

INNOVATIVE METHODOLOGY FOR DETECTION  
OF  
FRACTURE-CONTROLLED SWEET SPOTS  
IN THE  
NORTHERN APPALACHIAN BASIN

June 1, 2000-March 31, 2007

TOPICAL REPORT #6  
First Draft: June 30, 2007

Dr. Robert Jacobi, Principal Author

DE-AC26-00NT40698

CONTRACTOR:

Research Foundation of State University of New York  
P. O. Box 9  
Albany, New York 12201  
on behalf of:  
University at Buffalo  
The State University of New York  
Suite 211, The UB Commons  
520 Lee Entrance  
Amherst, New York 14228

Dr. Robert Jacobi, Project Director  
Dr. John Fountain, Co-Principal Investigator

Mr. Stuart Loewenstein, Subcontractor  
Nornew, Inc  
1412 Sweet Home Road, Suite 12  
Amherst, NY 14228

Dr. Edward deRidder, Subcontractor  
Pearson, deRidder and Johnson, Inc.  
12640 West Cedar Drive, Suite 100  
Lakewood, CO 80228

Dr. Bruce Hart, Subcontractor  
Earth and Planetary Sciences  
McGill University  
3450 University Street  
Montreal, Quebec  
Canada H3A 2A7

## DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any other agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.



## **ABSTRACT**

This Topical Report (#6 of 9) consists of the figures 3.6-13 to (and including) 3.6-18 (and appropriate figure captions) that accompany the Final Technical Progress Report entitled: “Innovative Methodology for Detection of Fracture-Controlled Sweet Spots in the Northern Appalachian Basin” for DOE/NETL Award DE-AC26-00NT40698.

## TABLE OF CONTENTS

DISCLAIMER	1
ABSTRACT	2
LIST OF GRAPHICAL MATERIALS	4
FIGURE CAPTIONS	5

## **LIST OF GRAPHICAL MATERIALS**

FIGURE 3.6-13 Regional Isopach Map: “E” Salt.

FIGURE 3.6-14. Detailed Isopach Map: “E” Salt.

FIGURE 3.6-15. Regional Isopach Map: “E” and “F” Salts.

FIGURE 3.6-16. Detailed Isopach Map: “E” and “F” Salts.

FIGURE 3.6-17. Regional Isopach Map: Onondaga to Irondequoit.

FIGURE 3.6-18. Detailed Isopach Map: Onondaga to Irondequoit.

## **FIGURE CAPTIONS FOR TOPICAL REPORT #6**

**FIGURE 3.6-13 Regional Isopach Map: “E” Salt.**

Contour interval = 20 ft. (6 m). Red box in center indicates location of Figure 3.6-14.

**FIGURE 3.6-14. Detailed Isopach Map: “E” Salt.**

Contour interval = 20 ft. (6 m). Location shown as red box in Figure 3.6-13.

**FIGURE 3.6-15. Regional Isopach Map: “E” and “F” Salts.**

Contour interval = 20 ft. (6 m). Red box in center indicates location of Figure 3.6-16.

**FIGURE 3.6-16. Detailed Isopach Map: “E” and “F” Salts.**

Contour interval = 20 ft. (6 m). Location shown as red box in Figure 3.6-15.

**FIGURE 3.6-17. Regional Isopach Map: Onondaga to Irondequoit.**

Contour interval = 20 ft. (6 m). Red box in center indicates location of Figure 3.6-18.

**FIGURE 3.6-18. Detailed Isopach Map: Onondaga to Irondequoit.**

Contour interval = 20 ft. (6 m). Location shown as red box in Figure 3.6-17.

