



LBSR: OTCBB
CUSIP# 531323T206
PROFILE



WHY LIBERTY STAR?

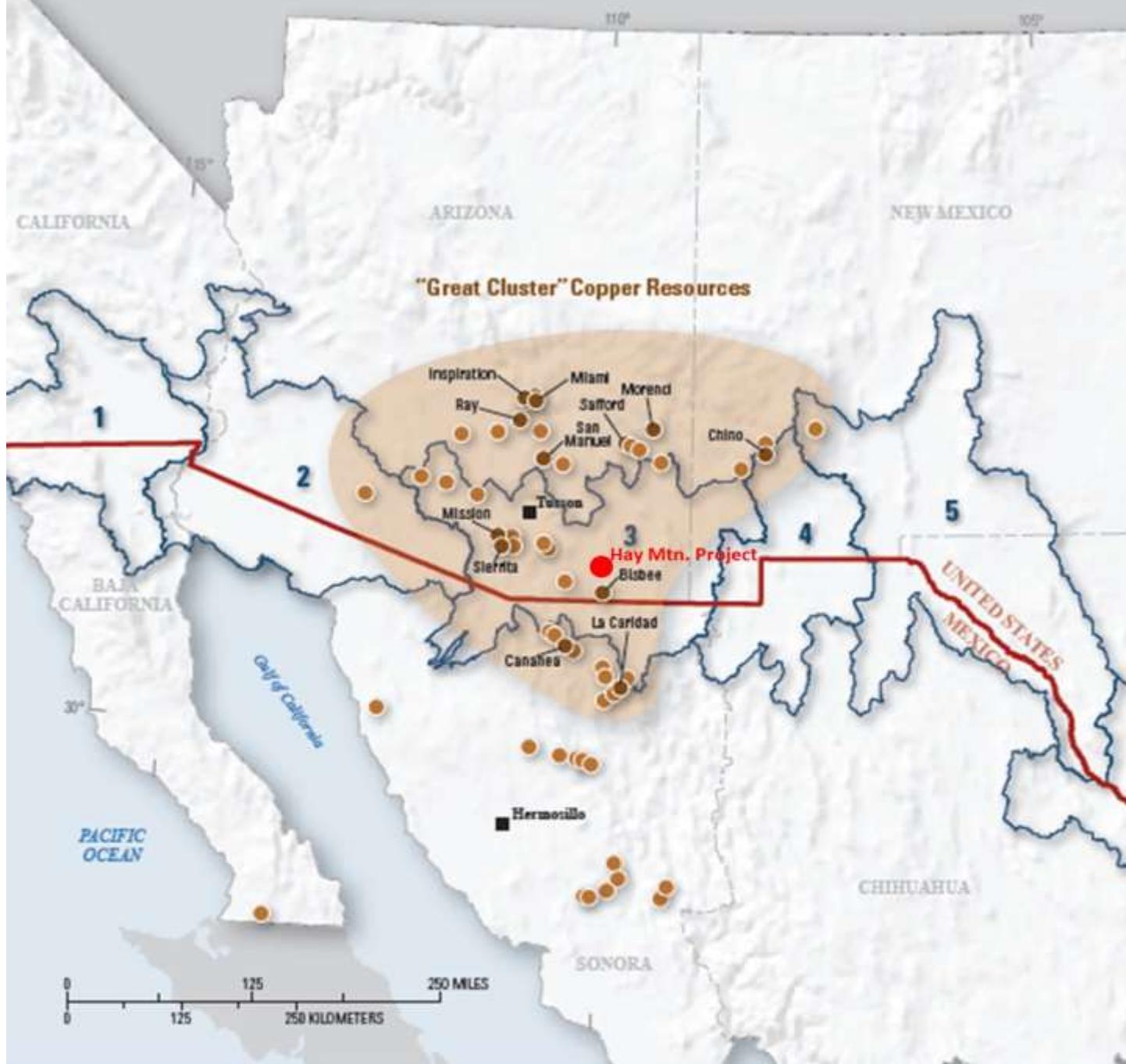
1. Potential for discovery of a high grade and large sediment and porphyry hosted copper, gold, and moly ore body of the same type as the nearby Bisbee deposit and other commercially important ore bodies throughout southeast Arizona
2. Multiple targets over copper-gold anomalies have been plotted using sophisticated ground studies including rock-chip, soil and vegetation geochemical samples assayed for 64 elements by a Certified Assay Laboratory, airborne ZTEM geophysical surveys producing magnetic and electromagnetic data and technical reports from an independent Qualified Geophysicist Geologist
3. **Recent discovery of surface copper-mineralized outcrops** suggests near surface targets, significantly lowering development time and costs

