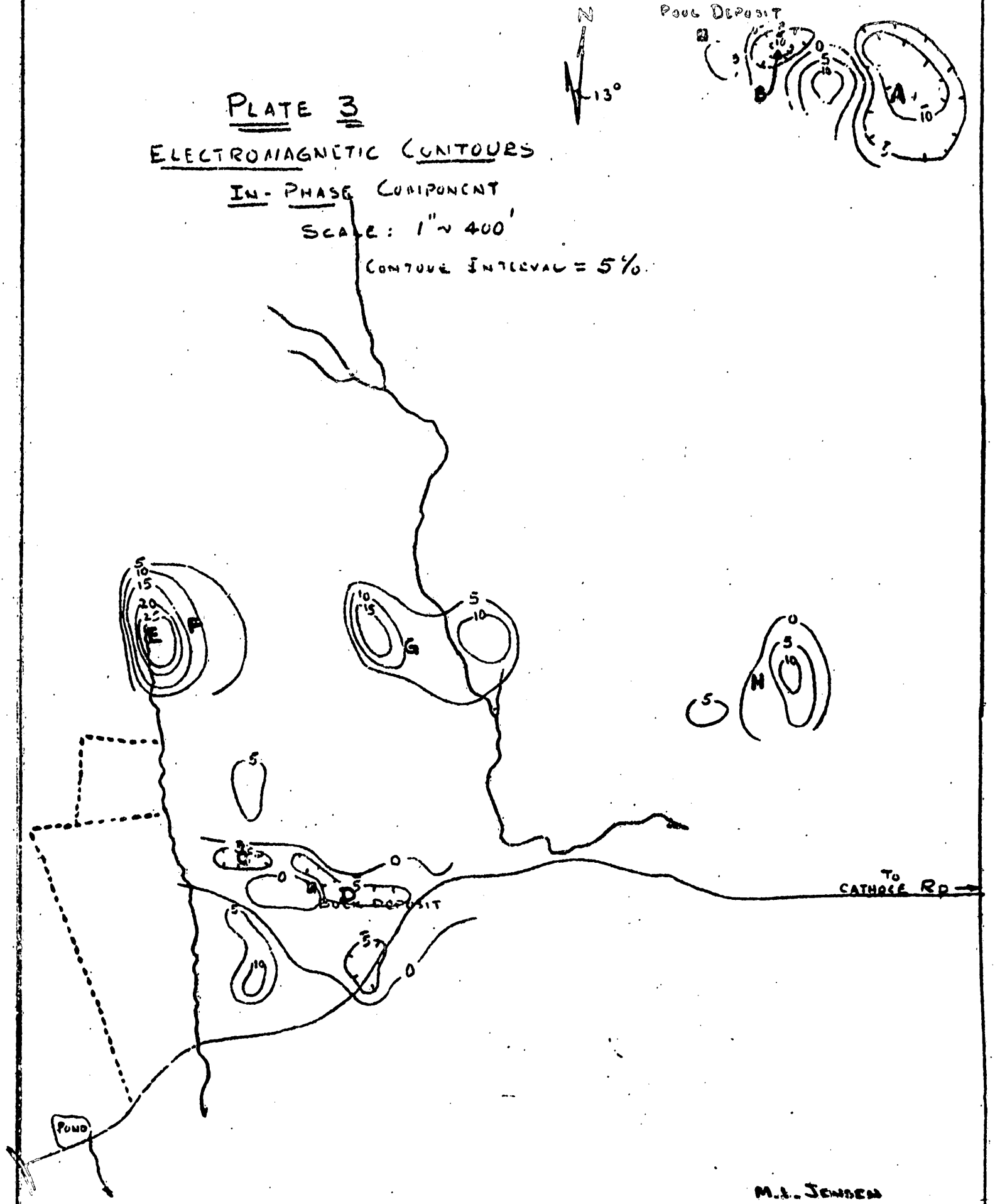
PLATE 3

ELECTROMAGNETIC CONTOURS

IN-PHASE COMPONENT

SCALE: 1" ~ 400'