FIGURE 3.6-13

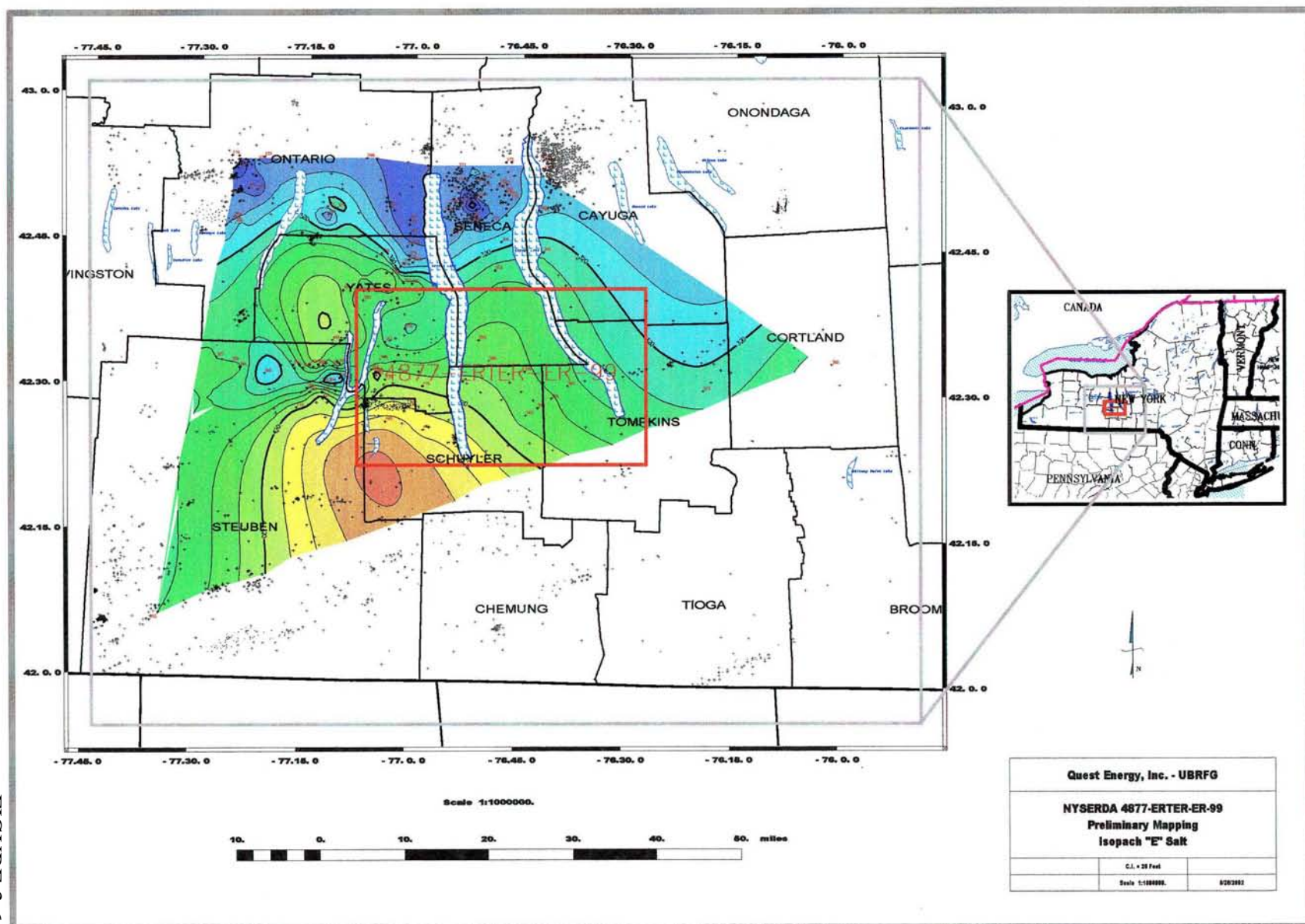


