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UNIVERSITY OF UTAH RESEARCH INSTITUTE

# UURI

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SALT LAKE CITY, UTAH 84108  
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May 31, 1979

## MEMORANDUM

TO: Duncan Foley, Howard Ross, Dennis Nielson and Jo Moore  
FROM: Mike Wright  
SUBJECT: Visit by Jim Young, Dunn Geosciences Corp., Albany, NY

Young wants to come see us Thursday, June 7 to review geothermal work they are involved in at Saratoga Springs, NY. Gerry Brophy told him to review with us their work and plans before proceeding.

Dunn Geoscience believes there is a hot water system at Saratoga. If so it would be a first on the east coast. They are apparently planning an exploration program, which they hope to have DOE fund.

Not every one need be at the review. I suggest Jo or Dennis for geology Howard or Ted for geophysics Dunc sitting in if time allows. We should be candid and offer constructive criticism. Brophy will probably ask us for an opinion later, but our input to Dunn will be important to shaping a successful project there.



Mike Wright

PMW/smk



**DUNN**  
GEOSCIENCE CORP

April 29, 1980

5 NORTHWAY LANE NORTH •  
LATHAM, NEW YORK 12110  
(518) 783-8102

Dr. Duncan Foley  
Earth Science Laboratory  
University of Utah Research Institute  
420 Chipeta Way  
Salt Lake City, UT 84108

Dear Duncan:

Sorry it took so long to pull this together, but enclosed you'll find topo sheets for the areas in which we can most easily envisage running electrical surveys, plus a preliminary interpretation of our temperature gradient information, and two rough cross-sections of what we expect to see at depth. I would like to say that we are in the process of checking our high gradient wells, and so would prefer that you consider the present data set with caution until we can confirm it, okay?

I really appreciate your help on this, and if there is any more info that you need to proceed, please just let me know.