CONTOUR INTERVAL = 5%



M.L. JENSEN
APRIL, 1958

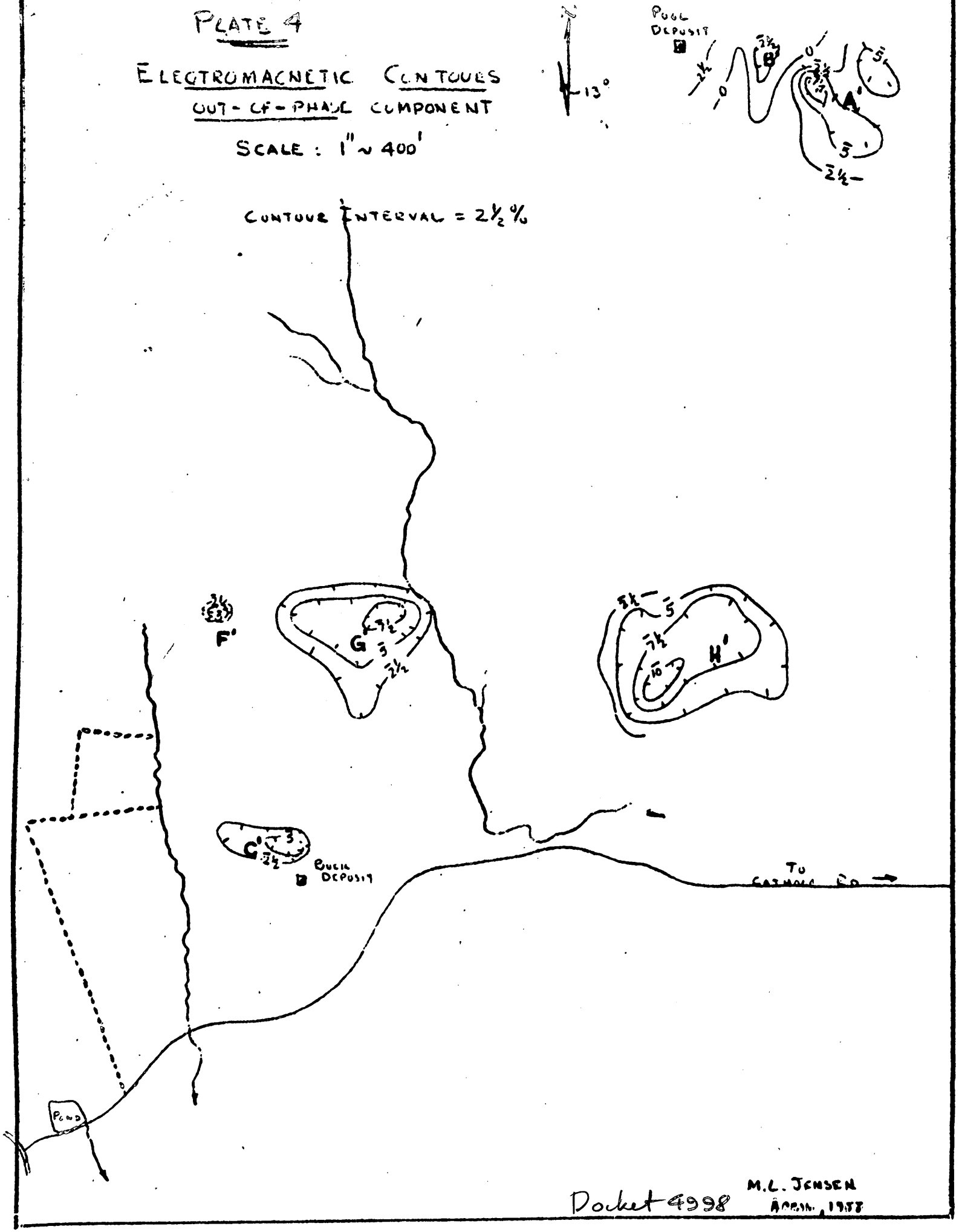
Docket 4998

PLATE 4

ELECTROMAGNETIC CONTOURS
OUT-OF-PHASE COMPONENT

SCALE : 1" ~ 400'

