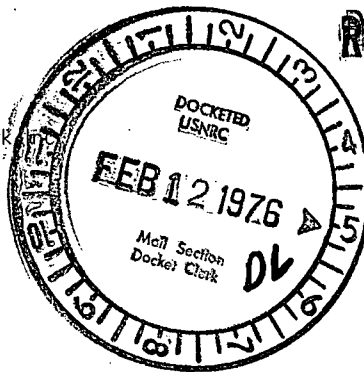


William J. Cahill, Jr.  
Vice President

Consolidated Edison Company of New York  
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.

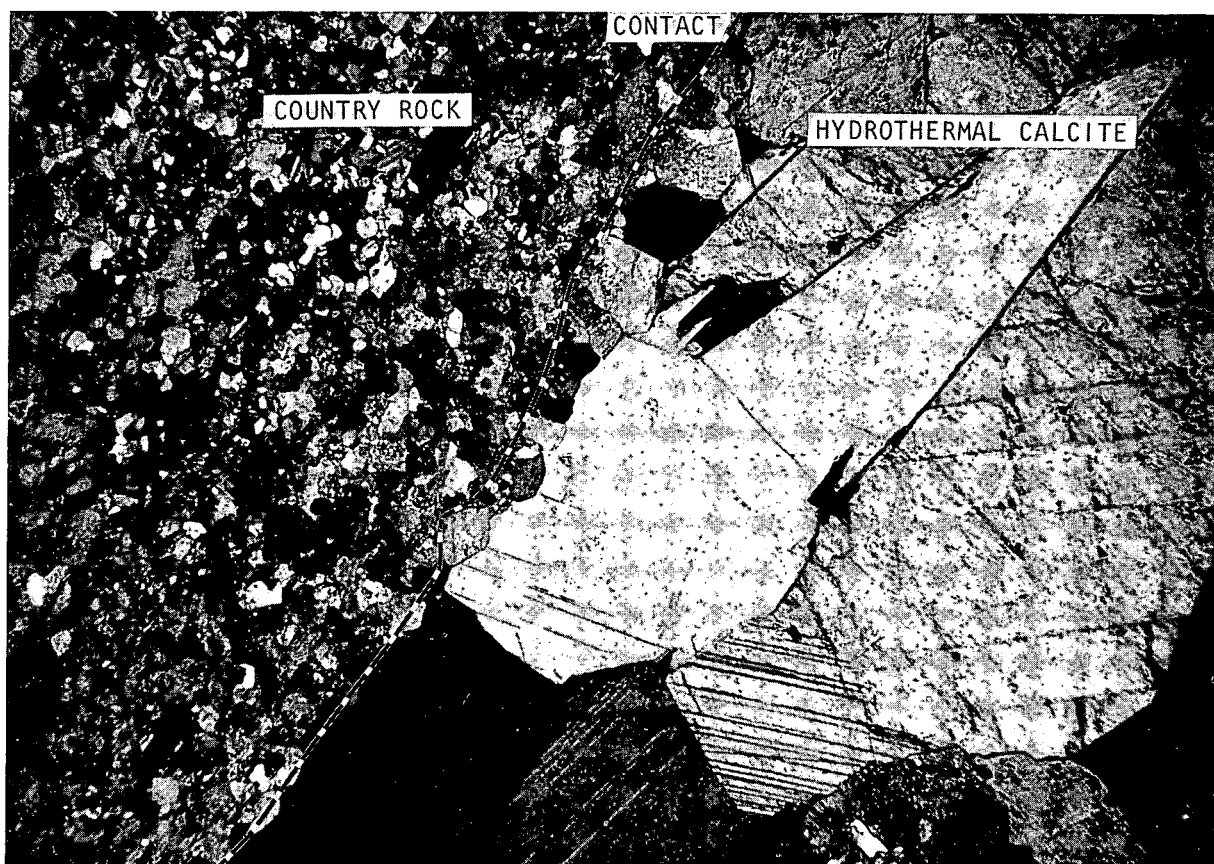
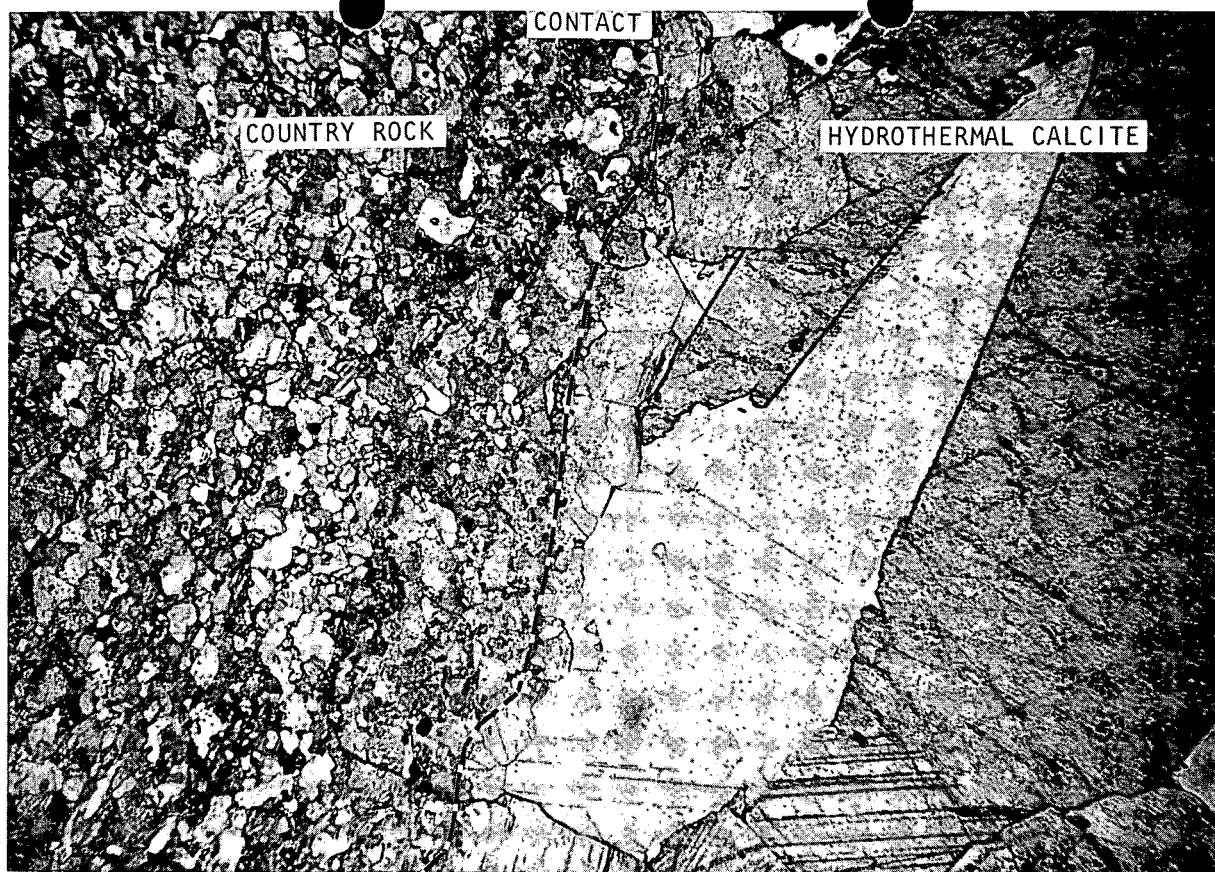
Very truly yours