FIGURE 3.6-14

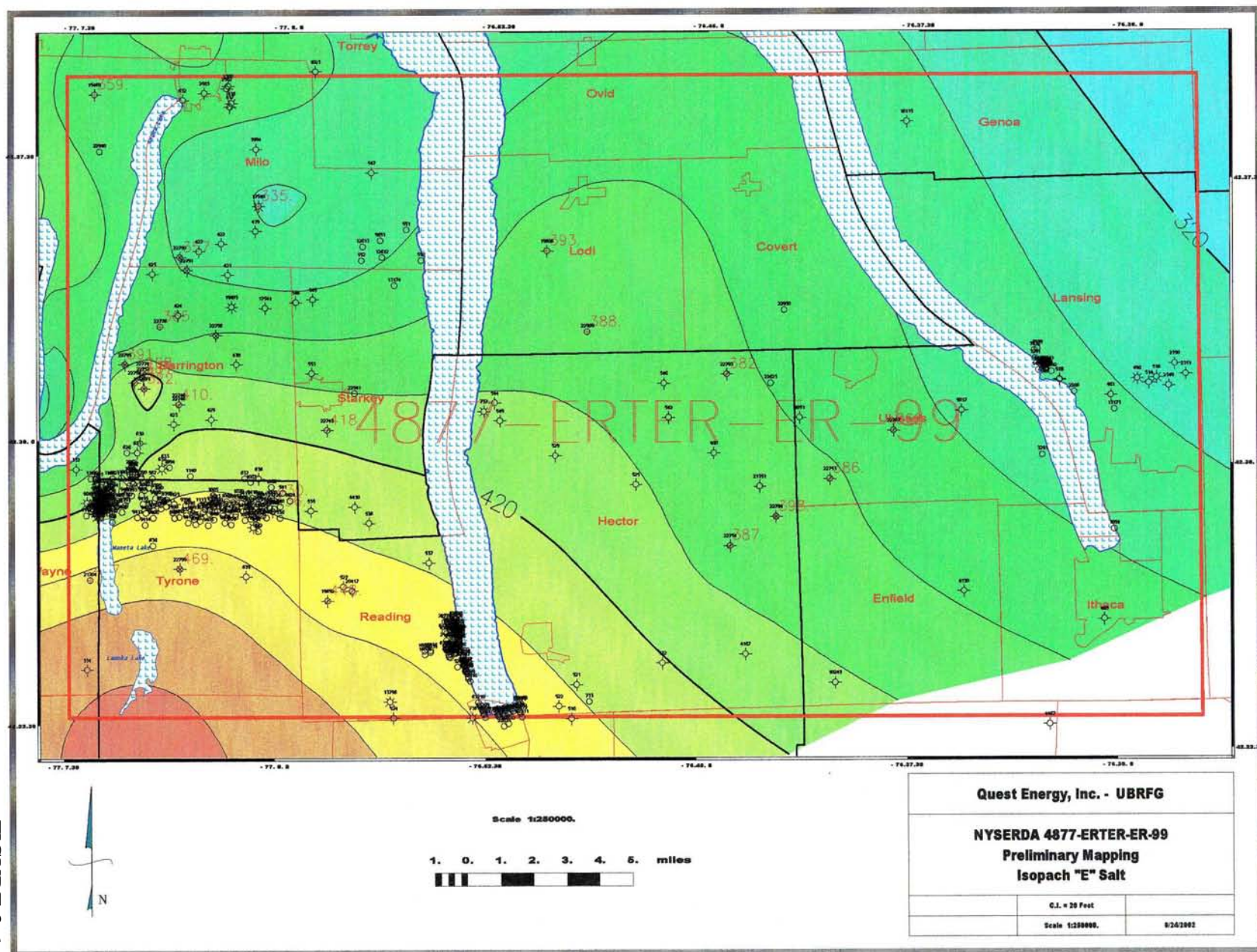