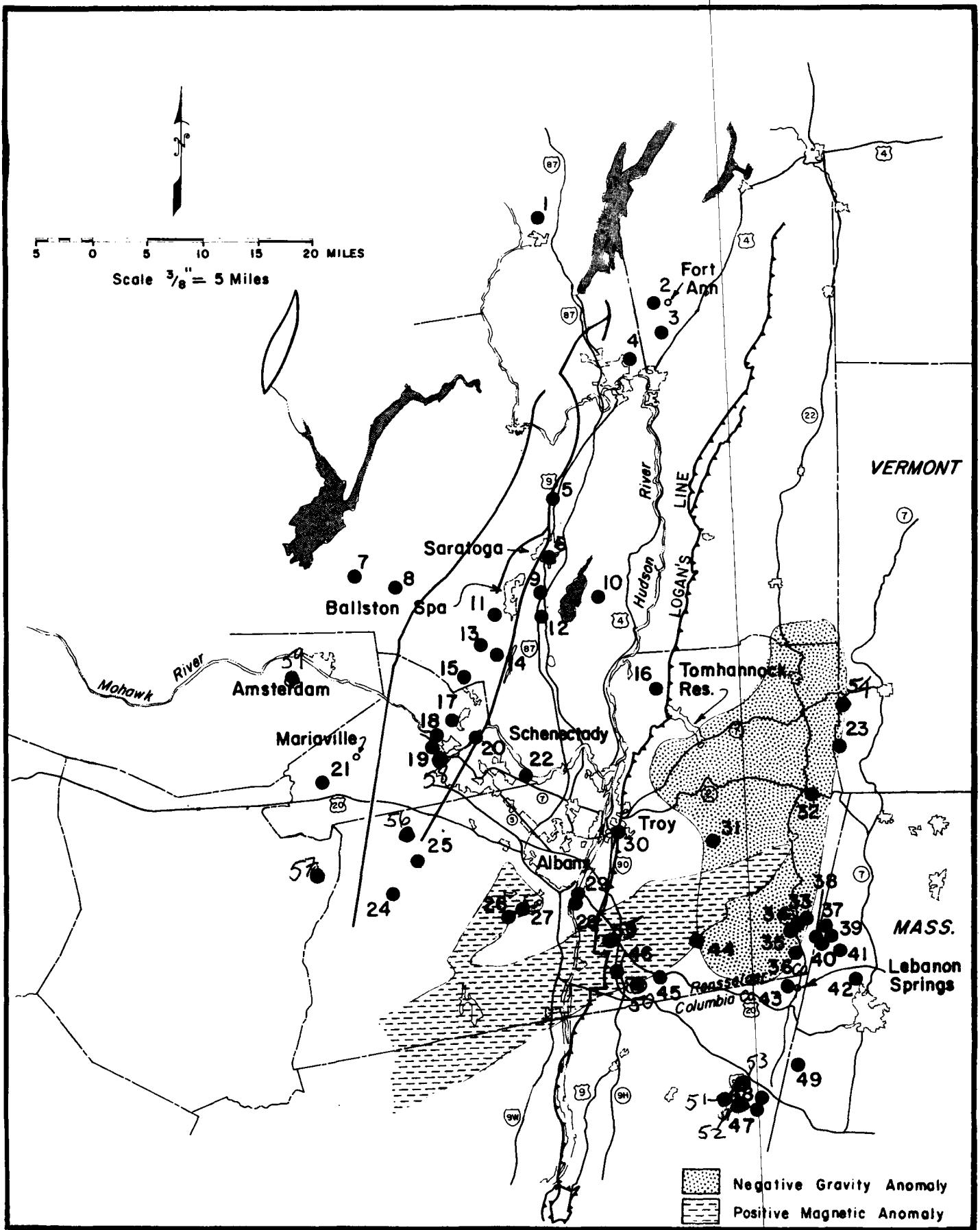
Thanks again,

*Maggie*

Margaret R. Sneeringer

jh

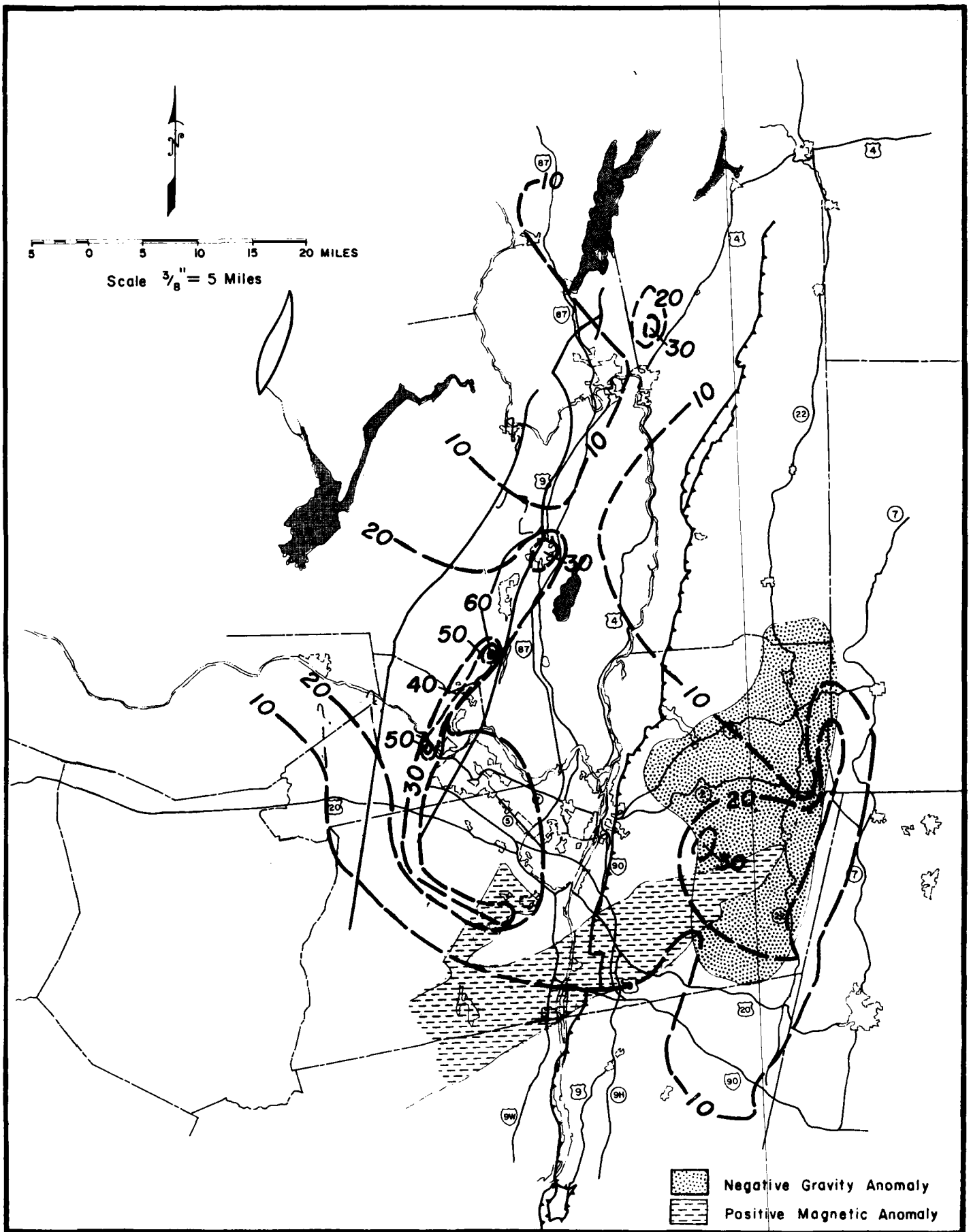
Enclosure



# Location Map for Temperature Gradient Measurements

Index Numbers Refer to Table I

Figure I



## Contour Map of Temperature Gradients

Contour Interval  $10^{\circ}\text{C/Km}$

(Based on first 49 T gradients measured) Figure 8



TABLE 1  
Site Specifics For Temperature Gradient Measurements

| Well Number | Owner                               | Well Depth(m) | (°C/km) Gradient | r <sup>2</sup> * | (°C) T1000M** |
|-------------|-------------------------------------|---------------|------------------|------------------|---------------|
| 1           | Herbert                             | 160           | 14.58            | .985             | 23.51         |
| 2           | Fort Ann School                     | 265           | 24.84            | .990             | 33.77         |
| 3           | Dairy                               | 170           | 39.97            | .966             | 48.90         |
| 4           | CIBA-GEIGY                          | 270           | 6.86             | .968             | 15.79         |
| 5           | South Glens Falls Elementary School | 100           | 10.00            | .875             | 18.93         |