William J. Cahill, Jr.  
Vice President

enc.  
mk

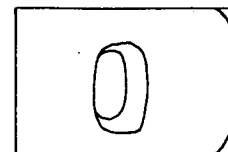
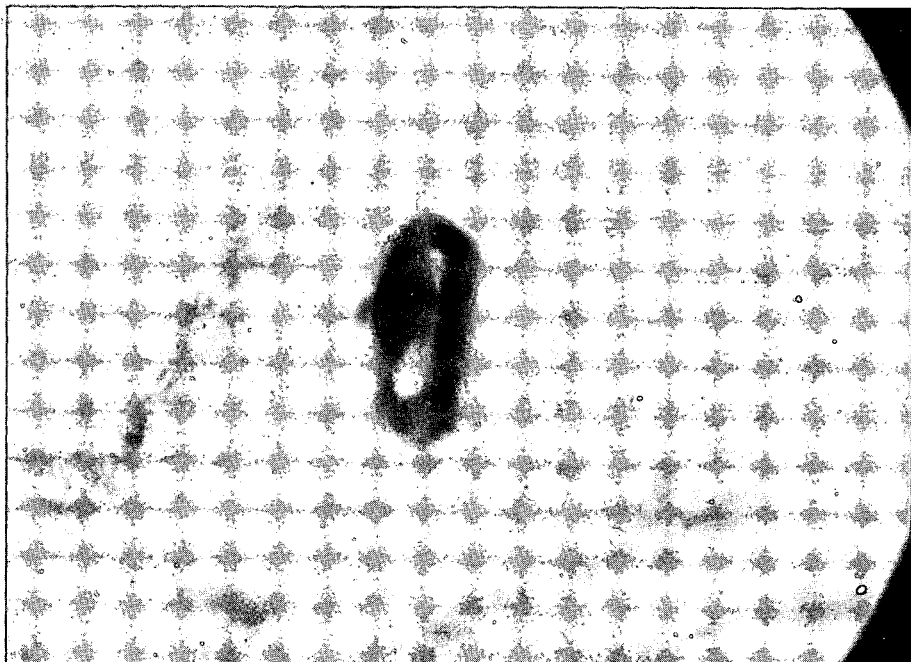
1423