FIGURE 3.6-15

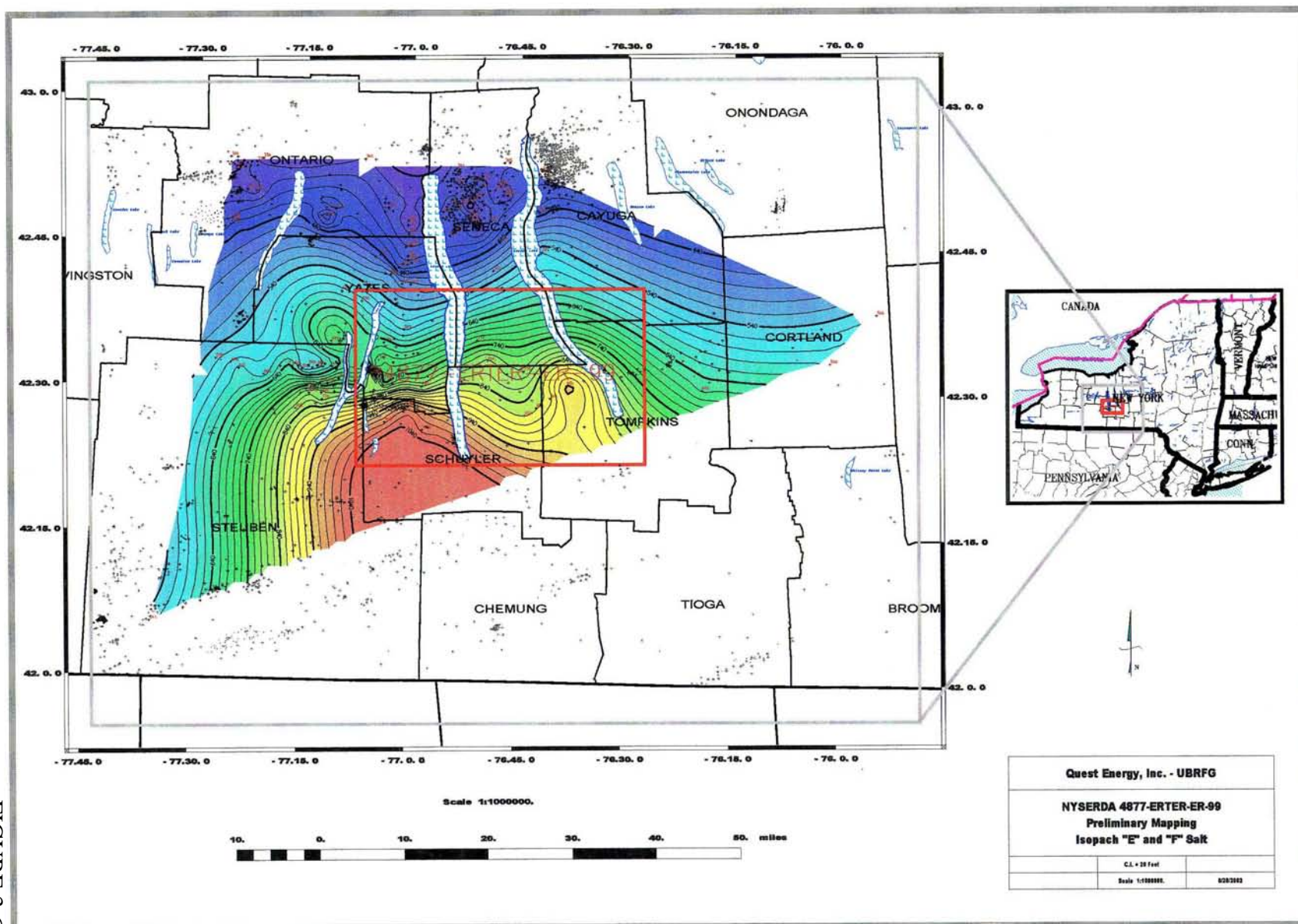




