CSAL INC.
Copper State Analytical Lab

President D.A. Shah
Since 1981

1050 Spire Dr. Ste I, Prescott, AZ 86305
Phone: 928-443-5227 Fax: 928-443-5277
www.prescottlab.com

To: K. Ian Matheson
President, Royal Mines & Minerals Inc. (Royal)
2580 Anthem Village Drive
Henderson, NV 89052

From: D.A. Shah
President
Arizona Registered Assayer #8888
Copper State Analytical Lab, (Copper State)
1050 Spire Dr. Suite I
Prescott, AZ 86305

Andrew D. Shah
Arizona Registered Assayer #50714
Laboratory Manager

Assignment:

To evaluate a proprietary process supplied by Royal to recover gold from coal ash not previously thought to contain significant levels of measureable gold.

Confidentiality:

Prior to the start of the test work a confidentiality agreement was signed by all participants in the study. The results of the test work are reported to Royal as per the guidelines of the confidentiality agreement.

Personnel Involved:

The work was completed with input from, and under the supervision of Andrew Shah, lab manager of Copper State.

Initials: ADS

Mr. D. A. Shah is an Arizona Registered Assayer #8888
and has over 40 years' experience in the field of extractive metallurgy, mineral processing, research and developing and assaying. He has over 40 years experience and has a BS in Chemistry, Physics, Chemical Engineering and Mathematics.

Mr. Andrew Shah is an Arizona Registered Assayer #50714
and has over 25 years experience in the field of extractive metallurgy, mineral processing, research and developing and assaying. He has a BS in Chemistry.

Laboratory Credentials:

Copper State is an ISO 17025 Certified Laboratory and is ISO fire assay certified. Copper State is also accredited from International Accreditation Services, IAS.

Independent Consultants:

Mr. D.A. Shah and Mr. Andrew Shah and Copper State are independent consultants to Royal, hold no formal position with Royal, and have no financial interest in the outcome of these studies except in in regards to the monetary compensation they will receive for the completion of this work. There are no circumstances that could, in the opinion of a reasonable person aware of all relevant facts, interfere with the judgement of Mr. Andrew Shah, Mr. D. A. Shah, and the employees of Copper State regarding the preparation of this report.

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Field Work:

The field work was carried out in the laboratory of Royal's research chemist in Scottsdale, Arizona on November 18, 2015. The ash product tested was provided by Royal in a ground state. Samples from the grinder were taken and in our opinion was representative of the material in the grinder. The sample remained in our custody and was tested twice fire assay in our laboratory in Prescott, Arizona. The sample was tested prior to milling and after milling. The results were (less than) <0.003 and 0.003 ounces per ton (opt) of gold.

The remainder of the material under our custody was leached in water and chemicals and heat treated. Samples of the water and chemicals were taken to our lab and tested for contamination. There was no gold contamination found other than the Diatomaceous Earth (DE) used in the procedure. The DE from Royal was digested, along with the DE from Copper State. Royals DE was found to have 4 ppm (0.119 opt) of gold; while Copper States was <0.1 ppm. Royals DE was confirmed by a second assay.

The leach material was filtered. The solids from the filter are represented in this report as "Final Product". The Final product was taken under our control to Prescott, AZ where it was assayed in our laboratory, using a fire assay procedure provided by Royal. Royal provided the flux formula. Copper State provided the materials in the flux. Images of the procedure performed by a research chemist in his laboratory; (Appendix B).

Assay Procedure:

Two assay procedures were used and a duplicate run on each procedure.

1. Parr bomb digestion-Total dissolution of the sample by a three acid digestion (Nitric, Hydrochloric, and Hydrofluoric Acid). A liquid: liquid extraction was used by Methyl Isobutyl Ketone (MIBK) and the resulting Parr Bomb solution. The MIBK sample was run by Atomic Absorption.
2. Gold fire assay-The flux formula and procedure was furnished by Royal Mines & Minerals Corp. The flux components were furnished by Copper State and were free of any gold contamination. The sample was run by Inductively Coupled Plasma (ICP).

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Samples:

Two untreated and one final product sample were assayed and are recorded below. They are also included in Copper State's assay sheet dated November 25, 2015 (Appendix A).