ABOUT US

Liberty Star Uranium & Metals Corp. (LBSR: OTCBB) is an Arizona-based mineral exploration company engaged in the acquisition, exploration, and development of mineral properties in Arizona and the SW USA. Currently the company controls properties which are located over what management considers some of North America's richest mineralized regions for copper, gold, silver, molybdenum (moly), and uranium.

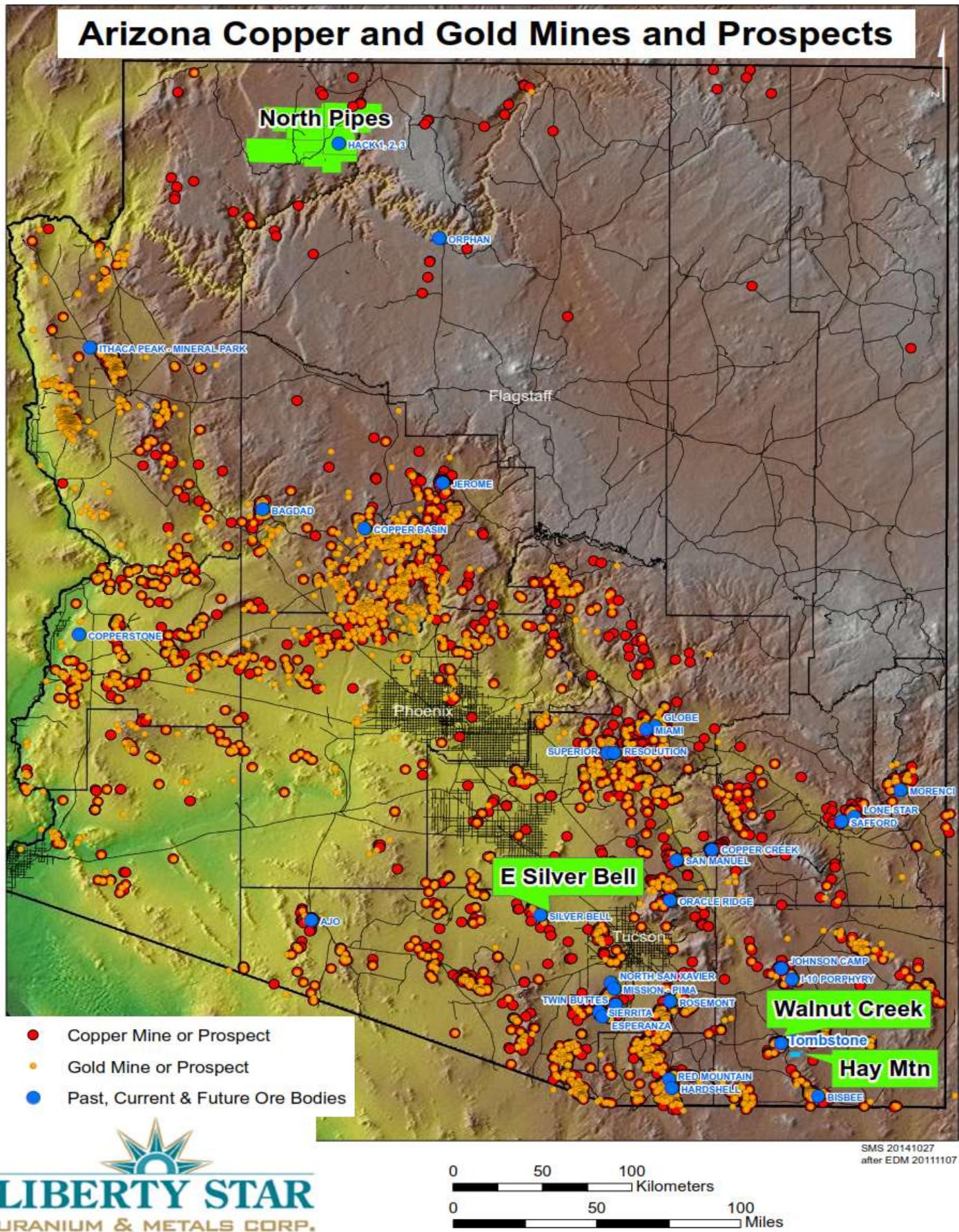
ABOUT TOMBSTONE SUPER PROJECT/HAY MOUNTAIN