| 6           | Big Red                             | 92            | 33.35            | .990             | 42.28         |
| 7           | McKay                               | 140           | 28.11            | .980             | 37.04         |
| 8           | Manell                              | 160           | 22.51            | .991             | 31.44         |
| 9           | Macica                              | 95            | 27.13            | .998             | 36.06         |
| 10          | USAF                                | 160           | 19.21            | .989             | 28.14         |
| 11          | B.P. Station                        | 165           | 27.69            | .995             | 36.62         |
| 12          | Rodriguez                           | 90            | 17.00            | .957             | 25.93         |
| 13          | Lipskay                             | 85            | 38.21            | .994             | 47.14         |
| 14          | Botta                               | 120           | 64.45            | .998             | 73.38         |
| 15          | Reville                             | 104           | 46.52            | .998             | 55.45         |
| 16          | Schaghticoke Fairground             | 105           | 14.85            | .973             | 23.78         |
| 17          | Kuczek                              | 80            | 17.40            | .997             | 26.33         |
| 18          | Widmer                              | 90            | 44.14            | .989             | 53.07         |
| 19          | Ferrante                            | 125           | 51.96            | .946             | 60.89         |
| 20          | United Plating                      | 300           | 26.56            | .973             | 35.49         |
| 21          | Wall                                | 105           | 7.80             | .976             | 16.73         |
| 22          | Urda                                | 178           | 29.64            | .999             | 38.57         |
| 23          | Pownal                              | 220           | 22.60            | .950             | 31.53         |
| 24          | Camp Pinnacle                       | 130           | 15.92            | .982             | 24.85         |
| 25          | Pollard                             | 130           | 30.39            | .995             | 39.32         |
| 26          | Cha n                               | 90            | 32.14            | .981             | 41.07         |
| 27          | Bastion                             | 135           | 26.62            | .967             | 35.55         |