Untreated samples:

Sample ID	Gold opt
Fly Ash 07/30/2015	<0.003
Fly Ash Milled	0.003

Parr Bomb Assay:

Sample ID	Gold opt
Final Product	0.382 minus 0.119(DE Contamination) = 0.263
Final Product Duplicate	0.348 minus 0.119(DE Contamination) = 0.229

Fire Assay:

Sample ID	Gold opt
Final Product	0.271 minus 0.119(DE Contamination) = 0.152
Final Product Duplicate	0.247 minus 0.119(DE Contamination) = 0.128

Fire Assay:

Sample ID	Gold opt
Filter Cake (Coal Ash Tails)	0.011

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Notes:

The tails (filter cake) from the leach procedure were fire assayed yielding 0.011 opt of gold. In my professional opinion, the gold result should be added to the final product results in order to compensate for the gold that was not leached. Following are the corrected gold results:

Parr Bomb Assay:

Sample ID	Gold opt
Final Product	0.263 plus 0.011 = 0.274
Final Product Duplicate	0.229 plus 0.011 = 0.240

Fire Assay:

Sample ID	Gold opt
Final Product	0.152 plus 0.011 = 0.163
Final Product Duplicate	0.128 plus 0.011 = 0.139

Conclusion:

In the professional opinion of the Registered Assayer of Copper State Analytical Lab when fly ash samples were subjected to the proprietary hydrometallurgical chemical treatment furnished by Royal Mines, measurable gold assay were reported in the solid residue, using conventional fire assay and chemical digestion procedure. Royal's treatment makes available to the assay procedure previously undetectable gold values from the starting solids.

REGISTERED ASSAYER
CERTIFICATE NO.
50714
Andrew
Dnyanendra Shah
DATE SIGNED 12-3-15
ARIZONA U.S.A

EXPIRES 03/31/2016

Andrew Shah/Laboratory Manager
Copper State Analytical Laboratory

Initials: AS

President: D.A. Shah Parle1940@aol.com ★ Lab Manager: Andrew Shah Andrew@prescottlab.com
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Appendix A

Initials: AJS

President: D.A. Shah Parle1940@aol.com ★ Lab Manager: Andrew Shah Andrew@prescottlab.com
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Royal Mines & Mineral Corp.
2580 Anthem Village Dr.
Henderson, NV 89052

Received: November 18, 2015
Reported: November 25, 2015
PO: 564314

Analysis Report

CSAL ID	Client ID	Gold opt
1115-171432	Fly Ash 07/30/15	<0.003
1115-171433	Fly Ash Milled	0.003
1115-171438	Filter Cake - Pre Venmet	0.011
1115-171439	Final Product ^	0.382
1115-171439D	Final Product ^	0.348
1115-171440	Final Product *	0.271
1115-171440D	Final Product *	0.247

Key: opt = ounces per ton.
Note: ^ - Gold Assay - Parr bomb with an AA finish.
* - Gold Fire Assay -The flux and procedure was funished by Royal Mines & Mineral Corp/ICP finish.

REGISTERED ASSAYER
CERTIFICATE NO.
50714
Andrew
Dnyanendra Shah
11-25-15
DATE SIGNED
ARIZONA U.S.A

EXPIRES 03/31/2016

Reported By: 11/25/2015
Andrew Shah / Laboratory Manager

Initials: AS

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Appendix B

Initials: AVS

President: D.A. Shah Parle1940@aol.com ★ Lab Manager: Andrew Shah Andrew@prescottlab.com
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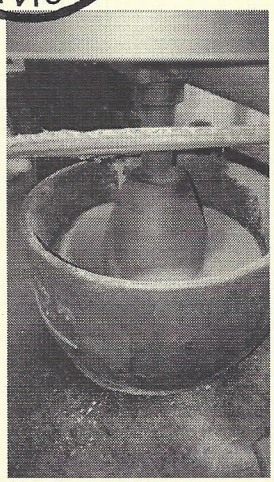
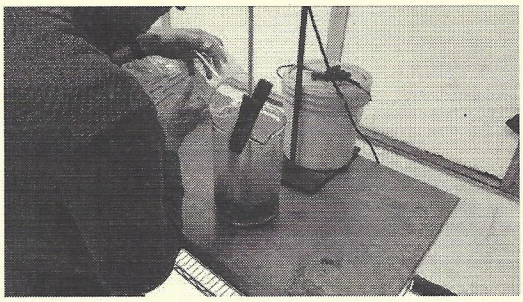
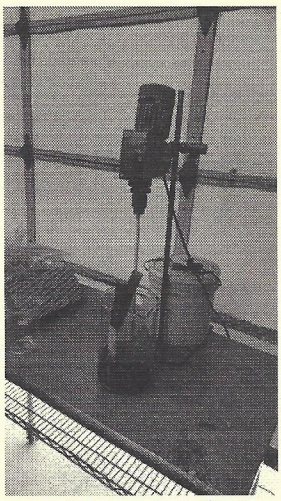