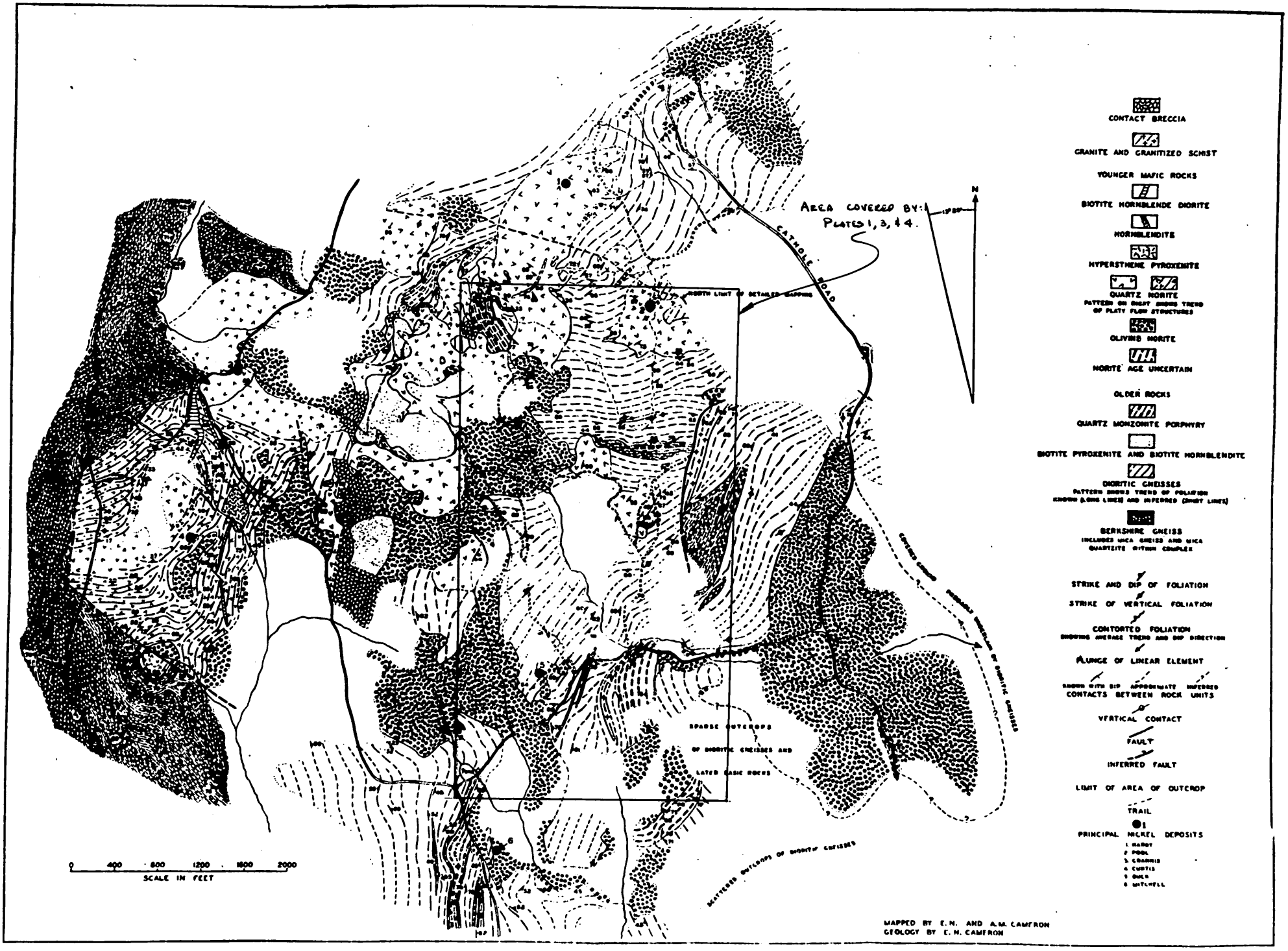
CONTOUR INTERVAL = 2½ %



Docket 4998

M.L. JENSEN
APRIL, 1958

PLATE II



Geologic Map of the Northwestern Part of the Mt. Prospect Complex

Docket 4998

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-28	Martin	400
6/2	Selfridge	130
6/2	Lamb	130
6/2	Ridgeard	130
6/3	Johnson	110
	Matthews	100
6/4	C	228
		400

JUN 3 1958

Nutmeg Mining Corporation
Borden Building
Lakeville, Connecticut

Re: Docket No. DMEA 4998 - Nickel
and Cobalt
Old Pool mine
Litchfield County, Connecticut

Gentlemen:

From your telephone conversation of May 20, 1958, with Mr. H. L. Burmeister we understand that you will not be replying to our letter of May 9, 1958, regarding your application. This is because you have no diamond drill logs and assays other than those first you sent to Mr. Burmeister with your letter of February 24, 1958.