FIGURE 3.6-16

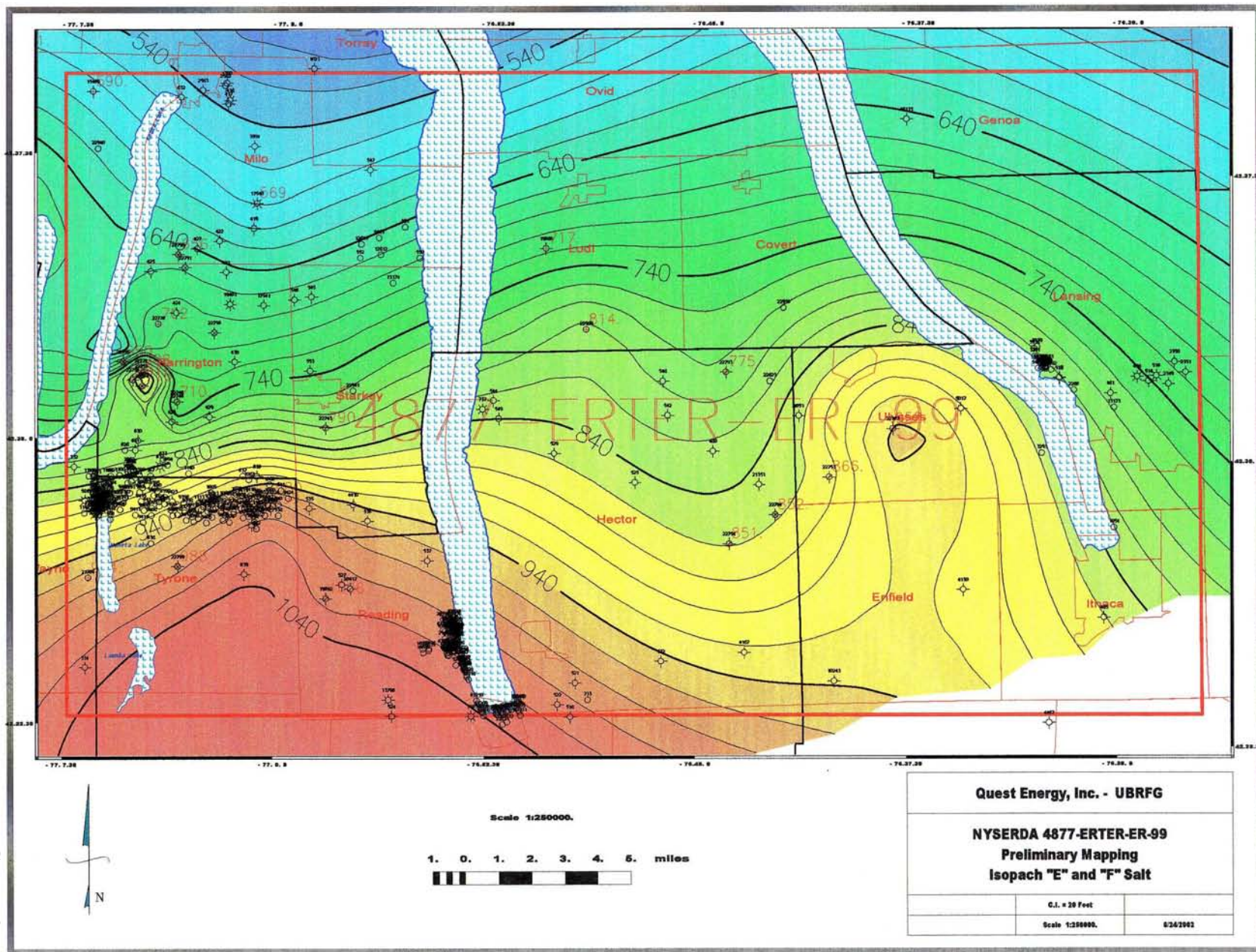
