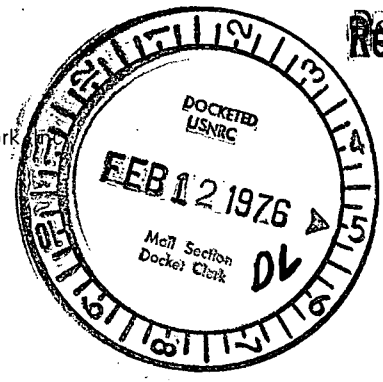
William J. Cahill, Jr.
Vice President

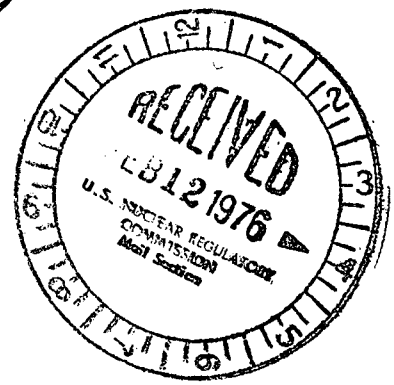
Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

Regulatory Docket File



February 11, 1976

50-286



Director of Nuclear Reactor Regulation
Attn: Mr. Domenic B. Vassallo, Chief
Light Water Reactor Branch No. 5
Division of Project Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Vassallo

As you requested, forwarded herewith are forty (40) copies of Plates K-17A, 17B, 17C and 17D which provide additional photographic documentation for Sample D-1. These plates should be inserted behind Plate K-17 in the January 19, 1976 supplement to the Dames and Moore report entitled, "Supplemental Geological Investigation of the Indian Point Generating Station".

The photomicrographs on Plates K-17, A, C and D show unstrained calcite crystals which formed in the NNE fault (F2 - see Appendix K). Plate K-17B shows a primary fluid inclusion in Sample D-1.

Any movement along this fault (F2) most likely would have crushed or at least strained these crystals.

Also forwarded herewith are forty (40) copies of higher quality reproductions of Plate L-1 which should be substituted for Plate L-1 presently contained in the supplement.