As you know, your application of April 24, 1958, provided us with no new geological information except Mr. Mead LeRoy Jensen's undated report covering his examinations of the subject property on April 3 and 17, 1958. That report as you requested is returned herewith.

Our letter of August 19, 1957, denying your previous application for exploration aid at this same property (Docket No. DMEA 4634) stipulated as follows:

"In the event further work on your part discloses new and favorable evidence of ore deposition on the property, we shall be pleased to consider a new application, appropriately supported by geophysical or geological mapping, with related sampling and assaying."

Consideration of the above-mentioned diamond drill logs and Mr. Jensen's report, however, confirms us in our previous conclusion that the probability of disclosing significant ore reserves is not

8623

sufficiently promising to justify Government participation. We regret to advise you, therefore, that we must repeat our denial.

We wish to thank you for your continued interest in the Defense Minerals Exploration Administration program, and for having presented a revised application for the subject property.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WSMARTIN/dlm 5-28-58
cc to: Code 400
Admr. R. File
Oper. Comm.
REGION V
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

MR. SELFRIDGE:

Enclosures with this letter are:

- 1 cy ea. memos dtd 5/5/58 by HWDavis & WPWilliams.
- Ltr. dtd 2/24/58 by Levine (note to HB—perhaps Mr. Burmeister).
- Ltr. 5/23/57 to Levine fm. Hitchkiss
- Ltr. 4/14/58 to Levine fm. Burmeister
- Ltr. 3/5/58 to Levind fm. Burmeister
- Memo 3/6/58 to VJLynch fm. Burmeister
- Ltr. 2/24/58 to Burmeister fm. Levine
- 1 cy ea. Figures 1, 2, 3, 4, 6, 7, & 8.
- 1 large map.

See 5/21 Burmeister ltr.

HB

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5.28	Martin	400
6/2	[illegible]	130
6/3	[illegible]	110
"	Mittendorf	100
		220
6/2	[illegible]	130
6/2	Kiilsgaard	130

JUN 3 1958

Mr. H. L. Burmeister
Mining Division
Bureau of Mines
College Park, Maryland

Re: Docket No. DMEA 4998 - Nickel
and Cobalt
Nutmeg Mining Corporation
Old Pool mine
Litchfield County, Connecticut

Dear Mr. Burmeister:

Returned herewith are the enclosures sent to Mr. C. O. Mittendorf with your letter of May 21, 1958.

We thank you for this information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

APPROVED:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

Enclosures

WSMARTIN/dlm 5-28-58
cc to: Code 400
Admr. R. File
Oper. Comm.
REGION V
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-28	Martin	400
6/2	[illegible]	130
6/3	Johnson	110
"	[illegible]	100
		220
		400

JUN 3 1958

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13 Post Office Building
Knoxville 2, Tennessee

Re: Docket No. DMEA 4998 - Nickel
and Cobalt
Nutmeg Mining Corporation
Old Pool mine
Litchfield County, Connecticut

Dear Mr. Laurence:

Enclosed are the following items:

(1) Your file copies (seven sections and a map) that you sent to us with your letter of May 20, 1958, regarding the captioned property.

(2) Copies of our self-explanatory letter of today to the subject applicant.

(3) Memoranda on the same subject from Hubert W. Davis, Bureau of Mines, and W. P. Williams, Geological Survey, both dated May 5, 1958. A copy of each is being sent directly to Mr. H. L. Burmeister.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

APPROVED:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

Enclosures

WSMARTIN/foc 5-28-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. V
Messrs. Hubert W. Davis, USBM
T. H. Kiilsgaard, USGS

8623

DME: 6 REFERENCE SLIP

REV. DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. 130		
2. 170		
3. 100		
4. 400		
5.		

FROM: W. S. MARTIN 6-2-58

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information ____

REMARKS:

This memorandum is submitted in draft form because we would like to send a copy of the draft to Mr. Burmeister for his approval, before typing in final form.

6/4/58 Talked on phone to HLB and sent him a thermofax copy. OK to type

INT.-DUP. SEC., WASH., D.C. M8278

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/16	Martin	400
		166
		100

June 2, 1958

MEMORANDUM

To: Administrator

From: Division of Iron and Fero-Alloys

Subject: Denial of application for exploration and assistance in the amount of $40,000.00
Docket No. DMEA 4998 - Nickel-Cobalt
Nutmeg Mining Corporation
Old Pool Mine
Litchfield County, Connecticut

A denial of the subject application by reaffirming out denial (Docket No. DMEA-4634) of August 19, 1957, for exploration assistance is recommended by this Division on the basis of the following information.