8111180611 760211  
PDR ADOCK 05000286  
P PDR

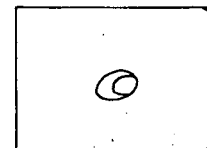


PHOTOMICROGRAPHS OF HYDROTHERMAL CALCITE IN CONTACT WITH COUNTRY ROCK.  
 SAMPLE FROM STATION ND-1. NOTE THE EUHEDRAL, POINTED CRYSTAL OF CALCITE SPAR.  
 TOP PHOTO - PLANE LIGHT: MAGNIFICATION = x20.  
 BOTTOM PHOTO - X-NICOLS: MAGNIFICATION = x20.

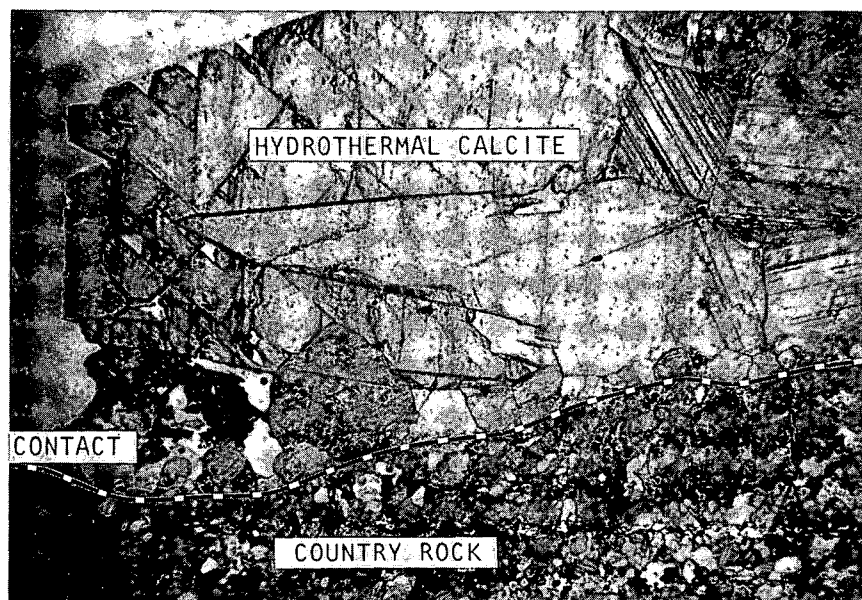
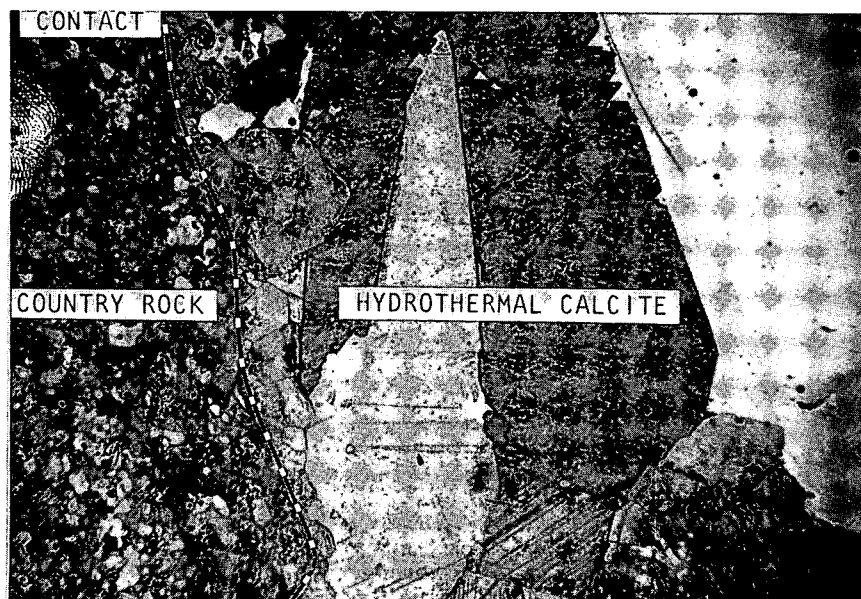
DAMES & MOORE