Very truly yours

William J. Cahill, Jr.
Vice President

enc.
mk

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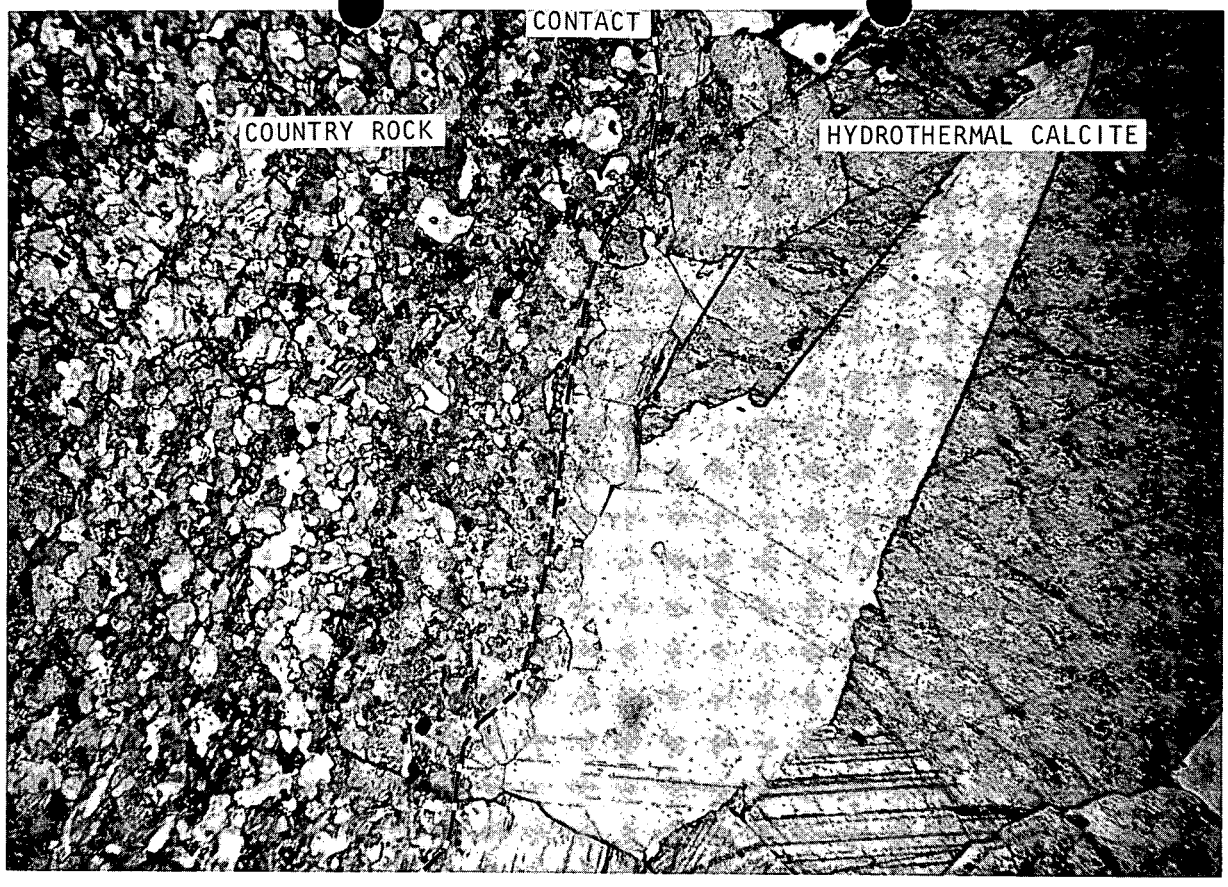
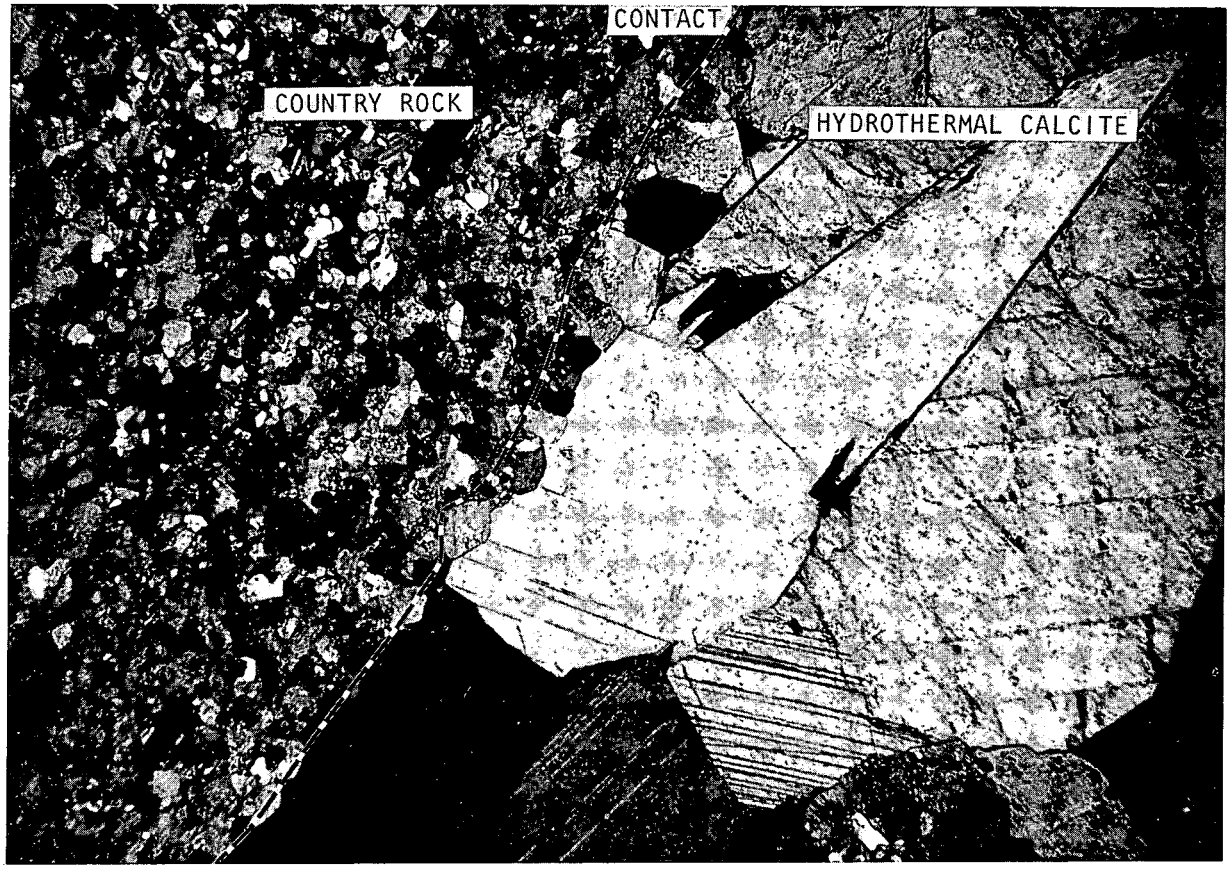