Table 1 (continued)

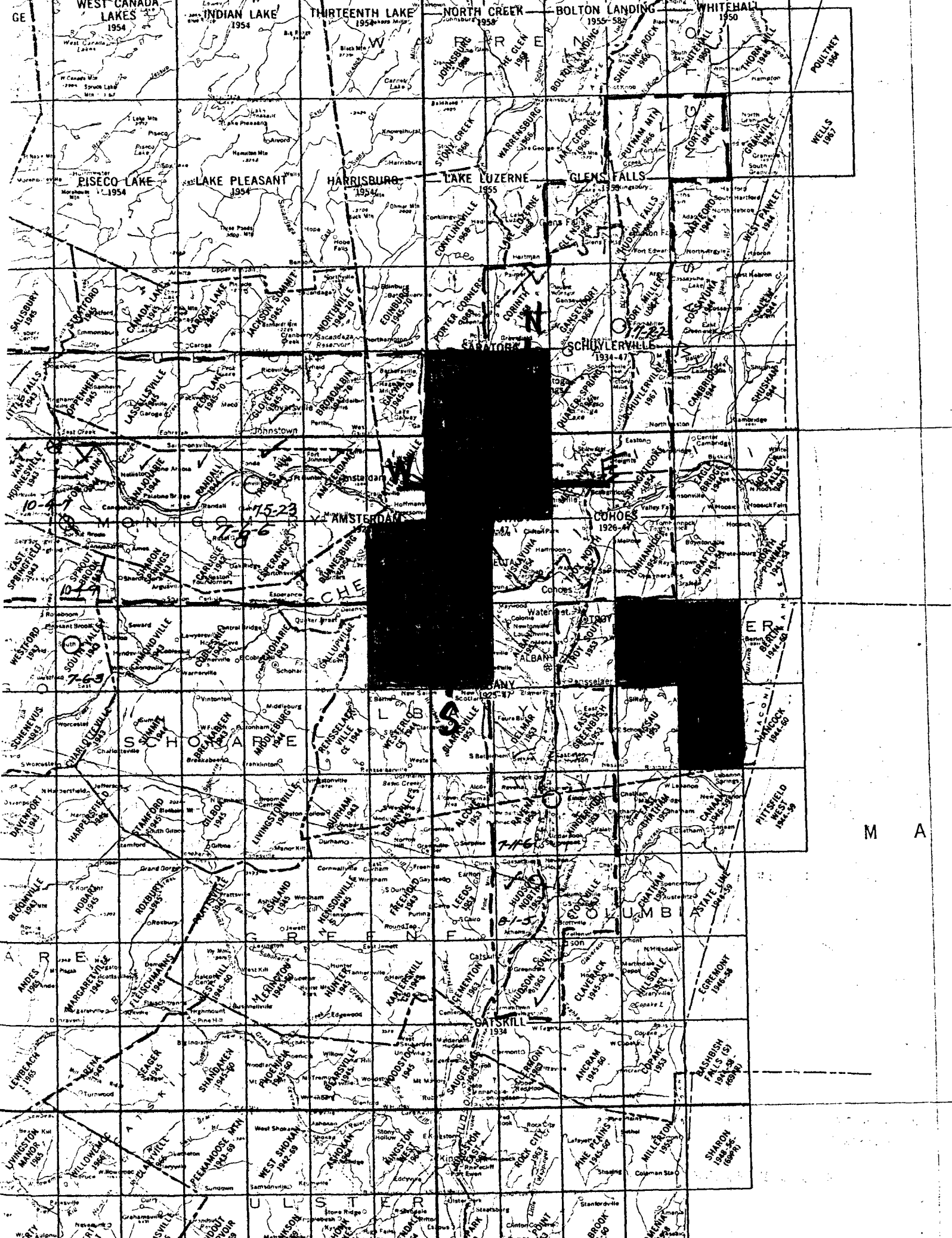
| Well Number | Owner                | Well Depth(m) | (°C/km) Gradient | r <sup>2</sup> * | (°C) T1000M** |
|-------------|----------------------|---------------|------------------|------------------|---------------|
| 28          | Dwiliski             | 95            | 12.33            | .983             | 21.26         |
| 29          | Miralles             | 160           | 19.15            | .983             | 28.08         |
| 30          | Rainville            | 155           | 13.18            | .868             | 22.11         |
| 31          | Toussaint            | 167           | 30.59            | .999             | 39.52         |
| 32          | Lindsay              | 95            | 9.49             | .993             | 18.42         |
| 33          | Rosenberg            | 80            | 12.40            | .998             | 21.33         |
| 34          | Meskill              | 145           | 14.72            | .992             | 23.65         |
| 35          | Garfield             | 185           | 21.60            | .990             | 30.53         |
| 36          | Liveright            | 160           | 24.68            | .997             | 33.61         |
| 37          | Jericho Valley Motel | 130           | 18.36            | .988             | 27.29         |
| 38          | Bayer                | 140           | 14.82            | .986             | 23.75         |
| 39          | Nyewrighter          | 190           | 7.72             | .982             | 16.65         |
| 40          | Kitteridge           | 155           | 17.03            | .958             | 25.96         |
| 41          | Zucker Isgood 1      | 260           | 9.06             | .980             | 17.99         |
|             | Zucker Isgood 2      | 125           | 6.73             | .967             | 15.66         |
| 42          | Wiggleworth          | 160           | 7.01             | .988             | 15.94         |
| 43          | Hemingway            | 80            | 10.83            | .896             | 19.76         |
| 44          | Synagogue            | 120           | 9.42             | .983             | 18.35         |
| 45          | Zweig                | 100           | 9.51             | .913             | 18.44         |
| 46          | Swartz               | 90            | 17.62            | .985             | 26.55         |
| 47          | Stalker              | 130           | 12.70            | .974             | 21.63         |
| 48          | Kennedy              | 145           | 8.70             | .980             | 17.63         |
| 49          | Barcia               | 185           | 8.45             | .960             | 17.38         |
| 50          | Lupe                 | 110           | 17.88            | .979             | 27.87         |
| 51          | Edgarston            | 112           | 17.66            | .997             | 26.94         |
| 52          | Eastman              | 160           | 17.49            | .985             | 26.70         |
| 53          | Gazzola              | 220           | 8.66             | .986             | 17.78         |

