

COPPER MESA MINING CORPORATION

NEWS RELEASE

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COPPER MESA COMMENCES DRILLING ON ZONIA MINE COPPER PROJECT IN ARIZONA

Vancouver, BC – August 18, 2008 - Copper Mesa Mining Corporation (“Copper Mesa”) or (the “Company”) (TSX: CUX) is pleased to announce that, through its wholly-owned subsidiary, Redstone Resources Corporation, it has acquired the necessary permits and initiated drilling at its Zonia Mine copper project in Yavapai County, Arizona.

Two separate drill programs, both designed in consultation with the Company’s chief engineering advisor on the project, Tetra Tech Inc. (NASDAQ:TTEK), have commenced.

The first drill program, which began on August 4 of this year, consists of sonic drilling of 17 holes (approximately 1,800 feet) to produce material both for subsequent assaying as well as for the testing of geotechnical characteristics of areas being considered as sites for construction of facilities for the proposed mining operation.

The second drill program, comprised of diamond drilling of 15 holes (approximately 3,000 feet), commenced last week. The primary purpose of this program is to twin numerous existing holes for confirmation of historical tonnage and grades through check assays to facilitate the re-estimation and reclassification of the copper resource to be compliant with National Instrument 43-101 (NI 43-101), Standards of Disclosure for Mineral Projects, by the end of October 2008.

“With the drill programs underway, we will begin preparation of a pre-feasibility study to be completed by the end of 2008 and have all permit applications submitted for construction of an open pit mine and a solvent extraction/electrowinning (SXEW) processing complex, averaging 20 million pounds of copper per year, by the end of the second quarter of 2009,” said Gary Davis, President and CEO of Copper Mesa Mining Corp.

The Zonia Mine copper project is located on 3,222 acres of patented and unpatented land. In October, 2006, Scott Wilson Roscoe Postle Associates Inc. prepared a NI 43-101 compliant inferred resource estimate of 63 million tons of material at a copper grade of 0.37% (using a 0.25% cut-off grade). Based on historical data, almost all known materialization is oxide and amenable to heap leaching and SXEW processing technology for the recovery of copper. In the 1970s, the then-owner of the Zonia Mine property produced over 30 million pounds of copper from the site using heap leaching technology.

About Copper Mesa Mining Corporation

Copper Mesa is a mineral exploration and development company focused on advancing into production its two key past-producing copper properties, the Zonia and Emerald Isle Mines, in Arizona. The Company will continue to expand its resource base through acquisition of additional properties of merit in the Americas.

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