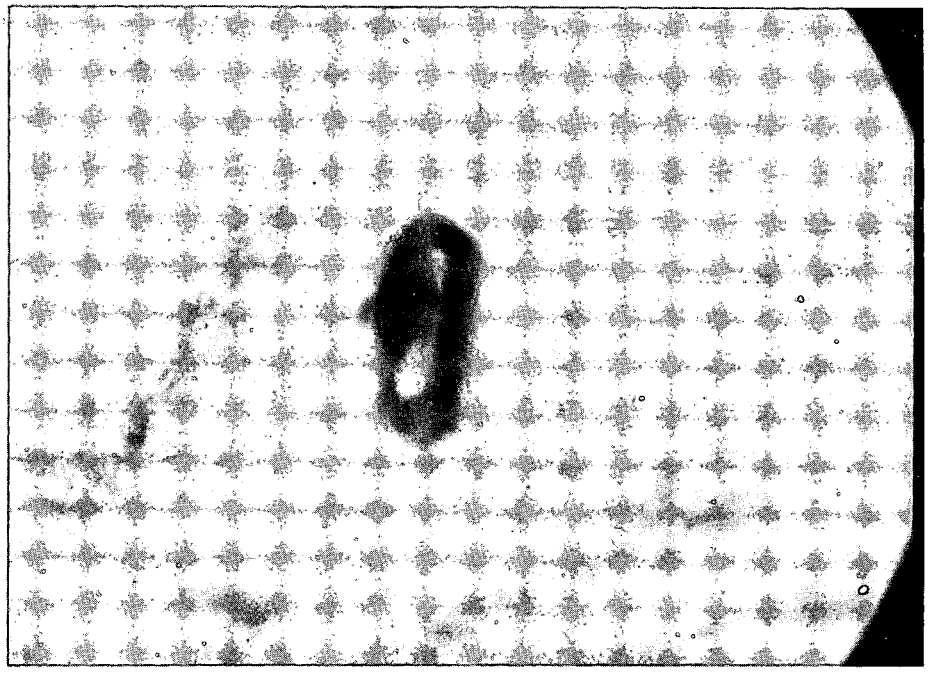


PHOTOMICROGRAPHS OF HYDROTHERMAL CALCITE IN CONTACT WITH COUNTRY ROCK.
SAMPLE FROM STATION ND-1. NOTE THE EUHEDRAL, POINTED CRYSTAL OF CALCITE SPAR.
TOP PHOTO - PLANE LIGHT: MAGNIFICATION = x20.
BOTTOM PHOTO - X-NICOLS: MAGNIFICATION = x20.

DAMES & MOORE

PLATE K-17A

Regulatory Docket File



PHOTOMICROGRAPH OF A VERY LARGE DARK PRIMARY FLUID INCLUSION WITH A DARK VAPOR BUBBLE IN SAMPLE D-1. THIS INCLUSION HAS A NEGATIVE CRYSTAL FORM THAT IS DIAGNOSTIC OF PRIMARY INCLUSIONS. LENGTH OF PHOTO 61 MICROMETERS.

PHOTOMICROGRAPH OF A SINGLE PRIMARY FLUID INCLUSION AND VAPOR BUBBLE IN SAMPLE D-1. LENGTH OF PHOTO 61 MICROMETERS.