Applicant)	Please refer to our denial
Property Ownership)	memorandum of August 13, 1957,
Geology)	in Docket No. DMEA - 4634
Past History - Production)	
Proposed Work)	

Comments

By letter of February 24, 1958, with supplement of the same date, the Applicant submitted drilling data to Mr. H. L. Burmeister, and requested by telephone call of February 28, 1958 that the information by reviewed to determine whether it justified reopening the earlier denial. The matter was, however, held in abeyance inasmuch as the Applicant also stated that an electromagnetic survey would be made in late March 1958. On April 14, 1958, Mr. Levine again telephoned Mr. Burmeister, who sent to him on the same day copies of the application Form (MF-103) and related instructions.

The application, received here May 1, 1958, consisted only of the completed Form MF-103 and the report of Mr. Mead Le Roy Jensen, Asst. Professor of Geology, on his examination of April 3 and 17, 1958, The recommendations of the commodity specialists, both dated May 5, 1958, followed somewhat diverse lines. Therefore, instead of making a field referral, we

asked the Applicant by letter of May 9, 1958, to provide drill hole and assay data. If the information discussed in the preceding paragraph had been available here our letter would, of course, have been prepared differently.

On May 20, 1958, Mr. Levine advised Mr. Burmeister by telephone that no more drilling data would be provided. This call was followed by a series of conversations between College Park and Knoxville or Washington, and resulted in Mr. Laurence's letter of the same date to the Operating Committee, and Mr. Burmeister's letter of May 21, 1958, to the Administrator. The attachments to this last letter included a copy of letter to Mr. Levine of May 23, 1957, from Mr. Eugene B. Hotchkiss, Vice-President for Vitro Corporation of America, which can only be considered as prejudicial to the property.

Study of the drilling data and the geophysical report confirms our conclusion that the proposed project is too insignificant to justify Government participation. Ordinarily we would not recommend a denial without a formal field examination, but in this instance we believe that any further investigation is unwarranted.

W S Martin

W. S. Martin, Director
Division of Iron and Ferro-Alloys

6-16-58
cc - Docket
Code 400

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

5/22	C	220
	WSM	400

May 21, 1958

Memorandum

To: V. J. Lynch, Bureau Member, DMEA Field Team

From: Mine Examination and Exploration Engineer

Subject: DMEA 4998 (Wickal), Nutmeg Mining Corp.
Old Pool Mine, Litchfield County, Conn.

Referring to our telephone conversation yesterday in connection with the drill hole and assay data furnished by the Applicant.

As agreed I called Mr. Martin in Washington after completing our call. Mr. Martin suggested that I send all of the data to Washington and that he would have sufficient duplicates made for distribution and would also see that the Applicant was advised relative to these data.

Mr. Martin suggested that Bill Williams bring his copies of this material to Mr. Martin's office for review. I called Williams who said he would immediately take the material to Mr. Martin's office.

N. L. Barnsleyper

cc: RALaurence
W.P.Williams, USGS
W. S. Martin, Washington Office
1. PMAmbrose 2. Sta. Files
Mining
DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION V

EASTERN
EXPERIMENT STATION

COLLEGE PARK, MARYLAND

May 21, 1958

OFFICE OF THE DIR.
DMEA
RECEIVED MAY 22 1958
DATE | INITIAL | CODE
5/22 | C | 220
| WSM | 400

Memorandum

To: C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration

From: Mine Examination and Exploration Engineer

Subject: DMEA 4998, Nutmeg Mining Corp.
Old Pool Mine, Litchfield County Conn.
(Formerly DMEA 4634)

Enclosed are the entire core drill and assay data submitted by the Applicant on February 24, 1958, together with correspondence relative to this data.

These data consist of seven sheets of drill hole sections with core assays and one plan map indicating drill hole locations. The correspondence consists of Mr. Levine's covering letter of February 24, a letter dated May 23, 1957 from Vitro Corporation of America to Mr. Levine, the writers two letters to Mr. Levine under dates of March 5 and April 14, 1958 and my memorandum of transmittal of copies of all the Applicant's material dated March 6, 1958.

Mr. Martin, Chief of the Iron and Ferro-Alloys Division plans to have duplicates made of this material and return the enclosures to this office for my files.

