

NI 43-101 Technical Report Mineral Project Exploration Information, Tintic Project Utah, U.S.A.

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Report Prepared for



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Appendices

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Appendix B: Mineral Titles

Appendix C: Royalty Agreements

List of Abbreviations

The following abbreviations may be used in this report.

| Abbreviation | Unit or Term |
|------------------|-----------------------------------|
| A | ampere |
| AA | atomic absorption |
| A/m ² | amperes per square meter |
| ANFO | ammonium nitrate fuel oil |
| Ag | silver |
| Au | gold |
| AuEq | gold equivalent grade |
| °C | degrees Centigrade |
| CCD | counter-current decantation |
| CIL | carbon-in-leach |
| CoG | cut-off grade |
| cm | centimeter |
| cm ² | square centimeter |
| cm ³ | cubic centimeter |
| cfm | cubic feet per minute |
| ConfC | confidence code |
| CRec | core recovery |
| CSS | closed-side setting |
| CTW | calculated true width |
| ° | degree (degrees) |
| dia. | diameter |
| EIS | Environmental Impact Statement |
| EMP | Environmental Management Plan |
| FA | fire assay |
| ft | foot (feet) |
| ft ² | square foot (feet) |
| ft ³ | cubic foot (feet) |
| g | gram |
| gal | gallon |
| g/L | gram per liter |
| g-mol | gram-mole |
| gpm | gallons per minute |
| g/t | grams per tonne |
| ha | hectares |
| HDPE | Height Density Polyethylene |
| hp | horsepower |
| HTW | horizontal true width |
| ICP | induced couple plasma |
| ID2 | inverse-distance squared |
| ID3 | inverse-distance cubed |
| IFC | International Finance Corporation |
| ILS | Intermediate Leach Solution |
| kA | kiloamperes |
| kg | kilograms |
| km | kilometer |
| km ² | square kilometer |
| koz | thousand troy ounce |
| kt | thousand tonnes |
| kt/d | thousand tonnes per day |
| kt/y | thousand tonnes per year |
| kV | kilovolt |
| kW | kilowatt |
| kWh | kilowatt-hour |
| kWh/t | kilowatt-hour per metric tonne |
| L | liter |

| Abbreviation | Unit or Term |
|---------------------|---|
| L/sec | liters per second |
| L/sec/m | liters per second per meter |
| lb | pound |
| LHD | Long-Haul Dump truck |
| LLDDP | Linear Low Density Polyethylene Plastic |
| LOI | Loss On Ignition |
| LoM | Life-of-Mine |
| m | meter |
| m ² | square meter |
| m ³ | cubic meter |
| masl | meters above sea level |
| MARN | Ministry of the Environment and Natural Resources |
| MDA | Mine Development Associates |
| mg/L | milligrams/liter |
| mm | millimeter |
| mm ² | square millimeter |
| mm ³ | cubic millimeter |
| MME | Mine & Mill Engineering |
| Moz | million troy ounces |
| Mt | million tonnes |
| MTW | measured true width |
| MW | million watts |
| m.y. | million years |
| NGO | non-governmental organization |
| NI 43-101 | Canadian National Instrument 43-101 |
| OSC | Ontario Securities Commission |
| oz | troy ounce |
| % | percent |
| PLC | Programmable Logic Controller |
| PLS | Pregnant Leach Solution |
| PMF | probable maximum flood |
| ppb | parts per billion |
| ppm | parts per million |
| QA/QC | Quality Assurance/Quality Control |
| RC | rotary circulation drilling |
| RoM | Run-of-Mine |
| RQD | Rock Quality Description |
| SEC | U.S. Securities & Exchange Commission |
| sec | second |
| SG | specific gravity |
| SPT | standard penetration testing |
| st | short ton (2,000 pounds) |
| t | tonne (metric ton) (2,204.6 pounds) |
| t/h | tonnes per hour |
| t/d | tonnes per day |
| t/y | tonnes per year |
| TSF | tailings storage facility |
| TSP | total suspended particulates |
| µm | micron or microns |
| V | volts |
| VFD | variable frequency drive |
| W | watt |
| XRD | x-ray diffraction |
| y | year |

1 Summary

This report was prepared as a mineral project exploration information National Instrument 43-101 (NI 43-101) Technical Report (“Technical Report”) for Ivanhoe Electric Inc. (“IVNE”) by SRK Consulting (U.S.) Inc. (“SRK”) on the Tintic Project (“Tintic” or the “Project”).

IVNE is a United States domiciled minerals exploration and development company incorporated under the laws of the State of Delaware with a focus on developing mines from mineral deposits principally located in the United States.

SRK was originally engaged by HPX Exploration Inc. (“HPX”). IVNE is the successor company to HPX, effective April 30, 2021. For the sake of consistency, IVNE is used throughout the report as the current project registrant.

IVNE has assembled a large, consolidated land package over the project area, and has spent three years completing geological and geophysical exploration work in order to identify possibly mineralized geologic targets. This report documents the status of the Project, provides a summary of historical and modern exploration and development activities, and describes the viable exploration potential areas (prospects).

1.1 Property Description and Ownership

The Tintic Project is a gold, silver, and base metal Carbonate Replacement Deposit (CRD), skarn, fissure vein, and copper-gold porphyry exploration project located in the historical Tintic Mining District (the District) of central Utah, USA. The District is the site of significant historical production and over 125 years of exploration activity. The Project is located near the City of Eureka, approximately 95 km south of Salt Lake City, and can be accessed from U.S. Highway 6, approximately 30 km west of the Interstate 15 junction. It is crossed by many historical mine roads and defunct railroad paths, which provide access to most of the property. The exploration area covers approximately 65 km² of private patented claims, unpatented claims, state leases and prospecting permits consolidated by IVNE into a cohesive package of interests.

There is currently no mining taking place on the Project. The Tintic District contains numerous historical mine adits, shafts, and prospect pits, the majority of which have been catalogued by the State of Utah Department of Abandoned Mines. The Department has also overseen the backfilling and barricading of many open portals and shafts; however, many historical sites are still open at surface, including some within the Project area.

In 2019, Nordmin Resource & Industrial Engineering USA was commissioned by IVNE to investigate and prepare an underground rehabilitation work plan and cost estimate for the Sioux-Ajax Tunnel, Grand Central Shaft, Holden Tunnel, Mammoth Shaft and Lower Mammoth Tunnel to make these areas accessible for mapping, sampling, and in some cases drilling. The Sioux-Ajax Tunnel and Grand Central Shaft are highest priority for accessing the current and potential future drill targets and geologic mapping and sampling programs.

1.2 Geology and Mineralization

The Property comprises a large portion of the Main and Southwest Tintic Districts where Paleozoic limestone, dolomite, and quartzite rocks and late Eocene-Oligocene volcanic rocks are intruded by the 33.07 Ma to 32.09 Ma Silver City intrusive complex. The Silver City intrusive complex appears to be the locus of the mineralized CRD's and fissure veins and is prospective to host porphyry-style mineralization at depth.

Across the Tintic Project, three deposit types have been identified:

- Widespread 'fissure vein' deposits that host gold, silver, lead, zinc, and lesser copper;
- CRD's consisting of columnar and pod-like mineralized bodies connected by pipe-like, tabular and irregular masses of mineralization, forming continuous 'ore runs' of copper, gold and silver, zoning distally to lead and zinc; and
- Porphyry copper deposits.

Abrupt changes in bedding orientation, as well as cross faults, are important structures that control the CRD columnar mineralized bodies and concentrate mineralization.

Total historical production from the Main and Southwest Tintic Districts is estimated at 2.18 Moz gold (Au), 209 Moz silver (Ag), 116 kt copper (Cu), 589 kt lead (Pb) and 63 kt zinc (Zn), from both surface and underground sources. This past production is dominantly from a series of CRD pipe-like bodies and fissure veins, whose mineral assemblages are consistent with a high-sulphidation epithermal origin. The fluid source is consistent with that of a porphyry environment. Total historical production from deposits located within IVNE's acquired property, predominantly in the Main and Southwest Tintic mining districts, totals 1.89 Moz Au; 136 Moz Ag; 104 kt Cu; 416 kt Pb and 6 kt Zn. The gold and copper mineralization indicates the potential that the IVNE property is likely proximal to a potential porphyry source.

1.3 Status of Exploration

Between November 2017 and May 2021, IVNE completed comprehensive work programs including:

- Surface geological mapping at 1:2,500 scale across 15 km², in conjunction with sampling and analyzing 576 rock samples, including 73 QA/QC samples, and 2,283 soil samples, including 175 QA/QC samples;
- Petrography and age dating of selected surface and underground rock samples;
- Completion of two geophysics surveys: a 2,850 km² airborne magnetic survey and a 72 km² deep penetrating (>1,500 m depth), three-dimensional ("3D") ground induced polarization ("IP") survey using IVNE's proprietary Typhoon system;
- Compilation and digitization of over 500 historical maps and mine plans and sections that were collected and archived by Mr. Spent Hansen during his 30-year consolidation of the Main Tintic mining camp; and
- Geological mapping and rock chip sampling in the Sioux-Ajax Tunnel.

The compilation of historical maps and plans provided the foundation for the creation of a 3D geological model of the entirety of the Project area, which includes 37 shafts, 626 km of underground drifts, mined stopes, and geological information mapped by the mine geologists at the time mining was taking place. From this information, the stratigraphy hosting the CRD’s and fissure veins has been differentiated and plotted, including all the mineralization-controlling faults and fracture zones. With the addition of IP chargeability and resistivity 3D inversion data, and the 3D inversion of the airborne magnetic data, IVNE was able to fully evaluate both the CRD and porphyry copper-gold potential of the Project.

The significant work undertaken by IVNE has resulted in over 14 well described, geologically- and geophysically-supported exploration potential areas being recognized, four of which have been prioritized for an initial drilling program. The four highest priority areas are described as follows:

- **Rabbit’s Foot porphyry exploration potential area:** geophysical anomaly below known mineralization and favourable geochemistry on major structure;
- **Sunbeam porphyry exploration potential area:** surface geochemistry, alteration, geophysical anomaly below known mineralization;
- **Deep Mammoth porphyry exploration potential area:** multiple coincident geophysical anomalies below known mineralization on major structure; and
- **Carisa/Northern Spy CRD breccia pipe:** strong pipe-like resistivity anomaly where prospective host units intersect the Sioux-Ajax Fault, adjacent to and below high grade past producing mines.

1.4 Conclusions and Recommendations

Since securing the Tintic Project in 2017, IVNE has invested US\$22.6 million into exploration in the Tintic Main District, with the majority of the expenditure being on securing the land and mineral titles (Table 1-1). Exploration has focused on porphyry coppers, CRD’s and skarns. The Main Tintic District is highly prospective for these types of mineralization based on historical mining and on the geological understanding of the source of CRD mineralization. The consolidation of mineral claims since the cessation of mining in the 1980’s has facilitated the opportunity to explore broader tracts of land, attempting to locate continuations of known exploited mineralization. IVNE has collated all historical data and produced a regional exploration model. Mr. Deiss and Ms. Clarkson, SRK’s QPs for this Technical Report, note that the exploration approach taken by IVNE has been successfully employed by Tintic Consolidated Metals LLC in the East Tintic District.

Table 1-1: IVNE Spending on the Tintic Project

| Year | Cost – Land | Cost – Technical | Total Cost (USD) |
|--------------------|---------------------|--------------------|---------------------|
| 2017 | \$500,000 | \$136,229 | \$636,229 |
| 2018 | \$2,246,108 | \$2,641,071 | \$4,887,179 |
| 2019 | \$4,303,215 | \$2,294,054 | \$6,597,269 |
| 2020 | \$7,322,571 | \$977,916 | \$8,300,487 |
| 2021 (to April 30) | \$1,699,266 | \$491,628 | \$2,190,894 |
| Total | \$16,071,160 | \$6,540,898 | \$22,612,058 |

Source: HPX (2021)

Mr. Deiss and Ms. Clarkson found the information supplied by IVNE to be comprehensive and logically archived. The geochemical sampling program procedures and associated QA/QC protocols are consistent with industry standard practices. IVNE has applied industry accepted exploration techniques to identify and prioritize areas with exploration potential in the Main Tintic District.

IVNE has completed several academic studies related to whole rock geochemistry, petrography, geochronology and quartz vein fluid inclusions. These results confirm historical authors' opinions on the project area and provide valuable information for the further development of IVNE's exploration model.

Mr. Deiss identifies the following risks associated with the Tintic Project:

- The dimensions of historical underground mining cavities are not surveyed, and the risk exists that larger areas have been exploited and not recorded.
- Historical drillhole location and analytical results should be treated with caution. Confidence in this information is low as little to no QA/QC data are available for the respective drillholes. However, the results can be utilized for regional-scale modelling, which IVNE has completed in Leapfrog Geo™.
- The area being explored by IVNE is very large and the risk exists that the exploration activities may be diluted if too many of the exploration potential areas are explored simultaneously. This risk can be mitigated by ranking of exploration potential areas, which IVNE has undertaken.
- All the exploration results to date indicate exploration potential areas only; no mineralization with any reasonable prospects of eventual economic extraction has been identified.
- Anomalous geochemical soil sample results occurring downslope from historical mining may be related to the aforementioned and not an indicator of an exploration potential area.
- At the effective date of this Report, IVNE has not drilled any diamond core drillholes into any of the identified exploration potential areas to confirm mineralization. This risk is mitigated by IVNE planning surface and underground drilling for the remainder of 2021.
- A complex land claims ownership exists in the Tintic District and the risk to access certain isolated claims during exploration could occur. IVNE is currently consolidating claims through several agreements to acquire the relevant claims to mitigate the risk. IVNE has negotiated the right to access any of the claims under the respective agreements for exploration purposes.
- Several payments are due with respect to underlying agreements with Mr. Spenst M. Hansen involving claims. Firstly, on a six-monthly basis until April 2022 for porphyry claims; and on a three-monthly basis for the Mammoth, Gemini and Northstar claims until July 2023.
- Unresolved Recognized Environmental Conditions (REC's) and pre-existing environmental liabilities exist in the IVNE tenement area. However, none of these impact IVNE's ability to perform exploration activities on the prospective areas prioritized as exploration potential areas.
- Future environmental permitting is a risk should IVNE consider an application to mine in Utah. The risk is partially mitigated on private patented claims, which would require State rather than Federal permitting.

- Significant portions of the CRD exploration claims are subject to Net Smelter Return (“NSR”) royalty agreements, ranging between 1% and 4%. However, they are only payable upon production and sale of product should IVNE engage in such activities in the future. No royalties are due in advance.

Mr. Deiss considers the following upside potential:

- Historical underground mining in the Tintic District was focused on mineralization above the water table. Therefore, mineralization along existing mined zones at depth may be preserved below the water table.
- Historical underground mining utilized higher cut-off grades than those that are economic in recent times. Therefore, the potential exists for unmined remnant lower grade mineralization areas being preserved.
- Historically, exploration and mining were focused on CRD, skarn and fissure vein mineralization and not on the potential mineralized fluid source at depth. IVNE exploration geophysics has identified several anomalies that could indicate the potential source of the fluids. These anomalies require diamond core drilling to establish whether the IVNE exploration model is correct and whether this material contains any economic mineralization.

Mr. Deiss is not currently aware of any other significant factors that may affect access, title or right or ability to perform work on the property.

Mr. Deiss considers IVNE’s exploration model to be applicable and realistic for the Tintic Main District region. Furthermore, the exploration techniques employed by IVNE are suitable for exploration for porphyry copper, CRD, skarn and fissure vein mineralization.

A \$25M USD budget for 2021 has been proposed that includes payments on optioned land, surface drilling, underground rehabilitation of existing mine drifts and subsequent underground drilling from rehabilitated drifts (Table 1-2). This will test the CRD exploration potential areas initially from surface drilling, the three recognized buried porphyry exploration potential areas, and additional underground drilling which is the preferred method for testing the deeper CRD’s.

Table 1-2: Summary of Estimated Costs for Recommended Exploration Work at Tintic in 2021

| Item | Total Drill Metres | Cost Per Metre | Total Cost (USD) |
|--|--------------------|----------------|---------------------|
| Land | | | \$6,162,806 |
| Surface Drilling | 16,000 | \$300 | \$4,800,000 |
| Underground Rehabilitation (2b in Table 5-1) | | | \$3,460,000 |
| Underground Drilling | 15,000 | \$500 | \$7,500,000 |
| Assays | | | \$1,179,027 |
| Facilities and Staff | | | \$1,983,110 |
| Total | | | \$25,084,943 |

Source: SRK (2021)

2 Introduction

2.1 Registrant for Whom the Technical Report was Prepared

This Technical Report was prepared in accordance with disclosure and reporting requirements set forth in the Canadian Securities Administrations' National Instrument 43-101 "Standards of Disclosure for Mineral Projects" ("NI 43-101") for Ivanhoe Electric Inc. ("IVNE") by SRK Consulting (U.S.), Inc. ("SRK") on the Tintic Project ("Tintic" or the "Project").

IVNE is a United States domiciled minerals exploration and development company incorporated under the laws of the State of Delaware with a focus on developing mines from mineral deposits principally located in the United States. IVNE has two material mineral projects located in the United States: the Santa Cruz Copper Project in Arizona and the Tintic Project in Utah, as well as additional mineral projects in Montana and Ivory Coast in which it has both direct and indirect interests. IVNE was originally formed a wholly owned subsidiary of High Power Exploration Inc. ("HPX") and was spun-off to the stockholders of HPX and became an independent company pursuant to an internal reorganization completed on April 30, 2021.

SRK was originally engaged by HPX. IVNE is the successor company to HPX pursuant to the internal reorganization referred to above (pursuant to which, among other things, the two subsidiaries that directly held the assets comprising the Tintic Project, Tintic Copper & Gold, Inc. and Continental Mineral Claims, Inc., were transferred to IVNE). For the sake of consistency in the Technical Report, IVNE is used throughout the document as the current project registrant.

2.2 Terms of Reference and Purpose of the Report

The purpose of this Technical Report is to report exploration results.

The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in SRK's services, based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions, and qualifications set forth in this report. This report is intended for use by IVNE subject to the terms and conditions of its contract with SRK and relevant securities legislation. The contract permits IVNE to file this report as a Technical Report with Canadian securities regulatory authorities pursuant to NI 43-101, Standards of Disclosure for Mineral Projects. Except for the purposes legislated under provincial securities law, any other uses of this report by any third party is at that party's sole risk. The responsibility for this disclosure remains with IVNE. The user of this document should ensure that this is the most recent Technical Report for the property as it is not valid if a new Technical Report has been issued.

2.3 Qualifications of Consultants

None of the Consultants or any associates employed in the preparation of this report has any beneficial interest in IVNE. The Consultants are not insiders, associates, or affiliates of IVNE. The results of this Technical Report are not dependent upon any prior agreements concerning the conclusions to be reached, nor are there any undisclosed understandings concerning any future business dealings between IVNE and the Consultants. The Consultants are being paid a fee for their work in accordance with normal professional consulting practice.

The following individuals, by virtue of their education, experience, and professional association, are considered Qualified Persons (QPs) as defined in the NI 43-101 standard, for this report, and are members in good standing of an appropriate professional institution. QP certificates are provided in Appendix A. The QPs are responsible for the following report sections:

- Andre M. Deiss, BSc (Hons), Pr.Sci.Nat., MSAIMM (Principal Consultant - Resource Geology) is the QP responsible for all sections of this Technical Report with the exception of Sections 7, 8, and 12.1.1.
- Brooke Clarkson, MSc, BA, CPG, is the QP responsible for Sections 7, 8, and 12.1.1 of this Technical Report.

2.4 Details of Inspection

Ms. Clarkson of SRK visited the Tintic Project in early November 2020 and was accompanied by Nick Kerr, Tintic Project Manager, as detailed in Table 2-1. The purpose of the site visit was to obtain an overview of the historical mining and current exploration work and data, to examine the targets identified for exploration drill testing, and to review the context of the overall project development goals. Mr. Deiss of SRK has not visited the Tintic Project. Since the site visit in November 2020 until the effective date of this Report, the only additional work completed by IVNE in the Tintic District was the geological mapping and geochemical sampling of the Sioux-Ajax tunnel area. Ms. Clarkson has reviewed the mapping and the subsequent report and found the observations to correspond to what Ms. Clarkson observed during the site visit.

Table 2-1: Site Visit Participants

| Personnel | Company | Expertise | Date(s) of Visit | Details of Inspection |
|--|----------------------------|-----------|-----------------------|--|
| Brooke Clarkson, Senior Resource Geologist | SRK Consulting (U.S.) Inc. | Geology | November 10 - 11 2020 | Project overview by Tintic Project Manager; Underground workings at Mammoth Mine and the Sioux-Ajax Tunnel; Selected porphyry deposit drilling targets |

Source: SRK (2021)

2.5 Sources of Information

The sources of information include data and reports supplied by IVNE personnel as well as documents cited throughout the report and referenced in Section 27. Most of the information related to the exploration programs conducted by IVNE to date has been synthesized and summarized from the following internal company reports:

- 1) HPX (2019) “Tintic Exploration Program: 2019 Annual Information Form (AIF) 51-102F2”;
- 2) HPX (2020) “Tintic Exploration Program: 2017-2019 Exploration Report”; and
- 3) INVE (2021) “Tintic_SA synthesis report_bmc” (Sioux-Ajax tunnel geological mapping report).

2.6 Effective Date

The effective date of this report is May 05, 2021.

2.7 Units of Measure

The metric system is used throughout this report. Tonnes (t) are metric of 1,000 kg, or 2,204.6 lb. All currency is in U.S. dollars (US\$ or USD) unless otherwise stated.

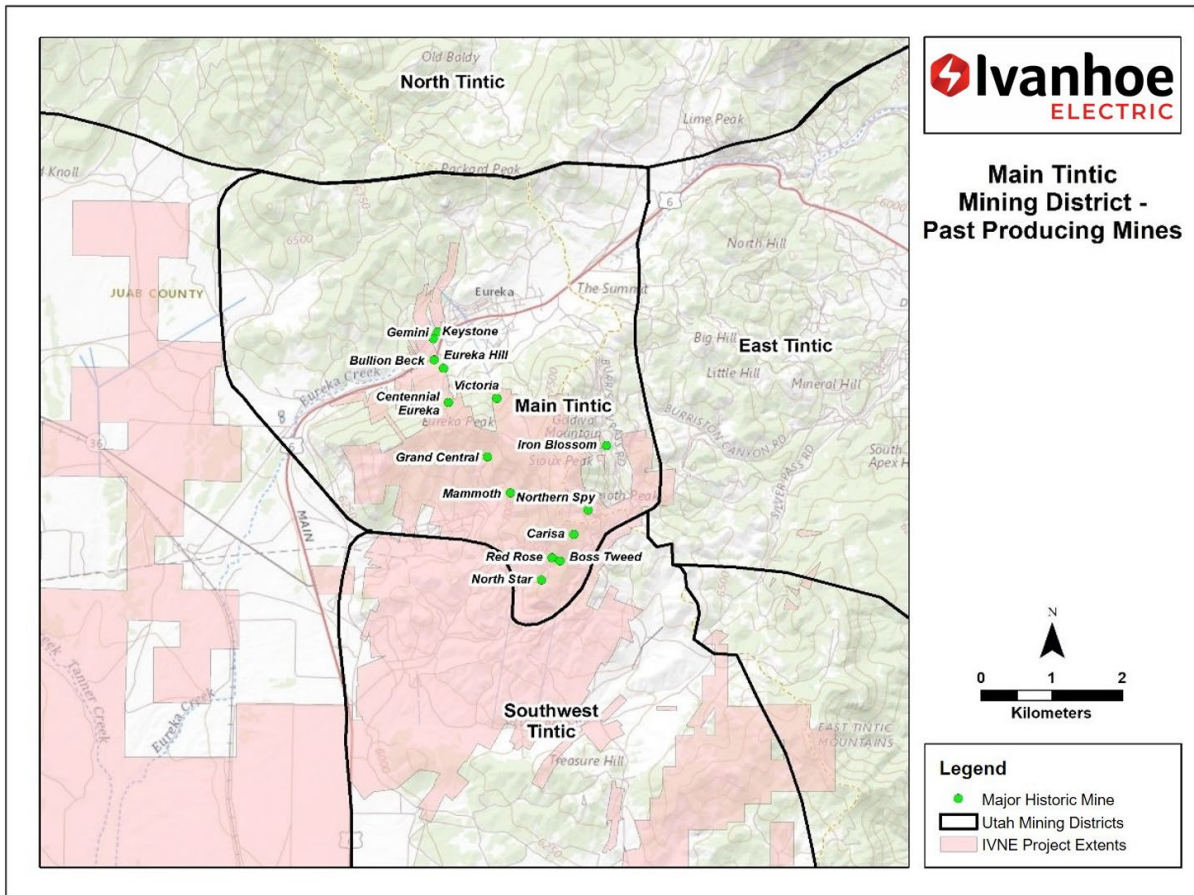
2.8 Use of Historical Mining Terms

'Ore run' is an historical mining term that is used extensively in the supporting documentation for this report. It is local Tintic parlance for the shallow-plunging, irregular polymetallic replacement deposits explored and historically mined in the District (Krahulec and Briggs, 2006). The QPs have opted to maintain use of this term where historical mining is referenced and note that it has no economic or mineral reserve implications.

2.9 Tintic Project Overview

The Tintic Project is a gold, silver, and base metal Carbonate Replacement Deposit (CRD), skarn, fissure vein, and copper-gold porphyry exploration project located in the historical Tintic Mining District (the "District") of central Utah, USA. The District was discovered in 1869 and historical production (Figure 2-1) was mainly derived from polymetallic and precious metal-rich chimneys and breccia pipes hosted within the Paleozoic carbonate rocks, i.e., CRD's. A sub-economic porphyry deposit, the SWT Porphyry, has been found in the District well to the south of the CRD's, but it is not believed to be the intrusive source of the hydrothermal solutions that produced the high grade polymetallic and gold-silver CRD's.

IVNE has assembled a consolidated land package over the project area and has spent three years completing geological and geophysical exploration work in order to identify potentially mineralized geologic targets. This report documents the status of the Project, provides a summary of the historical and modern exploration and development activities, and describes the viable prospects (exploration potential areas). Modern exploration work by IVNE aims to identify mineralized targets both above and below the water table, with these targets consisting of CRD mineralized bodies, skarns, and the source porphyry mineralizing intrusion(s).



Source: IVNE (2021)

Figure 2-1: Tintic Mining Districts and Past Producing Mines in the Main Tintic District

IVNE’s exploration strategy at the Tintic Project is twofold:

- Explore for blind porphyry copper-gold-molybdenum systems believed to be the source for CRD and high-sulphidation mineralization; and
- Discover new copper-gold-silver rich CRD-style mineralized zones or breccia pipes, or significant extensions of the historically mined ‘ore runs’ (see Section 2.8) in the Paleozoic carbonates.

This report describes the 14 most prospective exploration areas identified by IVNE which comprise:

- six CRD historical ‘ore run’ extension exploration potential areas,
- four CRD breccia pipe exploration potential areas,
- three possible porphyry center exploration potential areas, and
- one skarn mineralization exploration potential area.

Details of these and their respective priority in terms of prospectivity are summarized in Section 9.6.

3 Reliance on Other Experts

The Consultants' opinion contained herein is based on information provided by IVNE throughout the course of the investigations.

The Consultants used their experience to determine if the information from previous reports was suitable for inclusion in this Technical Report and adjusted information that required amending.

Mr. Deiss has not performed an independent verification of land title and tenure information beyond the preliminary verification described in Section 4.2.1 of this report. Mr. Deiss did not verify the legality of any underlying agreement(s) that may exist concerning the permits or other agreement(s) between third parties but has relied on Richard R. Hall of Stoel Rives LLP as expressed in a legal opinion provided to IVNE (HPX at the time) on April 30, 2021. The reliance applies solely to the legal status of the rights disclosed in Sections 4.2 and 4.3 below. IVNE also provided to Mr. Deiss a letter from Stoel Rives LLP confirming the transfer of Tintic interests from HPX to IVNE on April 30, 2021, the same day the opinion letter was issued.

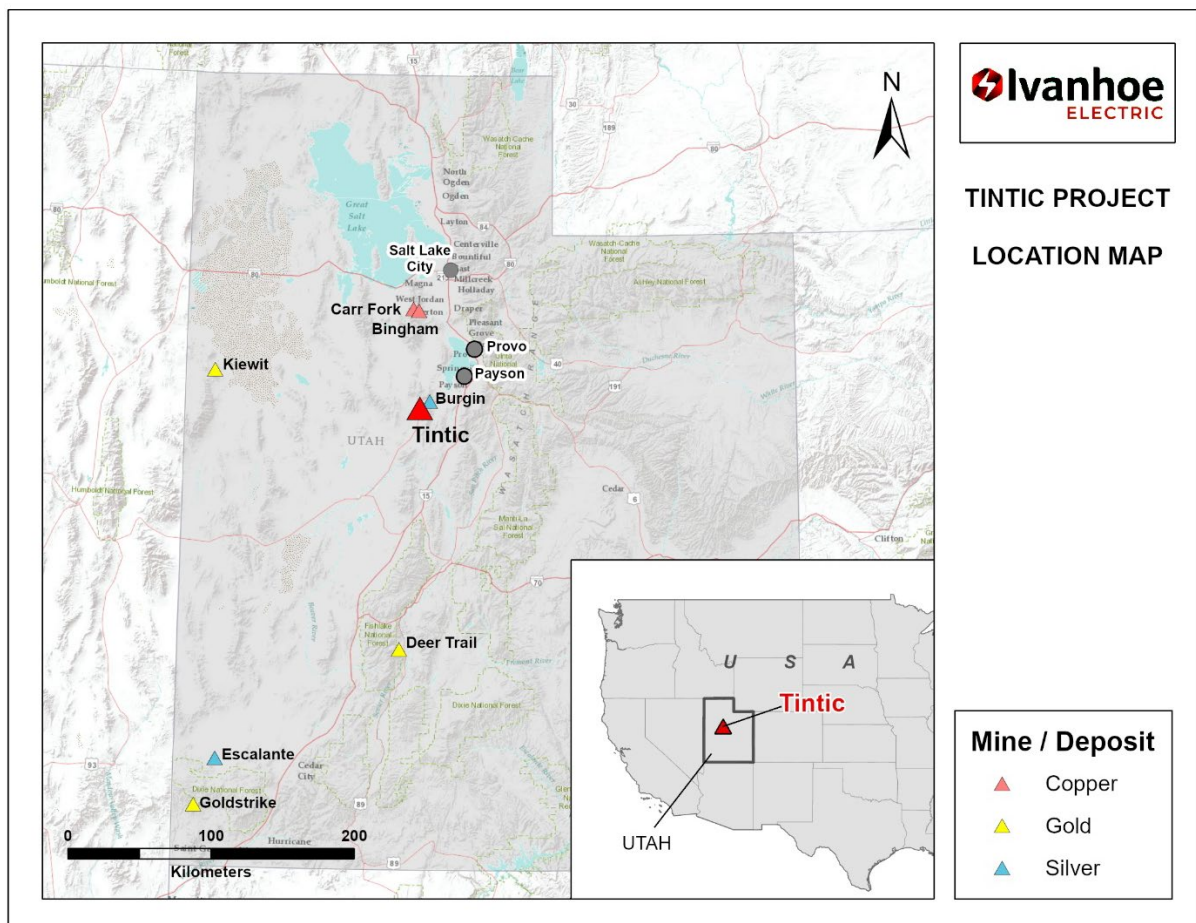
Mr. Deiss was informed by IVNE that there are no known litigations potentially affecting the Tintic Project.