DAMES & MOORE

PLATE K-17B

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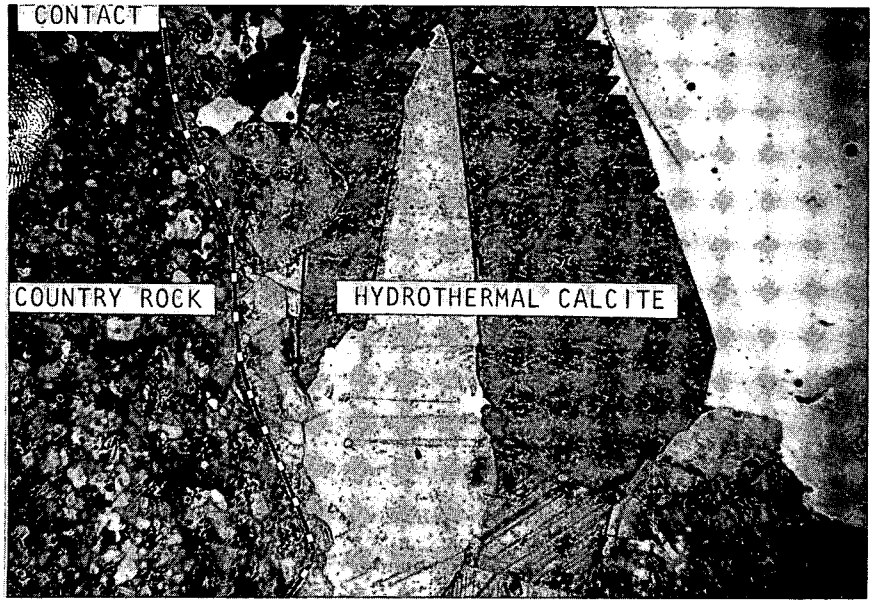

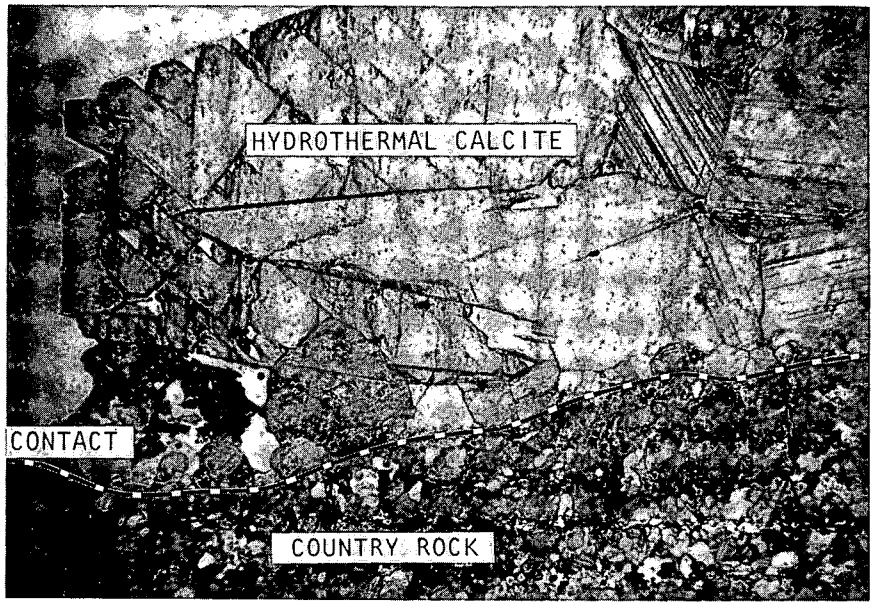

PHOTOMICROGRAPHS OF HYDROTHERMAL CALCITE IN CONTACT WITH COUNTRY ROCK. SAMPLE FROM STATION ND-1. NOTE THE EUHEDRAL, POINTED CRYSTAL OF CALCITE SPAR. PLANE LIGHT:MAGNIFICATION = x13