The Tombstone Super Project (TSP) hosts Liberty Star's premiere multi target property: The Hay Mountain Project. The TSP initially consisted of 33 unpatented federal lode mining claims over a projected covered porphyry copper mineral center in Cochise County, Arizona. In 2011 and 2012 more USBLM claims and Arizona Mining Exploration Permits were added after Chief Geologist James Briscoe discovered a large multimodal anomaly over a large covered porphyry copper mineral center within the larger TSP area. Currently, the TSP, including the Hay Mountain Project, entails a 42 square mile Area of Interest.



Excerpted from USGS Circular 1380, "United States – Mexican Borderlands – Facing tomorrow's challenges through USGS science," Chapter 7, page 158

<http://pubs.usgs.gov/circ/1380/>. The map shows the "great cluster" of porphyry copper deposits in the western cordillera of North America (shaded area) and the location of individual deposits. The most significant deposits are named. (Modified from Valencia-
Moreno and others 2007). **The Hay Mountain Project has been added in red.**



Mining throughout the region began in the late 19th Century and led to the rise of legendary silver gold boom town Tombstone, Arizona. Many of these mining sites, including what is now Liberty Star's land, reside within or adjacent to a large volcanic and intrusive geologic feature known as a caldera. These caldera structures are present throughout southern Arizona, making the region one of the richest porphyry copper areas on the planet.

By 1938 exploration and development of the Tombstone Mining District In this area was stalled by altered sedimentary rock (hornfels) that was too hard for the drill technology of the day (churn drills). Through geochemical sampling and computer modeling, Liberty Star founder and Chief Geologist & CEO James Briscoe, discovered a compelling drill target for a very large limestone hosted porphyry copper-replacement deposit, Hay Mountain. If exploration is successful, mining projected for this target would be underground, open-pit, and/or open pit for heap-leach, or in place leach (in-situ) and could produce copper, moly, gold, silver, lead, zinc and potentially other by product metals including uranium & rare earth metals. While there are no drilled mineral resources on this property, it is adjacent to the old historic Tombstone Consolidated mines and the target is defined by technical work to allow an immediate start to drill testing. The Tombstone mining district has a well-developed infrastructure and enjoys sunny skies over 300 days a year, ideal for year round exploration and mining activities.