4 Property Description and Location

4.1 Property Location

The Project is located approximately 95 km south of Salt Lake City, Utah and can be accessed by road from U.S. Highway 6 approximately 30 km west of the Interstate 15 junction (Figure 4-1). The center of the IVNE exploration potential area claims and applications lies approximately at 39° 55' N latitude and 112° 06' W longitude. The City of Eureka lies approximately 2 km north of the northeastern Property boundary (Figure 4-2). The exploration area covers approximately 65 km² of private patented claims, unpatented claims, state leases and prospecting permits that have been consolidated by IVNE into a cohesive package of interests (Section 4.2). All maps and reported coordinates are referenced to 1983 North American Datum (NAD83) UTM Zone 12 N.

The area hosted historic mining communities and activities, but only two communities remain today in Eureka and the town of Mammoth. The historical mining area lies in the Tintic Mountains divide between the Utah and Juab Counties. The county line occurs at the watershed divide.



Source: IVNE (2021)

Figure 4-1: IVNE Tintic Project Location relative to Salt Lake City and other Major Mining Districts in Utah

4.2 Mineral Tenure

The single most limiting factor for the development of mining in recent times relates to the complex land ownership within the District. IVNE has acquired 65 km² of mineral tenure in the historical Tintic Mining District through various agreements and applications (see Section 4.3) made through its subsidiary Tintic Copper & Gold Inc. (“TCG”), which is a successor to the merger of HPX Utah Holdings Inc. and Continental Mineral Claims Inc. (“CMC”). IVNE is in the process of consolidating all interests under Tintic Copper & Gold Inc., its wholly owned subsidiary as of April 30, 2021.

Currently, IVNE holds various types of claims and applications, which can be broadly categorized into i) CRD claims and ii) other claims and applications (Figure 4-2), and which consist of the following claims, lease agreements, and permits (Figure 4-3):

- 408 Patented lode claims (owned or subject to purchase and sale by TCG) comprising 16.6 km²;
- 179 Patented lode claims (subject to various lease or lease and option agreements by TCG) comprising 9.5 km²;
- 452 Unpatented claims (owned by TCG) comprising over 31 km²;
- 12.1 km² of SITLA (Utah School and Institutional Trust Lands Association) mineral leases, in three agreements; and
- Six Hardrock Prospecting Permit (“HRPP”) applications on Bankhead-Jones lands in the Tintic Valley, comprising 61 km² (through CMC).

The identifying name and number of each, and the areas of individual patented claims, are provided in Appendix B.

To retain an unpatented claim on federal land in the USA, a \$165 maintenance fee per claim is due annually by September 1st. Based on the current landholding this would amount to \$74,580 in annual payments for claim retention.

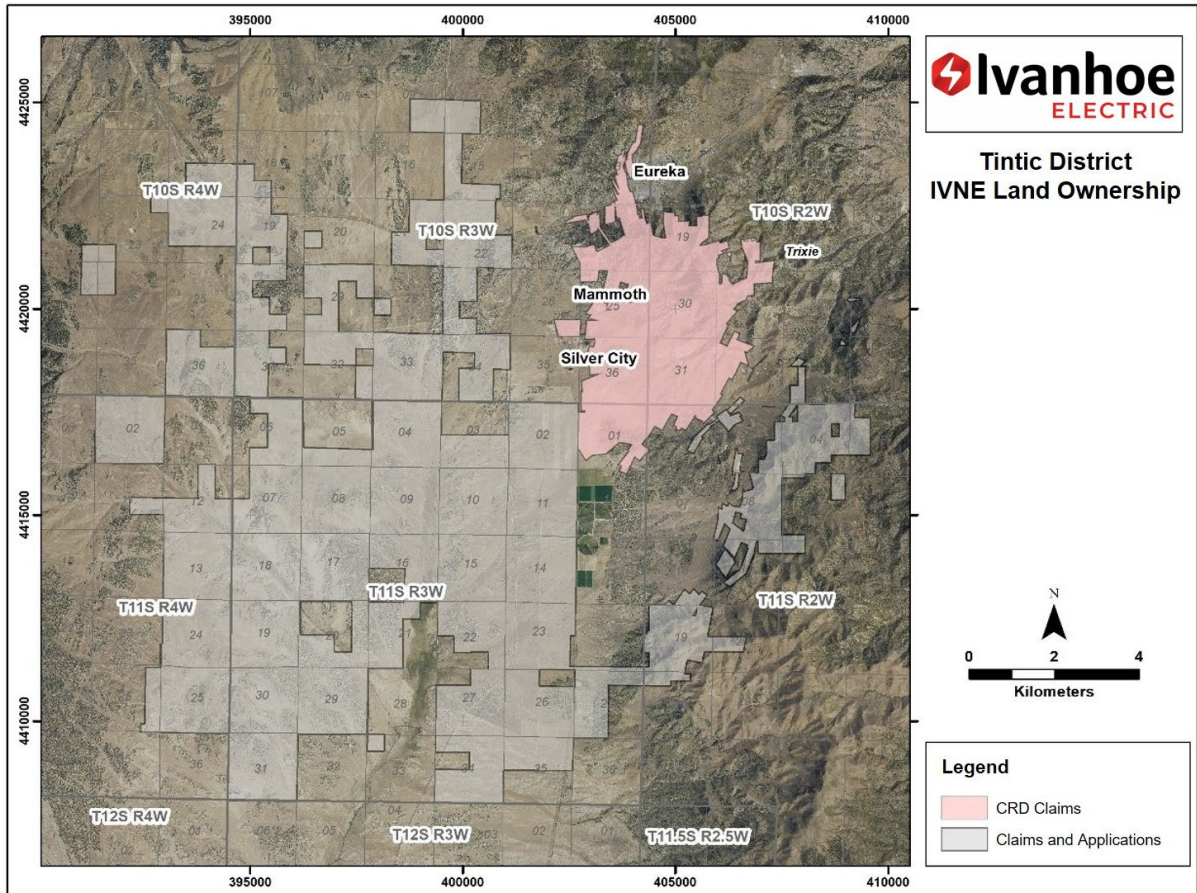
The claim positions of the Project generally provide a cohesive, contiguous land package for the possible extraction of mineralization in relation to the known geology of the area.

4.2.1 Comments

Mr. Deiss completed preliminary verification of IVNE and its subsidiary’s land tenure, relying on online searches and verifications made on the Juab and Utah County Recorders, SITLA and Bureau of Land Management (“BLM”) websites. He noted that several unpatented claims overlie patented claims entirely, which may be to cover narrow fractions between surveyed claim patented boundaries.

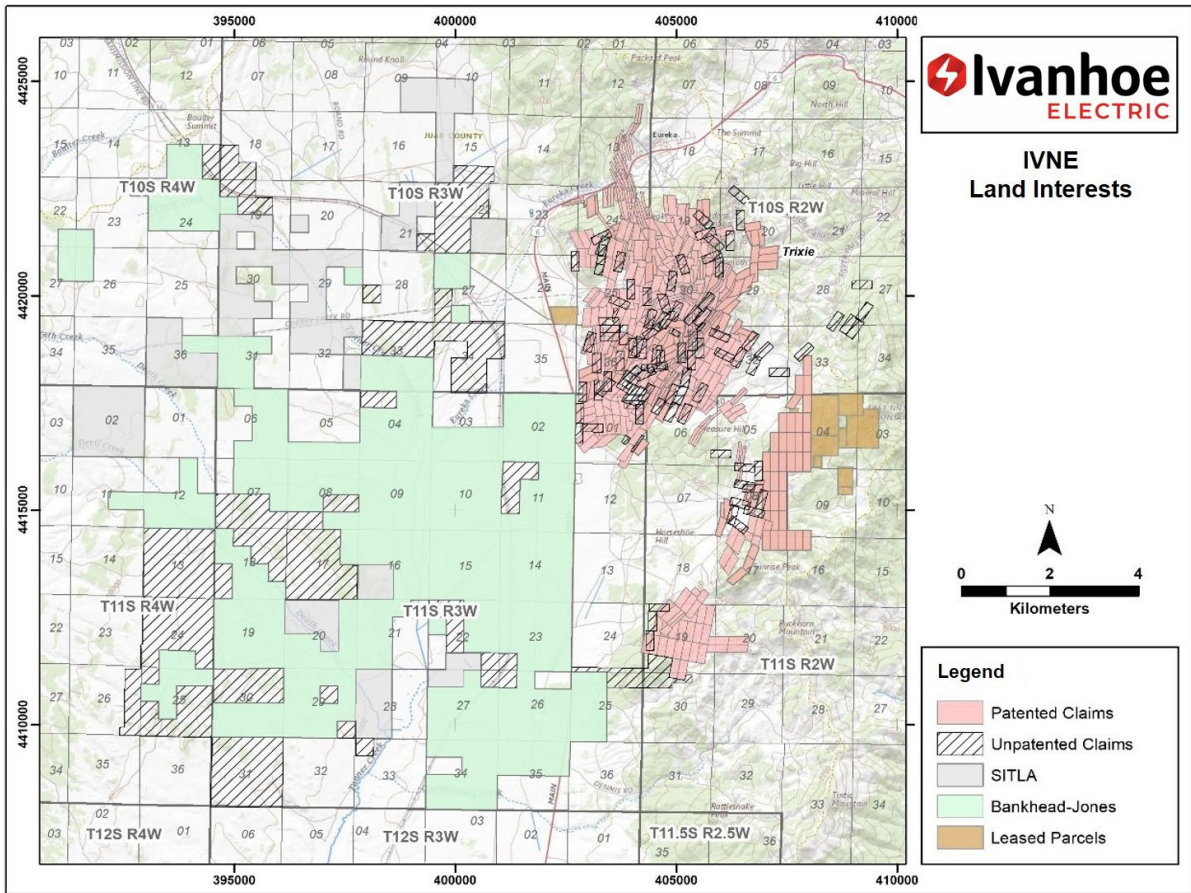
Due to the complex land ownership, a subsequent legal opinion on their mineral tenure was sought by IVNE (see Section 3). Mr. Deiss has reviewed the legal opinion document and is satisfied with the veracity of mineral tenure details documented in this report.

Mr. Deiss is satisfied based on information available on the BLM’s Mineral and Land Records System (MLRS) and received from IVNE that unpatented claim maintenance fees have been paid, and all lease and option obligations have been kept current.



Source: IVNE (2021)

Figure 4-2: IVNE Tintic Project Claims and Applications relative to City of Eureka



Source: IVNE (2021)

Figure 4-3: IVNE Land Tenure as of May 2021

4.2.2 SITLA Lands

At Utah’s Statehood in 1896, Congress granted land called trust lands, to the new state of Utah with the provision that revenue earned from the sale or lease of the land be placed into permanent endowments for 12 specific institutions. Trust land parcels were largely allocated by apportioning the state into townships, each six by six miles, and dividing each township into 36 square-mile (93 km²) sections. The State of Utah was given sections 2, 16, 32, and 36 in each township for public schools, resulting in a checkerboard of land ownership. All other designated state institutions were granted fixed amounts of acreage. Later transactions and agreements have modified School and Institutional Trust Lands Administration’s (SITLA) interests into a diverse portfolio of surface and mineral land interests throughout the state. TCG holds three leases from SITLA on 12.1 km² of mineral and surface interests, which were acquired in a competitive bid process in December 2018.

4.2.3 Bankhead-Jones Lands

Bankhead-Jones lands were created by an act of Congress and President Franklin D. Roosevelt in 1937, which authorized acquisition by the federal government of damaged agricultural lands to rehabilitate and use them for various purposes. Certain parcels in the Tintic Valley are classified as these lands and may be leased and explored for minerals by way of a Hardrock Prospecting Permit, as adjudicated by the BLM. CMC applied for this permit in December 2017 but besides acknowledging that CMC is the first, and therefore de-facto applicant on these lands, the BLM has taken no action on granting these applications as of May 2021.

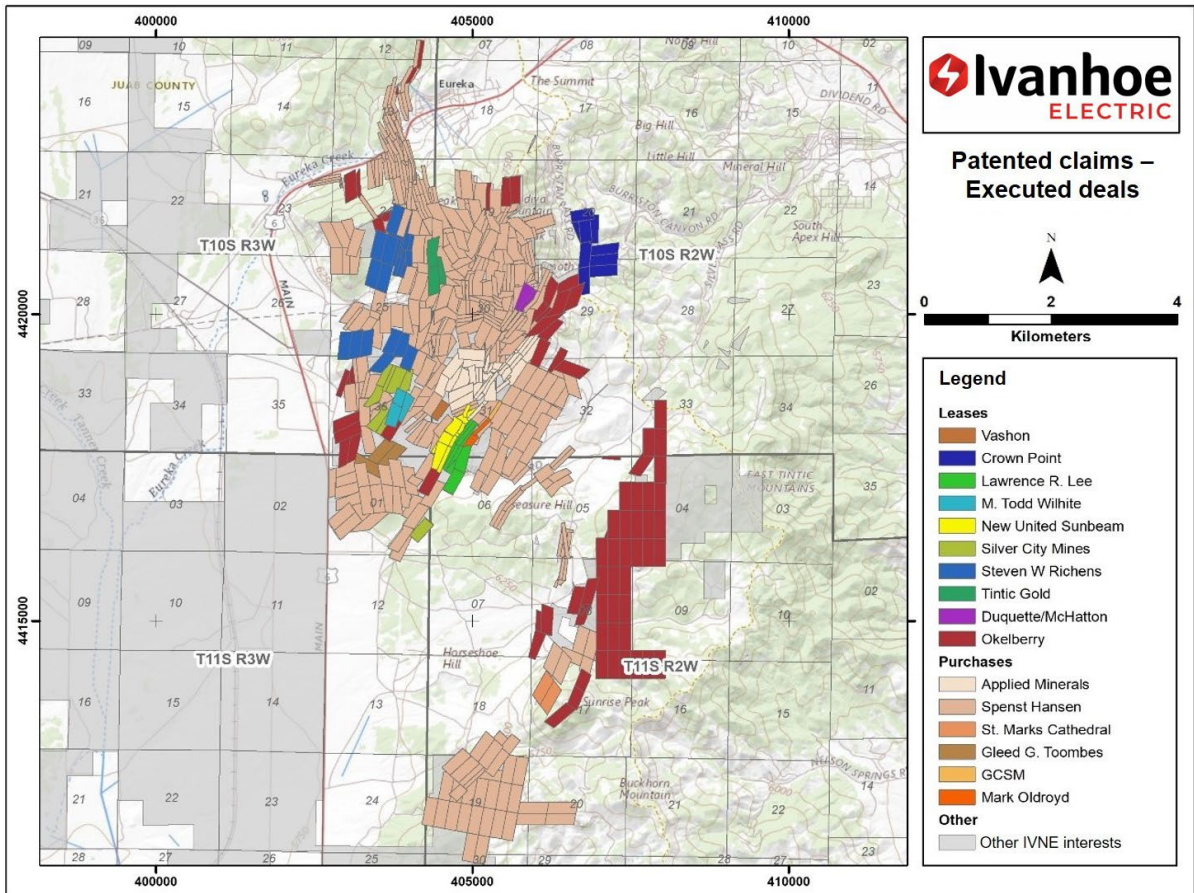
4.2.4 Re-platting and Mineral Survey

Spectrum Engineering and Environmental was contracted in 2017 for re-platting the patented mining claims located in T10S R3W Section 30, T10S R2W Sections 31, 32, 33, T11S R3W Sections 1 and 12, T11S R2W Sections 4, 5, 6, 7, 8, 9, 17, 18 and 19. In 2018 Spectrum Engineering was contracted again to complete re-platting of the patented mining claims located in T10S R3W Sections 12, 13, 14, 23, 24, and T10S R2W Sections 7, 16, 17, 18, 19, 20, 21, 28, 29, 30. Combining the re-platted claims from 2017 and 2018, some discrepancies in claims location were observed, most notably in the southwest corner of T10S R2W. After further investigation, it was recommended that an independent mineral survey be undertaken.

In the summer of 2019, Cook Sanders Associates (“CSA”) was contracted to define 24 km of the external boundary of claims owned by TCG. The survey was completed from May to September of 2019. It found the northwest section corner of section 30, T10S R2W to have a discrepancy of approximately 95 m between the published coordinates and the ties to nearby monuments, each of which were shown on the same tie sheet. This discrepancy was noted and highlighted as an area of focus in the field. Both the southwest and southeast section corners of section 30, T10S R2W were initially established from ties to the northwest section corner of section 30, T10S R2W, thus each of these monuments were surveyed independently.

4.3 Underlying Agreements

In October 2017, IVNE (HPX at the time) signed a purchase and sale agreement with Mr. Spent M. Hansen (“Hansen”) to acquire 100% of his patented claims. Regarding the terms of the agreement, IVNE would make a payment of \$500,000 on closing of the agreement and pay installments of \$500,000 on a six-monthly basis relative to the anniversary date of closing the agreement for a period of 4.5 years (April 2022) for a total purchase price of \$5M. Refer to Figure 4-4 for a map of these claims and Table 4-1 for a schedule of these payments.



Source: IVNE (2021)

Figure 4-4: Tintic Project Map of Underlying Agreements

Table 4-1: Schedule of Payments to Spenst Hansen Associated with the Tintic Project

| Porphyry Claims | | Mammoth Claims | | Gemini Claims | | Northstar Claims | |
|-----------------|--------------------|----------------|---------------------|---------------|---------------------|------------------|--------------------|
| Date | Value (USD) | Date | Value (USD) | Date | Value (USD) | Date | Value (USD) |
| 19/Oct/17 | \$500,000 | 4-Oct-18 | \$250,000 | 4-Oct-18 | \$250,000 | 4-Oct-18 | \$87,500 |
| 19/Apr/18 | \$500,000 | 1-Jan-19 | \$250,000 | 1-Jan-19 | \$250,000 | 1-Jan-19 | \$87,500 |
| 19/Oct/18 | \$500,000 | 1-Apr-19 | \$250,000 | 1-Apr-19 | \$250,000 | 1-Apr-19 | \$87,500 |
| 19/Apr/19 | \$500,000 | 1-Jul-19 | \$250,000 | 1-Jul-19 | \$250,000 | 1-Jul-19 | \$87,500 |
| 19/Oct/19 | \$500,000 | 1-Oct-19 | \$250,000 | 1-Oct-19 | \$250,000 | 1-Oct-19 | \$87,500 |
| 19/Apr/20 | \$500,000 | 1-Jan-20 | \$250,000 | 1-Jan-20 | \$250,000 | 1-Jan-20 | \$87,500 |
| 19/Oct/20 | \$500,000 | 1-Apr-20 | \$500,000 | 1-Apr-20 | \$500,000 | 1-Apr-20 | \$175,000 |
| 19/Apr/21 | \$500,000 | 1-Jul-20 | \$500,000 | 1-Jul-20 | \$500,000 | 1-Jul-20 | \$175,000 |
| 19/Oct/21 | \$500,000 | 1-Oct-20 | \$500,000 | 1-Oct-20 | \$500,000 | 1-Oct-20 | \$175,000 |
| 19/Apr/22 | \$500,000 | 1-Jan-21 | \$500,000 | 1-Jan-21 | \$500,000 | 1-Jan-21 | \$175,000 |
| | | 1-Apr-21 | \$500,000 | 1-Apr-21 | \$500,000 | 1-Apr-21 | \$175,000 |
| | | 1-Jul-21 | \$500,000 | 1-Jul-21 | \$500,000 | 1-Jul-21 | \$175,000 |
| | | 1-Oct-21 | \$500,000 | 1-Oct-21 | \$500,000 | 1-Oct-21 | \$175,000 |
| | | 1-Jan-22 | \$500,000 | 1-Jan-22 | \$500,000 | 1-Jan-22 | \$175,000 |
| | | 1-Apr-22 | \$750,000 | 1-Apr-22 | \$750,000 | 1-Apr-22 | \$262,500 |
| | | 1-Jul-22 | \$750,000 | 1-Jul-22 | \$750,000 | 1-Jul-22 | \$262,500 |
| | | 1-Oct-22 | \$750,000 | 1-Oct-22 | \$750,000 | 1-Oct-22 | \$262,500 |
| | | 1-Jan-23 | \$750,000 | 1-Jan-23 | \$750,000 | 1-Jan-23 | \$262,500 |
| | | 1-Apr-23 | \$750,000 | 1-Apr-23 | \$750,000 | 1-Apr-23 | \$262,500 |
| | | 1-Jul-23 | \$750,000 | 1-Jul-23 | \$750,000 | 1-Jul-23 | \$262,500 |
| Total: | \$5,000,000 | Total: | \$10,000,000 | Total: | \$10,000,000 | Total: | \$3,500,000 |

Source: HPX (2019)

In January 2018, IVNE (referred to as HPX in the agreement) signed an agreement with Applied Minerals Inc. for an option to purchase metallic mineral rights, which granted exploration access to the Dragon claims during the option period. The terms of the agreement indicate that (i) IVNE would be required to pay US\$350,000 lump sum at the completion of an initial 40-day due diligence, (ii) further installments of US\$150,000 are required to be paid in December each year until December 2027, (iii) at any time before December 2027, IVNE may elect to purchase 100% of the rights to minerals for US\$3,000,000, except for clay and iron oxide, and (iv) Applied Minerals Inc. retains the surface rights with joint operating conditions allowing IVNE reasonable access. In March 2020, the agreement was amended to allow IVNE an early exercise of the purchase of the metallic mineral rights for \$1,050,000, while retaining IVNE's exploration and reasonable access through the claims. IVNE immediately exercised this right and was deeded the metallic mineral rights to the subject claims.

In August 2018, IVNE signed a further purchase and sale agreement with Hansen to acquire the lode claims on the Mammoth and Gemini properties for \$10,000,000 each and the Northstar property lode claims for an additional \$3,500,000. Payments would be made over a five-year period with escalating payments as defined in the Definitive agreement (see Figure 4-4 and Table 4-1). The total cost for the Hansen agreements is \$28.5M.

In addition to the Hansen and Applied Minerals Inc. agreements, IVNE entered into an additional 22 agreements, totalling to 27, for the acquisition of claims, mineral and surface rights with numerous parties using various legal structures. All these agreements are summarized in a simplified form in Figure 4-4 and in Table 4-2.

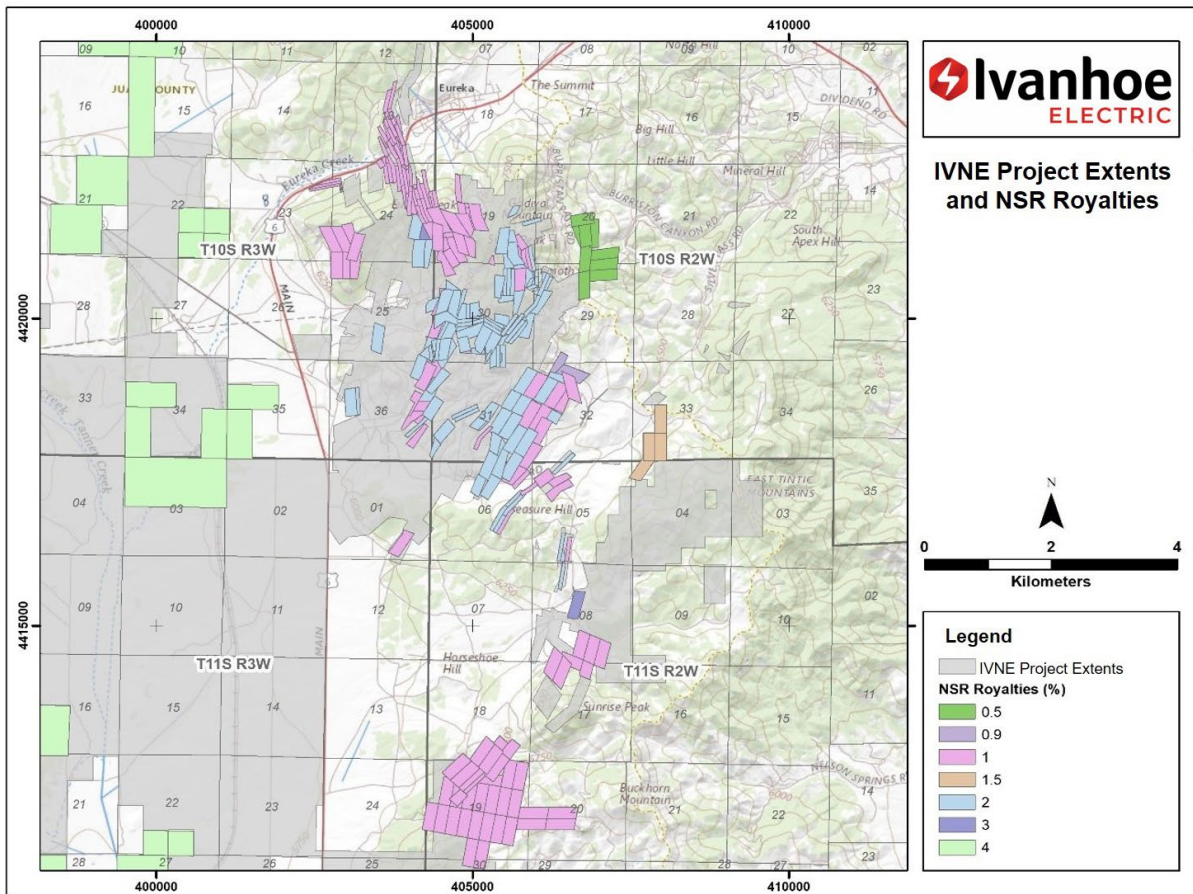
Table 4-2: Tintic Project Simplified Summary of Agreements

| Vendor | Deal Type | Status | Lease/ Option Payment (USD) | Lease/Option Payment frequency | Purchase Price (USD) | Start Date | Term |
|-----------------------------------|-------------------------------------|----------|-----------------------------|--------------------------------|----------------------|------------|--------------------------|
| Hansen Porphyry | Purchase and Sale (escrow) | Executed | see schedule Table 4-1 | see schedule Table 4-1 | | 19-Oct-17 | 5 years |
| Applied Minerals Inc. (Dragon) | Exploration with Option to Purchase | Closed | | | \$1,050,000 | 22-Dec-17 | Option Executed in 2020 |
| Okelberry (Hansen) | Lease | Executed | none | none | | 1-Jun-15 | 10 years with extensions |
| Gleed G Toombes | Purchase and Sale | Closed | | | \$11,727 | 1-Mar-18 | Closed |
| Okelberry 1 | Lease | Executed | \$5,000 | annually | | 13-Apr-18 | Renewable Annually |
| Hansen Camp (MMC) | Lease | Executed | \$12,000 | annually | | 12-Jun-18 | 5 years with extensions |
| New United Sunbeam Mining Company | Lease | Executed | \$10,000 | annually | | 21-Jul-18 | 10 years with extensions |
| Hansen Mammoth | Purchase and Sale (escrow) | Executed | see schedule | see schedule | | 4-Oct-18 | 5 years |
| Hansen Gemini | Purchase and Sale (escrow) | Executed | see schedule | see schedule | | 4-Oct-18 | 5 years |
| Hansen Northstar | Purchase and Sale (escrow) | Executed | see schedule | see schedule | | 4-Oct-18 | 5 years |
| SITLA | Lease | Executed | \$3,570 | annually | | 1-Dec-18 | 10 years |
| Lawrence Lee | Lease with Option to Purchase | Executed | \$5,000 | annually | \$100,000 | 5-Dec-18 | 10 years |
| Okelberry 2 | Lease | Executed | \$15,000 | annually | | 14-Feb-19 | Renewable Annually |
| Grand Central Silver Mines | Purchase and Sale | Closed | | | \$25,000 | 4-Apr-19 | Closed |
| Duquette/McHatton | Lease with Option to Purchase | Executed | \$2,000 | annually | \$20,000 | 9-May-19 | 5 years |
| Adrian Vashon - Jessamine Claim | Lease with Option to Purchase | Executed | \$5,000 | annually | \$40,000 | 27-Jun-19 | 5 years |
| Oldroyd | Purchase and Sale | Closed | | | \$80,000 | 14-Jun-19 | Closed |
| Todd Wilhite | Lease with Option to Purchase | Executed | \$15,000 | annually | \$210,000 | 9-Jul-19 | 7 years |
| Silver City Mines | Lease with Option to Purchase | Executed | \$10,000 | annually | \$400,000 | 20-Aug-19 | 10 years |
| Unpatented Claims | Maintenance Fees | | \$165/claim | annually | | | |
| Tintic Gold | Lease with Option to Purchase | Executed | \$100,000 | annually | \$850,000 | 20-Jul-20 | 7 years |
| Crown Point | Lease with Option to Purchase | Executed | \$15,000 | annually | \$1,000,000 | 1-Aug-20 | 5 years with extensions |
| Steve Richins | Lease with Option to Purchase | Executed | \$75,000 | on signing | \$1,500,000 | 27-Oct-20 | 5 years |
| BLM | Prospecting Permits | Pending | \$14,840 | annually | | | |

Status definitions: Executed: active deal; Pending: terms aligned and pending execution; Contemplated: preliminary discussions or budgeted by not imminent; Closed: purchase completed, and deeds conveyed

4.4 Royalty Agreements

Significant portions of the CRD exploration claims are subject to Net Smelter Return (“NSR”) royalty agreements, ranging between 1% and 4% (Figure 4-5 and Appendix C), which would be payable upon production and sale of product, i.e., there are no advance royalties. IVNE has purchased certain royalty interests already and formed an opinion on others. As part of its land consolidation effort, IVNE is continually clarifying and negotiating the relevant royalty terms to sensibly lessen the royalty burden.



