

Questa CPV Solar Project
Presented to: NM State Radioactive and Hazardous Materials Committee
August 15, 2011

1. A collaboration between Chevron Mining Inc. and Chevron Technology Ventures
 - a. Five year test
 - b. Emerging solar energy project using concentrating photovoltaic power (CPV)
 - c. Goal to provide an in-depth understanding of CPV technology and potential benefits
2. Chevron Technology Ventures builds and runs the facility and testing
 - a. 173 trackers, each 18 x 21 feet in size
 - b. One megawatt of solar electricity sold to Kit Carson Electric Coop
3. Refer to sheet – How CPV works
 - a. High intensity direct sunlight
 - b. Fresnel lenses focus sunlight onto a photovoltaic cell
 - c. Solar cell convert more sunlight into energy than standard photovoltaic cells
 - d. Tracking devices follow the sun
4. Chevron Mining Inc. provides the site – 20 acres on the tailing facility west of the Village of Questa
 - a. Unique solar resource of the area – over 300 days of sunshine
 - b. Use of previously impacted land (brownfields) to build solar – endorsed by Wilderness Society
5. Questa Mine soil cover depth
 - a. Three levels of cover (1,2 and 3 feet)
 - b. Will assess effectiveness of various levels for post-mining remediation
 - c. Chevron is committed to environmental protection
 - d. Working with USEPA, NMED and MMD
1. Stakeholder engagement efforts – “No Surprises”
 - a. Importance of Village support
 - b. In line with Village’s future economic development goal for solar industry
 - c. Met with officials and key stakeholders to address concerns
 - i. Visibility
 - ii. Security
 - d. Town Hall meetings held to get public input and answer questions
 - e. Provided up to 100 local jobs during construction
 - i. Insistence on use of local labor – use of former mine employees
 - ii. Resulted in more hands on involvement
 - iii. Incident and injury free