

Royal Standard Minerals, Inc. (RYSMF) Announces Exploration Plans for Pinon and Darkstar Projects, Elko County, Nevada

MANHATTAN, NV--(October 27, 2009) - Royal Standard Minerals, Inc. (OTCBB: [RYSMF](#)) has completed a study of its Pinon and Darkstar properties in Elko County, Nevada and has identified a number of new drill targets that have potential to be additive to the current near surface gold-silver resources at [Pinon and Darkstar](#) and for deep, underground, "new" gold resources. The development of new drill targets during this phase of study concentrated on those areas in close proximity to the measured near surface oxide gold-silver deposits to include the Pinon Property - Main Zone and North Pod and the Darkstar deposits. (These projects are currently under evaluation for near term development as an open pit heap leach operation by RYSMF).

The regional exploration within the [Carlin Trend over the past 20 years](#) has resulted in the discovery of deeper (underground) high grade (0.4-1 opt) multimillion ounce gold deposits such as the Deep Star, Meikle and Rain-extension gold deposits. These structurally controlled deposits are frequently associated with or in close proximity to near surface open pit gold deposits. On the RYSMF property position there is geo-technical support from drilling, geologic, geochemical and geophysical data that continued exploration may result in the discovery of larger deposits that are not exposed at the surface.

The initial exploration effort on the RYSMF land package will focus on northwest, north and northeasterly fault controls to help guide the development and testing of targets where previous drill data and down dip down plunge extensions of existing deposits indicates the presence of significant persistent gold mineralization to depths greater than 1,500+ feet. A second phase of the effort will involve a "step out" drilling program to explore for concealed underground deposits along strike and down dip within prospective untested fault zones on the RSM property position.

Pinon Area NW Fault and Breccia Pipe Trend-Southern Property Block

A large "Rain-type" collapse breccia occurs 1,000 feet south of the Pinion shallow oxide gold resource currently under evaluation for possible production. In the (multi-million ounce) Rain gold district, the occurrence of structurally controlled collapse breccias are key elements in the development of open space for the introduction of gold deposition and alteration events associated with west-northwest trending fault zones. The collapse breccias occur within fault zones that can contain deep mineralization developed within the Devils Gate Limestone.

On the RYSMF property, the first of these collapse breccia structures was identified through drilling returning deep gold mineralization that requires additional exploration. The most significant mineralized section indicated to date in this breccia contains 110' of 0.078 opt gold from 580-690 feet, 175 feet of 0.14 opt from 740'-915' drill depth. Other drill holes returned 30' of 0.110 opt gold from 525-555 feet, and to 0.25 opt gold in narrow fault controlled zones within the Devils Gate Limestone. Past drilling tested only the northeastern portion of the feature. RYSMF proposes to continue testing this structure for gold deposits that are not exposed at the surface within the Devils Gate Limestone.

RYSMF geophysical data has defined these collapse breccias as circular pipe-like features approximately 2,000 feet in diameter, the northern portion of which has been partially drill tested and is gold mineralized. A second circular geophysical feature on the RSM property position occurs 2,000 feet WNW of the first anomaly and is also about 2,000 feet in diameter and has never been drill tested. RSM proposes to test this second circular geophysical feature and the WNW fault zone that connects the collapse breccias. These anomalies represent attractive deep Rain-type gold targets.

Darkstar Project

The Darkstar gold-silver deposit is located approximately one mile east of the Pinon Main zone deposit in Elko County, Nevada. Darkstar is a near surface, potential open pit mineable low grade (0.027 opt) gold/silver system. The property development area has a defined antiformal shaped, 300 foot thick, zone of generally lower grade gold that is somewhat bedding conformable gold mineralization. This low grade zone is characterized by abundant hydrothermal injection breccias and pervasive silicification. Higher grades (0.15 opt) occur in the weakly and sporadically in the weakly silicified hanging and footwall rocks. Higher gold grades are also hosted by crosscutting, high angle fault zones.

Preliminary metallurgical testing results on drill cuttings indicate that this gold mineralization is amenable to direct cyanidation treatment indicate gold recoveries ranged from 75% to 91.3% with a mean average recovery of 81.8% in 96 hours leaching. Gold recovery rates were fairly rapid and extraction and was substantially completed from 6 to 24 hours. Cyanide consumption was low. The preliminary metallurgical tests are very encouraging in regard to gold recovery and the rate of recovery of gold and silver which is similar to and better than the Pinon test results.

The Darkstar mineralization is open on strike toward the north and south of the currently know deposit. The metallurgical characteristics of this mineralization are considered to be compatible with the Pinon main zone deposits oxide gold-silver mineralization and can considered to be additive to the Pinon deposits for a centrally located heap leach recovery system.

The Company plans to drill test these targets in conjunction with the drilling program designed to expand the near surface measured gold oxide deposits currently under evaluation for possible development as soon as possible.

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