Source: IVNE (2021)

Figure 4-5: IVNE Claims NSR Royalty Agreements

4.5 Encumbrances

Mr. Deiss is not currently aware of any violations by or fines due by IVNE relating to the Tintic Project. However, there are current unresolved Recognized Environmental Conditions (REC's) and pre-existing environmental liabilities, as described below. None of these impact IVNE's ability to perform exploration activities on the prospective areas prioritized as exploration potential areas.

4.6 Environmental Liabilities

Historically, there were certain encumbrances to IVNE claims due to proximity to the town of Eureka (commercial and residential portion), a United States Environmental Protection Agency ("EPA") Super fund site. This affected the northern claims that cover the Godiva shaft and tunnel, Bullion Beck-Gemini mine waste piles and central Eureka Mining Areas, portions of which IVNE has signed purchase and sale agreements to acquire from Spent Hansen. The EPA issued a ruling on Site Ready for Reuse and Redevelopment in 2015. The "Eureka Mills" Superfund site was officially delisted from the National Priorities List on September 25th, 2018. The only remaining activities are the site Operations and Maintenance (O & M) and future Five-Year Reviews, the last having been conducted in September 2018.

In September 2017, an initial desktop environmental due diligence study by IVNE was expanded to a Phase 1 Environmental Site Assessment ("Phase 1 ESA") in order to meet the EPA standard for "All Appropriate Inquiries" with respect to environmental due diligence. Ramboll Environ US Corporation ("Ramboll") has completed two Phase 1 ESA's on IVNE claims: one in September 2017 covering the sections encompassing the Hansen "Porphyry Claims" purchase and sale agreement (Ramboll, 2017), and a second in October 2018 covering the aggregate sections encompassing the Hansen "Lode Mines" purchase and sale agreements, as shown in Figure 4-6 (Ramboll, 2018). The main land parcel areas in Juab and Utah Counties that the assessments considered are as follows:

September 2017 Phase 1 ESA:

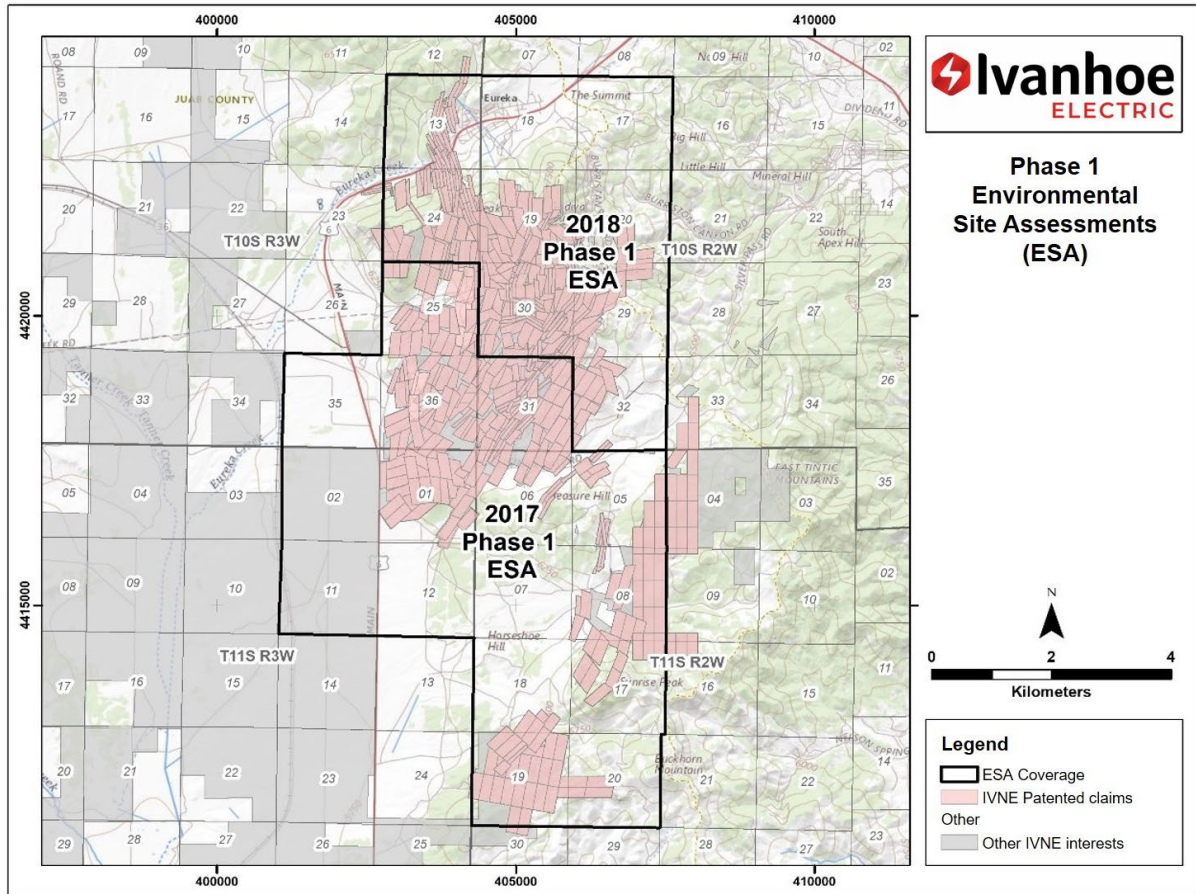
- T10S R3W Sections 25, 35 and 36;
- T10S R2W Section 31;
- T11S R2W Sections 5, 6, 7, 8, 17, 18, 19 and 20; and
- T11S R3 W Sections 1, 2, 11 and 12.

October 2018 Phase 1 ESA:

- T10S R3W Sections 13 and 24; and
- T10S R2W Sections 17, 18, 19, 20, 29, 30 and 32.

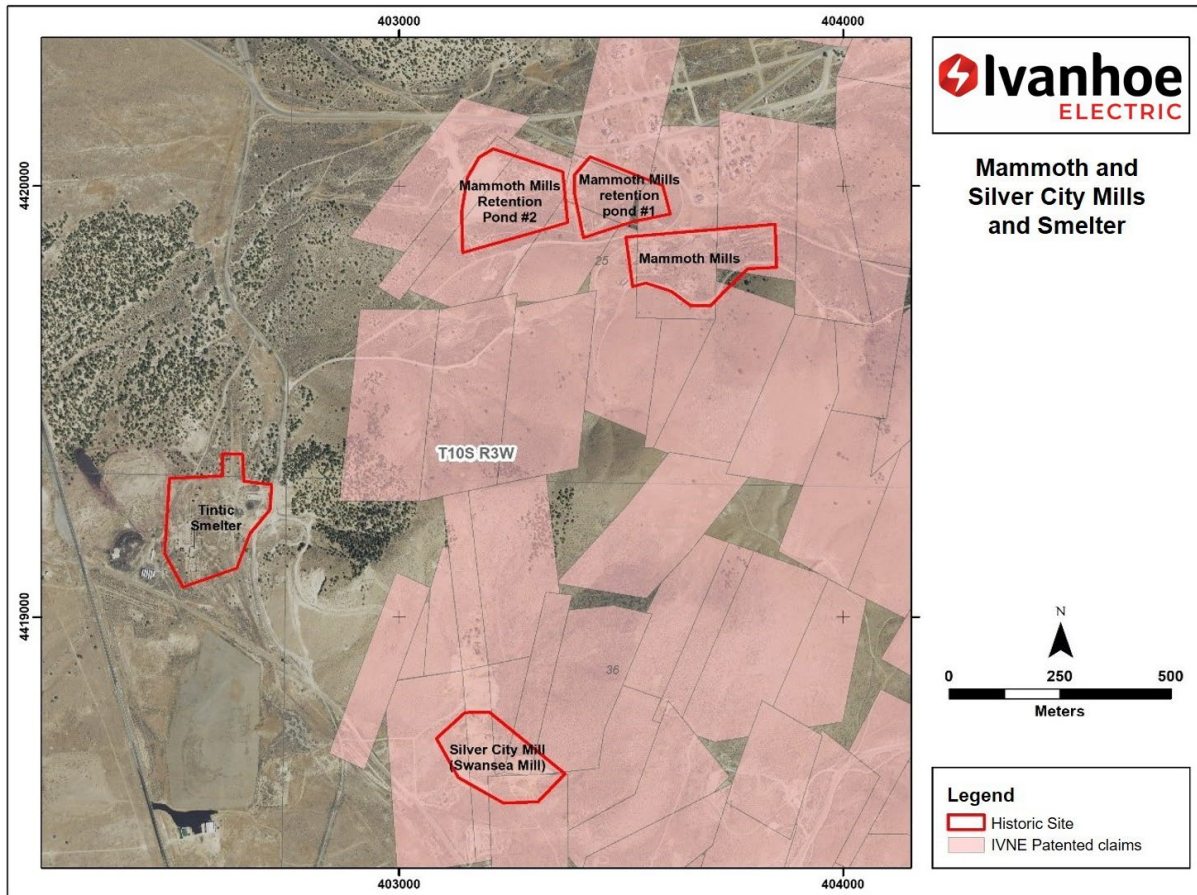
The September 2017 ESA identified two areas as being problematic. Firstly, the Silver City Mills where a site inspection was ongoing, and secondly, the Mammoth Mills and Smelter which had an expanded site investigation ongoing (Figure 4-7). No additional REC's were identified by the October 2018 ESA; other findings identified related to potential contamination concerns over past mining and railroad operations at the site and the City of Eureka historic and current operations.

In February 2021, IVNE retained Ramboll to provide an update for Silver City Mills and Mammoth Mills and Smelter, the two REC’s listed in the September 2017 ESA. The investigation revealed that there were no significant regulatory events since 2017 to change the status of the REC’s (Ramboll, 2021).



Source: IVNE (2021)

Figure 4-6: Tintic District Phase 1 Environmental Site Assessments



Source: IVNE (2021)

Figure 4-7: Historical Sites, including the Silver City Mills and the Mammoth Mills and Smelter, that are Considered to be Pre-Existing Environmental Liabilities

4.7 Required Permits and Status

In March 2021, Tintic Copper & Gold Inc. submitted a Notice of Intention (NOI) to Conduct Exploration to the Division of Oil, Gas and Mining of the Department of Natural Resources of the State of Utah. The approved permit (currently pending payment of a reclamation surety and permit fee by IVNE) will allow the recommended drilling program (Section 26) to be undertaken. The Project currently has no other necessary permits.

4.8 Other Significant Factors and Risks

Mr. Deiss is not currently aware of any other significant factors that may affect access, title or right or ability to perform work on the property.

5 Accessibility, Climate, Local Resources, Infrastructure and Physiography

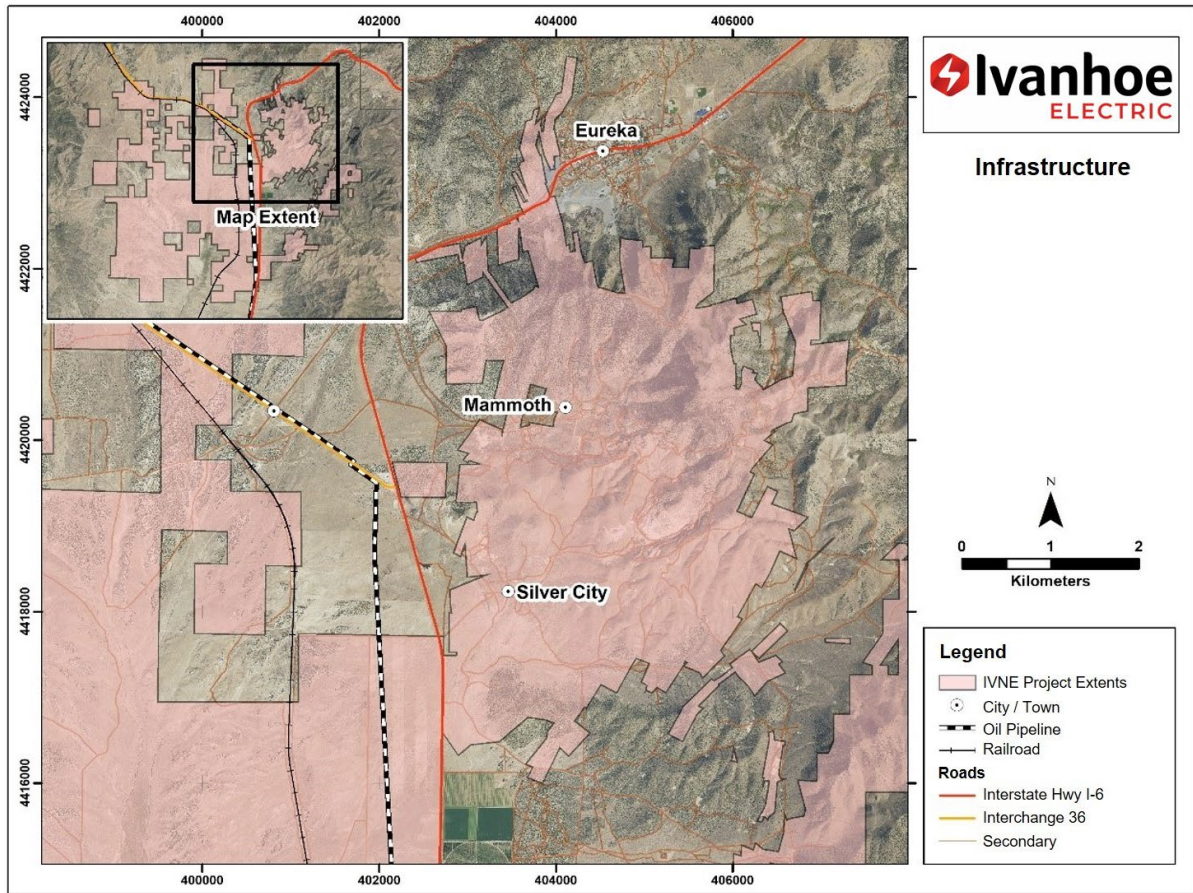
5.1 Topography, Elevation and Vegetation

The topography in the Tintic District is rolling to moderately rugged hills and mountainous terrain with north-south trending ridges and valleys with elevations ranging from 1,500 to 3,000 m of the East Tintic mountain range. Paleozoic carbonates comprise a significant portion of the Project and form large mountains with rugged cliffs, whereas the regions with igneous rocks of the Silver City and Ruby Hollow areas form gentle hills of low to moderate relief.

Vegetation generally consists of sage, juniper, pinyon pine, antelope brush, prickly pear and hedgehog cactus, and Brigham tea.

5.2 Means of Access

The Tintic Project is located approximately 95 km south of Salt Lake City, Utah (population 200,800) and can be accessed via U.S. Highway 6 (US6), approximately 30 km west of the Interstate 15 junction. US6 is within 3 km of most of the development sites at Tintic. The Silver City porphyry exploration potential area is easily accessed by a network of well-maintained dirt roads whereas the CRD exploration potential areas are accessed by several poorly maintained dirt roads and partially overgrown historical tracks. A connecting line of the Union Pacific Railroad is within 3 km of the prospective areas, and serves Utah, connecting Salt Lake City to Las Vegas, Nevada through Eureka, and material can be delivered to any California port. The nearest majors airports are the Provo Municipal Airport (48 km from Eureka) and the Salt Lake City International Airport. The local and regional infrastructure for the project is shown in Figure 5-1.



Source: IVNE (2021)

Figure 5-1: Tintic Project with Local and Regional Infrastructure

5.3 Climate and Length of Operating Season

The Tintic district has a semi-arid climate, characterized by warm, dry summers (Figure 5-2) and moderately cold winters with significant snowfall and sub-freezing temperatures (Figure 5-3). The area receives approximately 15 inches of precipitation a year with most falling as snow during the winter months. Thunderstorms are common from July to September, with monsoonal-style rain showers occurring in the afternoons.

The site is considered to have a year-round operating season.



Source: photo courtesy of IVNE

Figure 5-2: Tintic Project in summer – July 2020



Source: photo courtesy of IVNE

Figure 5-3: Tintic Project in winter – December 2018

5.4 Sufficiency of Surface Rights

IVNE holds surface rights that are sufficient to allow for continued exploration on the Tintic Project. A drilling permit has been obtained to allow for the work program proposed to take place in 2021. No mining or processing is currently taking place on the Project.

5.5 Infrastructure Availability and Sources

The infrastructure and facilities used to support the exploration activities on the Project to date, the water and power supply for the area, and the sources of supplies and personnel are described in this section. A summary of the historical surface and underground infrastructure is provided below, as well as an account of the underground rehabilitation work plan commissioned by IVNE.

The Project is managed out of the City of Eureka, population ~700 (Figure 5-4), approximately 2 km north of the northeastern property boundary. Eureka offers limited services including two gas stations, a general store, an auto mechanics shop, and a small roadside motel. Equipment and other services are generally obtained from the towns of Tooele or Payson/Spanish Fork, which are each a 45-minute drive away by car. IVNE has established a permanent presence in the Tintic District and is currently headquartered out of Eureka, where it has leased a 93 m² office and an attached 325 m², 5-bedroom, 4-bathroom bunkhouse for geologic staff housing. IVNE has also retained an 8-bedroom, 6-bathroom former bed and breakfast, The Goldminer's Inn, as additional staff accommodations (Figure 5-5).



Source: photo courtesy of IVNE

Figure 5-4: Eureka, Utah, 2019

IVNE has developed a small parcel at the mouth of the Mammoth Valley to serve as a core logging and storage facility (Figure 5-5). The facility is plumbed with running well water owned by Spenst Hansen, 2 km west in the Tintic Valley. The primary core shed is a 230 m², 7.6 m high metal Quonset hut with concrete foundation. The Quonset hut has running water, electrical services including overhead LED warehouse lighting, and it heated by two overhead 150k Btu propane radiant tube heaters. The core shed is secured by two large bay panel doors with padlocks. A Tuff Shed has been constructed adjacent to the Quonset hut on a concrete pad to serve as the core cutting facility. The cut shack is wired with electrical utilities and heated by an overhead radiant heater.



Source: photos courtesy of IVNE

Figure 5-5: Facilities at Tintic include the (A) IVNE office; (B) IVNE crew bunkhouse; (C) and (D) Mammoth Core Shack

Water for the Project can also be sourced from the Eureka City maintenance yard at a cost of \$0.01 per gallon (~3.8 liters). The exploration area contains several small ephemeral springs that are productive in the early spring. The exploration area does not contain any streams or rivers owing to the arid nature of the climate.

Rocky Mountain Power Company provides electric utilities to the Eureka City community and a high-power transmission line services Eureka, Mammoth, and Silver City. Gas is supplied by Blue Flame Propane.

Limited supplies and personnel are available from Eureka, however, the main source is the Salt-Lake City-Ogden-Provo metropolitan area, a corridor of contiguous urban and suburban development stretched along a 190 km (120-mile) segment of the Wasatch Front with a population of 2.7 million.

5.6 Historical Surface and Underground Mining Infrastructure

The Tintic District contains numerous historical mine adits, shafts, and prospect pits. The majority of these historical sites have been catalogued by the State of Utah Department of Abandoned Mines, who have overseen the backfilling and capping/grating of open portals and shafts. The Department also has completed an inventory of almost all historical prospect pits, adits, and shafts in the Tintic District and at each location they have secured a metal survey peg with the mine catalog identification number.

Most historical shafts, adits, and open stopes/glory holes near well-traveled roads and populated areas in the Tintic District have been backfilled or barricaded by rebar fencing (Figure 5-6). However, the district contains many historical features that are still open at surface. Most large past producing mine shafts have had their surface facilities and headframes removed and the shaft capped with concrete and rebar mesh. IVNE has actively cataloged open mine features and erected signage to warn against potential dangers (Figure 5-6). Where possible, no trespass signs are erected to help secure the IVNE property. Additionally, in those underground workings that are safe to access, there are many remnant pieces of equipment and metal and wood supports still present (Figure 5-7). The IVNE property is crossed by many historical mine roads and railroad grades, which provide access to most of the property.



Source: photos courtesy of IVNE

Figure 5-6: Utah Division of Abandoned Mines Survey Peg; (B) Caution sign at Murray Hill shaft; (C) Open stope at Carisa Mine and (D) Grand Central Mine Building



Source: photos courtesy of IVNE

Figure 5-7: Examples of Underground Historical Infrastructure at the Tintic Project: (A) Grand Central Shaft; (B) Sunbeam Shaft Collar; (C) Mammoth Mine; and (D) Mammoth Mine Shaft Station at 300 Level Underground

5.7 Underground Rehabilitation

In July 2019, IVNE commissioned a study by Nordmin Resource & Industrial Engineering USA (“Nordmin”) to complete an investigation of and devise an underground rehabilitation work plan for the Sioux-Ajax Tunnel, a drift accessible from surface near the town of Mammoth (Nordmin, 2019). It also provided a work plan and approximate cost to rehabilitate portions of several levels of workings for these areas to be accessible for budgeted exploration mapping, sampling and drilling. The work plan included temporary ventilation, safety equipment and all necessary mitigation in conjunction with mine access regulations as prescribed by the Mine Safety Health Administration (MSHA), a mining-specific safety regulatory body that operates on a national scale.

The analysis of the Tintic region was completed under the review of meeting MSHA regulations, CIM Best Practice Guidelines and Ontario Mining Act regulations to evaluate the various options. The investigation by the site investigation team focused on the following five locations:

- 1) Sioux-Ajax Portal and Tunnel;
- 2) Grand Central Shaft;
- 3) Holden Tunnel (Centennial Eureka Shaft);
- 4) Mammoth Shaft; and
- 5) Lower Mammoth Tunnel.

Of importance are the Grand Central Shaft and the Sioux-Ajax Tunnel. The Grand Central Shaft offers a significant potential opportunity to expand any geologic mapping, drilling and exploration programs on the Project. It is centrally located and with a 6’ x 14’ opening, could be utilized for hoisting or ventilation of additional workings and provides for further opportunity for underground exploration/spelunking to find other accessible work areas. However, there is currently a plug of waste material approximately 90 m from the shaft collar of the shaft. From current information, the depth and material makeup of the plug cannot be determined. It is recommended that further exploration of nearby levels that intersect with the shaft be performed with the intent of mapping the bottom of the plug. Once the total plug depth is determined, further plans to rehabilitate the shaft down to the plug can be developed and estimated. Trade-offs can then be performed to determine the value of additional access and ventilation from the Grand Central Shaft relative to the potential mineralization in the area as modelled from previous mapping and drilling programs.

The Sioux-Ajax Tunnel is a long decline that connects to the existing Northern Spy Mine and Carisa Stopes and provides a means of accessing drill targets and geologic mapping and sampling programs. IVNE plan to complete additional more detailed geological mapping of the tunnel to complement the existing recent geological mapping, and complete underground diamond drilling from two locations. The area is well positioned for the two proposed underground core drilling stations that could target areas of potentially high value. Nordmin conducted an initial geotechnical review of the Sioux- Ajax portal to establish the level of rehabilitation that would be required to support various geological mapping and drilling activities.

Nordmin supplied budget advice and recommendations to substantiate and support various exploration and drilling activities of these access areas. It is the opinion of Nordmin, supported by the due diligence team’s findings, that:

- 1) The rehabilitation of the Sioux-Ajax Tunnel (Figure 5-8) makes sense from an overall standpoint. The Sioux-Ajax Tunnel offers access to substantial underground drifts for exploration and geologic mapping. Geologic mapping activities could be performed with or without the core drilling program, but share enough commonality with the first drilling station, that operational and cost efficiencies could be managed by rehabilitating the initial ~90 m of the tunnel before extending the rehab program down drift. The geologic mapping would give early information to tie in potential future drill targets while validating the importance and value of the second drill station before start-up. The additional exploration into further connected tunnels would require an established set of procedures for entry/exit, safety, egress and other typical plans needed for the operation of an underground facility under MSHA regulations.
- 2) The Grand Central Shaft (Figure 5-8) offers significant potential value due to its location and the accesses that would be gained by removing the plug. It also allows for the potential of additional ventilation to existing and other areas underground, allowing for access to additional mapping and drilling locations.

Budget recommendations (Nordmin, 2020) for optional underground areas and shafts to rehabilitate are listed in Table 5-1.



Source: photos courtesy of IVNE

Figure 5-8: Some Historical Infrastructure Under Consideration for Rehabilitation by IVNE includes (A) the Sioux-Ajax Portal and Tunnel; (B) the Holden Portal and Tunnel; and, (C) and (D) the Grand Central Shaft

Table 5-1: Nordmin Budget Recommendations-Underground Areas and Shafts to Rehabilitate

| Options | Budget Cost (\$USD) | Schedule | Comments |
|---|---------------------|---------------|--|
| 1 – Sioux-Ajax Rehab for Geo Mapping Phase 1 | \$1.71M - \$2.19M | 40 – 66 Days | Includes surface electrical infrastructure to be installed as part of the project to reach lower work areas. May require more than 1 Load Center to complete work. |
| 2a – Sioux-Ajax Rehab/Drilling Phase 2 | \$1.07M - \$1.76M | 70 – 110 Days | Assumes surface and electrical infrastructure from Phase 1 is already installed and in place. Includes max number of Load Centers. |
| 2b – Sioux-Ajax Rehab/Drilling Phase 1 & Phase 2 | \$2.46M - \$3.46M | 98 – 140 Days | Project Efficiencies of doing both projects include: <ul style="list-style-type: none"> - One mob/demob cost - One setup/portal structure cost - One purchase of electrical equipment |
| 3a – Grand Central Shaft Rehab for Plug Inspection | \$700k – \$980k | 35 – 60 Days | Includes surface demolition of existing structures and rehabilitation of the shaft ~300' to the plug |
| 3b – Grand Central Shaft Plug Removal | \$11.1M - \$20M+ | 238 Days +/- | Cost is based on an estimate performed in 2011 for a similar shaft plug. No escalation of costs has been performed to requote due to lack of information about the plug size. |
| 4 – Holden Tunnel Rehab | \$1.50M - \$2.03M | 48 – 78 Days | Cost is based on a geological mapping program only, not drilling. Additional costs for widening a drill station and rehabilitation infill would be required for drilling execution. |
| 5 – Mammoth Tunnel and Winze Rehab | \$1.50M - \$1.62M | 27 – 40 Days | Includes entire Mammoth Tunnel work areas. |
| 6 – Mammoth Tunnel as utility corridor or secondary egress | \$1.14M - \$1.19M | 19 – 26 Days | Requires barricading of collapsed shaft infrastructure area. |
| 7 – Lower Mammoth Rehab | \$1.19M - \$1.26M | 22 – 32 Days | Assumes rehabilitation up to, but not including the collapsed area. A detailed evaluation would be required to determine the extents of the collapsed area once the area is secured. |
| Assumptions: | | | |
| <ul style="list-style-type: none"> - HPX or its approved representatives will procure major/long lead items <ul style="list-style-type: none"> o Electrical infrastructure, ventilation fans, portal structure o Contractor will supply all other materials - No existing electrical infrastructure is assumed to be available - Electrical feeds will be required for all options | | | |
| Opportunities: | | | |
| <ul style="list-style-type: none"> - Early stage work for Sioux-Ajax Portal can be operated utilizing a diesel generator - There may be a permanent electrical feed available nearby, which could eliminate the requirement of a substation - Performing both Phase 1 and Phase 2 of the Sioux-Ajax Tunnel would offer operating efficiencies and schedule gains and reduction of mob/demob costs - Electrical Infrastructure is preliminarily designed to be reused for other projects/exploration | | | |

6 History

Due to the complex and unclear land ownership during more than 125 years of exploration and mining in the Tintic District, Mr. Deiss cannot provide a comprehensive account of historical land ownership. However, Hansen has owned and currently owns large portions of the District.

6.1 Tintic Mining District History

Mineralization in the Tintic Mining District was discovered in 1869, and by 1871 significant mining camps were established in the nearby City of Eureka, and the now defunct towns of Silver City and Diamond. Mineral extraction focused on high-grade Ag-Pb-Zn oxide CRD mineralization hosted in Paleozoic limestone both at surface and underground (Tower and Smith, 1900; Lindgren et al., 1919; Krahulec and Briggs, 2006). The Tintic precious and polymetallic mining district saw nearly continuous mining operations from 1871 through to 2002 with variations in the level of activity, or commodity extracted. Estimates of the total mineralization historically extracted from the Main and Southwest Tintic Districts is summarized in Table 6-1.

Table 6-1: Tintic Main and Southwest Districts’ Estimated Historical Production

| Metal | Unit | Historical Production |
|--------|------|-----------------------|
| Gold | Moz | 2.18 |
| Silver | Moz | 209 |
| Copper | kt | 116 |
| Lead | kt | 589 |
| Zinc | kt | 63 |

Source: Krahulec and Briggs (2006)

Total historical production from deposits located within IVNE’s acquired property, predominantly in the Main and Southwest Tintic mining districts, totals 1.89 Moz Au; 136 Moz Ag; 104 kt Cu; 416 kt Pb and 6 kt Zn. The gold and copper mineralization are evidence that the IVNE property is potentially proximal to a mineralizing source.

Exploration and development in the District increased dramatically between 1878 and 1891 after the introduction of the Utah Southern and Rio Grande Western Railroads. Discovery of new mineralization coupled with improvements to infrastructure and transportation resulted in continuous growth in the area, and by 1899, the Tintic Mining District would surpass the Salt Lake District as the largest polymetallic producer in Utah (Lindgren et al., 1919). Gold production peaked in 1907, followed by a peak in copper production in 1912, silver production peaked in 1925 and zinc production peaked in 1926. By 1916, fifty-four mines were active within the Main Tintic District (U.S. Geological Survey, 1916). Major discoveries within the East and Southwest Tintic sub-districts continued to spur growth, exploration and development of new operations through the 1920’s and into the early 30’s. During this time, the first sulfide mineralized material was exploited via dewatering the lower levels of the Tintic Standard mine. Though Tintic was strongly affected by the Great Depression, devaluation of the US dollar in 1934 led to increased gold prices, resulting in a surge of gold prospecting by unemployed miners and stimulated production in the Tintic District. This saw continual growth in production through the Great Depression of the 1930’s and into the 1940’s (Krahulec and Briggs, 2006).