CEO/Chief Geologist James A. Briscoe surveying in the Hay Mountain Area, 2015

GEOLOGIC STUDIES

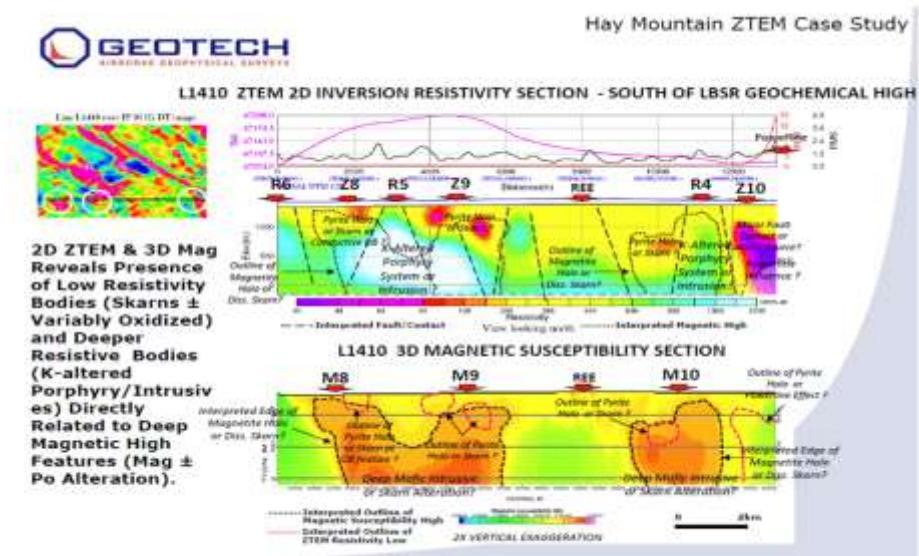
In mid-March, 2011 Liberty Star contracted SRK Consulting to prepare technical reports over three areas within the Tombstone Super Project: Hay Mountain, Tombstone South and Walnut Creek. Members of SRK's engineering/scientific staff supervised by Qualified Person and SRK's Tucson Office Principle Geologist Corolla Hoag, and geologist Dr. Jan Rasmussen have visited the Tombstone property. Their information combined with the previously gathered geochemical, geophysical and computer modeling data underwent a thorough technical analysis. The resulting technical reports concluded that all three claim blocks were worthy of further exploration work. In 2011 extensive geochemical sampling at Hay Mountain rendered approximately 1,800 soil/rock/vegetation samples which were analyzed for 64 elements at a certified analytical facility in Vancouver, British Columbia. Expected markers for porphyry copper, gold, moly, silver and zinc were present. The geochemical data also yielded the unexpected presence of four of seventeen rare earth elements (REEs). Further analysis of the REE data will be undertaken at a later date.

In 2013 Liberty Star contracted Geotech Ltd. To run a ZTEM airborne electromagnetic survey over the Hay Mountain area. Geotech's final draft report concluded:

1. There are as many as 10 meaningful targets within the Hay Mountain Project area.

2. Hay Mountain contains a major anomaly centered on the geochem anomaly reported by Liberty Star ([NR 127](#)).

From the “Executive Summary” (Prepared by a Certified Geophysicist-geologist) Summary Interpretation Report on a Helicopter-Borne Z-Axis Tipper Electromagnetic (ZTEM) and Aeromagnetic Geophysical Survey: The Hay Mountain Project Tombstone Mining District, Cochise County, Arizona For: Liberty Star Uranium & Metals Corp.:



“The Hay Mountain Property is mainly underlain by a thick sequence of Paleozoic limestone, quartzite, and siltstones, but potentially hosts buried porphyry copper deposits at structural intersections and under basin-fill formations. There is additional potential for polymetallic carbonate hosted replacement deposits (CRD), as well as shallow chalcocite blanket porphyry type deposits and also skarn type porphyry copper deposits. Previous soil and vegetation geochemical surveys have identified a coincident Au-Pb-Cu anomaly and larger Mo-halo in the center of the property. The objective of the ZTEM surveys is to identify favourable magnetic and resistivity signatures related to potentially more deeply buried porphyry copper, CRD/skarn and chalcocite replacement deposits at Hay Mountain. The Magnetic surveys have determined that Hay Mountain hosts a large dominant magnetic high that lies buried below the Paleozoic sediments is centered over the Liberty Star geochemical anomaly and remains open to the south...As many as ten (10) magnetic anomalies have been defined.” ([NR 170](#) December 11, 2013)

