

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5547023

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOANNA M ROBERTSON	06/09/2015
CHRISTINE RAE GREEN	06/03/2015
GABRIEL ELIAS BOWMAN	06/08/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FREEPORT MINERALS CORPORATION
<b>Street Address:</b>	333 NORTH CENTRAL AVENUE
<b>City:</b>	PHOENIX
<b>State/Country:</b>	ARIZONA
<b>Postal Code:</b>	85004
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16425715
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(602)382-6070
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	602-382-6314
<b>Email:</b>	IPDOCKET@swlaw.com, chauff@swlaw.com, matanacio@swlaw.com
<b>Correspondent Name:</b>	SNELL & WILMER L.L.P.
<b>Address Line 1:</b>	400 EAST VAN BUREN STREET
<b>Address Line 2:</b>	CHARLES F. HAUFF, JR.
<b>Address Line 4:</b>	PHOENIX, ARIZONA 85004-2202
<b>ATTORNEY DOCKET NUMBER:</b>	97112.08317
<b>NAME OF SUBMITTER:</b>	CHARLES F. HAUFF, JR.
<b>SIGNATURE:</b>	/Charles F. Hauff, Jr./
<b>DATE SIGNED:</b>	05/30/2019
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

### *UTILITY PATENT*

**WHEREAS**, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR"), of the address(es) indicated below, have invented subject matter disclosed in the patent application entitled "METHODS AND SYSTEMS FOR LEACHING A METAL-BEARING ORE" that was filed on March 11, 2015, and assigned U.S. Serial No. 14/427,535.

**AND WHEREAS**, FREEPORT MINERALS CORPORATION (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Delaware having its principal place of business at and a mailing address of 333 North Central Avenue, Phoenix, Arizona 85004, is desirous of obtaining an interest or memorializing its interest therein;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, any and all of ASSIGNOR'S rights, title, and interest to the subject matter and inventions, as described in the aforesaid application, including patent, copyright and any other intellectual property rights, any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document, or any other application which claims priority to said application, including the rights to sue for all past and future causes of action related to said inventions and subject matter, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests all countries to issue said patents to ASSIGNEE, including all renewals, extensions, and reissue and reexamination certificates for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND HEREBY AGREES**, without further remuneration, to transfer to ASSIGNEE, its successors, assigns and legal representatives, a like interest in and to any improvements, related new matter, and derivative works, and applications based thereon, growing out of or relating to the inventions or subject matter, and to provide all reasonable assistance and execute any papers, if accurate, desired by ASSIGNEE, its successors, assigns and legal representatives, to preserve, acquire and/or perfect ASSIGNEE's full rights, title and interest in and to the invention(s) and subject matter and any improvements and to file any of the aforementioned applications, or to further memorialize ASSIGNEE'S prior agreement to do so; ASSIGNOR authorizes ASSIGNEE and its appointed patent counsel to insert on this document any further identification that may be necessary or desirable by any patent office.

**EXECUTED** as of the date(s) written below by ASSIGNOR:

First Joint Inventor: Joanna M. Robertson

Signature: Joanna M. Robertson Date: 6/9/2015

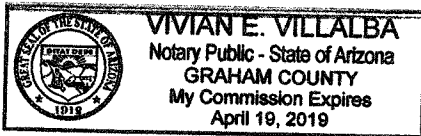
Residence address: 1436 South Roadrunner Lane, Thatcher, AZ 85552, U.S.A.

STATE OF Arizona )  
 ) ss.  
COUNTY OF Graham )

On this 9 day of June, 2015, before me, a notary public in and for said county, appeared **Joanna M. Robertson**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and she acknowledges that she signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Vivian E. Villalba  
Notary Public

My commission expires:



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Second Joint Inventor: Christine Rae Green

Signature: \_\_\_\_\_

Date: 6/3/15

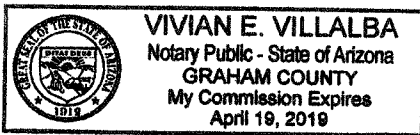
Residence address: 1190 Roberts Lane, Safford, AZ 85546, U.S.A.

STATE OF Arizona )  
 ) ss.  
COUNTY OF Graham )

On this 3 day of June, 2015, before me, a notary public in and for said county, appeared **Christine Rae Green**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and she acknowledges that she signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Vivian E. Villalba  
Notary Public

My commission expires:



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Third Joint Inventor: Gabriel Elias Bowman

Signature: \_\_\_\_\_

Date: 6/8/2015

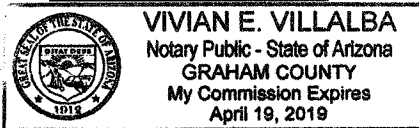
Residence address: 5800 East Sanchez Road, Safford, AZ 85546, U.S.A.

STATE OF Arizona )  
 ) ss.  
COUNTY OF Graham )

On this 8 day of June, 2015, before me, a notary public in and for said county, appeared **Gabriel Elias Bowman**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Vivian E. Villalba  
Notary Public

My commission expires:



**SNELL & WILMER L.L.P.**  
One Arizona Center  
400 East Van Buren  
Phoenix, Arizona 85004  
Phone: (602) 382-6314  
Fax: (602) 382-6070

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