A federal assistance program designed to increase base metals production during World War II bolstered numerous operations in the District, even as several operations began commercial closures in the 1940's (Eureka Standard mine [1940], Eureka Lilly and Tintic Standard mines [1949]). The early-1950's were marked by failed attempts by Anaconda, Kennecott, Hecla and Calumet, to locate the north extension of the Chief deposit and explore for porphyry-style mineralization in the Main Tintic District. In 1958, the Bear Creek Mining Company discovered the high-grade Ag-Pb-Zn Burgin mine, which remained in operation until 1978. Bear Creek Mining Company also ran exploration programs through the 60's and 70's, delineating a low-grade chalcocite blanket south of Treasure Hill, followed by discovery of a deep, low-grade porphyry copper system known as the Southwest Tintic Porphyry (SWT Porphyry). Further discoveries made by Bear Creek Mining Company include Ballpark Pb-Zn-Mn deposit and Homansville gold zone (Morris and Lovering, 1979). Neither of these discoveries were developed further after initial estimates were completed.

The slow decline of operations in the Tintic District was accelerated by the Clean Air Act of 1971, which affected base metal production across the American West and resulted in multiple closures of Ag-Pb-Zn mines in the Tintic District. However, exploration and development continued with the emphasis on the precious metal potential. Kennecott began commercial production of high silica mineralized material at the Trixie Mine in 1974, where operations ceased in 1982. During the 1980's, a claims consolidation effort in the District was led by two major companies: American Metal Climax Inc. (succeeded by Amax) and South Standard Mining Company. Mineral exploration continued throughout the 1980's and 1990's. Asarco installed a new headframe and hoist and rehabilitated the Chief No. 2 Shaft in 1981 for an underground exploration program that ran until 1984. Anaconda drilled several exploration holes in the central and eastern parts of the District (James 1984). A joint venture between Western Mining Corporation Holdings Ltd. and Centurion Mines Corporation conducted an exploration program for gold mineralized material in the Main Tintic sub-district into the late-80's. Centurion also performed trenching and limited drilling in the Southwest Tintic sub-district, which was re-examined by Kennecott for porphyry copper and volcanic-hosted copper-gold massive sulfide mantos during the early 1990's.

During the 1990's, Chief Consolidated Mining conducted an underground exploration program and rehabilitated the workings connecting the Chief, Plutus, Eagle and Gemini mines. Although an underground drillhole intersected high grade silver mineralization, no further work has been reported. In November 1996, Chief Consolidated Mining hired Thyssen Mining Construction of Canada Ltd. to conduct preliminary engineering design, budgeting, and planning services for sinking the new Burgin shaft, underground development and contract mining. They estimated capital expenditures of US\$42 million, to resume production at the Burgin mine, which to date remains inactive (Krahulec and Briggs, 2006) but is the subject of renewed exploration and resource expansion interest (Section 23). During the 1990's, several efforts to process waste rock material were pursued, with varying degrees of commercial success. Most operations utilized small-scale leaching processes, such as South Standard's 18,000 ton/year sale of flux material from the Trixie waste dump between 1993 and 1995. By 1996, all metal production from the Tintic District had been halted. The Trixie Mine was briefly in operation under Chief Consolidated Mining in 1999, 2001 and 2002. However, unstable ground conditions in late March 2002 resulted in suspension of production indefinitely.

From 2002 to present, sporadic exploration efforts continued. Anglo American and Kennecott both entered into a joint venture partnership with Chief Consolidated Mining, targeting porphyry-style mineralization at Big Hill in the East Tintic sub-district. FMEC, a subsidiary of Freeport McMoran acquired the SWT Porphyry from Quaterra in the late 2000's and is currently still exploring the area. During this time, various entities of Spent Hansen (Treasure Hill Mines LLC, Centurion Mines Corporation, Knight Silver Mines LLC, etc.) consolidated land, collected channel, rock and waste samples, performed data compilation and enlisted the services of Elder and Gurr (2010) to prepare an independent assessment of mineral asset potential for Hansen's northern claims. Sporadic mining operations continued at the Dragon halloysite and iron oxide deposit during this time. Table 6-2 summarizes the timeline of significant events that occurred in the Tintic District.

Table 6-2: Tintic District History of Important Events

| Year | Event |
|------|--|
| 1869 | Sunbeam claim was staked by George Rust and a party of prospectors |
| 1870 | Important discoveries made at Black Dragon, Mammoth and Eureka Hill |
| 1877 | Mine production begins at Eureka Hill |
| 1878 | Utah Southern Railroad completed to Ironton, five miles west of Eureka |
| 1882 | Bullion Beck mine commenced operations |
| 1886 | Shipment of mineralized material begin at the Centennial-Eureka mine |
| 1891 | Rio Grande Western Railroad completed to Eureka and later extended to Silver City |
| 1893 | Mammoth Mining Company constructs 20-mile water pipeline from West Tintic Mountains, resulting in the commissioning of pan-amalgamation mills at Mammoth, Bullion Beck, Eureka Hill and Sioux. |
| 1896 | Humbug mineralized body discovered |
| 1899 | First shipment of mineralized material mined from the East Tintic subdistrict (the Lilley of the West mine) |
| 1900 | United States Mining Company purchased the Centennial-Eureka mine |
| 1905 | Iron Blossom mine discovered |
| 1906 | Initial zinc production from the Tintic mining district occurred at the Scranton mine |
| 1904 | Tintic Standard Mining Company formed |
| 1908 | U.S. Smelting, Refining and Mining Company acquired the Bullion Beck and Champion mines; Tintic Smelting Co. commissioned a new lead smelter at Silver City |
| 1909 | Chief mineralized body discovered; Iron Blossom and Eureka Lilly mines commissioned |
| 1916 | Tintic Mining Company commissioned the 200-stpd chloritizing, roasting and leaching facility at Silver City; Pothole silver mineralized body discovered at Tintic Standard mine |
| 1917 | High grade Central mineralized body discovered at Tintic Standard mine |
| 1920 | Goshen Valley Railroad completed an 11-mile standard gauge line from Iron Spur to Dividend |
| 1921 | Tintic Standard Mining Company commissioned the 200-stpd Harold mill at Goshen |
| 1923 | Plutus mineralized body discovered by Plutus Mining Company |
| 1925 | Tintic Standard Mining Company ceased operations at the Harold mill facility |
| 1927 | Significant discoveries made on the North Lily and Eureka Lilly properties |
| 1928 | Gold mineralized material discovered at Eureka Standard |
| 1929 | U.S. Smelting, Refining and Mining Company acquired the Victoria and Eagle & Bluebell mines; |
| 1940 | Commercial operations cease at Eureka standard |
| 1943 | U.S. Smelting, Refining and Mining Company ceased commercial operations at Eagle & Bluebell, Centennial Eureka, Bullion Beck and Victoria mines |
| 1949 | Commercial operations cease at Eureka Lilly, North Lily and Tintic Standard; Filtrol Corporation commenced halloysite mining operations at the Dragon mine |
| 1957 | Chief Consolidated Mining Company cease operations at the Chief mine |
| 1958 | Burgin mineralized body discovered by Bear Creek Mining Co. |
| 1962 | Bear Creek Mining Co. delineate chalcocite blanket above a suspected porphyry copper system |
| 1966 | Kennecott achieve commercial operations at the Burgin mine |
| 1968 | Bear Creek Mining Co. delineate the SWT porphyry copper system (400 Mt of 0.33% Cu) |
| 1969 | Bear Creek Mining Co. discover gold-silver-copper mineralized material at Trixie |
| 1974 | Kennecott achieve commercial operations at Trixie |
| 1976 | Filtrol Corporation cease operations at the Dragon halloysite mine |
| 1978 | Kennecott suspends operations at Burgin mine, returning ownership to the Chief Consolidated Mining Co. |
| 1980 | Sunshine Mining Company lease Burgin mine from the Chief Consolidated Mining Co. |
| 1982 | Kennecott suspend mining operations at Trixie mine |
| 1983 | Sunshine Mining Company acquire Trixie lease and resume operations |
| 1988 | North Lily Mining Company commissioned the Silver City heap leach facility |
| 1992 | Sunshine Mining Company cease mining operations at Trixie |
| 1993 | North Lily Mining Company close the Silver City heap leach facility |
| 1996 | Chief Consolidated Mining Company acquire Trixie property through merger with South Standard Mining Co. |
| 2001 | Chief Consolidated Mining Company resume operations at Trixie |
| 2002 | Unstable ground conditions result in suspension of mining operations at Trixie |
| 2003 | Atlas Mining Company begin exploration at Dragon halloysite mine |
| 2007 | Richard Sillitoe endorses porphyry potential at Big Hill in East Tintic |
| 2008 | Anglo America commences exploration drilling at Big Hill |
| 2009 | Applied Minerals take over operations at Dragon halloysite mine from Atlas Mining Company |
| 2009 | FMEC, a Freeport McMoran subsidiary acquires SWT porphyry from Quaterra |
| 2011 | Kennecott commences exploration drilling at Big Hill |
| 2017 | HPX begins exploration in the Tintic District |
| 2017 | HPX completes aeromagnetic survey |
| 2018 | LeadFX sells the Chief Mining Company (Burgin, Trixie mines) to IG Copper |
| 2018 | HPX completes soil sampling, geologic mapping and prospecting, digitization of historical documents, and begins 3D modeling of the district geology and workings, facilities construction and Typhoon ground geophysical survey. |
| 2019 | Continued geologic mapping, sampling, and prospecting. Initiated core and chip re-loggings and Relogging of historical drillhole core and chip samples. Completion of the 2018 Typhoon Survey. |
| 2019 | IG Copper begins refurbishment of the Trixie underground Au-Cu-Ag mine |
| 2020 | HPX completes detailed structural analysis, drill permitting, archaeological surveys and underground geologic mapping of the Sioux-Ajax Tunnel |

Source: modified from Krahulec and Briggs (2006) and HPX (2019)

6.2 Exploration and Development Results of Previous Owners

Exploration work has been completed across the Tintic District from the time of discovery in 1867 until the present. Documented details of exploration activities prior to 1943 consist primarily of thousands of photos (Figure 6-1), reports, and maps (Figure 6-2). These document a significant amount of mapping, exploration and mining both on surface and underground. Most of the mining was completed underground with access to drifts via either surface portals or shafts. Post 1943, activities such as surface exploration and drilling are well documented and are briefly summarized in Table 6-3.

The compilation of all available historical data, including drilling, by IVNE is described in Section 9.4. A total of 489 drillholes were completed historically on the Tintic Project by several operators, with a combined length of at least 72,212 m, however not all of the details are available. The historical drilling database compiled by IVNE is discussed further in Section 9.4.2.



Source: HPX (2020)

Figure 6-1: (A) Eureka, UT in 1911; (B) Miners at the Ajax Mine in Mammoth and (C) Chief Consolidated Mining Co. miners at the Holden Tunnel, Eureka, Tintic District



Source: HPX (2020)

Figure 6-2: Examples of Historical Surface Mapping and Underground Geology Maps (A) a Surface Geology Map around the Dragon Mine (1 to 800 ft scale) and (B) Geology Map of Underground Workings at 300 level of the Iron Blossom Mine (1:400 ft scale)

Table 6-3: Summary of Exploration Work Conducted Post-1943 and Prior to IVNE Acquiring the Tintic Project

| Years | Activities | Company | Description |
|-----------|----------------------|--------------------------|---|
| 1943-1944 | Drilling | Mintintic | Four drilled along the margins of the Silver City stockwork which had been historically thought to be the source of mineralization in the Main District. |
| 1950's | Exploration | Anaconda | Evaluated the igneous terrain in Southwest Tintic for porphyry Cu potential. |
| 1962-1967 | Drilling | Bear Creek Mining | <i>Southwest Tintic Chalcocite Blanket Project:</i> Thirty shallow (mostly 100 - 150 m) rotary drillholes ("RC") (SWT-1 through SWT-30) were drilled on an approximate 600 m grid targeting a shallow chalcocite blanket above a suspected porphyry. A sub-economic copper resource was delineated based on 10 of these holes. Holes assayed for Au and Ag but returned low grades. |
| 1967 | Data Evaluation | Bear Creek Mining | Treasure Hill area: evaluated data to establish whether there was interest in acquiring claims. Due to insufficient information the acquisition was not completed. |
| 1968-1981 | Drilling | Bear Creek Mining | <i>Primary Porphyry Copper-Molybdenum Project:</i> Seven diamond drillholes (SWT-31 through SWT-37) completed to test deep porphyry copper-molybdenum target. Assays indicated the presence of a low-grade porphyry Cu system, with approximately 0.2 % Cu intersected in drillholes 31, 32, 33, 36 and 37. The potential for Cu-skarn mineralization targets in the Paleozoic carbonates adjacent to the Diamond Gulch quartz monzonite porphyry was proposed during this period of exploration. |
| 1981-1984 | Drilling | Tintic Joint Venture | Drillhole SWT-30 was deepened from 601 m to 945 m, due to the surface exposure of a latite dyke similar to ones associated with higher grade copper mineralization at Safford, Arizona. Short assessment holes were drilled in 1980, 1981 and 1984. |
| 1981 | Drilling | Bear Creek Mining | Three drillholes (W-1, W-2 and W-3) completed. No details on the respective intended target(s) are of public knowledge. |
| 1982-1982 | Exploration | Anaconda | Treasure Hill area: evaluated leases for bonanza vein and stockwork potential. This and several other areas were proposed as hot springs environments based on mapping and sampling. Additional work was recommended. |
| 1982-1984 | Drilling | Exxon | Ten, shallow angled RC drillholes (E-1 through E-10) were collared on and near Treasure Hill. Drilling was based on mapping, geochemical sampling, and IP surveys and targeted shallow fissure veins and surrounding wall rock potential. |
| 1985 | Assaying | Diamond Bullion | Leached capping and chalcocite blanket zones of the SWT Porphyry were systematically re-assayed for gold and silver. Only low-grade assay results were returned. |
| 1987-1989 | Drilling/Exploration | Centurion/Western Mining | Majority of work was completed around the Mammoth Mine and areas to the north. Three drillholes were drilled in the extreme northern portion of the Southwest Tintic area, just north of the Dragon Pit to test shallow portions of the Au-Ag-Cu Dragon Fissure Vein and small, surface, gossanous pods. No significant assay results were returned. |

Table 6-3 (continued): Summary of Exploration Work Conducted Post 1943 and Prior to IVNE Acquiring the Tintic Project

| Years | Activities | Company | Description |
|-----------|---------------------------|--|---|
| 1991-1992 | Drilling/Surface Sampling | Centurion/Crown Resources | Trenching, soil sampling and drilling. Trenching and sampling were conducted on a broad east-west elongate section of altered volcanics, south of the Dragon Pit and north of Ruby Hollow. Trench 14 Area Au mineralization was tested. Soil surveys were completed in the same area and across a Landsat circular anomaly 6.5 km SSW of Horseshoe Hill. Drillhole TR-1 in the Trench 14 area was completed and contained persistent anomalous Au. Drillholes SB-1 through SB-3 were collared along the strike of the Sunbeam Mine Au-Ag fissure mineralization. Drillholes TH-1 through TH-3 were completed on Treasure Hill. Centurion intersected anomalous Cu mineralization in the bottom of the Dragon Pit along the projection of the Dragon Fissure Vein. |
| 1993-1994 | Drilling | Centurion/Kennecott | Nineteen diamond core and reverse circulation rotary drillholes (STR (rotary) and STD (core) 1 through 19) were completed under a joint venture on numerous target areas within the Southwest Tintic Project area. Only one hole, STR-6, targeted extensions of known hypogene Cu mineralization adjacent to the Diamond Gulch porphyry. This hole intersected the longest intercept of greater than 0.2 % Cu drilled to date and the hole was still in Cu mineralization at terminal depth. Three holes were drilled peripheral to Treasure Hill and a fourth hole on Treasure Hill (STR-19) intersected an enargite vein system in the footwall of the Republic-Little May (Treasure Hill) fissure zone. |
| 1994 | Drilling | Centurion | Centurion completed eight rotary drillholes during the program. Three holes (STR-16, 21 and 27) were drilled in the Dragon Pit and one (STR-17) was drilled along the Dragon Vein. Close spaced step out drilling (holes STR-23 through STR-25) from the enargite vein mineralization intersected in STR-19 and two holes (STR-20 and STR-26) along Ruby Gulch were completed. |
| 2008-2009 | Drilling | Anglo American/Chief Consolidated Mining | Big Hill Region: Four deep diamond drillholes were drilled on Spent Hansen claims, totaling 4,512.9 m targeting porphyry-style mineralization as hypothesized by Richard Sillitoe (2007) to underlie the lithocap on surface in the area. Results confirmed the presence of a potassic alteration zone with associated quartz-molybdenite-pyrite veining, but Cu concentrations were extremely low. Operators concluded that the results adequately disproved the presence of a large Cu mineralized body (i.e., > 5 Mt Cu) within 1,000 m of the present-day surface. |
| 2010 | Valuation | Centurion | Spent Hansen, a vendor of Patented Tintic Mining District claims, procured the services of SRK to evaluate the mineral inventory for the Gemini, Godiva, Homansville, Mammoth, Victoria and 109 other claims in the Tintic Main Mining District. SRK produced a technical report entitled "Hansen Mine Assets Independent Assessment". |
| 2011-2013 | Drilling | Kennecott/Chief Consolidated Mining | Three drillholes were pre-collared through the volcanic cover with RC drilling and completed with diamond core drilling recovery, totaling 5,525.45 m. No significant Cu mineralization was intersected. Minor anomalous Cu values were attributable to As-Bi associated epithermal veins interpreted to be distal to a porphyry system. |
| 2014 | Drilling | Kennecott/Chief Consolidated Mining | Three diamond drillholes totaling 2,689.55 m were completed, targeting porphyry-style mineralization under the Silver Pass lithocap and under the volcanic cover at Latite Ridge. All three drillholes failed to intersect significant Cu mineralization. |

Source: HPX (2020)

6.3 Historical Estimates

No historical Mineral Resource or Mineral Reserve estimates are disclosed in this Technical Report.

Although there have been many historical mineral inventory assessments across the Tintic Project (e.g., Morris and Lovering 1979; Centurion 1996; Krahulec and Briggs 2006; Elder and Gurr 2010), none of them utilized internationally recognized Mineral Resource and Reserve reporting standards. Since no detail of the estimation methods and parameters employed are available, Mr. Deiss is unable to comment on the reliability of the respective estimates, which is a NI 43-101 requirement should such estimates be disclosed.

6.4 Historical Production

Almost 70% of the historical bulk production can be attributed to the Tintic Main District in the form of CRD's and to a lesser extent from high grade quartz fissure veins. This production originated from Mammoth Consolidated Mines Inc., North Star Mines LLC, and the Gemini Mine LLC mining areas.

The U.S. Bureau of Mines documented production from the late 1890's through the 1930's to be 7.14 Mt (million metric tonnes), that produced 1.9 Moz Au, 136 Moz Ag and 105 kt Cu from 22 individual named deposits (Forster, Boyd and Ramirez, 2017). The top eight largest metal producers' production in the Tintic Main District's history is summarized in Table 6-4.

Table 6-4: Tintic Main District Top Eight Metal Producers

| Mine | Tonnes (kt) | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) |
|-------------------|--------------|------------|------------|-------------|-------------|
| Centennial Eureka | 1,415 | 14.4 | 514 | 2.55 | 0.64 |
| Mammoth | 1,179 | 9.7 | 349 | 1.42 | 1.39 |
| Grand Central | 653 | 9.4 | 486 | 1.35 | 1.14 |
| Bullion Beck | 601 | 3.8 | 833 | 2.38 | 10.48 |
| Iron Blossom | 553 | 4.9 | 1,417 | 0.65 | 5.87 |
| Eureka Hill | 419 | 6.2 | 1,025 | 1.32 | 5.48 |
| Gemini & Keystone | 403 | 0.4 | 805 | 0.23 | 12.14 |
| Victoria | 303 | 5.0 | 706 | 0.40 | 7.17 |
| Total | 5,526 | 8.5 | 671 | 1.58 | 4.02 |

Source: After Centurion Mines (1996 and 1997) and Forster, Boyd and Ramirez (2017)

IVNE has identified several CRD exploration potential areas in the Carisa Group fissures region, detailed in Section 9.6.2. The estimated historical production figures of mines within this high-priority prospective area are summarized in Table 6-5.

Table 6-5: Estimated Historical Production from Carisa Group Mines

| Mine | Tonnes (kt) | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) |
|-------------------|-------------|-----------|-----------|---------|---------|
| Carisa Mine | 65 | 5.5 | 286 | 5.83 | 0.56 |
| North Star Mine | 25 | 25.7 | 499 | Unknown | 2.66 |
| Northern Spy Mine | 15 | 42.2 | 1,291 | 1.06 | 2.82 |
| Red Rose Mine | Unknown | Unknown | 2,914 | Unknown | 40.00 |
| Boss Tweed Mine | Unknown | 2.5-175.9 | 411-2,057 | 21-30 | Unknown |

Source: After Centurion Mines (1996)

6.5 Mineral Processing and Metallurgical Testing

No contemporary metallurgical testing or mineral processing studies on mineralized material from the Tintic Main District are currently available to IVNE.

Limited information on mineral processing and metallurgical tests from mineralized material at the Burgin mine in the East Tintic subdistrict were reported in the 2011 NI 43-101 “Technical Report on the Burgin Extension Deposit - Preliminary Economic Assessment” by Tietz et al. (2011). This document reports operating records from the Burgin mine between 1968 - 1978 and are incomplete. However, “a 1975 report indicated recoveries in the Burgin mill ranged between 86 - 90% on clean sulfide mineralized material and down to 50% when the mineralization was interlocked with gangue or was [present as] oxide mineralized material” (Tietz et al., 2011). Tietz et al. (2011) also reported results from metallurgical test work on samples from the Burgin project that were performed by Dawson Metallurgical Laboratories in 1987, 1997 and 2001. The 1987 work consisted of flotation testing on a high-grade sulfide sample to produce lead and zinc concentrates, but the results of this study are not available. In 1997, seven-cycle locked-cycle testing on an equal-weight mixture of two composites produced recoveries of 90% for lead and 85% for silver in the lead concentrate and 51% for zinc in the zinc concentrate (Tietz et al., 2011). In 2001, Dawson reported 92% lead and 87% silver recovery in the lead concentrate and 60% zinc in the zinc concentrate from bulk-sulfide flotation concentrate cyanidation tests and stated that historical records indicate lead concentrate contains an average of 1.54 g/t Au (HPX, 2019).

In general, mineralized material from the Tintic District was divided into oxide mineralized material above the water table and sulfide mineralized material below. The oxide mineralized material from Tintic is reportedly amenable to contemporary cyanide heap leaching and other cyanidation processes, with high recoveries, rapid leach cycles and low cyanide consumption. This is evidenced by Magellan Resources Corporation’s heap leach operations, whereby over 800,000 tons of oxide gold-silver-copper mineralized material were recovered from the Eureka Hill, Mayday, Yankee, North Star, Centennial-Eureka and Mammoth mine dumps from 1988 to 1993 (Krahulec and Briggs, 2006; internal document: “Tintic District Executive Summary” - Centurion Mines Corporation).

With a joint venture partner, North Lily operated a small heap leach, located just west of Silver City, which sourced oxide mineralized material from dumps and spoil piles throughout the Tintic District. Operations at the heap leach started in 1989 and completed in 1995 (Table 6-6). The final report by North Lily in 1993 indicates that 30,121 ounces of gold equivalent (both gold and silver values combined) was recovered (source North Lily Operations Review and 1994 SEC filings [<http://edgar.secdatabase.com/838/92735695000103/filing-main.htm>]).

Table 6-6: Tintic Project Historical Heap Leach Production

| Production | 1989 | 1990 | 1991 | 1992 | 1993 |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Gold (oz) | 5,887 | 5,787 | 5,565 | | |
| Silver (oz) | 119,708 | 104,865 | 90,436 | | |
| Gold Equivalent | 7,728 | 7,097 | 6,570 | 6,579 | 737 |
| Silver Conversion | 65:1 | 80:1 | 90:1 | 90:1 | |

Source: North Lily (1994)

6.6 QP Opinion

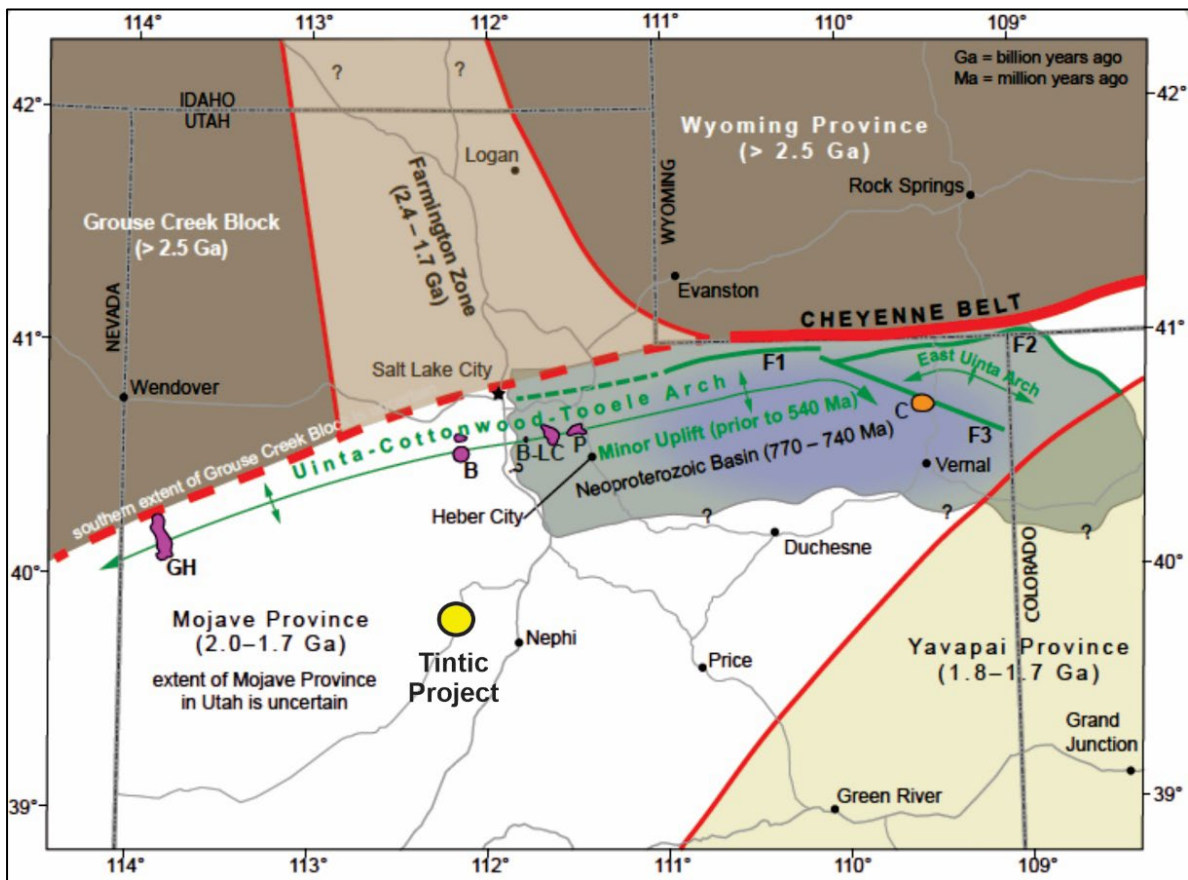
Mr. Deiss is of the opinion that basic commonalities can be reasonably inferred between the historical mining and processing described above and what IVNE could expect to encounter within its exploration potential areas. The reader is cautioned that the historical production figures in Table 6-4 and Table 6-5 vary between different sources and therefore should be considered as an indicative only. The historical drillhole location and assay data should be treated with caution, however, can be utilized for regional-scale modelling (Section 9). The historical mapping is of sufficient quality to be used to guide exploration program planning (Section 9.4).

7 Geological Setting and Mineralization

The information in this section has been synthesized and summarized from Krahulec and Briggs (2006), Parry (2006), Elder and Gurr (2010), Bonner (2020), and HPX (2020).

7.1 Regional Geology

North-central Utah lies on the east-west Cheyenne suture belt, where the Paleoproterozoic Yavapai and Mojave provinces to the south were welded to the Archean Wyoming province, Grouse Creek block, and Farmington zone to the north during a plate-tectonic collision event, the Yavapai orogeny, about 1.7 Ga (Karlstrom and Houston, 1984; Chamberlain et al., 1993; Karlstrom et al., 2005; Whitmeyer and Karlstrom, 2007) (Figure 7-1). The suture zone projects westward into the Great Basin and delineates a local contrast in crustal architecture (Dickinson, 2006). The suture zone is a fundamental control on deformation, plutonism, and metallogeny (Presnell, 1998). Precambrian strike-slip faults trend parallel (eastward) and oblique (northwest and north-northeast) to the suture zone (Jordan and Douglas, 1980) and have likely influenced fault architecture, sedimentation and plutonism ever since the assembly of the American continental lithosphere in the Paleoproterozoic (Bryant and Nichols, 1988; Paulsen and Marshak, 1999; Kloppenburg et al., 2010).



Source: Sprinkel (2018)

Figure 7-1: Paleoproterozoic Cheyenne Suture Zone in relation to Uinta-Cottonwood Arch and Bingham-Park City Mineral Belt Mining Districts (Purple; B = Bingham Mine)

Shortly after the formation of the Cheyenne suture belt, about 1,550 Ma, Rodinia began to break apart along a north-trending rift through central Nevada. Rifting culminated in early Phanerozoic around 770 Ma (Stewart, 1976; Sears et al., 1982; Armin and Mayer, 1983; Bond et al., 1984, 1985; Sprinkel, 2018) during which time a failed arm of the rift, the Late Proterozoic Uinta aulacogen, or Uinta trough (Sears et al., 1982; Bruhn et al., 1986; Sprinkel, 2018), collected more than 5 km of sandstone and shale, forming the Uinta Mountain Group. After the rift failed, the Uinta trough started inverting around 550 Ma and slightly uplifted and folded the Uinta Mountain Group into the initial Uinta arch, the Uinta-Cottonwood-Tooele Arch (Sprinkel, 2018). The structural weakness born out of the failed rift has since influenced geologic evolution of northeastern Utah, influencing fault architecture and magmatic activity from the Paleozoic through to the Cenozoic (Sprinkel, 2018).