\* determination coefficient

\*\* calculated temperature at 1000m using mean surface temperature of 8.93°C.

|    |                    |     |                      |       |       |
|----|--------------------|-----|----------------------|-------|-------|
| 54 | Wick               | 105 | 3.86 ??? pretty low! | .956  | 13.61 |
| 55 | Calamaris          | 109 | 15.20                | .983  | 25.07 |
| 56 | Pangburn           | 145 | 22.54                | .996  | 31.97 |
| 57 | Franklin           | 90  | 15.00                | 1.000 | 23.55 |
| 58 | Bowers             | 142 | 30.20                | .991  | 39.09 |
| 59 | Auriosville Shrine | 150 | 8.86                 | .992  | 19.23 |

These not recalculate w/ mean surface T - but are close to what it shall be.



M A

Rotterdam Jurvet

Schenectady

NO

Schenectady

NO

NO

70

70

200

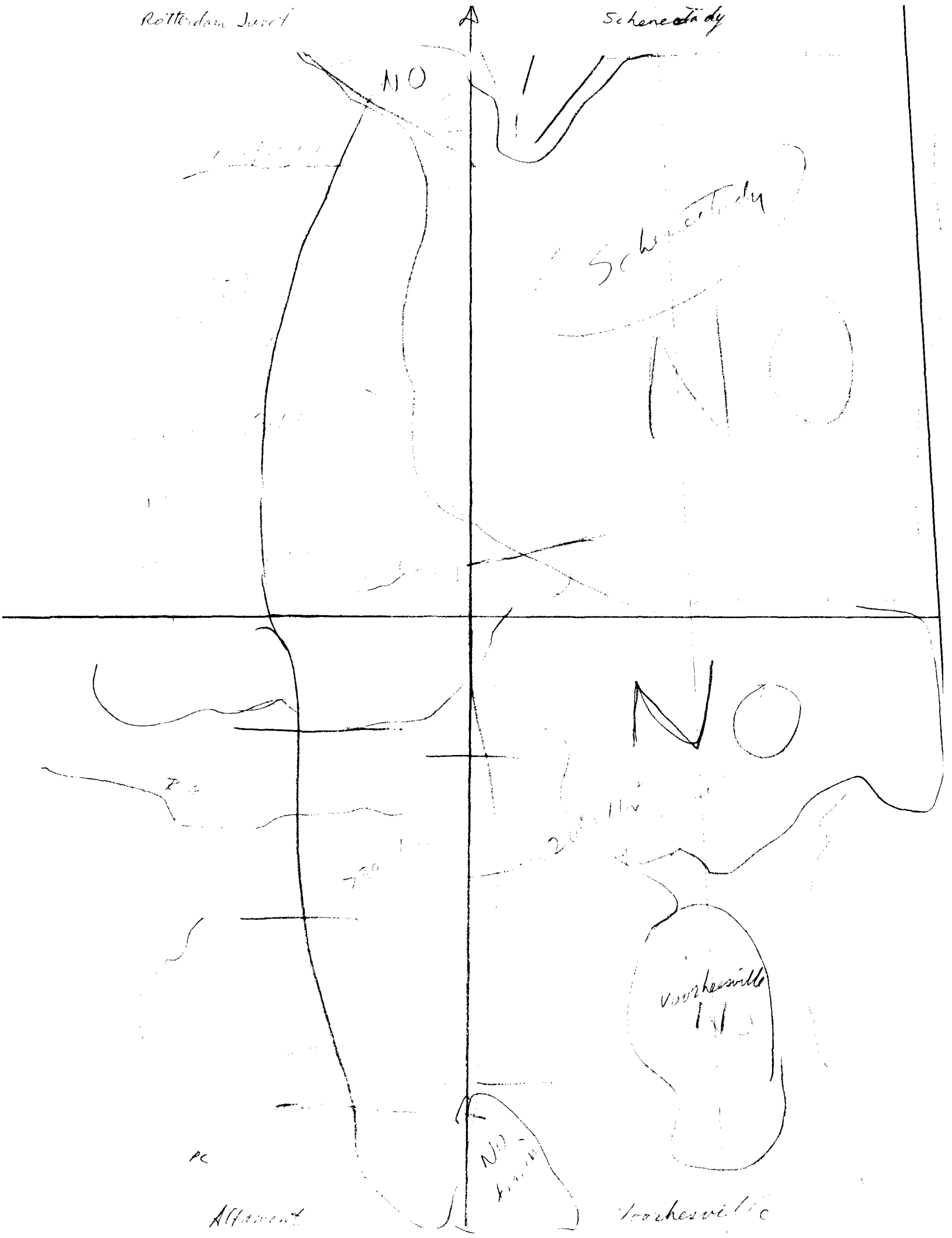