H. L. Burmeister

H. L. Burmeister

Enclosure:
As noted above

UNITED STATES
DEPARTMENT OF THE INTERIOR
[illegible] EXPLORATION ADMINISTRATION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

OFFIC[illegible]

[illegible]

[illegible]

To: [illegible] Lynch, [illegible]

From: Mine Examination and Exploration Engineer

Subject: DMEA [illegible] ([illegible])
[illegible] Mining Corp., Old Fort [illegible]
[illegible] County, [illegible]

On February 27, 1953, I received additional data from [illegible] on the subject application and on February 28 a telephone call from Mr. Levine.

I have made two (2) copies of each item received, 1 copy [illegible] and the second copy is enclosed for your files.

The letter I wrote Mr. Levine was written to confirm receipt of the data and also his telephone call but was written before reviewing the data. Data resulting from their "[illegible]" drilling were not [illegible]

Mr. Levine telephoned again this morning and informed me that they have just signed a contract for a professional electromagnetic survey to be made the latter part of March.

In view of this development it seems advisable to postpone final judgment on approval or denial until after receipt of the data obtained by the EM survey.

The application was denied without prejudice and I believe it could be reopened by submittal of additional and favorable data. If this is in error, will you please let me know.

E. L. [illegible]

[illegible]

[redacted]

[redacted]

[redacted]

NUTMEG MINING CORPORATION
LAKEVILLE, CONNECTICUT

[illegible] BUILDING [illegible]

February 24, 1958

Mr. H. L. Burmeister
Bureau of Mines
College Park
Maryland

Re: Docket No. DMEA 4634
Ni-Co Old Pool Mine
Litchfield County
Connecticut

Dear Mr. Burmeister:

Enclosed are copies of seven maps indicating the location of seven drill holes completed as of December 26, 1957, on the Old Pool property; hole five was an abandoned hole and hole six replaces same; and hole nine which was to be our final hole in this phase of our program, totaling 750 feet, was not started. With the completion of hole nine, we hope to confirm a new ore deposition located in the vicinity of holes one, eight and nine, conducted by a preliminary survey of an EM rig in May 1957.

Please acknowledge delivery of the above.

Sincerely yours,

Arthur P. Levine
President

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

DATE	INITIALS	CODE

COPY

- H. B. -

Feb. 24, 1958

The area covered by the Enka E M rig was limited only around the Old Pool. The hot spot was mainly found at the vicinity of holes 8,1, and 9. Our best readings of assay, were there. We are sorry that we couldn't sink #9, as the driller had urgent business elsewhere. Also, in the light of our drilling one didn't consider this letter as very important at that time.

The uranium proptery mentioned, is actually in the town of Sugarloaf and Monroe, N. Y.

Sincerely yours,

S/ Arthur Levine

P. S. Enclosed is an overall map showing hole locations.

_____ A. L.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

DATE	INITIALS	CODE

COPY

VITRO CORPORATION OF AMERICA

261 Madison Avenue

New York 16, N. Y.

May 23, 1957

Mr. Arthur Levine
1244 Fiftieth Street
Brooklyn, New York

Dear Mr. Levine:

Dr. Bateman and I have discussed the indications of the nickel ore body on your property near Bantam, Connecticut, after the preliminary survey we made with the E. M. rig May 9.

It was Dr. Bateman's conclusion that the geology of this area, which as you know is quite well written up in the literature, would indicate that any ore body would be small. From his experience with similar situations in Canada, he has estimated that the total possible ore in the first location we examined could not be in excess of 40,000 tons and in all probability would be much less than this. A deposit of this size, even though fairly rich in grade, would not be economical and for that reason, we would not be interested in it.

Some time early in June, I hope to be able to look at the uranium property you mentioned near Warwick, New York, and I will be in touch with you as soon as I find out when I can make arrangements for this visit.

Dr. Bateman and I both enjoyed our visit to your property and he has asked me to communicate his appreciation for your hospitality to you.

Sincerely,

/s/ Eugene B. Hotchkiss

Eugene B. Hotchkiss
Vice-President

EBH:ja

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

DATE	INITIAL	[illegible]
5/22	C	220
	WSM	400

May 20, 1958

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville,

Subject: DMEA-4998, Nutmeg Mining Corporation,
Old Pool Mine, Litchfield County, Connecticut

Enclosed are seven sections and a map relating to the subject application.