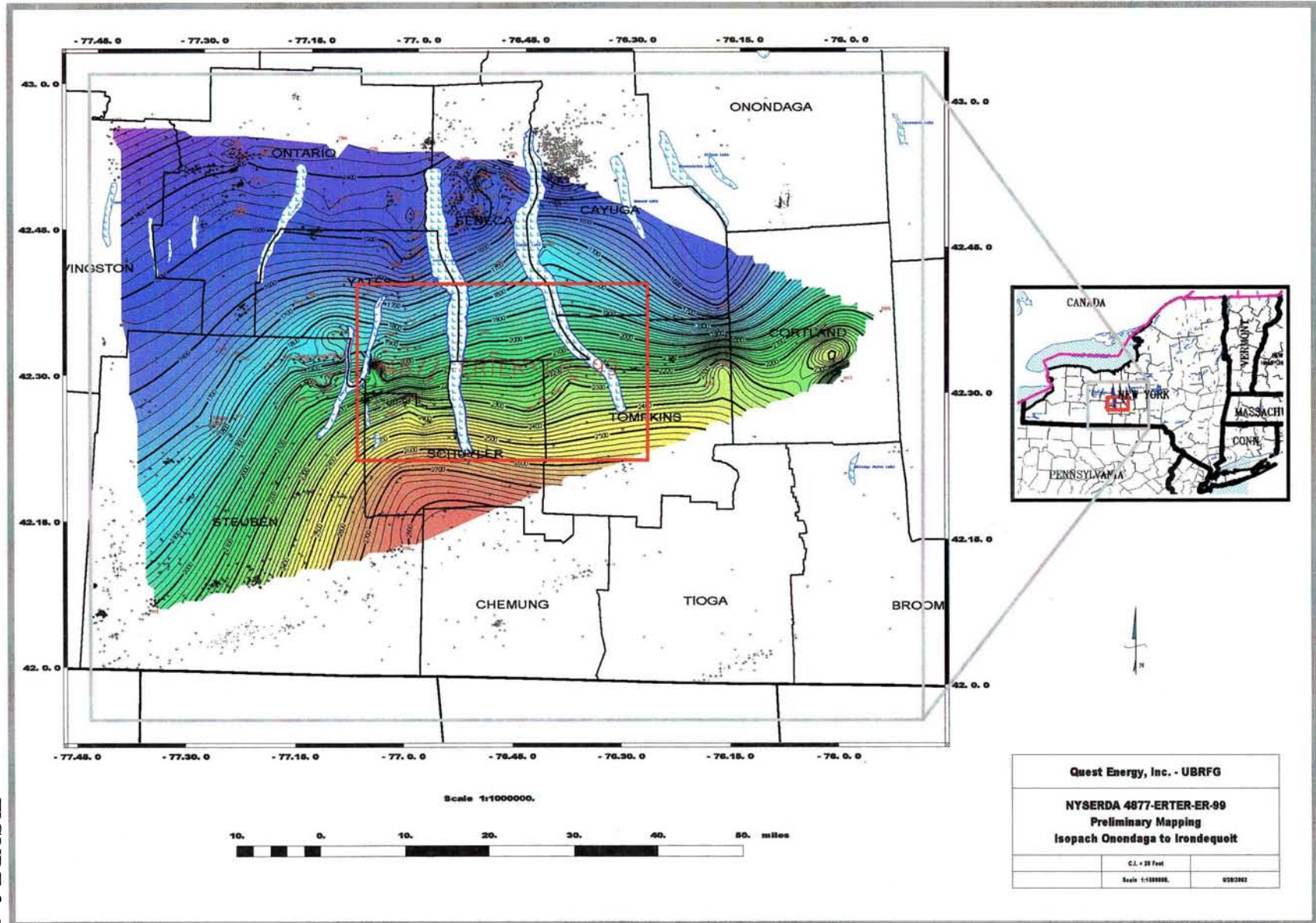




