NSF Grant Conditions (Article 17, GC-1, and Article 9, FDP-11) require submission of a Final Project Report (NSF Form 98A) to the NSF program officer no later than 90 days after the expiration of the award. Final Project Reports for expired awards must be received before new awards can be made (NSF Grants Policy Manual Section 677).

Below, or on a separate page attached to this form, provide a summary of the completed projects and technical information. Be sure to include your name and award number on each separate page. See below for more instructions.

**PART II - SUMMARY OF COMPLETED PROJECT**

The summary (about 200 words) must be self-contained and intelligible to a scientifically or technically literate reader. Without restating the project title, it should begin with a topic sentence stating the project's major thesis. The summary should include, if pertinent to the project being described, the following items:

- The primary objectives and scope of the project
- The techniques or approaches used only to the degree necessary for comprehension
- The findings and implications stated as concisely and informatively as possible

Earthquake hazard assessment in the San Fernando Valley, California, requires knowledge of the existence and geometry of blind thrust faults. Crustal-scale reflection imaging for this region is feasible using seismicity data from a regional network of short period vertical seismometers. Regional fault structures are imaged from the reflectivity structure beneath the aftershock zone of the 1994 Northridge earthquake. Work presented here combines simple data editing and summation techniques borrowed from exploration seismology. Results show the potential of migrated depth sections in defining major reflectors and suggest that the use of existing aftershock data offers an economic and straightforward alternative for an integration of seismic reflection data in the area.

**PART III - TECHNICAL INFORMATION**

List references to publications resulting from this award and briefly describe primary data, samples, physical collections, inventions, software, etc. created or gathered in the course of the research and, if appropriate, how they are being made available to the research community. Provide the NSF Invention Disclosure number for any invention.


(complete presentations can be read electronically at [http://www.seismo.unr.edu/ftp/pub/papers/index.html](http://www.seismo.unr.edu/ftp/pub/papers/index.html))

I certify to the best of my knowledge (1) the statements herein (excluding scientific hypotheses and scientific opinion) are true and complete, and (2) the text and graphics in this report as well as any accompanying publications or other documents, unless otherwise indicated, are the original work of the signatories or of individuals working under their supervision. I understand that willfully making a false statement or concealing a material fact in this report or any other communication submitted to NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

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<th>Principal Investigator/Project Director Signature</th>
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**IMPORTANT:**

MAILING INSTRUCTIONS

Return this *entire* packet plus all attachments in the envelope attached to the back of this form. Please copy the information from Part I, Block I to the *Attention block* on the envelope.