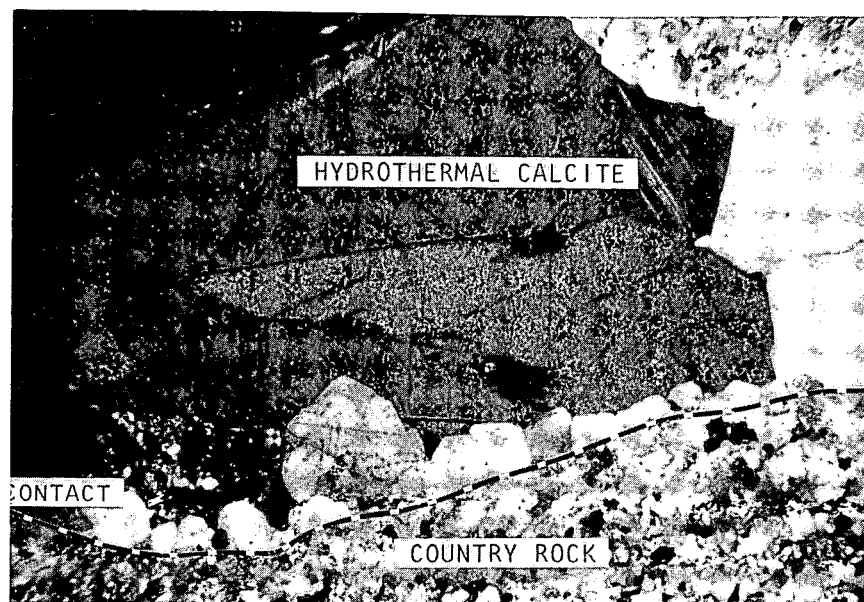
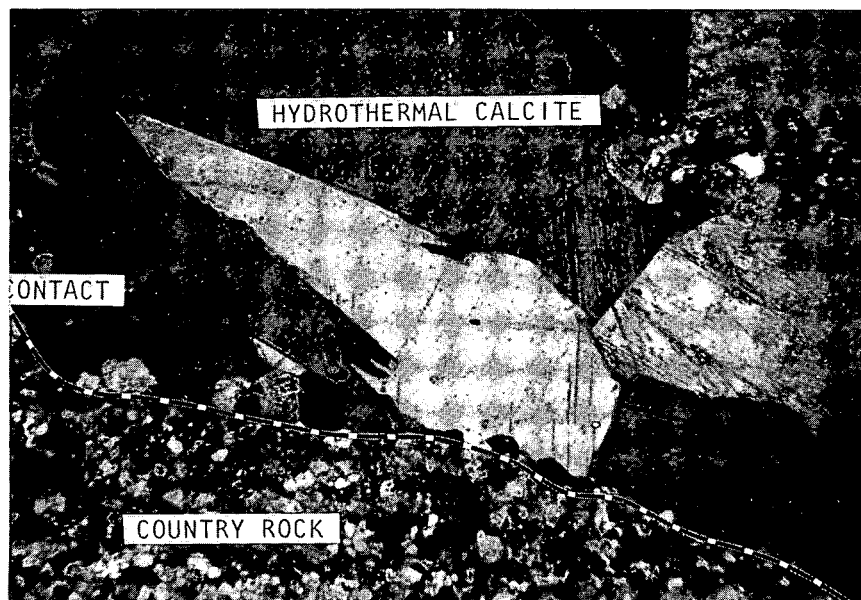
PHOTOMICROGRAPH OF A VERY LARGE DARK PRIMARY FLUID INCLUSION WITH A DARK VAPOR BUBBLE IN SAMPLE D-1. THIS INCLUSION HAS A NEGATIVE CRYSTAL FORM THAT IS DIAGNOSTIC OF PRIMARY INCLUSIONS. LENGTH OF PHOTO 61 MICROMETERS.