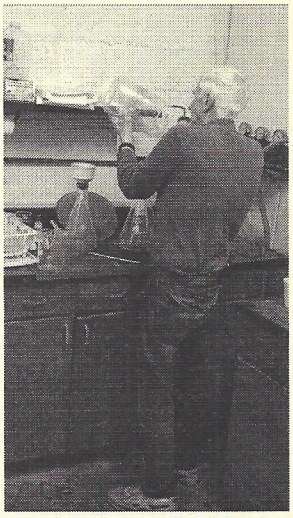
Milling



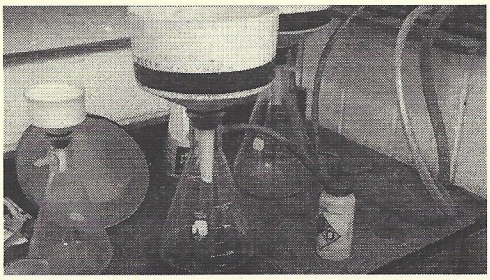
Research Chemist preparing the leach.



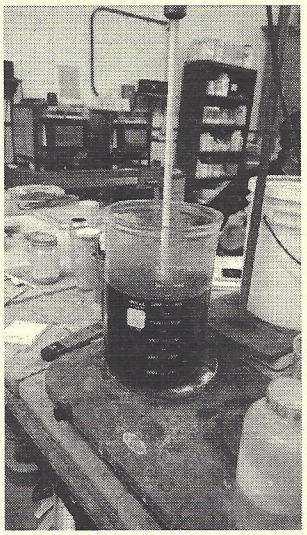
3 hour leach



Filtering leach



Filtering leach



Venmet drop

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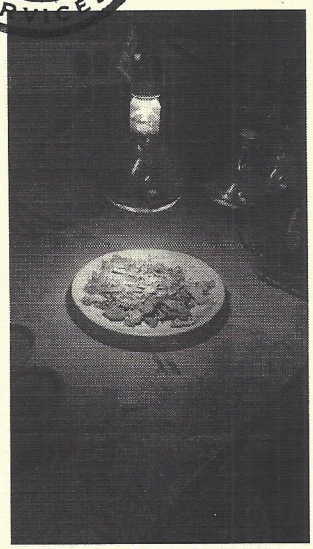
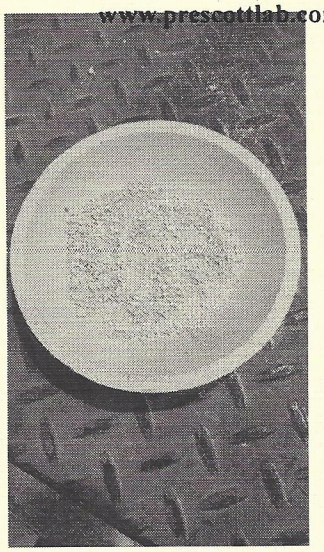
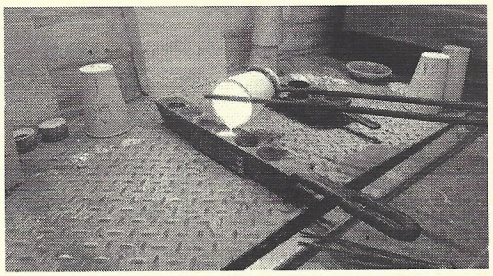


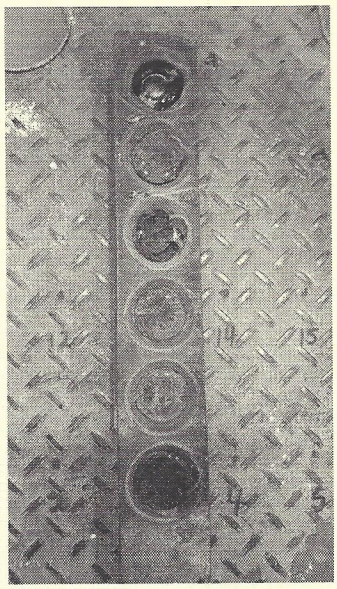
Drying of Venmet drop



Final Product after roasting



Fire assay pouring of Final Product



Fire Assay poured into molds

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