Throughout the Paleozoic and early Mesozoic, Utah lay on a passive continental margin. The Wasatch hinge line of Kay (1951) marks the approximate break in slope between continental sedimentation to the east and thicker, marine, miogeoclinal sedimentation to the west (Stokes, 1988; Hintze and Kowallis, 2009). In the Mesozoic, the North American plate collided with the Farallon plate leading to subduction and an eastward migration of compressional deformation, the Sevier fold-thrust belt (Wood et al., 2015). The Cretaceous Sevier orogeny lasted from ~140 to 55 Ma (DeCelles and Coogan, 2006), during which time the eastern Great Basin was extensively deformed by broad north-northwesterly trending asymmetrical folds, and a series of large eastward-verging thrust faults and related northeast trending high-angle, strike-slip and tear faults (Morris, 1968; Porter et al., 2012) (Figure 7-2).

The Laramide orogeny (80-40 Ma) saw the subducting slab flatten and subduction rate accelerate eastward, generating a series of uplifts and sedimentary basins in eastern Utah, while undergoing northeast-southwest compression. During this time, increased volcanism eastward led to the emplacement of mineral deposits from Idaho to Arizona (Hildenbrand et al., 2000). Orogenic collapse from ~49 to 20 Ma (Kloppenburg et al., 2010) began when the plate convergence rate slowed, and the subducting slab steepened and started to roll back. Crustal delamination and decompression melting initiated regional extension from middle Eocene to early Miocene (Constenius, 1996), manifested by extensional strike-slip faults in the Miocene which were exploited to form epithermal deposits.

Cook (1969) identifies three east-west transverse structural lineaments from gravity data in the eastern Basin and Range province that correspond with three well-known east-west mineral belts in Utah. Rowley (1998) and Rowley and Dixon (2001) suggest the importance of these east-west transverse zones for localizing magmatism and mineral belts in the eastern Great Basin. Calc-alkaline, subduction-related magmatism migrated southward throughout the Eocene – early Oligocene. East-west igneous belts in the eastern Great Basin young to the south from the ‘Bingham-Park City’ mineral belt (40 – 33 Ma) to the slightly younger ‘Deep Creek-Tintic’ mineral belt, and further south still to the Wah Wah-Tushar mineral belt ranging from 32 to 14 Ma (Best et al., 1989; Rowley et al., 2005).

The ‘Deep Creek-Tintic’ mineral belt (Shawe and Stewart 1976; Stewart et al. 1977b) is an east trending zone of basement highs marked by Cenozoic calderas and associated metal endowment (Lindsey, 1982; Christiansen et al., 1986) all along the belt (Figure 7-3). The East Tintic Mountains, where the belt terminates, host the Tintic Mining District, the second biggest mining district in Utah after the Bingham District, located ~65 km north of Tintic. The Bingham stock lies approximately at the intersection of the Wasatch hinge line and the ‘Bingham-Park City’ mineral belt, coinciding with the Cheyenne suture zone and the Uinta arch, concentrating tectonic and igneous activity (Stokes, 1976).

The Tintic District lies at the eastern margin of the ‘Deep Creek-Tintic’ mineral belt where it terminates against two or more N-S trending range front faults, inferred from Cook and Berg (1961) and Mabey and Morris (1967) gravity surveys. Metallic minerals at Tintic and Bingham are hosted along northeast, steeply dipping, thrust faults, related to the Sevier orogeny. Intrusions along the Uinta arch in the Wasatch intrusive belt are high potassium calc-alkaline and metaluminous I-type granitoids (Hansen, 1995; Vogel et al., 1997; Porter et al., 2012; Zhang and Audetat, 2017) similar to the igneous intrusions at Tintic (Morris and Lovering, 1979; Armstrong, 1969; Krahulec and Briggs, 2006; Johnson and Christiansen, 2016). Eocene to early Oligocene intrusions were emplaced in an extensional stress regime with NW-SE least principal stress (Presnell, 1998; Kloppenburg et al., 2010; Porter et al., 2012).

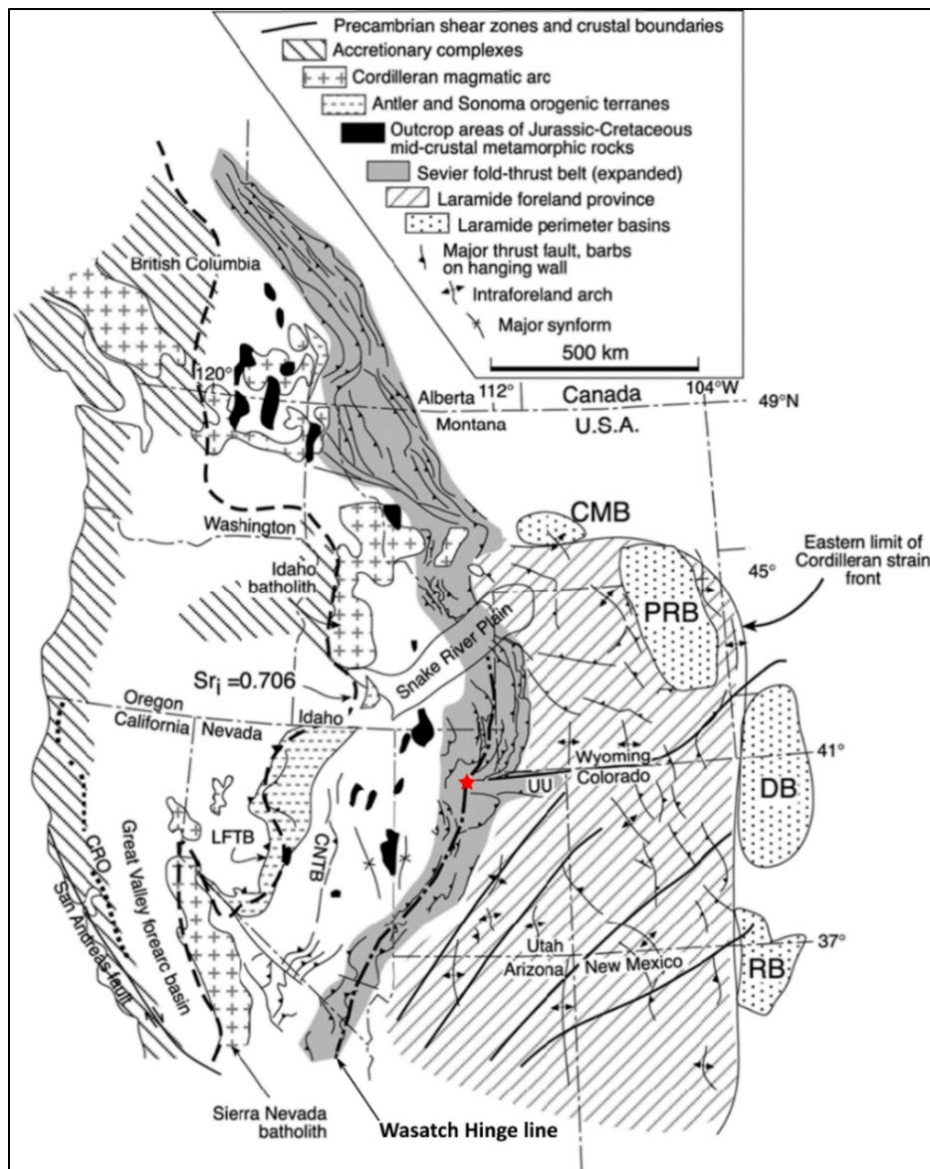
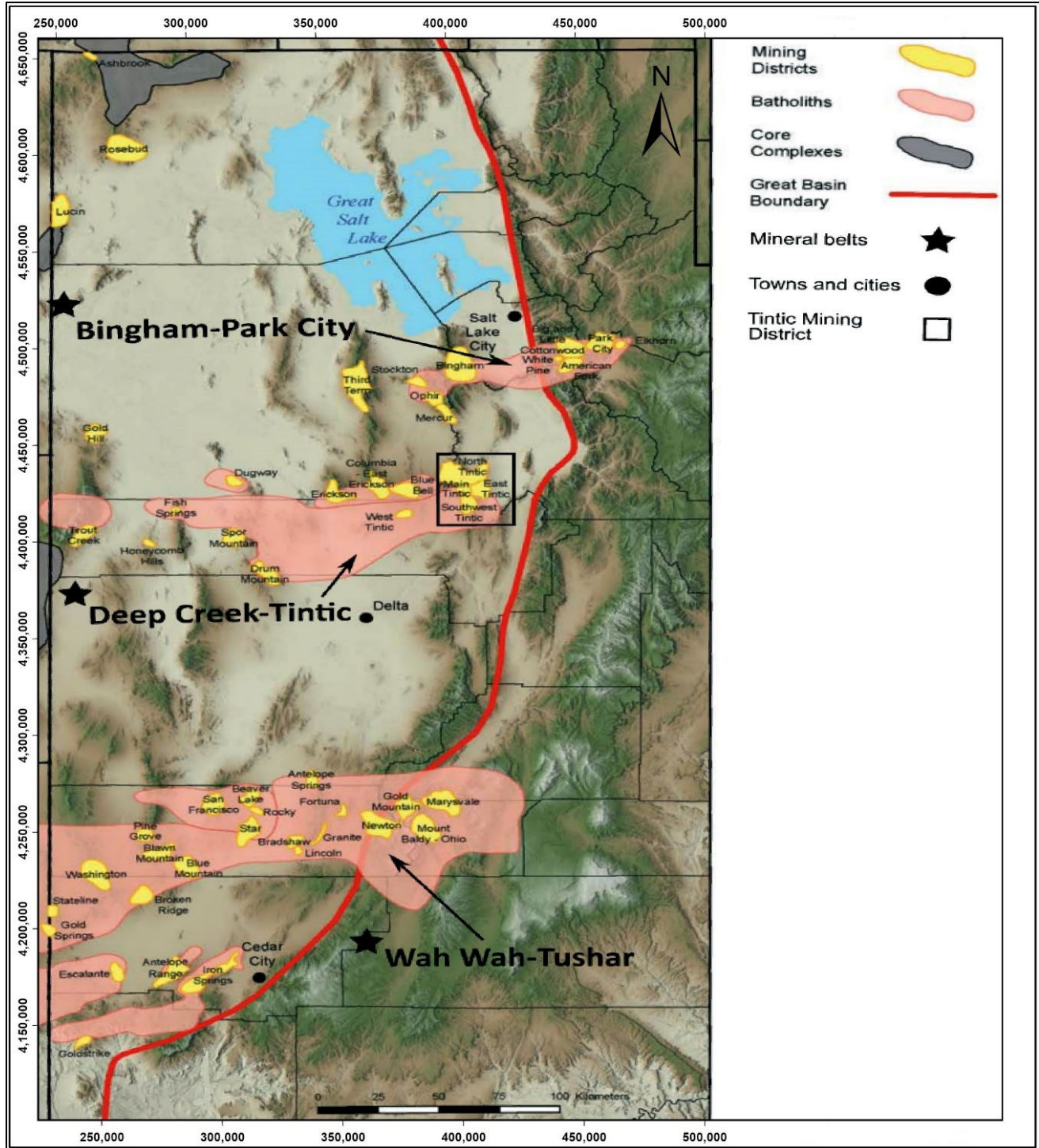


Figure 7-2: Extent of the Sevier Fold-Thrust Belt (Sevier orogenic belt) and the Laramide Foreland Province in relation to the Western United States and Canadian Provinces (modified from Wood et al., 2015). Wasatch Hinge Line and Precambrian Shear Zones and Crustal Boundaries are also shown in relation to the Sevier Fold-Thrust Belt and the Tintic Mining District Location Marked by the Red Star



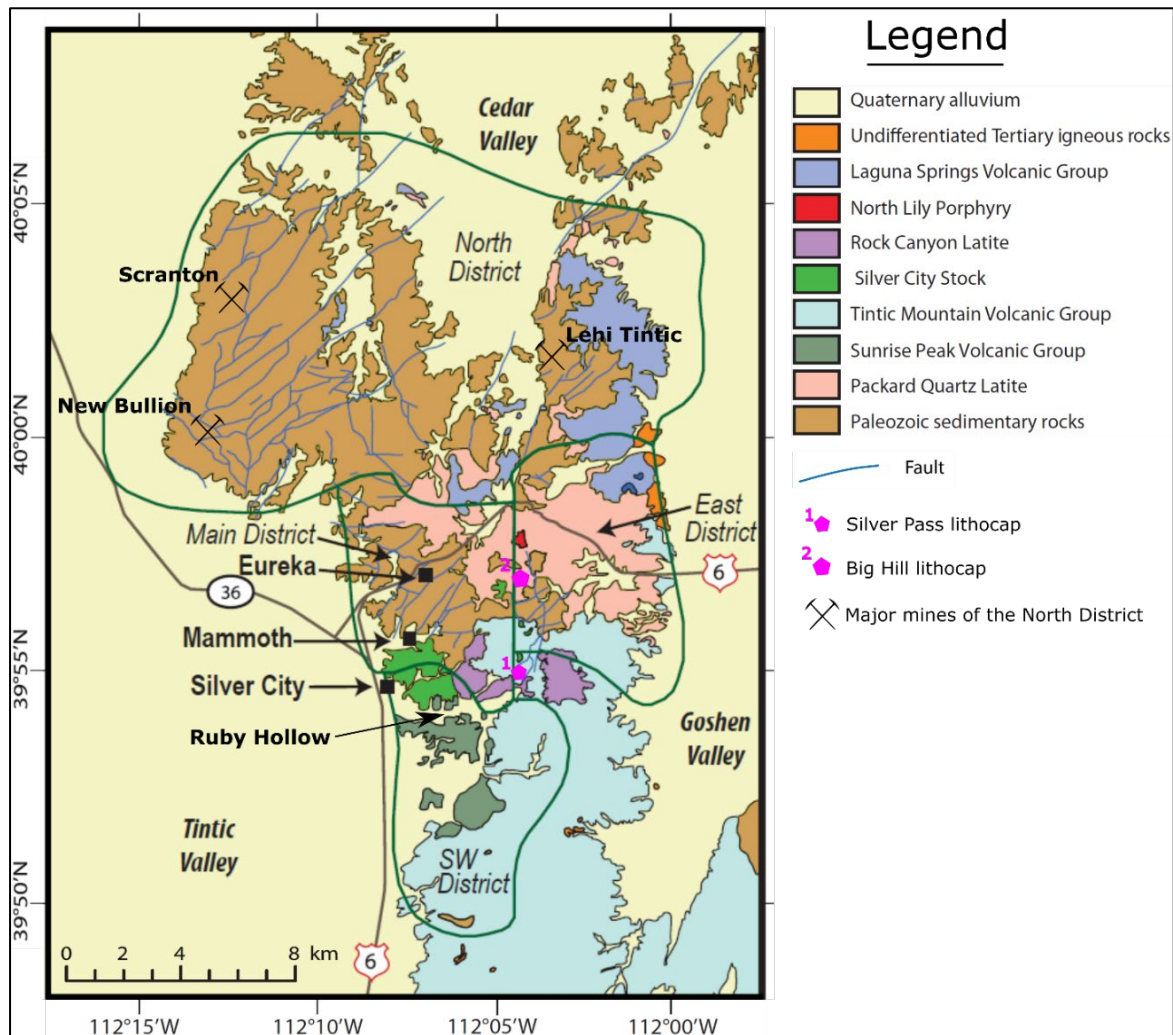
Source: modified from Krahulec (2015) and from Doelling and Tooker (1983)

Figure 7-3: Tertiary Intrusive-Related Mining Districts and Mineral Belts of the Eastern Great Basin

Basin and Range extension began around 18 Ma, forming high-angle normal faults which resulted in block tilt and the present Basin and Range topography (Morris, 1968). Fluid inclusion studies from plutons in the Wasatch Mountains by John (1989) indicate a 15-20° eastward tilt of the range and paleomagnetic data from the Oquirrh Mountains are consistent with an 11° eastward tilt related to the Basin and Range (Melker and Geissman, 1997). The East Tintic Mountains were uplifted and rotated 10-20° E (Morris and Lovering, 1979), similar to the Oquirrh Mountains.

7.2 Local Geology

The Tintic Mining District has been broadly divided into four sub-districts: North, East, Main and Southwest (Figure 7-4). The following describes the stratigraphy, structure, volcanism, mineralized deposit types and zoning patterns, including mineralization and alteration, observed in the four sub-districts, and summarizes the effects of Basin and Range extension on the Tintic Mining District.



Source: modified from Johnson and Christiansen (2016)

Figure 7-4: Simplified Geology and Structures of the Tintic Mining District

Note: Four sub-districts are outlined in green and East District lithocaps are shown in pink. Major mines of the North District are shown as well as towns and valleys. The Ruby Hollow Valley, separating the Silver City Intrusive Complex to the north and Sunrise Peak Volcanic Group to the south is also shown.

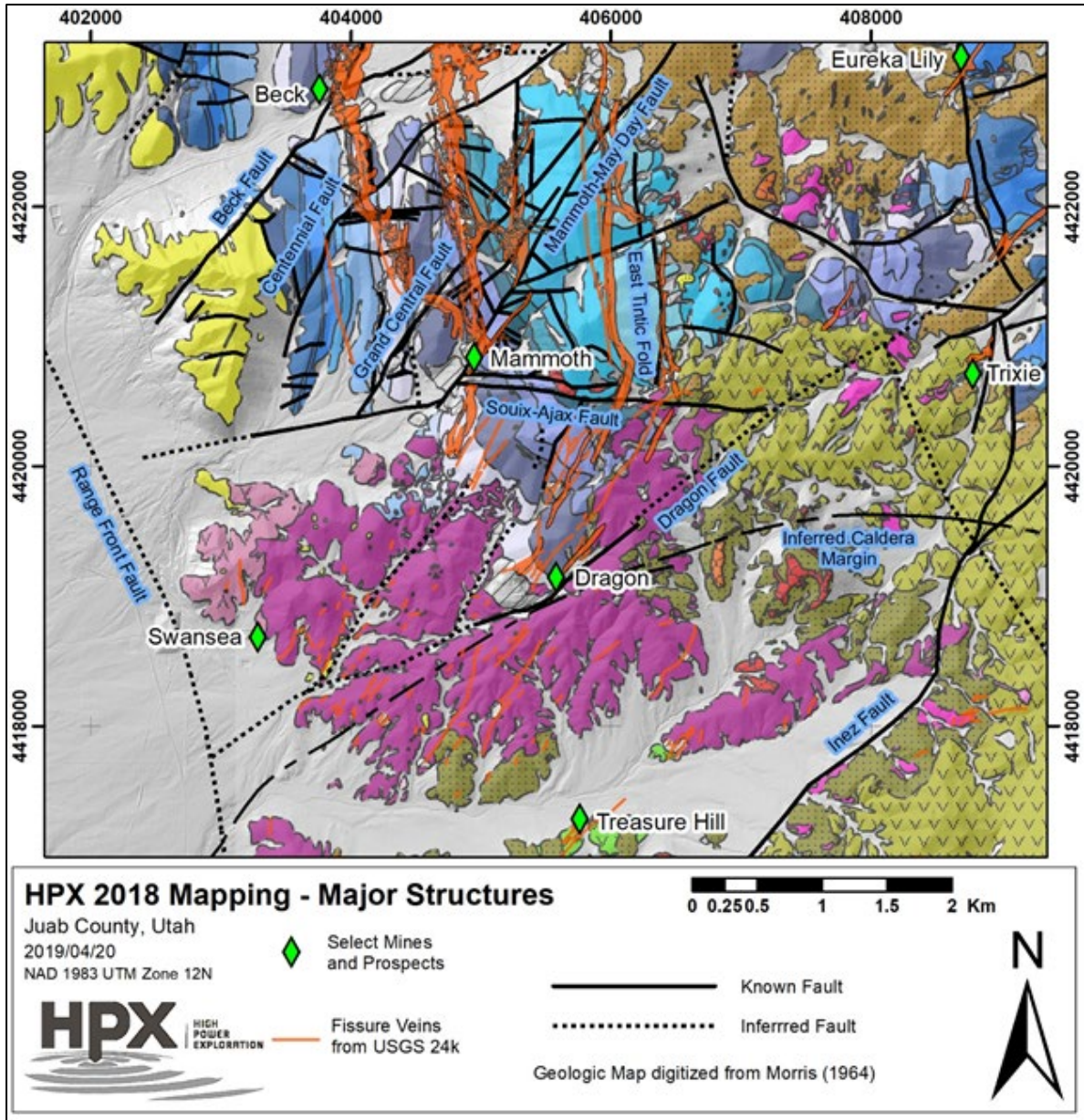
7.2.1 Stratigraphy and Structure

The East Tintic Mountains are underlain by a basement sequence of more than ~800 m of phyllic slate, quartzite and dolomite from the Neoproterozoic Big Cottonwood Formation (Johnson and Christiansen 2016), outcropping along the axis of the North Tintic anticline. A sequence of more than ~3,700 m of Paleozoic (ranging from Cambrian to Mississippian periods) carbonate and clastic sedimentary strata lies unconformably on top (Morris, 1964; Morris, 1968; Morris and Lovering, 1979; Krahulec and Briggs, 2006). This sequence is characterized by a thick basal Cambrian Tintic Quartzite, succeeded by a thick sequence of dominantly limestone and dolomite.

During the Sevier orogeny, from Late Jurassic to Late Cretaceous, the East Tintic Mountains were uplifted and deformed in a series of north-trending, north-plunging asymmetrical folds cut by coeval thrust faults, high-angle strike-slip and tear faults (Morris, 1964; Morris, 1968; Armstrong, 1969; Krahulec and Briggs, 2006). Three major folds deform the Neoproterozoic and Paleozoic sequence in the Tintic District. The Tintic syncline, adjacent and parallel to the Iron Blossom 'Ore Run' in the Main and East Districts, is a major structure at Tintic. Its fold axis dips 17° N and consists of a west limb dipping 75° E and an east limb dipping 30° W (Morris, 1964; Morris, 1968).

None of the major thrust faults are exposed in the Main District (Armstrong, 1969), however strike-slip faults form a conjugate system of northeast-northwest trending fractures that cut the fold axis at 25-55° angles (Morris, 1964). These shear faults dip steeply southeast or southwest and seldom dip northwest or northeast. Northeast trending shear faults are generally more through-going and are important structures for localizing mineralization (Morris, 1964; Armstrong, 1969).

During the orogenic collapse, pre-volcanism, the East Tintic Mountains were again cut by normal faults, including Sioux-Ajax and Eureka-Lily (Morris, 1964). These early extensional faults serve to localize mineralized bodies where they are crossed by north-northeast tear faults or epithermal fissure veins (Armstrong, 1969) (Figure 7-5). Northeast trending mineralized faults and "fissures" are believed to be related to volcanism (Morris, 1964; Armstrong, 1969), however, these are most likely tear faults related to the Sevier orogeny.



Source: HPX (2020)

Figure 7-5: Major Structures in the Tintic District in the Region of the IVNE Tintic Property. Mapped Structures are Overlain on the USGS 24k Geological Map. Fissure Veins and Historically Mined 'Ore Runs' are shown in Orange

7.2.2 Volcanism

In the Tintic Mining District, the Paleozoic sequence is unconformably overlain by a thin erosional section of Eocene to early Oligocene conglomerate, which is succeeded by up to 1,525 m of early Oligocene andesitic, latitic and quartz latite lavas, tuffs, and agglomerates (Krahulec and Briggs, 2006). These potassic, calc-alkaline igneous lithologies are remnants of a large, deeply eroded, inferred caldera complex of early Oligocene age, centered several miles south of the Tintic District, in the central portion of the East Tintic Mountain range (Armstrong, 1969; Morris, 1975; Hannah and Macbeth, 1990; Krahulec and Briggs, 2006). The collapsed caldera complex formed a composite volcano (Moore, 1993) composed of a sequence of quartz-biotite crystal tuff, andesitic to latitic flows, sills, and agglomerates, latitic air-fall tuff, and tuffaceous sediments (Krahulec and Briggs, 2006).

The basal volcanic sequence is intruded by the Sunrise Peak and Silver City intrusive complex and associated plugs, sills and dikes, along the proposed caldera rim (Armstrong, 1969; Morris, 1975; Hannah and Macbeth, 1990; Krahulec and Briggs, 2006). They are dated at ~34.7 Ma (Moore, 1993) and ~33.6 Ma (Keith et al., 1991), respectively. These stocks are potassic, calc-alkaline monzonites and monzonite porphyries (Johnson and Christiansen, 2016). The Diamond Gulch quartz monzonite porphyry is the youngest intrusive event and the mineralizer in the Southwest District porphyry copper system (SWT porphyry), dated at 31.55 Ma by Hannah and Stein (1995). Post-mineralization cover amounts to early Miocene semi-indurated conglomerates and middle Miocene quartz latite flows along the eastern flank of the range (Hannah and Macbeth, 1990).

7.2.3 Sub-Districts and Mineral Deposits

The Tintic Mining District lies on the eastern end of the 'Deep Creek-Tintic' mineral belt and the mineralization is coeval with or succeeds emplacement of the Silver City intrusive complex (Morris, 1964; Krahulec and Briggs, 2006). North-northeast trending shear and tear faults of the Sevier orogeny appear to be channels for intrusions and related hydrothermal, mineralizing aqueous fluids in the Tintic District (Morris, 1964). The mineralization occurs as porphyry-, vein-, and carbonate replacement-type deposits. Vein-type deposits are widest and longest in intrusive phases and tend to form groups of short, sub-parallel veins or disappear entirely in the extrusive volcanic rocks just 50 to 100 m away from the stock (Morris, 1964). Mineralized deposit type, mineralogy and alteration varies by sub-district and their distribution suggests there is more than one feeder zone for the Tintic District (Figure 7-6).

The Main District is characterized by carbonate-hosted Pb-Zn-Ag replacement deposits and Cu-Au rich epithermal 'fissure vein' deposits (Krahulec and Briggs, 2006). Veins in the Main District appear to culminate in replacement deposits to the north, occurring dominantly in hydrothermally dolomitized limestone and consisting of columnar and pod-like bodies connected by pipe-like, tabular and irregular masses, forming continuous 'ore runs' (Morris, 1964). Cross-faults and abrupt changes in bedding orientation are important structures to localize the columnar bodies, and concentrate mineralization, as is the case at the high-grade Mammoth pipe located north of the Silver City intrusive complex (Morris, 1964; Krahulec and Briggs, 2006; Johnson and Christiansen, 2016).

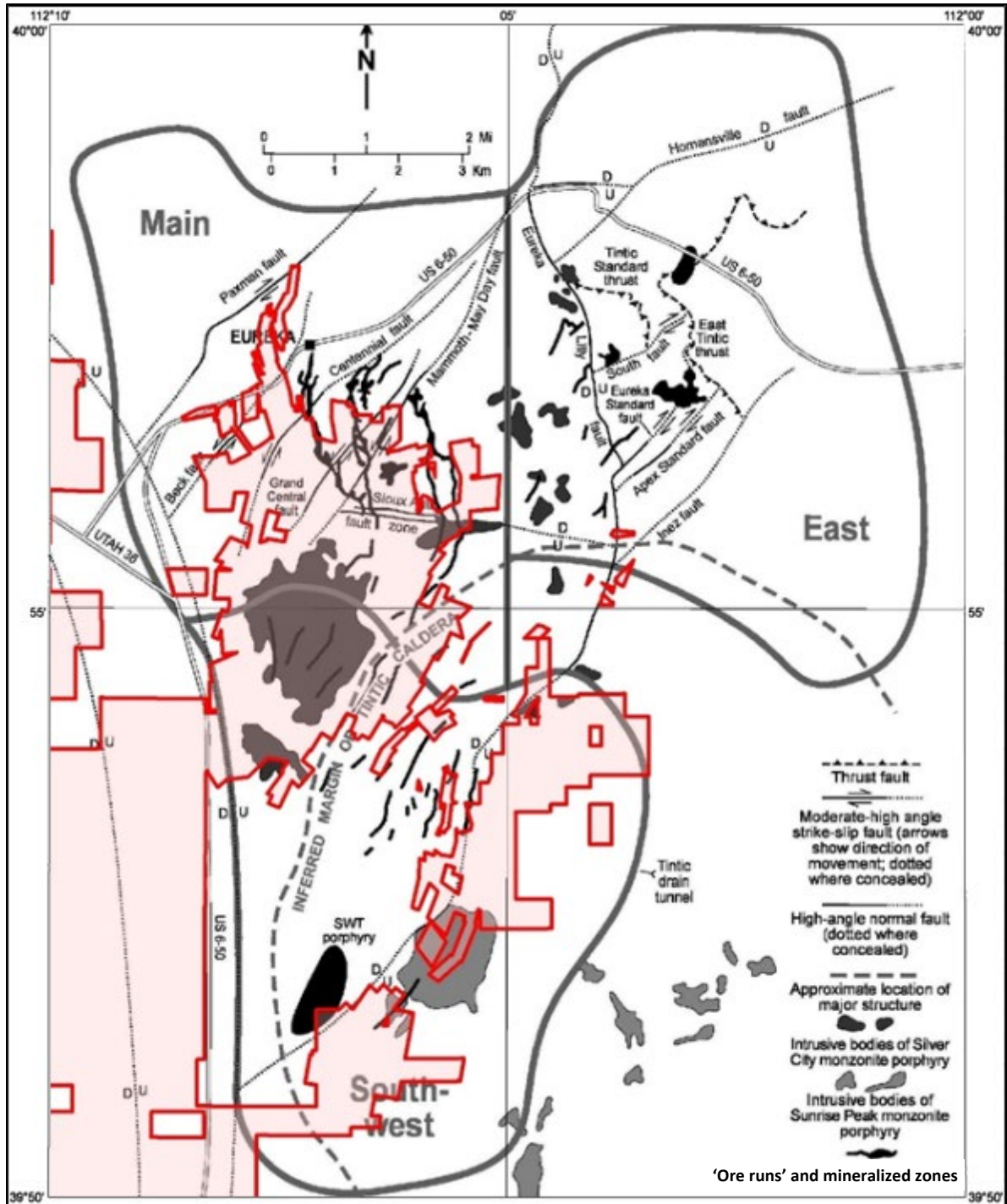
The Main District has produced the most out of the four sub-districts, with ~12.9 Mt of mineralized material chiefly from five replacement deposits; the Gemini, Mammoth-Chief, Plutus, Godiva, and Iron Blossom 'Ore Runs' (Tower and Smith, 1987; Krahulec and Briggs, 2006). These deposits mainly lie within the Tintic Syncline at the intersection of north-easterly trending faults and favorable carbonate strata (Morris, 1964; Krahulec and Briggs, 2006). Cu-Au rich epithermal fissure veins of the Main District lie proximal, hosted within dolomites and limestones (Krahulec and Briggs, 2006) or within the late Eocene Silver City intrusive complex (Lindgren et al., 1919; Tower and Smith, 1987; Krahulec and Briggs, 2006).