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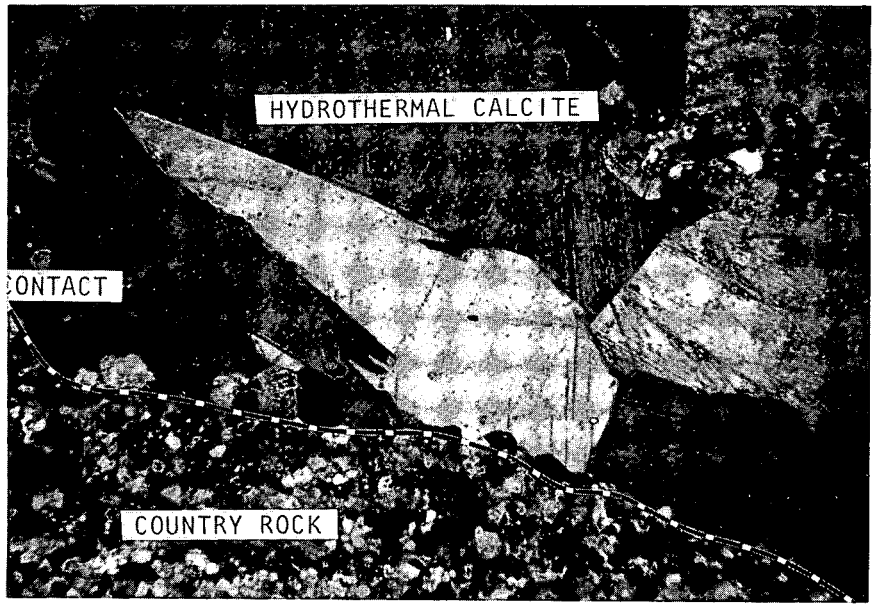
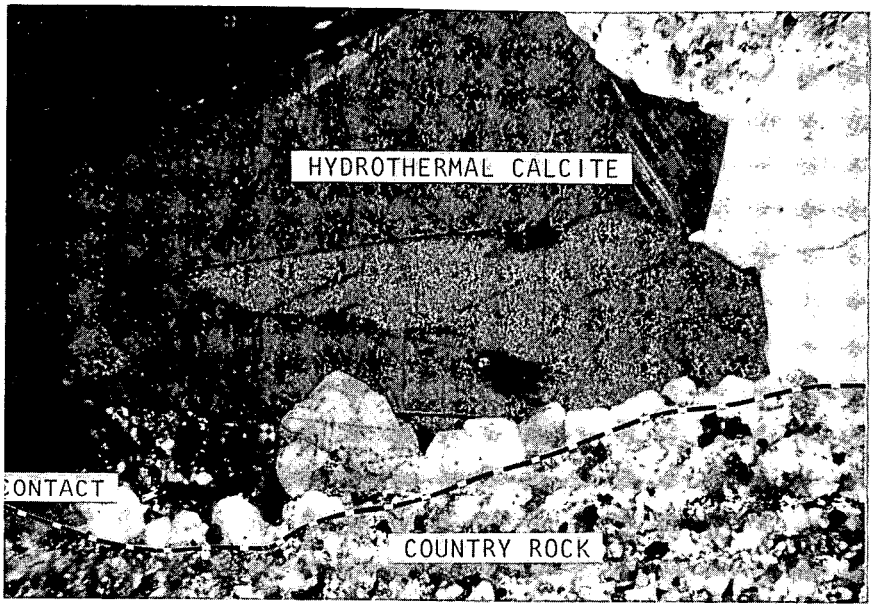
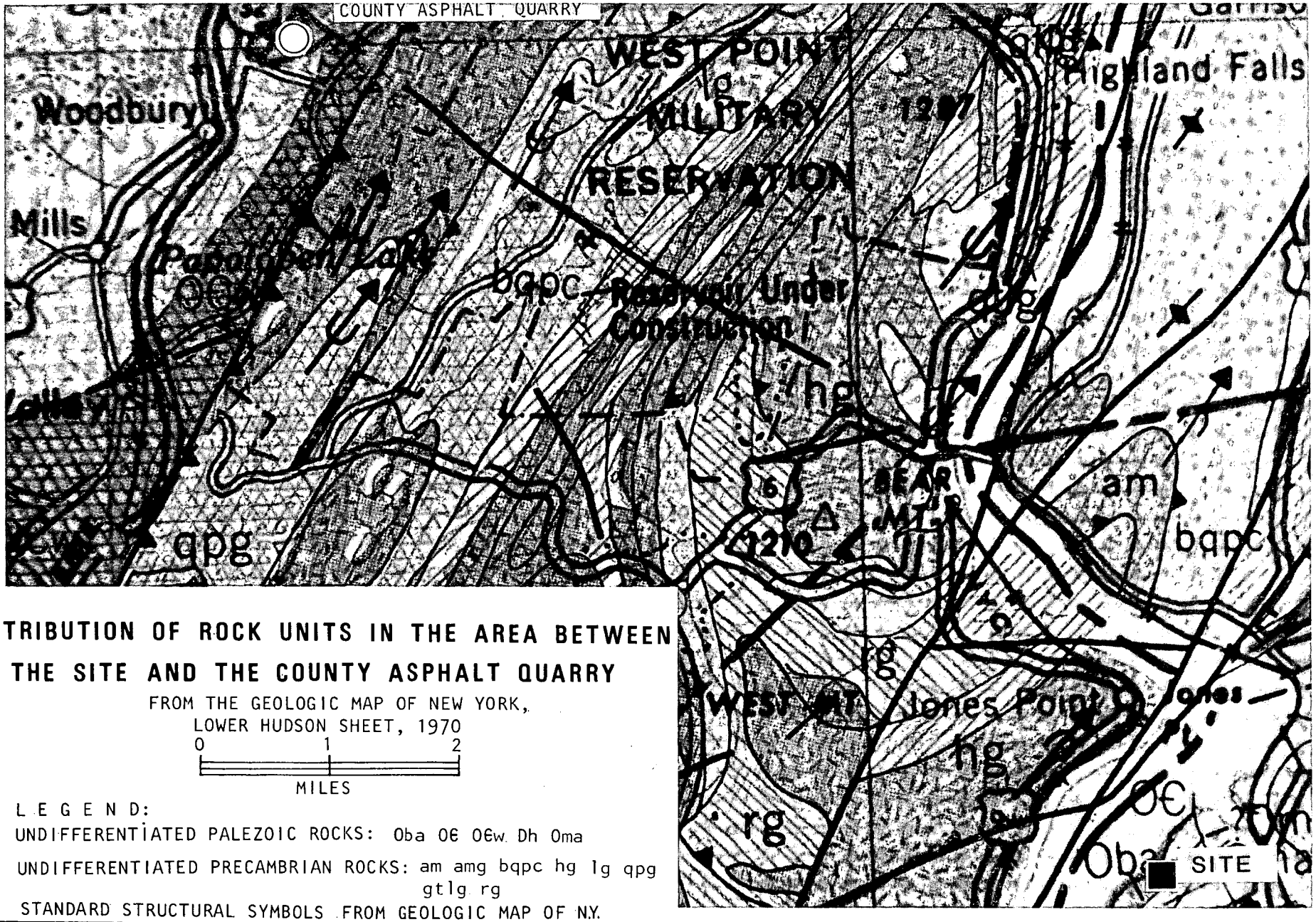




PHOTOMICROGRAPHS OF HYDROTHERMAL CALCITE IN CONTACT WITH COUNTRY ROCK. SAMPLE FROM STATION ND-1. NOTE THE EUHEDRAL, POINTED CRYSTAL OF CALCITE SPAR. X-NICOLS:MAGNIFICATION = x13



DISTRIBUTION OF ROCK UNITS IN THE AREA BETWEEN THE SITE AND THE COUNTY ASPHALT QUARRY

FROM THE GEOLOGIC MAP OF NEW YORK, LOWER HUDSON SHEET, 1970

0 1 2

MILES

L E G E N D:

UNDIFFERENTIATED PALEZOIC ROCKS: Oba O€ O€w Dh Oma

UNDIFFERENTIATED PRECAMBRIAN ROCKS: am amg bqpc hg lg qpg gtlg rg

STANDARD STRUCTURAL SYMBOLS FROM GEOLOGIC MAP OF N.Y.

DAMES & MOORE

PLATE L-1

Received w/Ltr Dated 2-11-76

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