RECENT DISCOVERY

In late 2014 Liberty Star announced:

“New outcrops have been discovered in the main porphyry copper alteration zone target within the geochemical and geophysical zone that did not appear on any current geologic maps. Additional geologic work is ongoing to define the location and alteration of these outcrops which so far consist of silification and brecciated (broken) silicified limestone with leached capping. Green copper oxide (chrysocolla) was identified in a very small area, but this is the first visible copper mineralization we have seen in the project surface area to date. All the copper and other metal anomalies are from trace element geochemistry and do not outcrop but are from depth where they are not visible and able to be detected except geochemically. The alteration seen recently in newly identified low outcrops is what would be expected on the edge of a skarn hosted porphyry system.” ([NR 189](#),

Field work has continued to discover the meaning and range of surface anomalies within the Phase 1 drilling target area. Field surveyors use x-ray fluorescence equipment to analyze a growing number of outcrops. In October 2015 Liberty Star reported a few very high grade outcrops near the geochemical high derived from previous vegetation samplings as part of the geochemistry program conducted in 2011.

In October 2015 some important conclusions were reached about drill target placement were made based on new discovery:

In the course of detailed mapping of pervasively brecciated limestone, we came to the conclusion that in the area which we call the Chrysocolla Block where we first discovered oxide copper in outcrop, careful mapping and evaluation leads us to believe it is the lower Earp formation because of a red clay marker bed at the base of the exposed limestone breccia. This characteristic of the Earp and should put us near the base of that formation about 200 to 400 feet above the Horquilla limestone, the major mineral host in the region. After ID of the lower part of the Earp, which had been mistaken for the overlying Colina formation, our skarn consultant (who was working on a not so distant drill project in the same type of rocks, containing high grade copper) pointed out that if we were at that stratigraphic level we might be right above high grade copper mineralization. This correlates with our geophysical cross sections: see graphics below. ([Hay Mountain Project: Drill Holes Selected, October 13, 2015](#))

Company CEO/Chief Geologist James A. Briscoe has selected targets based on this recent breakthrough: "This is the specific target we have been searching for before kicking off a drill program. This development of discovery by use of the Niton and lots of boots on the ground carefully observing rocks gave us these completely unexpected mineralized outcrops; we have made the breakthrough we needed."

Preliminary drill targets are set and approval of the Company's Exploration Plan of Operation has been approved by the Arizona State Land Department. Additional targets are on Federal unpatented claims as well. Currently Liberty Star seeks between \$2 million and \$9 million to commence Phase 1 drilling.



LEADERSHIP – CEO/CHIEF GEOLOGIST

James A. Briscoe

Position: CEO, President, CFO, Chief Geologist & Board Chairman

P. Geo., BS/MS Geology University of Arizona, Mr. Briscoe is one of the chief founders of Liberty Star Uranium & Metals Corp. Mr. Briscoe's involvement in mineral exploration and discoveries spans over 40 years. He is a Registered Professional Geologist in the States of California and Arizona since 1969 and 1972 respectively. Credited with expanding porphyry copper ore reserves at Silver Bell, Arizona and identifying major gold deposits in the Randsburg District in California, he was also instrumental in the discovery of the large disseminated McDermitt open-pit mercury mine in Nevada. Mr. Briscoe co-discovered and co-owned the Wind Mountain gold-silver mine in Nevada. In Alaska, he identified the Big Chunk caldera and the copper-gold-moly potential continuation from the Pebble mine and alteration zone which is a twin of the Silver Bell zone in the Silver Bell caldera, Arizona. Mr. Briscoe was the first geologist to identify the Tombstone Caldera in 1988. Recently, he discovered a significant intrusion indicating multiple mineral occurrences under the Tombstone Arizona caldera. He has served as either an officer and or director of three other publicly trading exploration and development companies.

RISK FACTORS FOR OUR COMPANY ARE SET OUT IN OUR 10-K AND OTHER PERIODIC FILINGS FILED WITH THE SEC ON EDGAR.