FIGURE 3.6-17





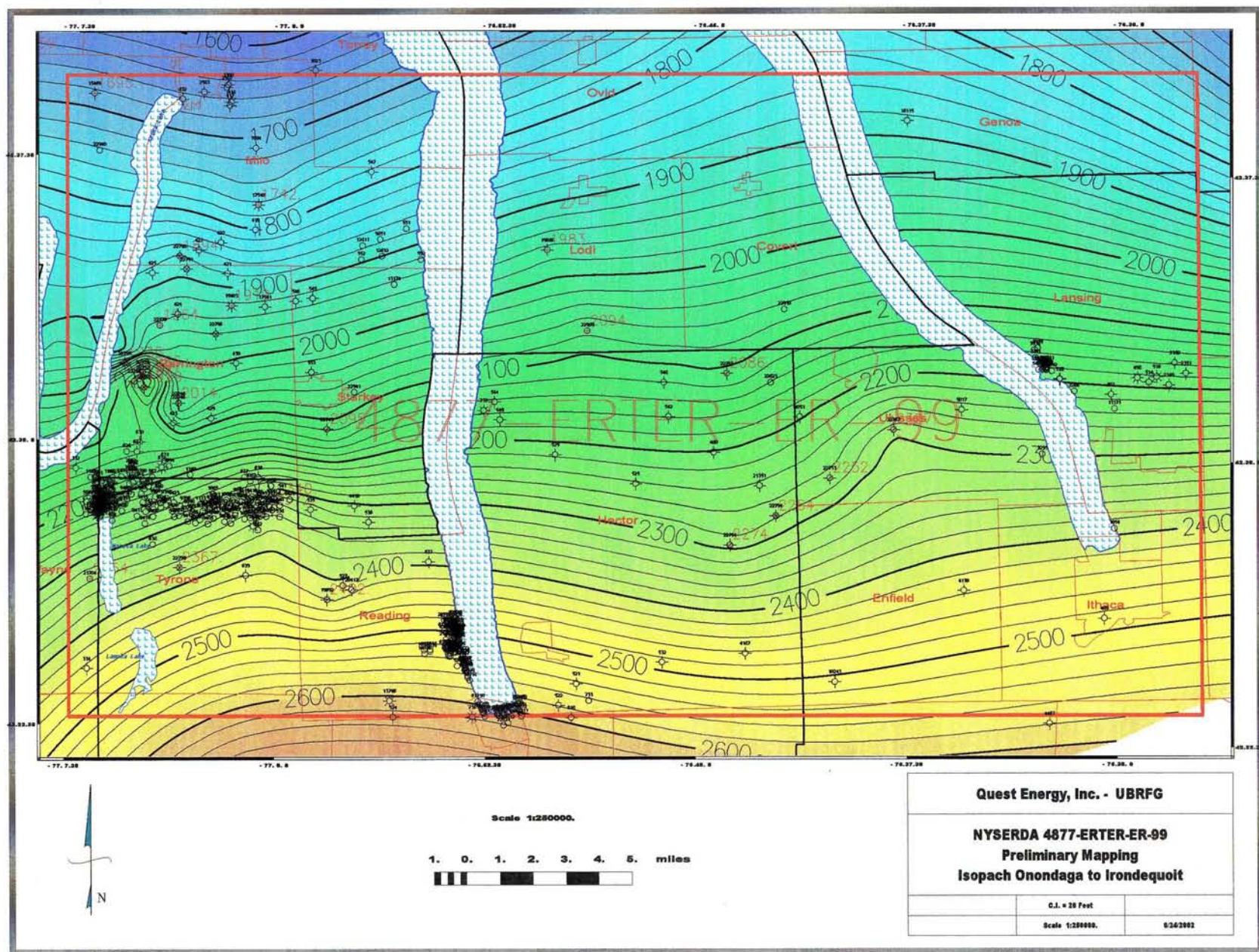


FIGURE 3.6-18