

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Understanding Fluid Injection Induced Seismicity

Type of Project: Research

Project Discipline: Natural

Funding Agency: USGS

Other Partners/Cooperators: University of Colorado at Boulder

Effective Dates: 1/22/2013 - 12/31/2014

Funding Amount: \$35,000

Investigators and Agency Representative:

USGS Contact: Jill Baron, USGS, 2150 Centre Ave, Building C, Fort Collins, CO 80522; 970-491-1968; jill_baron@usgs.gov

Investigator: Shemin Ge, Department of Geological Sciences, University of Colorado, Boulder, CO 80309; shemin.ge@colorado.edu

Project Abstract: The objectives of this research are to utilize existing data on fluid injection and seismicity to (1) identify spatial and temporal correlations between fluid injection and induced seismicity; (2) conduct a hydro-mechanical modeling study to better understand the dynamic linkage between fluid pressure and stress changes; and (3) identify key parameters that influence seismicity.

Keywords: fluid injections, seismicity, University of Colorado, USGS