The East District mineralization is hosted in similar but more complex intersections in Paleozoic strata, under a thin veneer of Tertiary volcanic rocks (Brannon, 1982). Most of the past mineral production from both Main and East sub-districts is localized near or north of a concealed Jurassic tear fault approximately coinciding with the Inez Fault in the East District and the northwest caldera rim (Krahulec and Briggs, 2006). The Burgin mine is representative of Pb-Zn-Ag replacement deposits, while the Trixie mine represents Cu-Au 'fissure veins', breccias and replacement bodies found in the East District (Krahulec and Briggs, 2006). The hypothesized porphyry centers (Big Hill and Silver Pass lithocaps) of the East District have been tested by Anglo American and Kennecott without success to date.

While the East District is likely sourced from a separate feeder zone than the Main District, the North District mineralized deposits appear to have been sourced by the same feeder zone as the Main District, based on metal zonation. The North District has historically produced the least out of the four sub-districts, being characterized by oxidized Pb-Zn-Ag rich CRD's including the Scranton mine, New Bullion and Lehi Tintic properties. These deposits, however, contain on average the highest-grade zinc mineralized material of the Tintic District (Krahulec and Briggs, 2006). Yet, it is not clear if these are distal to other sub-districts, or if they are sourced from a separate igneous center (Armstrong, 1969). The fact remains, however, that virtually no copper or gold was produced from these mines.

7.2.4 Basin and Range

Post-volcanism basin and range extension, and related high-angle normal faults, resulted in the current block-faulted East Tintic Mountain range. North-trending normal faults of the Basin and Range, like the southern Diamond fault aligned with the Eureka Lily fault are the youngest structures in the Tintic mining district (Morris, 1964). The East Tintic Mountains were uplifted and rotated 10-20° E during the Basin and Range extension (Morris and Lovering, 1979). The range is inferred to be bounded by two or more north-northwest range front faults, which helped accommodate the modest block tilt (Cook and Berg, 1961; Mabey and Morris, 1967).



Source: modified from Krahulec and Briggs (2006)

Figure 7-6: Simplified Structural Map of the Main, East and Southwest Tintic Sub-Districts (outlined in grey) showing the IVNE Tintic Property Boundary (red)

7.3 Property Geology

IVNE interests in the Tintic District are focused on the southern portion of the Main District where Paleozoic sedimentary rocks and late Eocene – Oligocene volcanic rocks are intruded by the Silver City intrusive complex. Over 2,000 m of Paleozoic stratigraphy is exposed at the property ranging from the early Cambrian Tintic Quartzite at the western flank through the Mississippian Humbug Formation on the east. The rocks above the Tintic Quartzite are predominantly comprised of limestone and dolomite with a few units that have a greater siliciclastic component. Thin-skinned thrusting during the Sevier orogeny resulted in a complex pattern of faults and folds in the Paleozoic stratigraphy dominated by the east-west Sioux-Ajax fault through Mammoth and a large, east-verging asymmetric anticline-syncline pair that is cut by northeast trending faults. The thrust faults that underly this folding have been identified in mines in the East Tintic District and locally at surface when not covered by later volcanic rocks. North of the Sioux-Ajax fault, the 'ore runs' of the Main District occur as sub-horizontal bodies connected by chimneys or pipes where crossed by faults in the shared subvertical limb of the anticline-syncline pair and along the axis of the Tintic syncline at the eastern margin. Exposure of Paleozoic rocks south of the Sioux-Ajax fault is limited to a <2 km² area between the Silver City intrusive complex to the southwest and overlying volcanic rocks to the southeast; it does not show the magnitude of folding found to the north of the fault. Instead, the beds here dip moderately to the northeast and are cut by steep reverse faults referred to as fissures when mineralized which continue south to the contact with the intrusion. These fissures and the subvertical chimneys and pipes tend to be more Cu-Au rich than the sub-horizontal Ag-Pb-Zn rich 'ore runs' north of the fault. Where these fissures intersect the contact with the Silver City intrusive complex, deposits of massive Fe-oxide and halloysite occur such as the Dragon Mine.

Late Eocene-Oligocene volcanic and intrusive activity followed the deformation of the Paleozoic stratigraphy and established the hydrothermal system which formed the deposits of the Tintic District and hosts typically more pyritic Cu-Au rich fissure veins. The volcanic phases generally predate the intrusions observed at surface. The oldest volcanic rocks are the ~35.2-35.3 Ma Packard Quartz Rhyolite ("PQR") and Swansea Quartz Rhyolite ("SQR") which are nearly identical in composition and likely related to each other. A series of recessive rhyolitic dikes are also present on the ridges around Mammoth Valley and periodically encountered in underground mines which are probably related to these units. The next oldest volcanic series encountered in the mapping area are the ~34.7 Ma alkalic Sunrise Peak latite tuffs ("SPV") and volcanoclastics that are typically encountered at low elevations to the south around Ruby Hollow and Treasure Hill and as xenoliths within the Silver City intrusive complex. This unit is the primary host rock of the SWT porphyry ~4km to the south. Overlying these sediments in the northeast corner of the mapping area, east of the Iron Blossom #3 shaft, are alkalic lapilli ash-flow tuffs and volcanic breccias related to the Latite Ridge Latite ("LRL"). These volcanic rocks are not common in the Project area but do occur along portions of the eastern property boundary. Stratigraphically above the LRL units are the ~33.7 Ma high-K calc-alkaline to weakly alkalic lavas of Rock Canyon Latite ("RCL") that cover much of the southeast part of the mapping area. Lastly, the smaller volume alkalic Ruby Hollow Latite ("RHL") biotite ash-flow tuff, airfall tuff, and associated surge deposits cap nearly all ridges in the central to eastern extents of the mapping area representing the final episode of late Eocene-Oligocene alkalic volcanism in the region. Phyllic alteration in the volcanic units is usually more widespread and intense around the causative quartz-pyrite-sericite fissure veins than within the neighboring intrusive rocks, which reflects the relative ease these rocks are hydrothermally altered. This is particularly the case for the Ruby Hollow Latite. Potassic and propylitic

alteration overprints have been identified locally as well, though the destructive nature of the later phyllic alteration often obscures these alteration products.

Several small intrusions were emplaced into this volcanic package and the Paleozoic stratigraphy across the southern Main district and western East district. By far the largest intrusion is the Silver City intrusive complex that makes up the southern half of the IVNE property and hosts several of the porphyry exploration potential areas. Detailed mapping revealed a complex intrusive history in the Silver City including at least seven separate intrusive phases related to, or post-dating, the emplacement of the Silver City intrusive complex at ~33.0 Ma based on U-Pb age dating completed by IVNE. Two main phases make up the majority of the intrusive complex, an early medium- to coarse-grained equigranular phase (“SCMDe”) and a medium-grained weakly porphyritic phase (“SCMDp”). A slightly more leucocratic quartz-bearing and compositionally distinct weakly porphyritic lobe of quartz monzonite (SCQM) occurs between Murray Hill and Rabbits Foot Ridge as well. All phases of the Silver City intrusive complex contain miarolitic cavities with epidote and actinolite that often have albitic halos. Xenoliths of quartzite are particularly common in the SCMDe phase and can occur up to 150 m across. Other xenoliths include hornfelsed volcanic rocks throughout the intrusive complex and skarn altered carbonates near the contact with the Paleozoic stratigraphy along the northeastern boundary (Figure 7-7). SCMDe and SCMDp units both have widespread weak sodic-calcic alteration though SCMDp hosts the majority of the actinolite ± magnetite veining observed. Fissure veins of quartz-pyrite-sericite cut across these units with relatively narrow alteration halos ~3-15 m across.

The oldest mapped porphyritic intrusive phase is the Crowded Granodiorite Porphyry (CGP) which is older and slightly more differentiated than the SCQM. It can be distinguished from other porphyry phases readily based on texture, grain size, and the abundance of pyroxene (5-8 vol.%) with only subordinate amphibole much like the main phases of the Silver City intrusive complex. It occurs as an irregular stock to the southwest of the Dragon Mine near Sunbeam, and on either side of Rabbit’s Foot Ridge where it has been crosscut by younger porphyritic intrusions. The CGP is a much more noticeably porphyritic rock than either SCMDp or SCQM phases of the Silver City intrusive complex and can vary from medium- to coarse-grained phenocrysts or glomerocrysts, often making it difficult to distinguish from some of the nearby volcanic stratigraphy when affected by phyllic alteration and Fe-oxide staining. Intruding CGP at Rabbit’s Foot Ridge and the top of Murray Hill is the much more porphyritic Rabbit’s Foot Ridge Monzonite Porphyry (RFRM) (Figure 7-8a). They have similar compositions to each other, and modally contain minor biotite > amphibole ≥ clinopyroxene. These porphyries characteristically have a coarse sugary aplitic groundmass (0.1 – 0.3 mm) owing to their larger volume and probably depth of erosion in the vicinity of Murray Hill. They are commonly weakly propylitic-altered – and sometimes are cut by early quartz and magnetite veinlets. A largely dissociated series of plugs and dikes occurs to the northwest of the Dragon Mine in Skarn Valley as the Monzodiorite Porphyry (MDP). It is intermixed with smaller dikes of SCMD intruding into the Paleozoic stratigraphy, thus creating a complex mix of lithologies and associated metasomatic alteration. The MDP is the primary unit in which endoskarn has been identified, often with large domains comprised of anorthite and garnet developed through much of the area. Both the MDP and SCMD result in minor skarn development in the carbonate rocks they intrude, but the resulting alteration seems to be more intense around the MDP dikes and only up to a few meters thick around the SCMD intrusions.

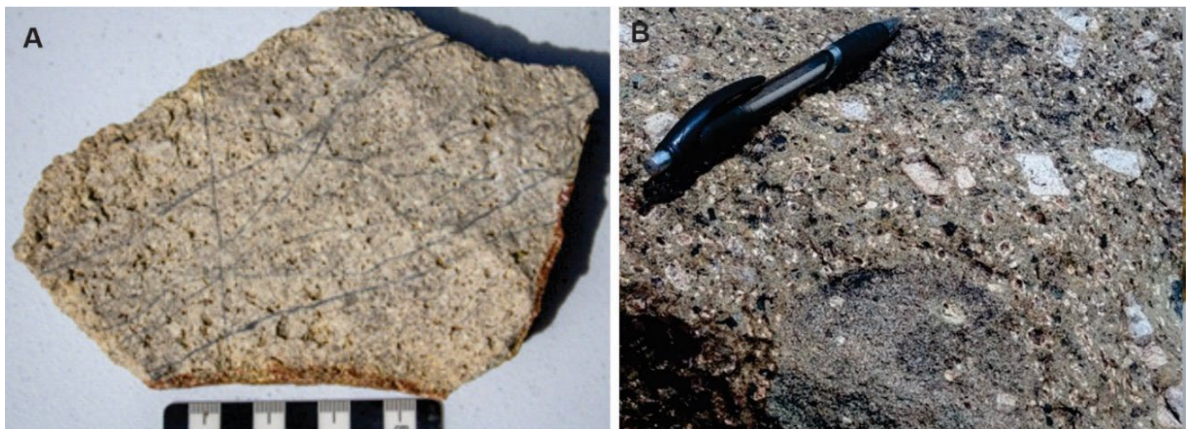
The remainder of the porphyritic phases are volumetrically subordinate with fine aplitic groundmasses owing to their smaller size and likely deeper source of origin than the other intrusive phases. The oldest of these are diorite and granodiorite porphyry dikes grouped as the Sunbeam Granodiorite Porphyry (SGDP) followed by the Murray Hill Quartz Granodiorite Porphyry (MHP), the Sunbeam Granite Porphyry (SGP), and the Megacrystic Quartz Monzonite Porphyry (QMP) (Figure 7-8b). The SGDP, MHP, and SGP dikes are primarily distinguished based on phenocryst abundance though they are otherwise texturally and mineralogically similar. SGDP and SGP dikes are associated with the potassic alteration and quartz veining observed in the Sunbeam-Joe Daly area and are thought to be the causative intrusions for this alteration in that area. QMP is the youngest phase and is easily distinguished with megacrystic K-feldspar and quartz eyes and typically occurs as small plugs 10 – 100 m across. The QMP crosscuts all the other units and is not typically altered or veined at surface, although in one locality 500 m south of Sunbeam it is cut by quartz-pyrite-sericite veins and phyllic alteration which suggests that it is at least overprinted by some late-stage hydrothermal alteration. The QMP dikes have been dated at ~32.1 and ~32.7 Ma and provide rough constraints on the age of veining in the district.

A paragenetic diagram showing all non-carbonate rock types and lithology codes for the Tintic Project and relative ages of some rock types is shown in Figure 7-9. Figure 7-10 illustrates the Project area stratigraphic column and associated lithology codes used in geologic mapping. Figure 7-11 shows the 1:2,500 scale geological map of the Project as created by IVNE.



Source: HPX (2020)

Figure 7-7: Drill Core Samples from Hole DDH2012-02 (completed by Applied Minerals) of (A) Intense Carbonate-Quartz Veining at 175 m Downhole Depth and (B) Pyroxene Skarn at 370 m Downhole Depth



Source: HPX (2020)

Figure 7-8: Surface Samples of (A) Sheeted A-Type Quartz Veining from the Rabbit's Foot Ridge Porphyry Exploration Potential Area with Potassic Alteration and Sulfides within Veins and (B) Field Photo of a Quartz-Monzonite Porphyry Outcrop with Pen for Scale. The Xenolith in the Lower Center has a Similar Composition and may be an Autolith

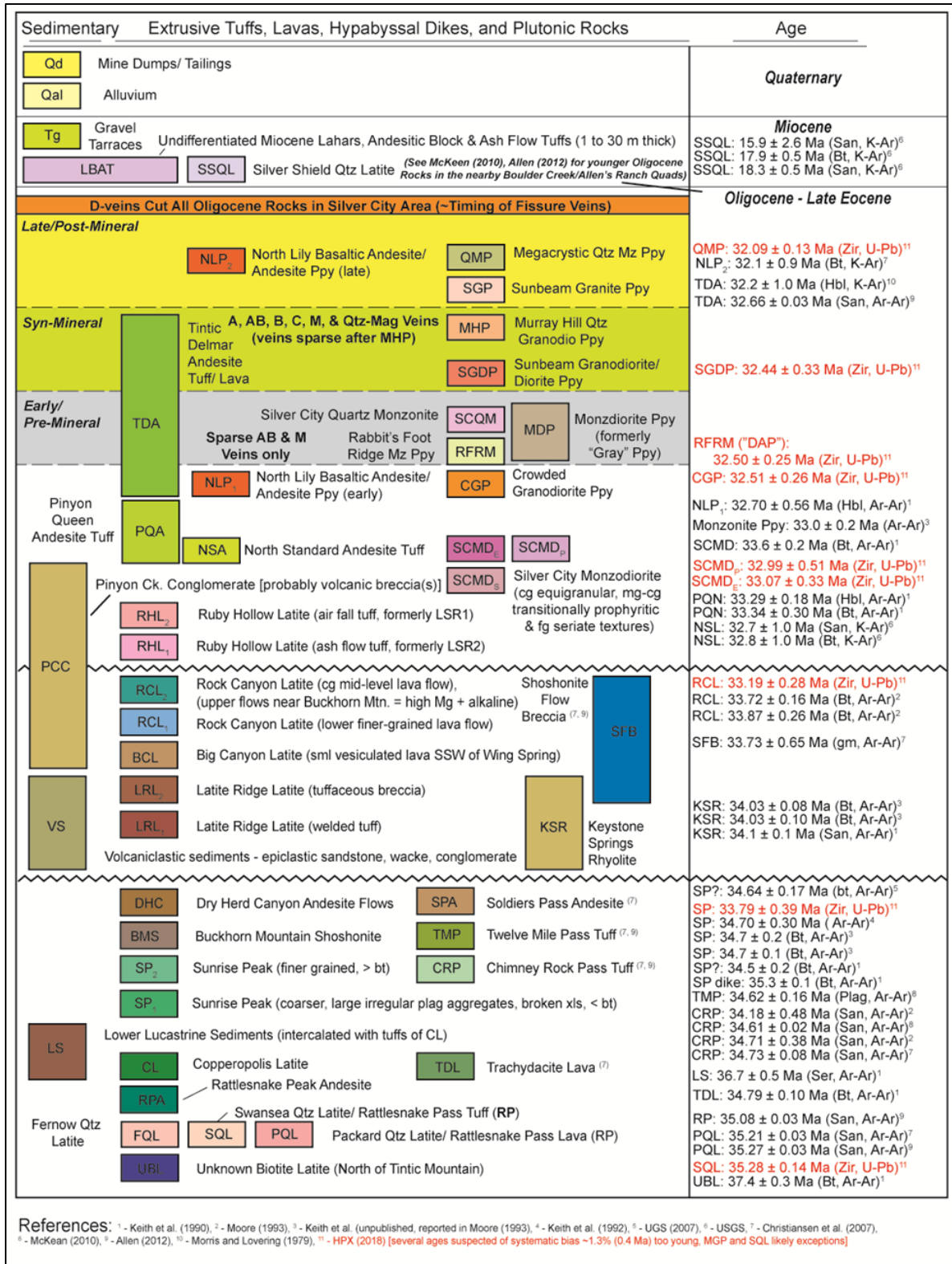
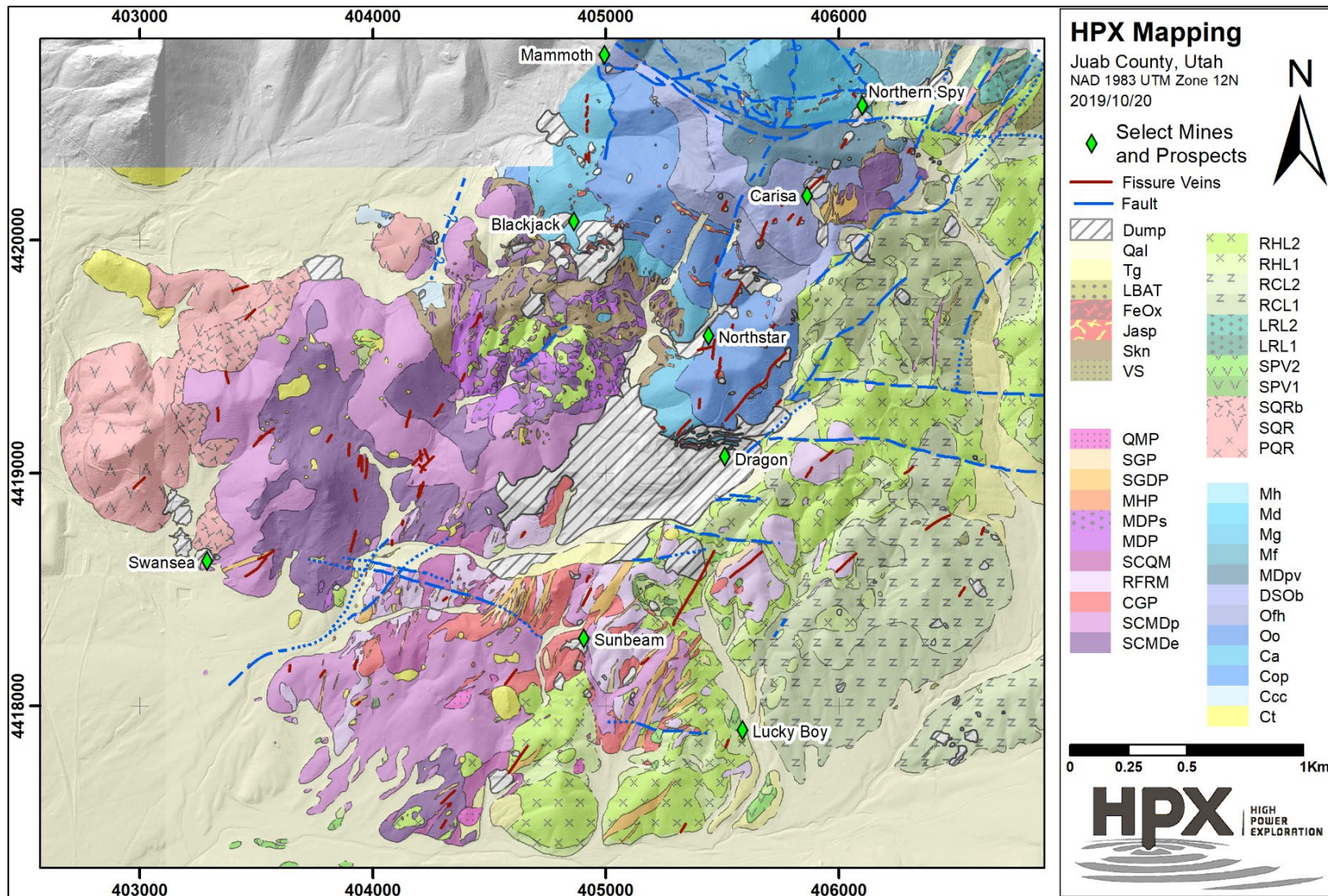


Figure 7-9: Paragenetic Diagram Showing all Non-Carbonate Rock Types and Lithology Codes for the Tintic Project and Relative Ages of Various Rock Types

| TIME-STRATI-GRAPHIC UNIT | | GEOLOGIC UNIT | MAP SYMBOL | THICKNESS METERS | LITHOLOGY | |
|--------------------------|--------------------|--------------------------------|------------|------------------|--------------|--------------|
| Tert. | Miocene -upper | Volcanic and sedimentary rocks | various | various | | ~16-18 Ma |
| | Eocene | | | | | ~32-37 Ma |
| Tertiary | | Jasperoid | Tj | variable | | |
| MISSISSIPPIAN | Upper | Great Blue Limestone | Mgb | 785 | | |
| | | Humbug Formation | Mh | 200 | | |
| | | Deseret Limestone | Md | 315-360 | | |
| | Lower | Gardison Limestone | Mg | 140-170 | | Unconformity |
| | | Fitchville Formation | Mf | 90 | | |
| S. D. | M. Up. | Pinyon Peak Ls., Victoria Fm. | MDpv | 75-90 | | Unconformity |
| ORD. | Up. | Bluebell Dolomite | DSOb | 180 | | |
| | | Fish Haven Dol. | Ofh | 60-105 | | Unconformity |
| | Lower | Opohonga Limestone | Oo | 90-275 | | |
| CAMBRIAN | Up. | Ajax Dolomite | Ca | 165-200 | | |
| | | Opex Formation | Cop | 40-105 | | |
| | Middle | Cole Canyon Dolomite | Ccc | 250-400 | | |
| | | Bluebird Dol. | Cb | 45-65 | | |
| | | Herkimer Ls. | Ch | 100-130 | | |
| | | Dagmar Dol. | Cd | 20-60 | | |
| | | Teutonic Ls. | Cte | 120-130 | | |
| | | Ophir Formation | Co | 90-130 | | |
| | ? | Tintic Quartzite | Ct | 700-975 | | |
| | Lower | | | | | |
| Neoproterozoic | Big Cottonwood Fm. | pCb | 800+ | | Unconformity | |

Modified from Clark et al. (2012) and Krahulec and Briggs (2006)

Figure 7-10: Sedimentary Rock Stratigraphic Column for the Tintic District



Source: HPX (2020)

Figure 7-11: Tintic Project Property Lithology Map Resulting from 1:2,500 Scale Mapping Program

Refer to Figure 7-9 and Figure 7-10 for legend code descriptions

7.4 Significant Mineralized Zones

Predominantly, historical production in the Tintic district focused on Ag-Pb-Zn CRD's hosted in Paleozoic limestones, with lesser production from steeply dipping Au-Ag-Pb-Zn-Cu fissure veins. The primary precious and base metal bearing minerals in the District are enargite, tetrahedrite, galena, sphalerite, pyrite, marcasite, and native gold, silver, and copper. However, many more mineral species are present, including minerals that bond with copper, silver, tellurium, arsenic, sulfur, carbonates, and hydroxides (Krahulec and Briggs, 2006). There are clear metalliferous domain changes from the Southwest to the Main Tintic Districts. Cu-Au dominance transitions into Pb-Ag, then into Pb-Au and finally into Pb-Zn in the northern portion of the Main Tintic District. This zonation also indicates that the Southwest Tintic District is closer to the original source of the polymetallic bearing fluids (Figure 7-12).

In the Tintic District, three deposit types have been identified:

- Widespread 'fissure vein' deposits that host gold, silver, lead, zinc and lesser copper;
- CRD's of primarily lead and zinc; and
- Porphyry copper deposits.

A compilation of the precious and base metals mineralogy in the deposits of the Tintic District (Lindgren et al., 1919; Cook, 1957; Morris, 1964; Morris, 1968; Armstrong, 1969; Levy, 1987; Tower and Smith, 1987; Krahulec and Briggs, 2006) delineates a distinct metal zonation inwards from the North District to the southern edge of the Main District, from Mn-Zn to Pb-Zn-Ag to Cu-Au (Figure 7-12 and Figure 7-13). This zonation pattern is the same at Bingham and many other porphyry deposits (Sillitoe, 2010; Porter et al., 2012). There are, however, exceptions to this zonation pattern wherein Pb-Zn-Ag is found in copper mineralized material, but copper is always absent from Pb-Zn-Ag mineralized material to the north. This overlapping relationship suggests telescoping (Krahulec and Briggs, 2006). Fluid inclusion studies (Reed, 1981) validate the overall metal zonation pattern northward from Silver City by showing a decrease in temperature related to more Zn-rich mineralized material. In addition to metal zonation, textural zonation of gangue minerals is also quite reliable, wherein the size of minerals gradually decreases northward from Silver City. Coarse quartz and barite are found in veins in igneous rocks while medium quartz, barite and jasperoid is found in veins in Paleozoic strata. Eventually fine quartz and barite disappear and only fine jasperoid remains in the Zn mineralized material.

To the south of the Main District, the Southwest District is host to modest volcanic-hosted high-sulphidation epithermal vein deposits presumably in-part related to the deep, sub-economic SWT porphyry (Krahulec, 1996; Krahulec and Briggs, 2006). Prominent mines in the Southwest District include the Homestake mine and Bowers and Showers mine near the Treasure Hill deposit, and the Sunbeam mine on the northern edge in the Silver City intrusive complex. These high-sulphidation epithermal deposits trend north-northeast along Sevier-related shear and tear faults. Similar to the metal zonation in the Main District, there is a clear geochemical zonation in the high-sulphidation epithermal veins of the Southwest District, from Cu-Ag-As rich veins near the SWT porphyry outward to Cu-Pb-Zn-Au-Sb to the Alaska prospect north of Treasure Hill. Alteration zonation supports this metal zonation, where veins to the south are associated with sericite-pyrophyllite-diaspore and lower temperature veins to the north contain illite, dickite and barite (Krahulec and Briggs, 2006). Fluid inclusion studies of quartz gangue related to copper mineralization, albeit of questionable quality, in

the Southwest District (Ramboz, 1979) also serve to validate this geochemical zonation, where chalcopyrite formed at 350°C homogenization temperature in the SWT porphyry and decreases to 200° C within two miles to the north.

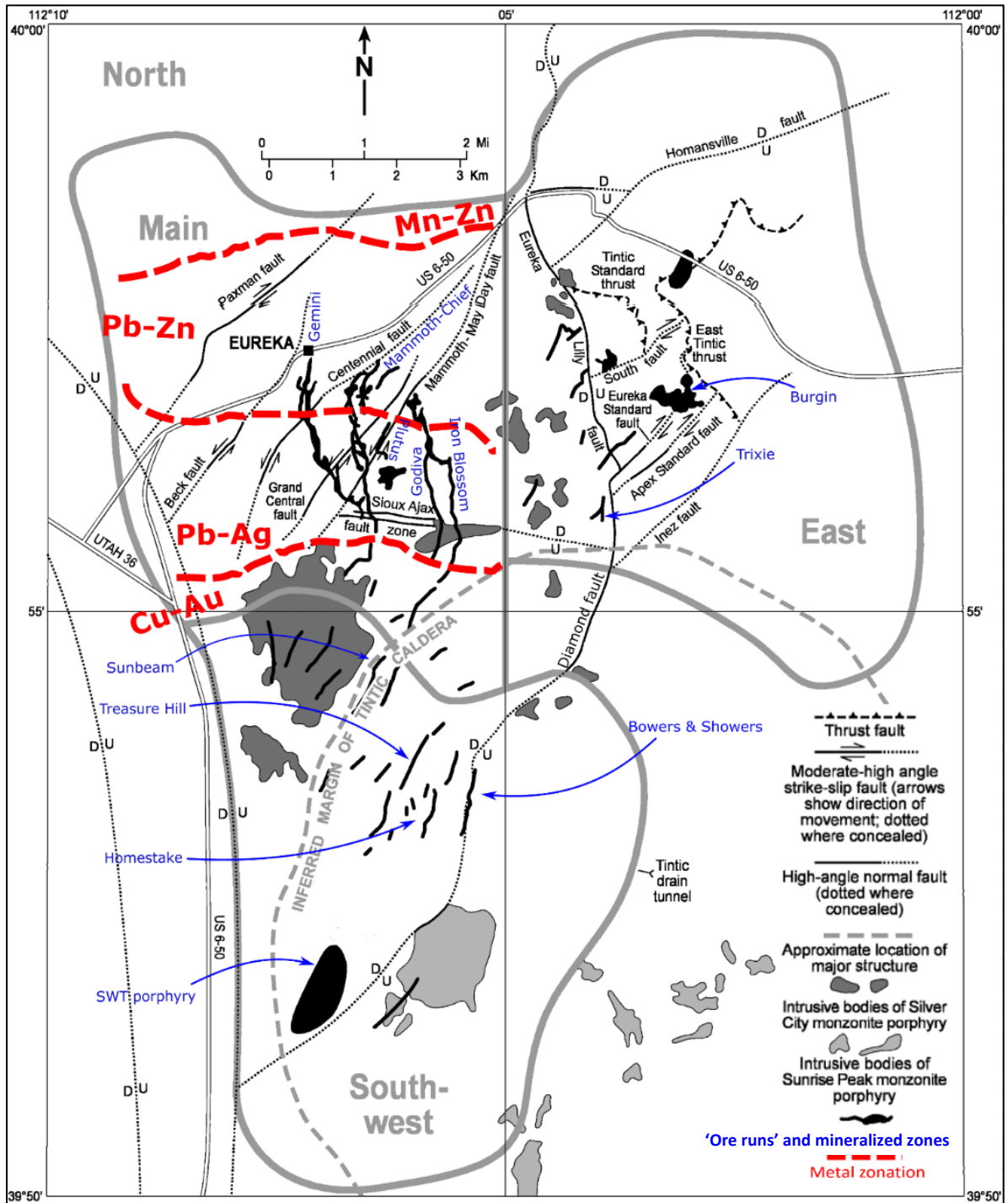
Although these zonation patterns suggest the SWT porphyry may be the principal source of hydrothermal alteration and mineralization for deposits in the Main and North Districts, Hildreth and Hannah (1996) show that the Main District copper mineralized material is separate from the SWT porphyry by measuring 245 fluid inclusion homogenization temperatures (“HT”) in 41 polished thick sections of quartz in fissure veins. While the HT decreases from the SWT porphyry northward, it increases again near Treasure Hill, south of the Silver City intrusive complex. Billingsley and Crane (1933) hypothesized that there are ~10 individual mineral centers at Tintic with each copper-rich “chimney” representing a center, while Krahulec and Briggs (2006) hypothesized that a phase of the Silver City intrusive complex may be a mineral center responsible for vein mineralization in the southern Main District. Aeromagnetic surveys by Mabey and Morris (1967) show a magnetic high in the southeast corner of the Main District that Krahulec and Briggs (2006) infer to be unexposed stock and the ultimate source of metals in the chimneys and ‘ore runs’ of the Main District.