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

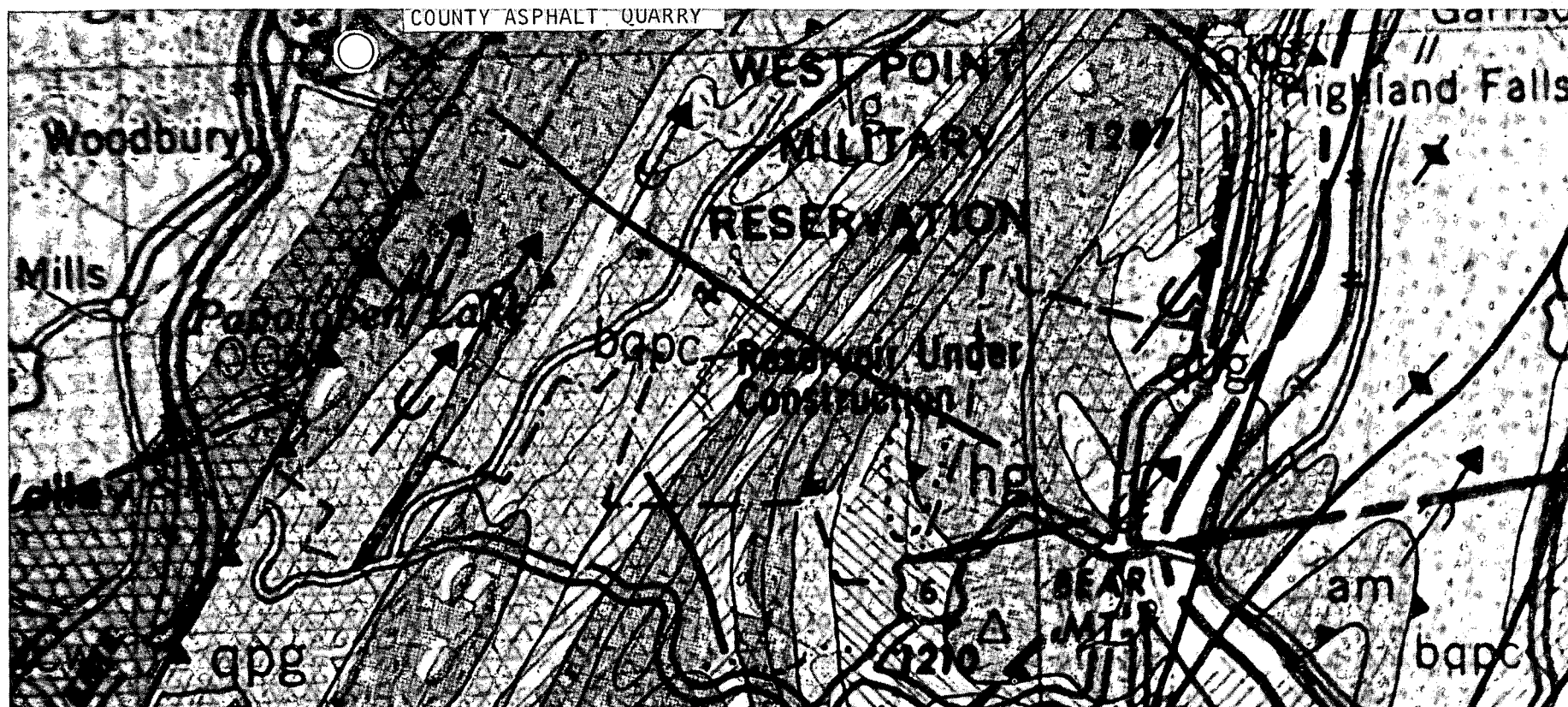


PHOTOMICROGRAPHS OF HYDROTHERMAL CALCITE IN CONTACT WITH COUNTRY ROCK.  
 SAMPLE FROM STATION ND-1. NOTE THE EUHEDRAL, POINTED CRYSTAL OF CALCITE SPAR.  
 PLANE LIGHT:MAGNIFICATION = x13



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 =  $\times 13$





# 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



## LEGEND:

UNDIFFERENTIATED PALEZOIC ROCKS: Oba O6 O6w Dh Oma

UNDIFFERENTIATED PRECAMBRIAN ROCKS: am amg bapc hg lg qpq  
gtlg rg

STANDARD STRUCTURAL SYMBOLS FROM GEOLOGIC MAP OF NY.

Revised W/Lr dated 2-11-76

Regulatory Docket File