The sections are drill holes 1 thru 8 (no 5 was received). Sample analyses for each hole are shown on the section.

This is our file copy. Mr. Burmeister has been requested to furnish you with additional copies as soon as possible.

Robert A. Laurence

Robert A. Laurence

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-9	Chapman	400
5-9	Martin	400
5/10	Selfridge	420
5/10	Jensen	110
	C. Mittendorf	100
5/9	C	220
		400

MAY 9 1958

Nutmeg Mining Corporation
Borden Building
Lakeville, Connecticut

Re: Docket No. DMEA 4998 - Nickel-Cobalt
Old Pool Mine
Litchfield County, Connecticut

Gentlemen:

The above-referenced second application for exploration assistance for nickel-cobalt ores has been carefully reviewed.

The only new information you submitted is a report on a reconnaissance type geo-physical survey. We understand, however, you have also completed a number of drill holes and assays. If that is the case, please send us the related information at your earliest convenience.

Sincerely yours,

C. O. Mittendorf

Administrator

TLCHAPMAN/dlm 5-9-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. V.
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

8623

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 7 1958

5/7 C 220
WSM 400

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

May 5, 1958

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4998, Nutmeg Mining Corporation, Lakeville, Connecticut, Old Pool Mine, Litchfield County, Conn. (Nickel)

The property described in the present application is the same as that described in DMEA Docket 4634. A field examination was made by the Government on May 2, 1957. At that time the applicant stated he wished to conduct geophysical surveys of the property.

DMEA application 4634 was denied without prejudice on August 19, 1957. The letter of denial states, in part, "In the event further work on your part discloses new and favorable evidence of ore deposition on the property, we shall be pleased to consider a new application, appropriately supported by geophysical or geological mapping, with related sampling and assaying."

The applicant's main basis for submitting a new application is a reconnaissance type electromagnetic survey of the property. I wish to call attention to the following points with regard to the new application:

1. The EM anomalies appear to be small - 300 - 400 feet in diameter. This appears to bear out a long-standing belief that the nickel deposits of Mount Prospect are small pod-like masses.

2. The EM work done on the property so far is not thorough enough to form the basis for an adequate exploration project. The one drill hole mentioned by Mr. Jensen on Page 5 of his geophysical report would not constitute an appropriate DMEA project.

3. The last paragraph of the Jensen report recommends a more extensive electromagnetic coverage of the area.

4. It is known by the examining team who examined the property under the first application that the applicant has done some recent drilling on the property and that he has had core samples assayed. Yet the applicant has not submitted this late information.

In my estimation this new application is no great improvement over the first. The applicant could, once more, be asked for more information. The alternative would be to deny the application. A well executed program of surface geologic mapping coupled with a thorough geophysical survey could well change the aspect of the property. So far, though, I see nothing to change the conclusions reached in the report of field examination in DMEA 4634.

W. P. Williams

W. P. Williams

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

RECEIVED MAY 7 1958

DATE	INITIAL	
5/7	C	220
	WSM	400

May 5, 1958

Re: DMEA - 4998
Nutmeg Mining Corp.
Old Pool Mine
Litchfield County, Conn.
$40,000 - Nickel-Cobalt

Memorandum

To: W. S. Martin, Director, Division of Iron and Ferro-Alloys
Defense Minerals Exploration Administration

From: Hubert W. Davis, Branch of Ferrous Metals and Ferroalloys

Subject: Review of Application

Applicant's proposal pertains to a loan of $40,000 to explore for nickel and cobalt at the Old Pool mine in Litchfield County, Connecticut.

A previous application (DMEA - 4634) was conditionally denied based on applicant's intention to have geophysical work done on the property. The results of this work are given in the present application.

It is recommended that the application be referred to the Field Team for its review of the geophysical work and its recommendation as to whether or not the work proved favorable enough for a re-evaluation of the property with regard to DMEA participation in exploration.

Hubert W. Davis

Hubert W. Davis

Attachments 2
Copy to: Ferrous Metals (2)
Div. of Minerals
Frank D. Lamb
Thor H. Kiilsgaard, U.S.Geol.Survey
Files

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

May 1, 1958

Nutmeg Mining Corporation
Borden Building
Lakeville, Connecticut

Subject: DMEA-4998

Gentlemen:

Your application for exploration assistance, dated April 24, 1958 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4998 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region V.