Voorhesville  
1812

PC

NO  
L. 1812

Albany

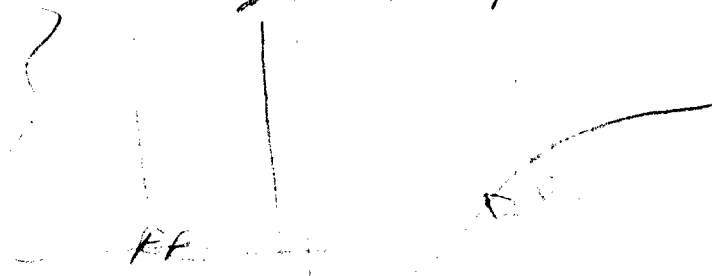
Voorhesville



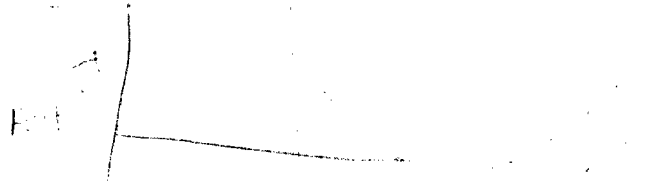


Middle Grove

Saratoga Springs



Saratoga Springs



Ballston Spa

Ballston Spa

N

Burnt Hills

Palmd Lake

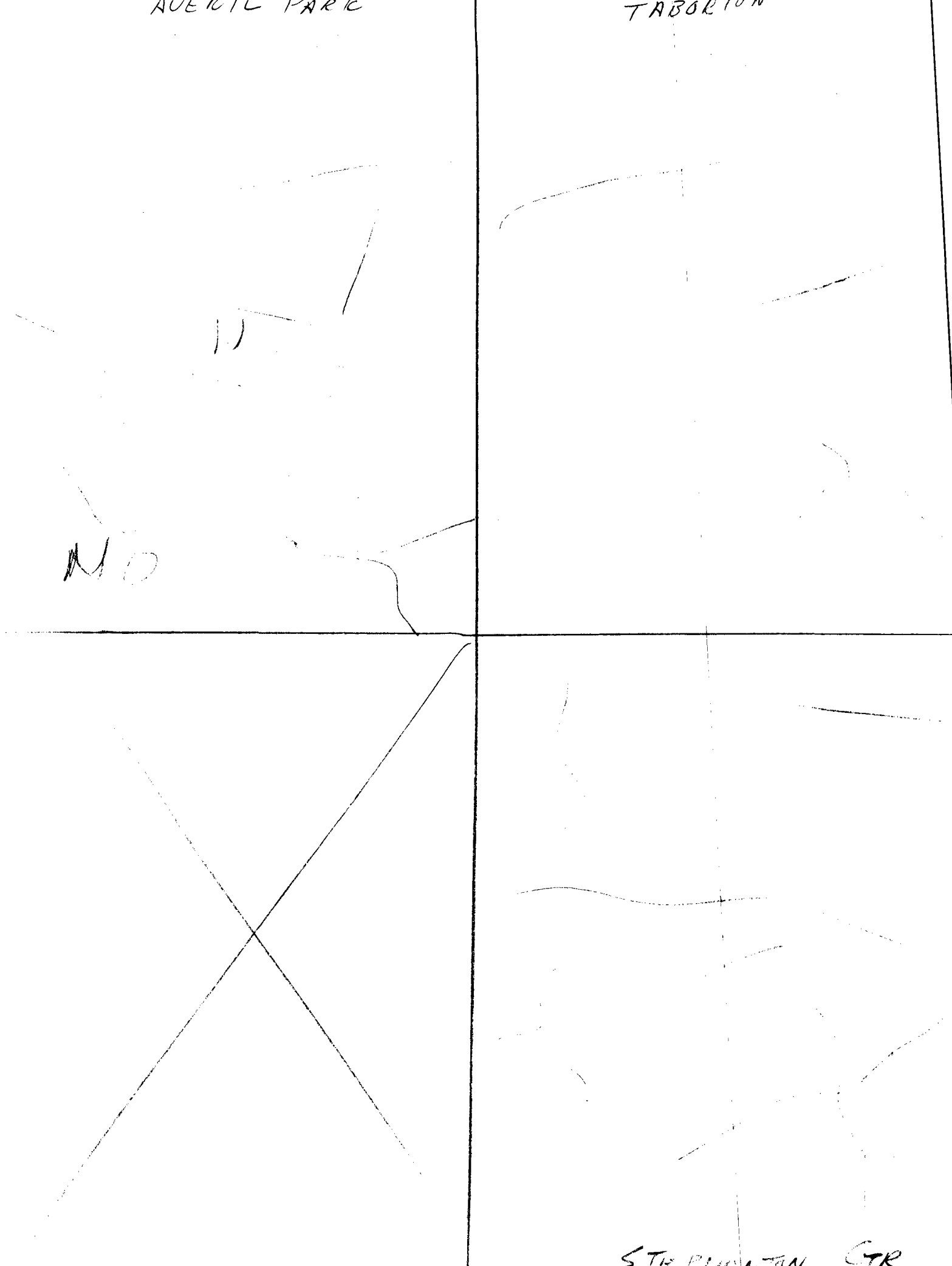
AVERIL PARK

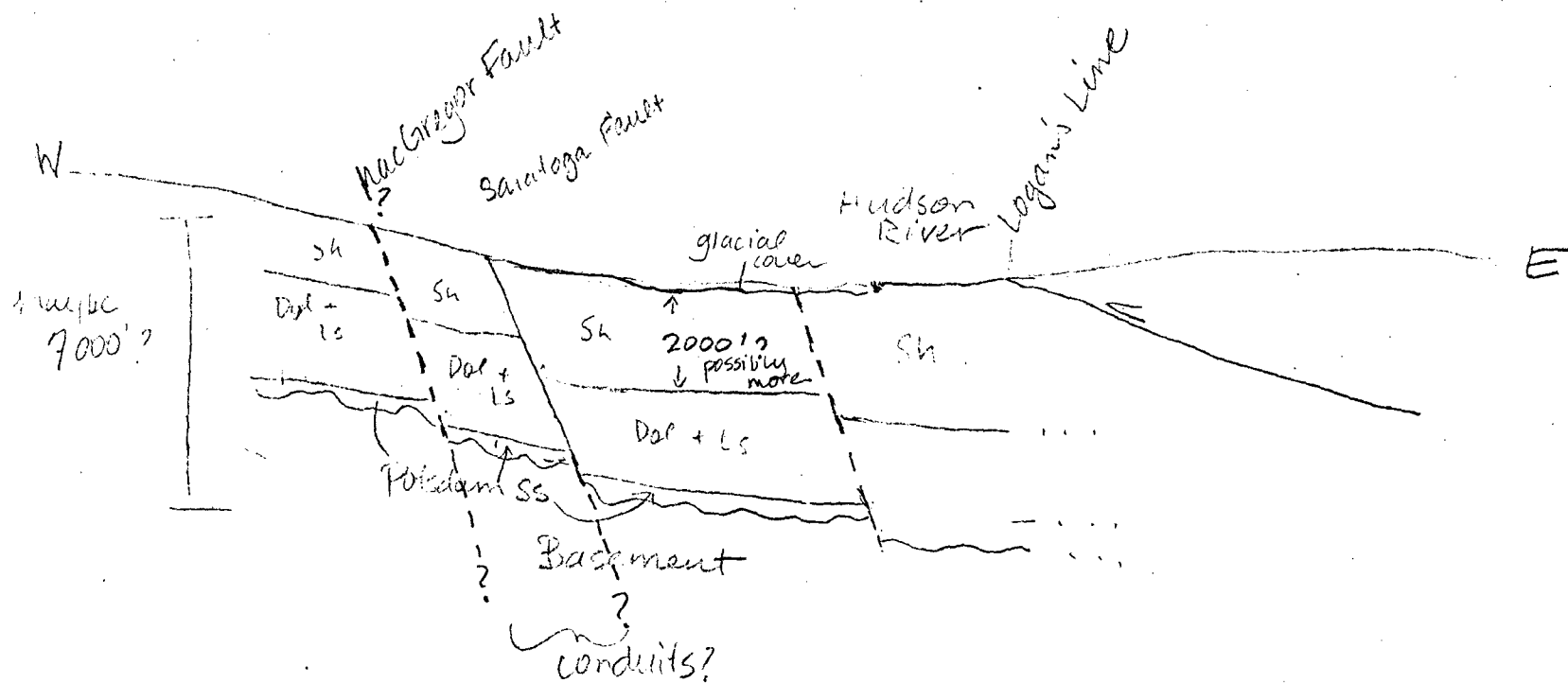
TABORTON

11

M10

STEPHENSON CTR.





Saline H<sub>2</sub>O where? - Potsdam or Carbonate Seq.?