IVNE’s land holdings cover approximately two-thirds of the Main District’s CRD’s and the multi-phase Silver City monzonite stock, which appears to be the focus of the CRD ‘ore runs’ and fissure veins. The area is also a prospective host to porphyry-style mineralization at depth when considering the proposed porphyry deposition model (see Section 8.2).

The Main District is characterized by carbonate-hosted Pb-Zn-Ag replacement deposits and Cu-Au rich epithermal fissure vein deposits (Krahulec and Briggs, 2006). Veins appear to culminate in replacement deposits to the north, predominantly occurring in hydrothermally dolomitized limestone and consisting of columnar and pod-like mineralized bodies connected by pipe-like, tabular and irregular masses of mineralization, forming continuous ‘ore runs’ (Morris, 1964). Cross-faults and abrupt changes in bedding orientation are important structures to localize the columnar bodies and to concentrate mineralization, as is the case at the high-grade Mammoth pipe located north of the Silver City intrusive complex (Morris, 1964; Krahulec and Briggs, 2006; Johnson and Christiansen, 2016).

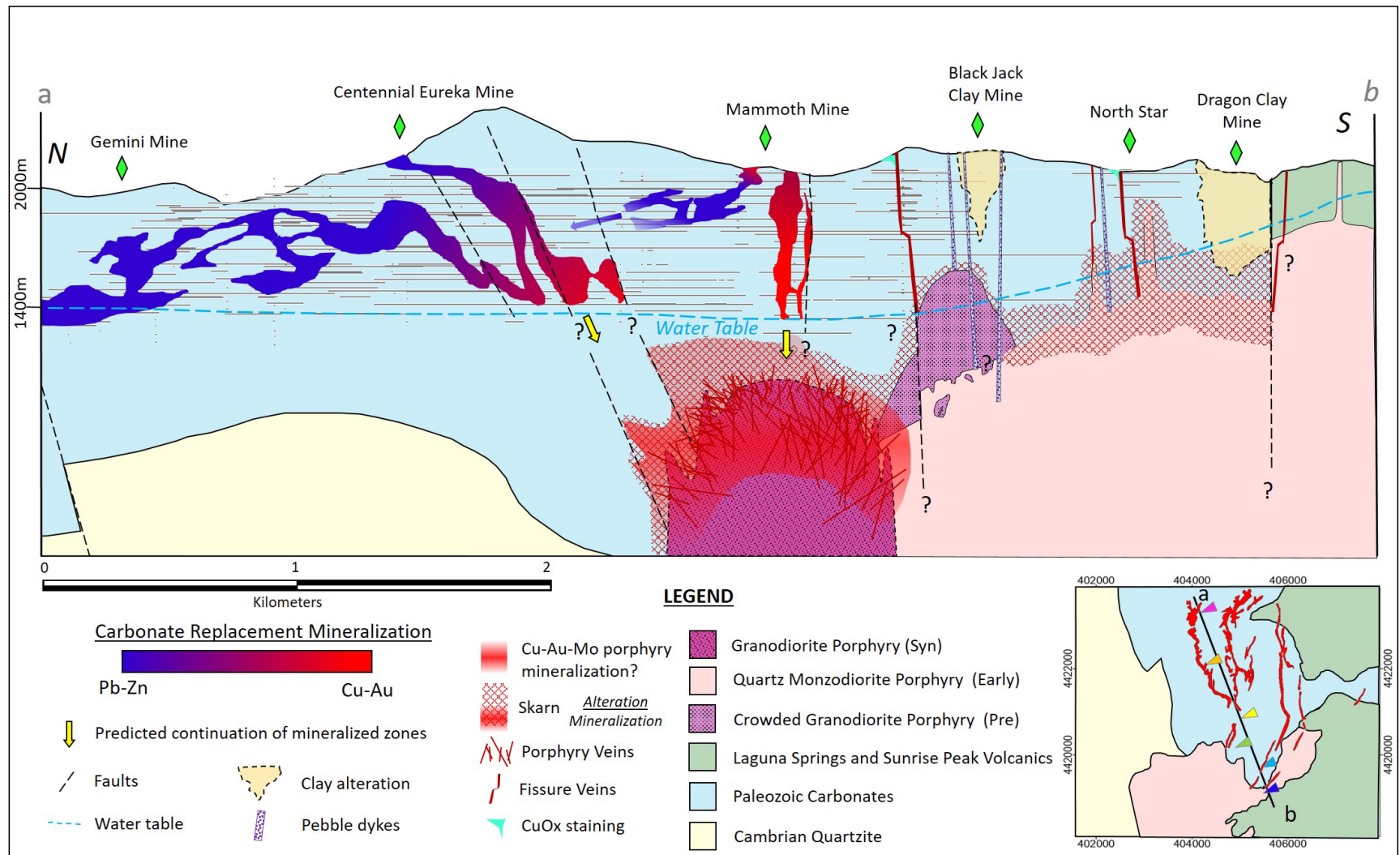
7.5 QP Opinion

Ms. Clarkson synthesized the information in this section from various historical sources and prior work on the project and accepts the information. In her opinion, the geology, structure and mineralization of the Tintic District is clearly understood and documented by several authors over several decades.



Source: modified from Krahelec and Briggs (2006)

Figure 7-12: Simplified Structural Map of the Main, East and Southwest Tintic Sub-Districts (outlined in grey) Illustrating Metal Zonation (red) and Mined 'Ore Runs' (blue)



Source: HPX (2020)

Figure 7-13: Illustrative Cross-section Looking East Showing the Various Styles of Mineralization and Zonation Observed at Tintic and the Known Mineralization (i.e., historically mined CRD ‘ore runs’ and fissure veins) Relative to a Hypothetical Porphyry Intrusion at Depth. A Hypothetical Porphyry Intrusion Closer to Surface in the Sunbeam Porphyry Exploration Potential Area is also shown.

8 Deposit Types

8.1 Mineral Deposit Types

Mineralization in the Tintic District is typical of a porphyry-epithermal magmatic hydrothermal system. Known deposits predominantly occur as CRD's and epithermal veins (e.g., fissures) with a few small porphyry deposits including the SWT porphyry south of the Main District and the Big Hill porphyry in the East District. Exploration prospects identified by IVNE on the Project include CRD's in the Paleozoic stratigraphy, areas with porphyry exploration potential in the Silver City intrusive complex and at depth below the CRD's, and skarns at intrusive contacts in the carbonate rocks. The exploration potential areas are described in Section 9.6.

8.2 Geological Model

The porphyry copper system (Sillitoe 2010) is shown in Figure 8-1, modified to highlight the mineralizing systems found at Tintic and the block tilt that is estimated to have affected the district. Figure 8-2 shows the porphyry copper model in the context of Tintic mineralization and surface features. Porphyry copper systems are recognized globally as potential systems to host Cu ± Mo ± Au ± Ag deposits of various sizes and grades.

The alteration and mineralization in porphyry copper systems are known to comprise many cubic kilometres of rock and are zoned outward from stocks or dike swarms, which typically comprise several generations of intermediate to felsic porphyry intrusions. Porphyry Cu ± Au ± Mo deposits are centered on the causative intrusions. Carbonate wall rocks can host proximal Cu-Au skarns, distal Zn-Pb and/or Au skarns, and, beyond the skarn front, carbonate replacement Cu and/or Zn-Pb-Ag ± Au deposits, and/or sediment-hosted, distal disseminated Au deposits. High-sulphidation epithermal deposits may occur in lithocaps above porphyry Cu deposits, where massive sulfide lodes tend to develop in deeper feeder structures and Au ± Ag-rich, disseminated deposits form at shallow levels within the uppermost 500 m or so. Intermediate sulphidation epithermal mineralization, chiefly veins, may develop on the peripheries of some lithocaps. The alteration-mineralization in the porphyry Cu deposits is zoned upward from barren, early sodic-calcic through mineralized potassic, chlorite-sericite, and sericitic, to advanced argillic which in part make up the lithocaps and may attain >1 km in thickness if not eroded. Low sulphidation state chalcopyrite ± bornite assemblages are characteristic of potassic zones, whereas higher sulphidation-state sulfides are generated progressively upward together with temperature decline and the resultant greater degrees of hydrolytic alteration, culminating in pyrite ± enargite ± covellite in parts of the lithocaps. The porphyry Cu mineralization occurs in a distinctive sequence of quartz-bearing veinlets as well as in disseminated form in the altered rock between the veins. Magmatic-hydrothermal breccias may form during porphyry intrusion, with some of them containing high-grade mineralization because of their intrinsic permeability. In contrast, most phreatomagmatic breccias, constituting maar-diatreme systems, are poorly mineralized at both the porphyry Cu and lithocap levels, mainly because many of them formed late in the evolution of systems.

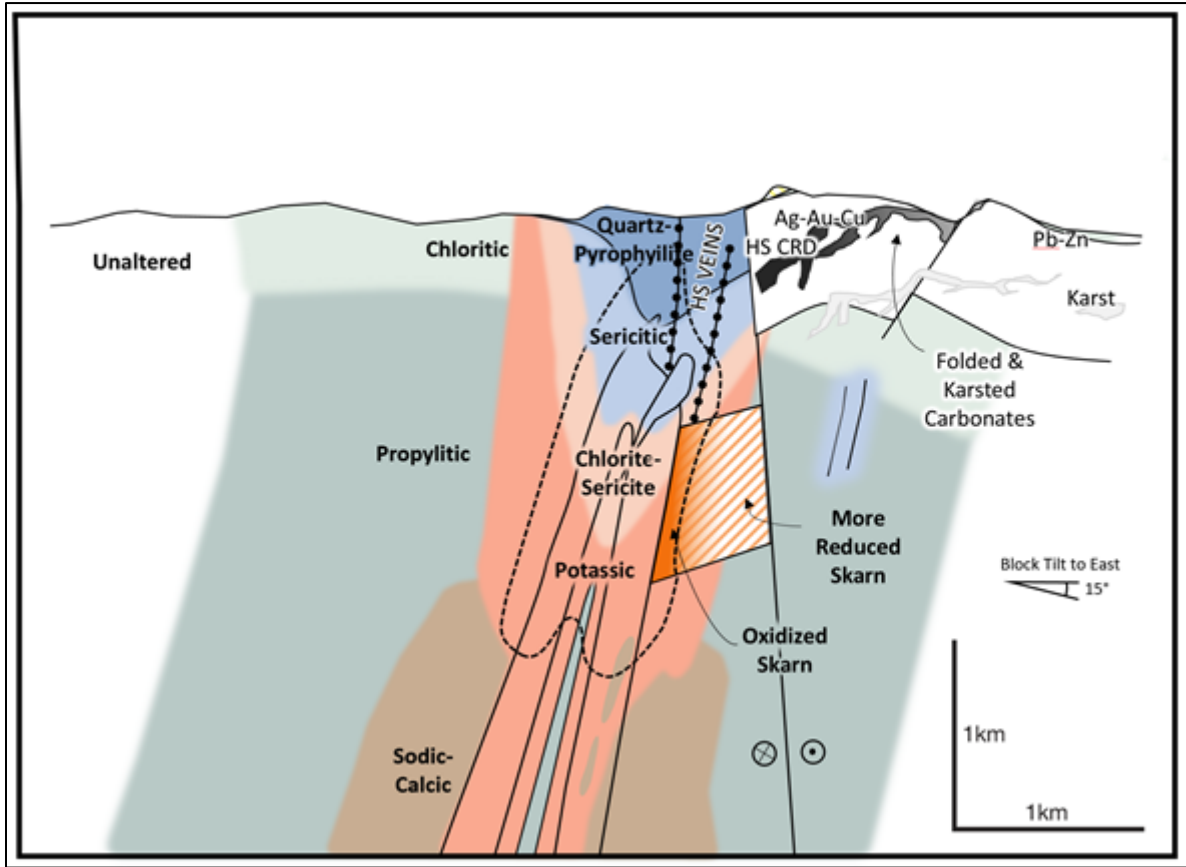
Epithermal gold-silver deposits form in the near-surface environment from hydrothermal systems typically <1.5 km below the Earth's surface (Hedenquist et al., 2000). They are commonly found associated with centers of magmatism and volcanism and modern hot-spring deposits and both liquid- and vapour-dominated geothermal systems are commonly associated as well. Epithermal gold

deposits are considered to comprise one of three subtypes (Sillitoe and Hedenquist, 2003): high sulphidation, intermediate sulphidation, and low sulphidation, each denoted by characteristic alteration mineral assemblages, occurrences, textures, and, in some cases, characteristic suites of associated geochemical elements (e.g., Hg, Sb, As, and Tl). Base metals (Cu, Pb, and Zn) and sulfide minerals may also occur in addition to pyrite and native Au or electrum. In some epithermal deposits, notably those of the intermediate-sulphidation subtype, base metal sulfides may be present in significant amounts that often show metal zoning which reflects the hydrothermal fluid temperature change with: relatively more Cu nearer the source, an increased Zn component further away, and Mn beyond that. If carbonate host rocks are available, CRD's may form as mantos and chimneys that can display similar metal zoning.

Figure 7-13 is an illustrative cross-section showing known mineralization at Tintic (i.e., historically mined CRD 'ore runs' and fissure veins) relative to a hypothetical porphyry intrusion at depth. Also shown is a hypothetical porphyry intrusion closer to surface in the Sunbeam porphyry exploration potential area.

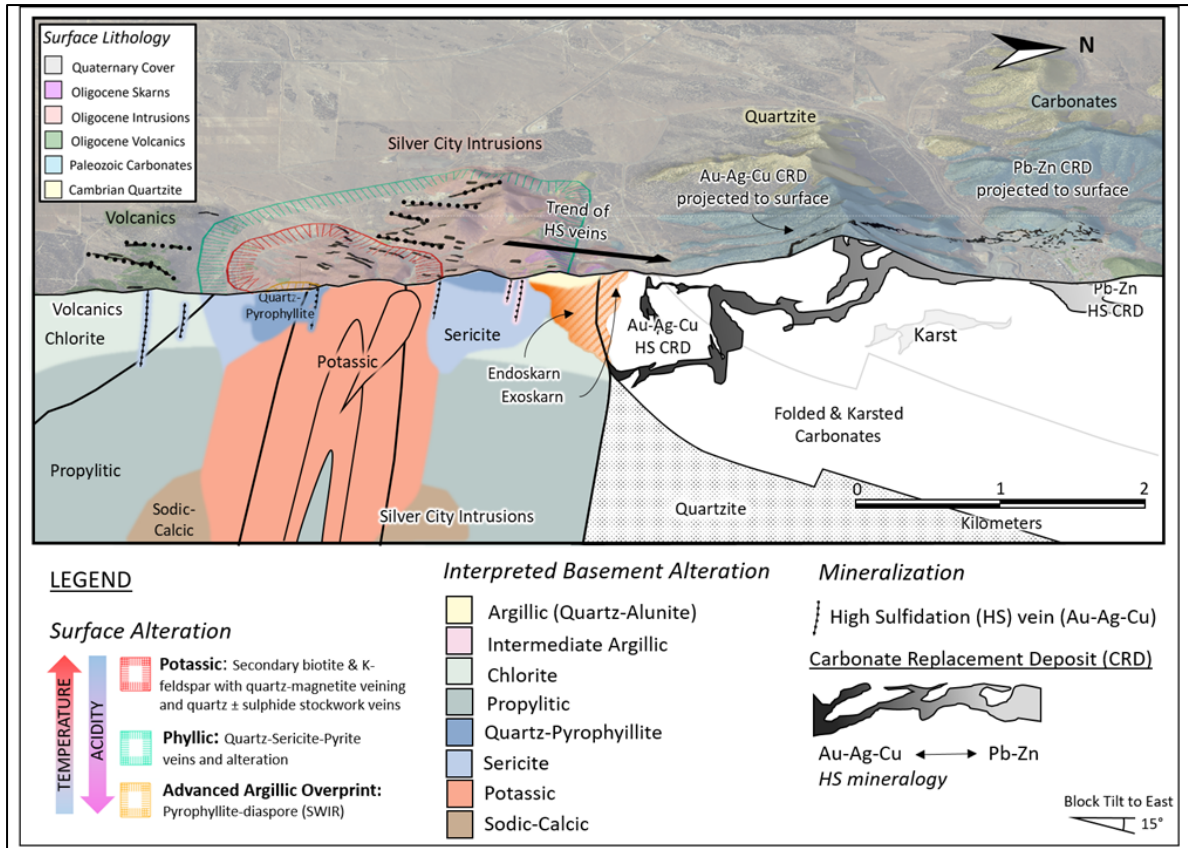
8.3 QP Opinion

Ms. Clarkson is of the opinion that the mineralization system and deposit types of the Tintic District are well understood and documented in the scientific literature.



Source: modified after Sillitoe (2010)

Figure 8-1: Tintic Mining District Porphyry, Skarn and CRD Deposits in Context of the Porphyry Depositional / Exploration Model and including the Estimated Block Tilt that Affected the Region



Source: Kerr and Hanneman (2020a) - modified after Sillitoe (2010) to be Tintic-specific

Figure 8-2: Illustration Showing 3D Surface Features at Tintic Combined with Schematic 2D Cross-section of the Porphyry Deposit Model (modified after Sillitoe (2010) to be Tintic-Specific) that shows the Relationships between Types of Mineralization on the Project

9 Exploration

Exploration by IVNE on the Tintic Project commenced in late 2017 with an airborne geophysical survey. On-the-ground exploration commenced in early 2018 and included a ground geophysical survey and a geological baseline work program consisting of soil and rock grab sampling, age dating, petrology, mapping, prospecting, and identification of key intrusive and alteration phases. Additional work through 2018 into 2019 included the re-logging of deep historical drillholes at the Dragon exploration potential area and the compilation and 3D digitization of historical mines, underground workings, and mineralized zones termed ‘ore runs’.

Table 9-1 summarizes the geophysical and geological exploration work completed by IVNE on the Project. More detailed information on each program is provided in Section 9.1 to Section 9.5 and reports referenced therein, as well as in Section 11. The significant results of the work and interpretation of the information in the form of three porphyry, six CRD, and one skarn exploration potential area are presented in Section 9.6.

Table 9-1: Summary of IVNE Geological and Geophysical Exploration on the Tintic Project

| Type | Sample Type | Analysis or Task | Total Samples / Study Area |
|---|-----------------------------|---|----------------------------|
| Geophysical Surveys | Airborne Magnetic | 1,582 km total line distance | 2,850 km ² |
| | Ground Induced Polarization | 389 km total line distance to a depth of ~1,500 m | 72 km ² |
| Surface Mapping and Sampling | Rock Grab - Surface | Assay (49 element) | 822 |
| | | Whole Rock Characterization (66 element) | 30 |
| | | Petrography | 126 |
| | | Age Dating - U/Pb | 12 |
| | | Age Dating - Ar/Ar | 2 |
| | | Fluid Inclusions | 8 |
| | Soil | Geochemistry (53 element) | 2,244 |
| | Surface Measurements | Magnetic Susceptibility | 1,140 |
| Short Wave Infrared (SWIR) ⁽¹⁾ | | 3,046 | |
| Mapping | Geological Surface Mapping | 14.7 km ² | |
| Historical Compilation and Analysis | Underground Workings | Shafts Digitized | 37 |
| | | Underground Drifts Digitized | 626 km |
| | | Historical maps digitally scanned | > 8,700 |
| | | Historical maps georeferenced | >500 |
| | Drilling | Drill Core and RC Chip Holes Re-Logged | 15 |
| | | Drill Core and RC Chip Handheld XRF Measurements | 2,200 |
| Sioux-Ajax Tunnel Mapping and Sampling | Rock Grab | Detailed Mapping and Geochemical Rock Grab Sampling | 280 |

Source: HPX (2021)

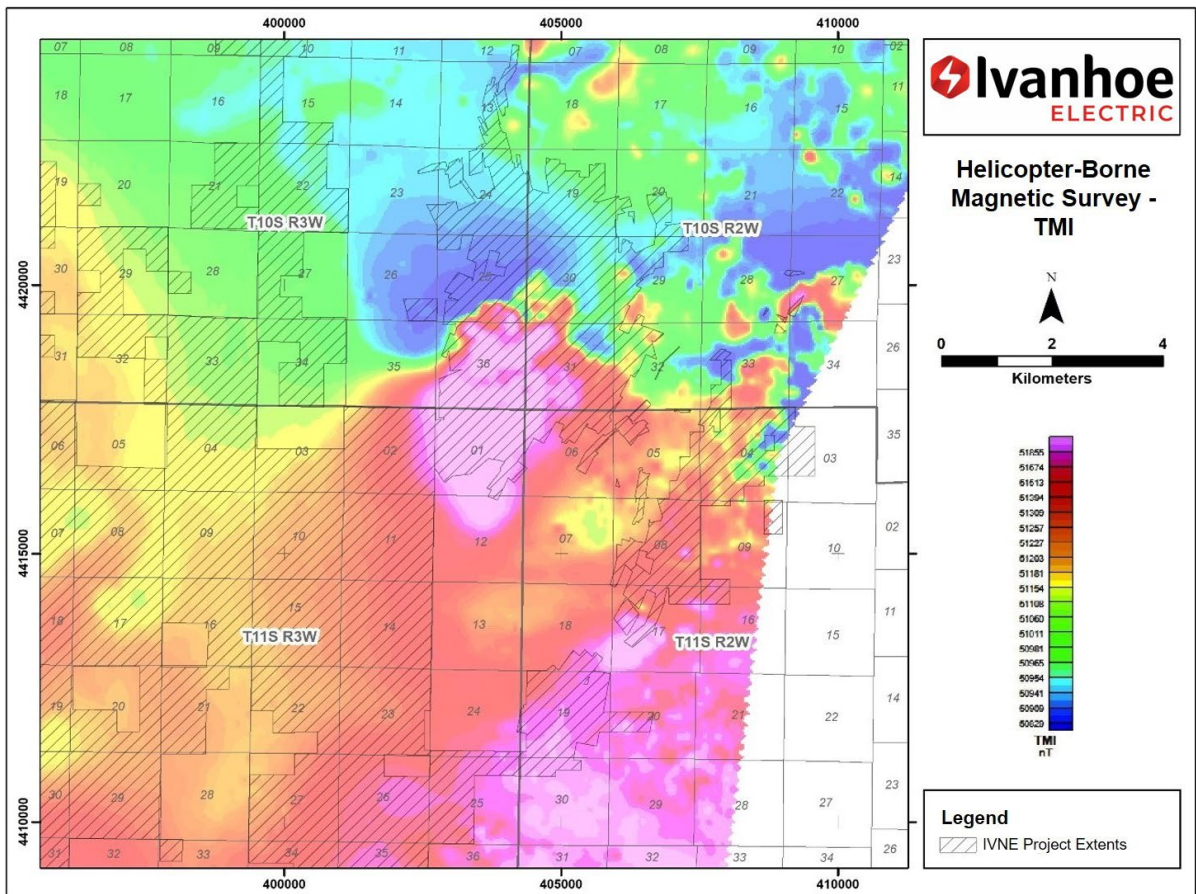
(1) Additional 3,080 SWIR measurements made on historical drill core

9.1 Geophysical Surveys

9.1.1 Airborne Magnetic Survey

In late November 2017, IVNE’s Tintic Project exploration program commenced with airborne magnetic and radiometric surveys that were flown over the entire project area. IVNE contracted New-Sense Geophysics to conduct the survey over a 2,850 km² block (Figure 9-1). A total of 1,582-line km of data was collected along 200 m spaced, east/west lines with a nominal flying height of 50 m using a Scintrex cesium magnetometer and an RS-500 spectrometer for data acquisition.

Data recovered from the survey were of deemed satisfactory quality and a variety of gridded and filtered products were produced to highlight geological features. A 3D Magnetic Vector Inversion (“MVI”) was performed with the data; the MVI inversion algorithm calculates and removes remanence for the data and provides a 3D location of magnetic bodies. The MVI results were added to the 3D geological model and have been shown to map the extents of the Silver City intrusion.



Source: IVNE (2021)

Figure 9-1: Tintic Project Airborne Magnetic Survey Total Magnetic Intensity (“TMI”) Representation

9.1.2 Ground Induced Polarization Survey

The Tintic 3D Perpendicular Pole-Dipole (“PPD”) induced polarization (“IP”) survey was conducted by IVNE and DIAS Geophysical Ltd. (“DIAS”) in two phases between October 2018 and June 2019. The survey was completed on claims held by Spenst Hansen and subject to the earn-in agreements between the two parties (Section 4.3). Over 72 km² and 389 line-km (with 250 to 500 m data spacing) were surveyed covering the core of the Tintic project area and many of the surrounding mineral claims using IVNE’s proprietary Typhoon (Figure 9-2) geophysical transmitting system and the DIAS-32 3D receiver technology. The survey detected resistivity and chargeability to a depth of 1,500 m. Data collected using the Typhoon system have reduced noise, allowing for resolution of the subtle, deep features that may be missed with the use of other systems.

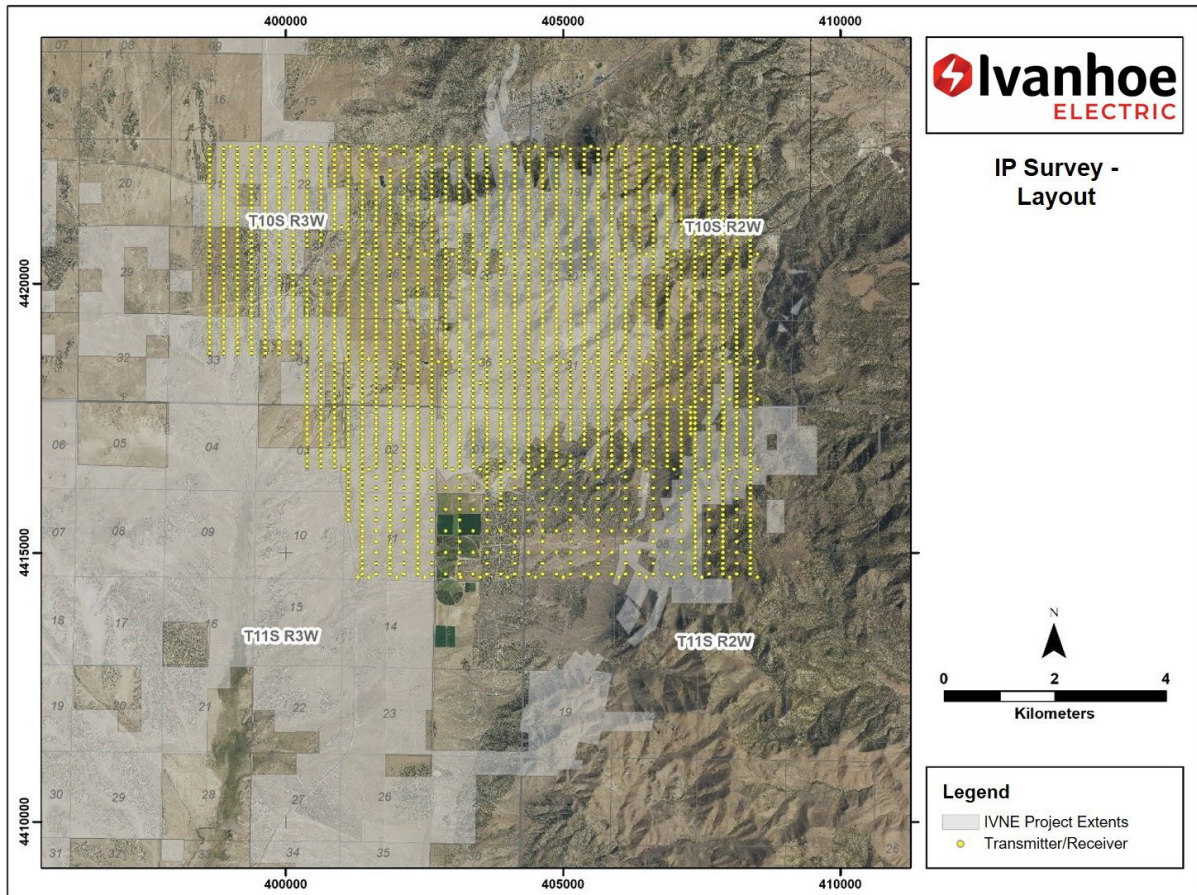
The survey design employed at Tintic allowed for the data to be inverted into a 3D volume representing the true locations of recovered signals. This facilitated integration of the data into the 3D geological model.

The final survey design is shown in Figure 9-3.



Source: photo courtesy of IVNE

Figure 9-2: IVNE’s Proprietary Typhoon Equipment at Tintic in Fall 2018



Source: IVNE (2021)

Figure 9-3: Tintic Project Ground IP Survey Configuration

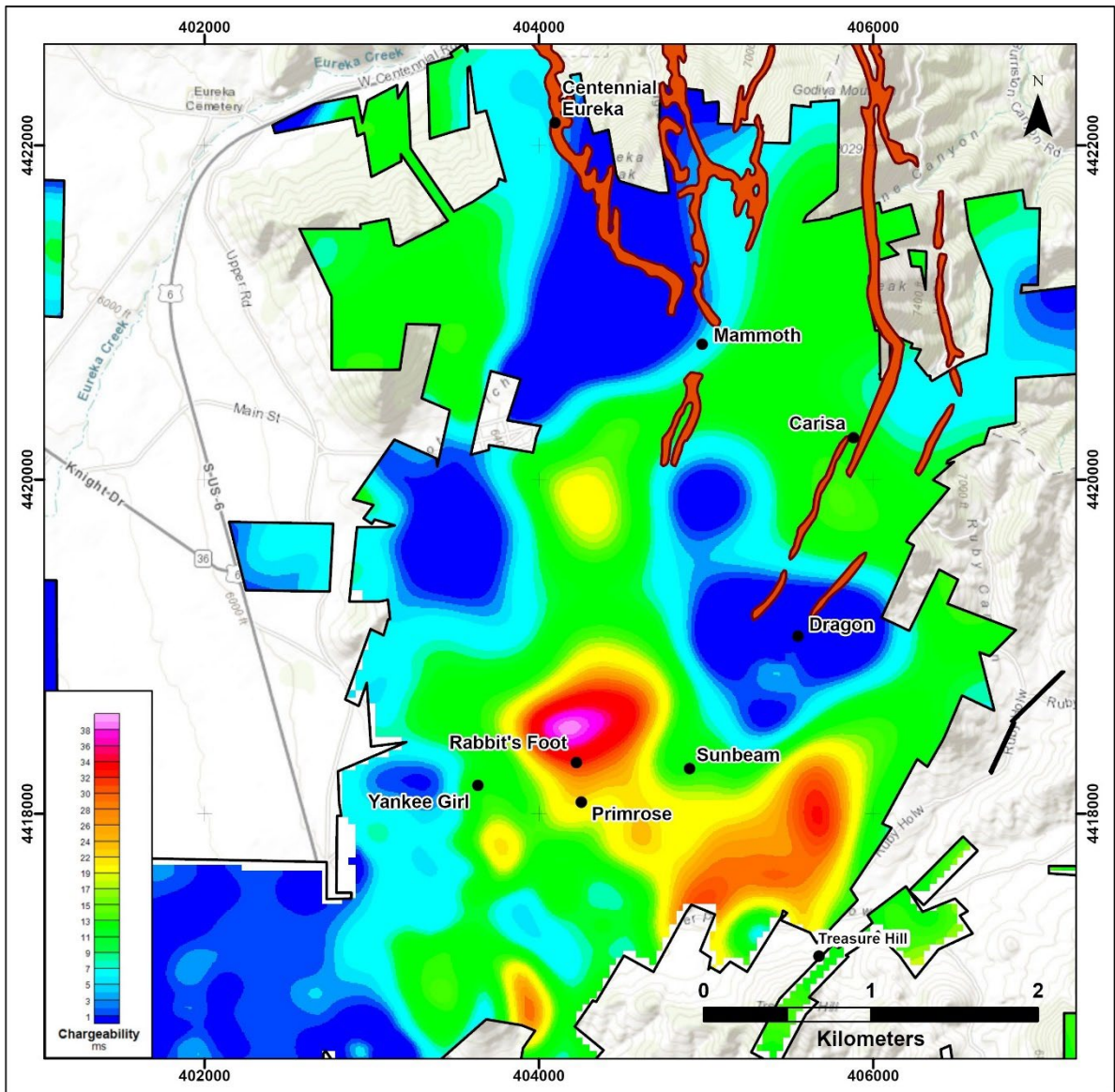
The geophysical survey covered both the Main Tintic CRD exploration potential areas and the Silver City porphyry exploration potential areas. This survey aided in the identification of resistivity anomalies associated with porphyry copper and CRD styles of mineralization.

The major technical challenge in the survey was measuring IP responses below variably conductive cover in terrain that was steep and rocky. Extensive pre-survey modelling was used to generate a survey plan that would minimize inductive electromagnetic coupling (“EMC”), maximize the production rate, and provide deep penetration of the subsurface.

The IP data collected in the survey were inverted into a 3D representation of the data by Computational Geoscience Inc. (“CGI”). In general, EMC is minimal, and the results show a reliable estimation of the subsurface distribution of conductive and chargeable materials. The depth of investigation is typically approximately 1,000 m. However, it is less in the far east of the survey area due to the presence of thick conductive cover. In the more resistive areas, such as those dominated by carbonate rocks, the depth of investigation is closer to 1,500 m.

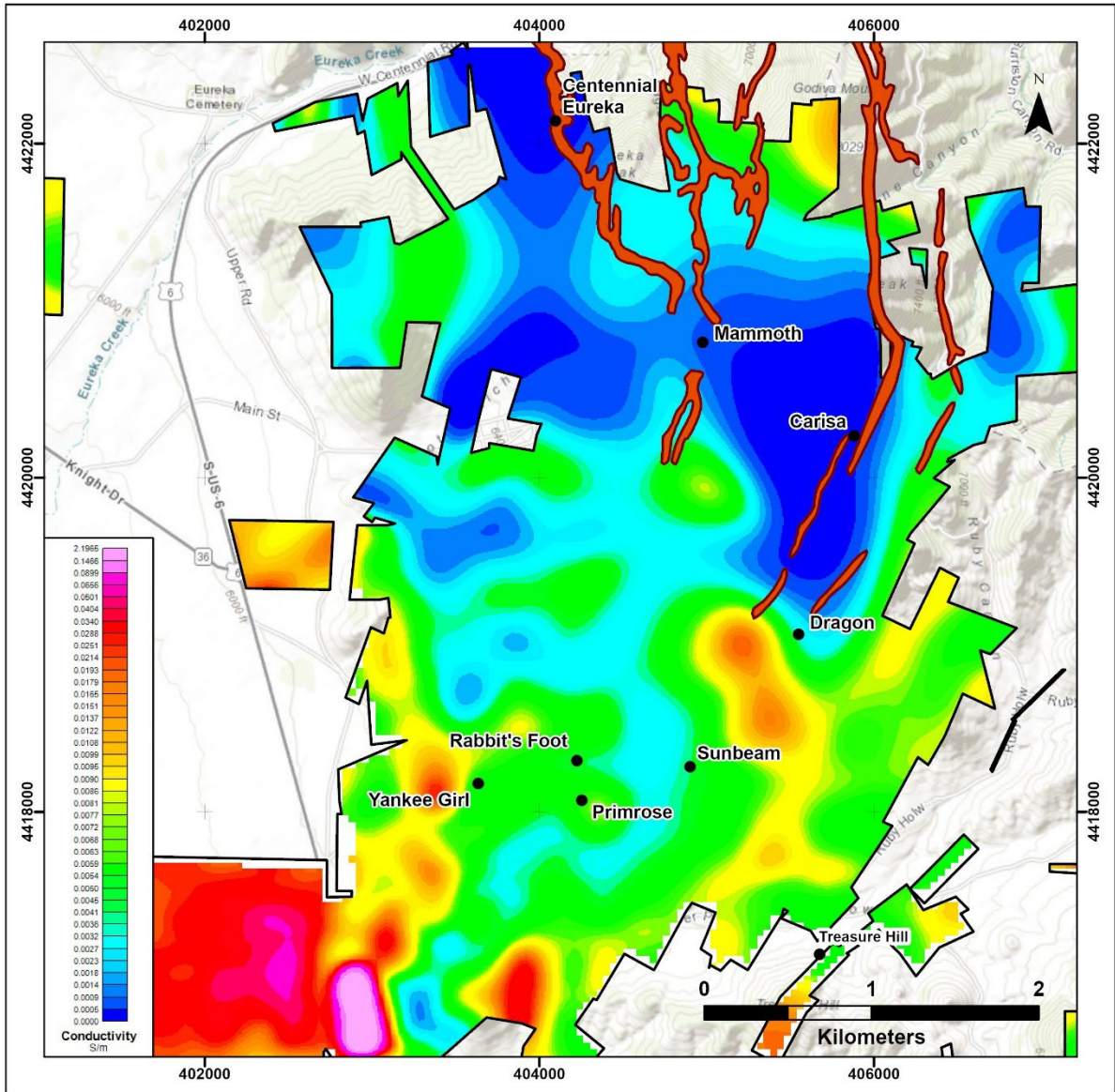
Results of the survey indicate that there may be at least three large-scale porphyry exploration potential areas that coincide with previously identified geological targets (Figure 9-4, Figure 9-5 and Figure 9-6). In addition, one potential CRD-style breccia pipe was identified.

Within the carbonate rocks, the Typhoon conductivity data is able to discern the different stratigraphic units. Changes in the resistivity data have been found to correlate well to the lithological information obtained from the historic mine maps. On this basis, IVNE is confident in their ability to use the resistivity data to predict where the different limestone units are located and to determine areas of silica alteration away from the limestones.



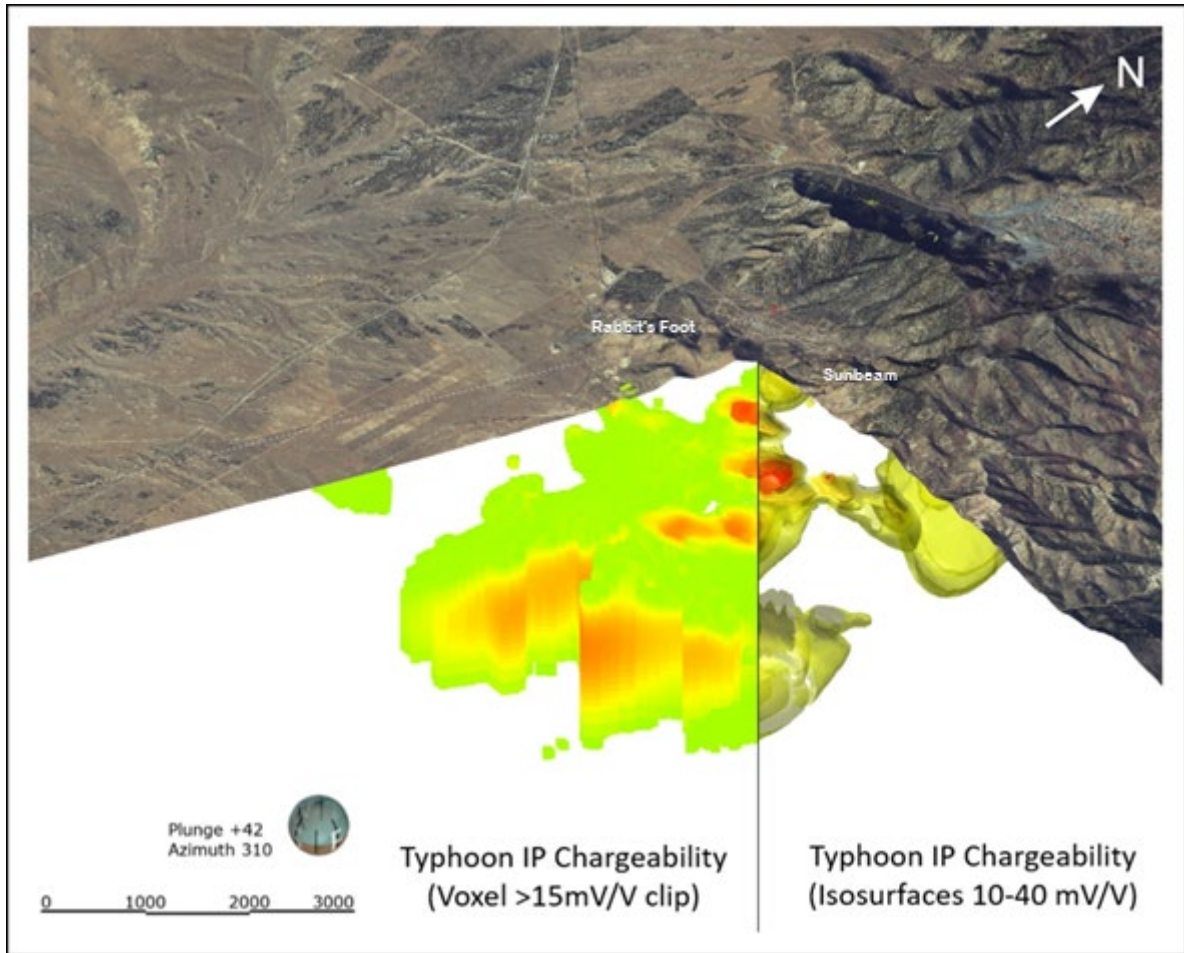
Source: HPX (2020)

Figure 9-4: Tintic Typhoon Ground IP Survey Chargeability 3D Inversion Slice at 1700 m RL (approximately 200-300 m depth below surface) around the Rabbit's Foot and Sunbeam Porphyry Exploration Potential Areas



Source: HPX (2020)

Figure 9-5: Tintic Typhoon Ground IP Survey Conductivity 3D Inversion Slice at 1700 m RL (approximately 200-300 m Depth Below Surface) around the Rabbit's Foot and Sunbeam Porphyry Exploration Potential Areas



Source: HPX (2020)

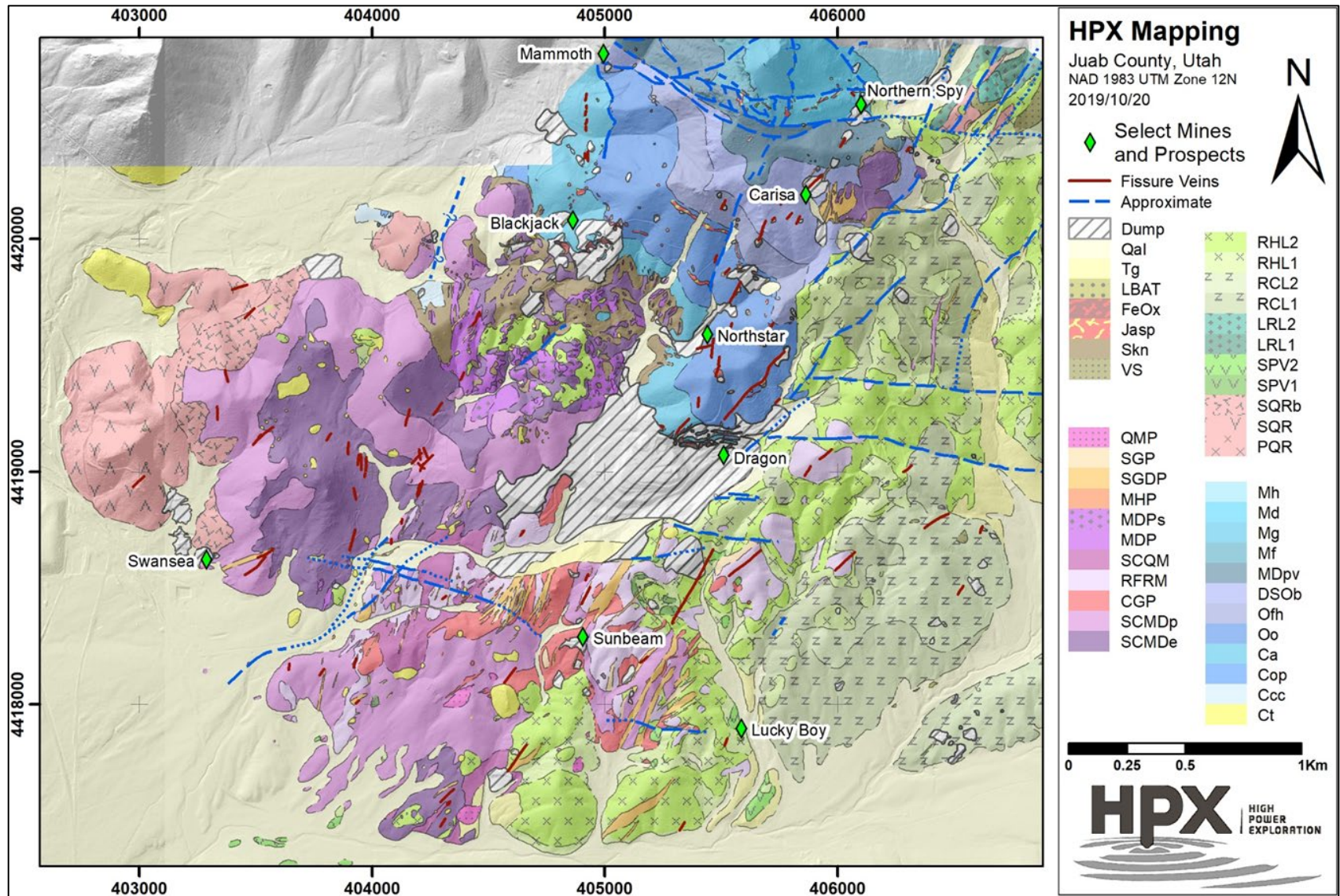
Figure 9-6: Tintic Typhoon Ground IP Survey Chargeability Shown in 3D Around the Rabbit's Foot and Sunbeam Porphyry Exploration Potential Areas

9.2 Surface Mapping

Geological mapping at a 1:2,500 scale was initiated across the Silver City porphyry exploration potential area in 2018. The area was divided into 500 x 500 m quadrants and was systematically mapped by IVNE staff with a focus on mapping the various lithologies and alteration present in the Silver City area. Historical geologic maps of the Silver City area were completed at a scale of 1:24,000 and broadly grouped the Silver City intrusive complex into one unit (Morris, 1964).

The 2018 IVNE mapping program identified eight different intrusive units with varying phases and degrees of hydrothermal alteration, suggesting a complex, composite intrusive history impacted by complicated hydrothermal alteration (Figure 9-7). Detailed property geology derived as a result of this surface mapping work is described in Section 7.3 of this report.

Coincident with surface mapping, rock and chip samples were collected for various analyses. These are detailed in subsequent subsections.



Source: HPX (2020)

Figure 9-7: Lithology Map Resulting from the IVNE 1:2,500 Scale Mapping of the Silver City Area

Refer to Figure 7-9 and Figure 7-10 for legend code descriptions

9.3 Surface Sampling

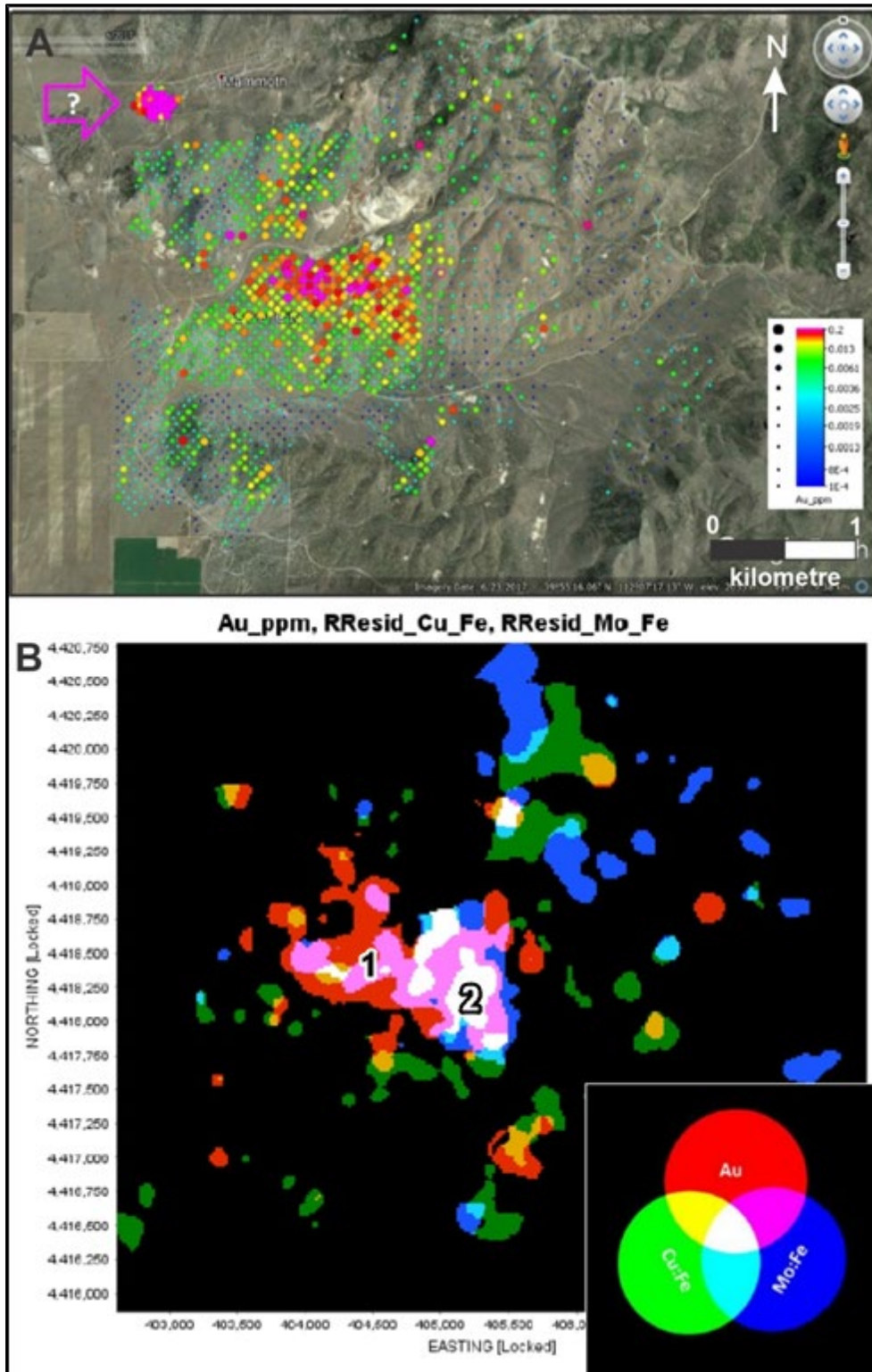
9.3.1 Soil Sampling

IVNE completed a soil geochemical survey between April and June of 2018 across the Silver City and Sunbeam porphyry exploration potential area. A total of 2,283 soil samples, including 175 QA/QC samples, were collected on an offset grid with 70 m sample spacing (Figure 9-8). Only 1,172 soil samples were considered as non-contaminated. The anomalous Au (ppm) area identified with an arrow and a question mark in Figure 9-8 relates to anthropogenic contamination and was utilized by IVNE as a baseline study for their core processing facility. The anomalous areas between the Rabbit's Foot and Sunbeam exploration potential areas (denoted as 1 and 2 respectively in Figure 9-8) relate to road contaminated samples.

Each sample was analyzed for 53 trace element geochemistry by ALS Chemex and the coarse fractions of the samples were analyzed by TerraSpec® to characterize the soil mineralogy that may potentially serve as a vector to mineralization. Quality assurance/quality control ("QA/QC") samples were inserted into the sampling (Section 11) and analytical workflow and results indicate that there was no bias or contamination present in the analytical results (Van Geffen, 2018).

The soil sampling survey was completed by four teams of samplers. Any gold or silver jewelry and watches were removed prior to sampling. Soil samples were collected from the middle to base of the B soil horizon, approximately 8 to 16 inches deep. Overlying O, A, and E soil horizons were excavated and piled adjacent to the hole for later backfilling. The holes were completed using Bushpro carbon steel spade shovels. Approximately 1 kg of the target soil horizon was collected and placed in a large plastic sample bag. The shovel was cleaned of any visible dirt prior to sampling and then used to dig a 'dummy hole' adjacent to the planned sample location to contaminate the spade with locally derived material. An ALS sample ticket was inserted into the plastic bag and a duplicate ticket stapled to the collar of the bag. The sample number was written in black marker on the outside of the bag near the base and top collar for quick identification. The sample bag was sealed by twisting the bag collar and then securing with a large plastic zip tie. A duplicate sample was collected every twenty (20) samples. Standards were inserted every twenty-five (25) samples. A handheld global positioning system (GPS) was used to record the sample location and the soil type, color, water content and other characteristics were logged. The accuracy of the GPS unit used is ± 3 m. Field data sheets were entered in an Excel spreadsheet, which served as the front end to a more robust Access database that allowed for seamless merging of field data with laboratory assay certificates.

The soil geochemical data were examined and interpreted by Van Geffen (2018). The data were deemed to be of adequate quality to use to classify protolith compositions and identify multi-element signatures of porphyry, skarn, and epithermal styles of mineralization. The results of the study show a Cu-Au-Mo rich core zone present in the Silver City area, along with a skarn-like halo that is somewhat offset to the northwest (Figure 9-8). Several discrete anomalies of epithermal element suites are scattered to the east and southeast of the Silver City area. Apart from the trace element signatures, the interpretation of these anomalies is supported by the presence of Na-sulphate in soils and shallow workings/adits in the hillsides as can be recognized on Google Earth satellite images.



Source: HPX (2020)

Figure 9-8: (A) Au (ppm) in Soil Samples Showing a Highly Anomalous Area over the Silver City and Sunbeam Porphyry Exploration Potential Area (arrow relates to anthropogenic contamination area); (B) Cu-Au-Mo Coincident Soil Anomaly over the Same Area (1 relates to Rabbit's Foot and 2 to Sunbeam exploration potential areas)

The Cu-Mo-Au anomalous area is roughly coincident with the zones of stockwork quartz veining and argillic alteration and potentially indicative of a porphyry exploration potential area.

The top nine combined results for the Rabbit's Foot and Sunbeam exploration potential areas are shown in Table 9-2.

Table 9-2: Anomalous Cu-Mo-Au Soil Sample Results

| Soil Sample ID | UTM Easting | UTM Northing | Elevation | Exploration ¹ Potential Area | Type | Cu (ppm) | Mo (ppm) | Au (ppm) |
|----------------|-------------|--------------|-----------|---|----------|----------|----------|----------|
| X051163 | 404,192 | 4,418,382 | 1,922 | Rabbit's Foot | Porphyry | 82.90 | 3.72 | 0.09 |
| X051159 | 404,373 | 4,418,577 | 1,969 | Rabbit's Foot | Porphyry | 81.10 | 0.93 | 0.03 |
| X051113 | 404,272 | 4,418,368 | 1,933 | Rabbit's Foot | Porphyry | 72.00 | 0.97 | 0.03 |
| X051118 | 404,475 | 4,418,473 | 1,957 | Rabbit's Foot | Porphyry | 70.70 | 1.38 | 0.11 |
| X051164 | 404,108 | 4,418,316 | 1,915 | Rabbit's Foot | Porphyry | 70.50 | 1.60 | 0.04 |
| X051158 | 404,323 | 4,418,527 | 1,957 | Rabbit's Foot | Porphyry | 65.70 | 0.80 | 0.07 |
| X051014 | 404,578 | 4,418,371 | 2,003 | Rabbit's Foot | Porphyry | 58.70 | 1.83 | 0.08 |
| X051115 | 404,375 | 4,418,479 | 1,938 | Rabbit's Foot | Porphyry | 55.30 | 1.33 | 0.05 |
| X051327 | 404,176 | 4,418,480 | 1,932 | Rabbit's Foot | Porphyry | 52.80 | 1.68 | 0.02 |
| X051221 | 405,122 | 4,418,327 | 2,016 | Sunbeam | Porphyry | 105.00 | 2.48 | 0.05 |
| X051224 | 405,125 | 4,418,229 | 1,988 | Sunbeam | Porphyry | 91.60 | 6.67 | 0.04 |
| X051225 | 405,172 | 4,418,177 | 1,982 | Sunbeam | Porphyry | 90.00 | 2.75 | 0.02 |
| X051264 | 405,073 | 4,418,479 | 2,037 | Sunbeam | Porphyry | 83.40 | 5.73 | 0.02 |
| X051272 | 405,330 | 4,418,321 | 1,999 | Sunbeam | Porphyry | 82.90 | 3.53 | 0.02 |
| X051371 | 405,173 | 4,418,075 | 1,985 | Sunbeam | Porphyry | 80.70 | 2.84 | 0.05 |
| X051372 | 405,222 | 4,418,028 | 1,978 | Sunbeam | Porphyry | 82.20 | 0.97 | 0.01 |
| X051484 | 405,226 | 4,418,124 | 1,997 | Sunbeam | Porphyry | 77.10 | 5.35 | 0.02 |
| X051485 | 405,275 | 4,418,077 | 1,981 | Sunbeam | Porphyry | 66.40 | 14.80 | 0.14 |

Source: HPX (2020)

In Mr. Deiss' opinion, the soil sampling grid is reasonably spaced to identify soil anomalies. IVNE's approach, i.e., taking into consideration various metallic elements and ratios to identify exploration potential areas, is appropriate for porphyry-style, CRD, and fissure vein mineralization exploration.

9.3.2 Rock Grab Sampling

Assaying

A total of 560 rock grab samples have been collected during mapping and other field visits across the Tintic Project, 503 of which have been analyzed by ALS Chemex (50 elements). The highest Cu (ppm) results encountered during the grab sampling are shown in Table 9-3 and Figure 9-9. IVNE included an additional 73 samples comprising Blanks, Certified Reference Material ("CRM") and duplicates as part of their QA/QC (Section 11). Samples were collected of altered or veined rocks in order to characterize metal contents and identify geochemical anomalies at surface.

The rock grab samples were collected with a rock hammer and each comprised approximately 0.5 to 2.0 kg of material collected in a large plastic sample bag. An ALS sample ticket was inserted into the bag and a duplicate ticket stapled to the collar of the bag. The sample number was written in black marker on the outside of the bag near the base and top collar for quick identification. The sample bag was sealed by twisting the bag collar and then securing with a large plastic zip tie. A duplicate sample was collected every twenty (20) samples. Standards were inserted every twenty-five (25) samples and blanks inserted every twenty (20) samples.

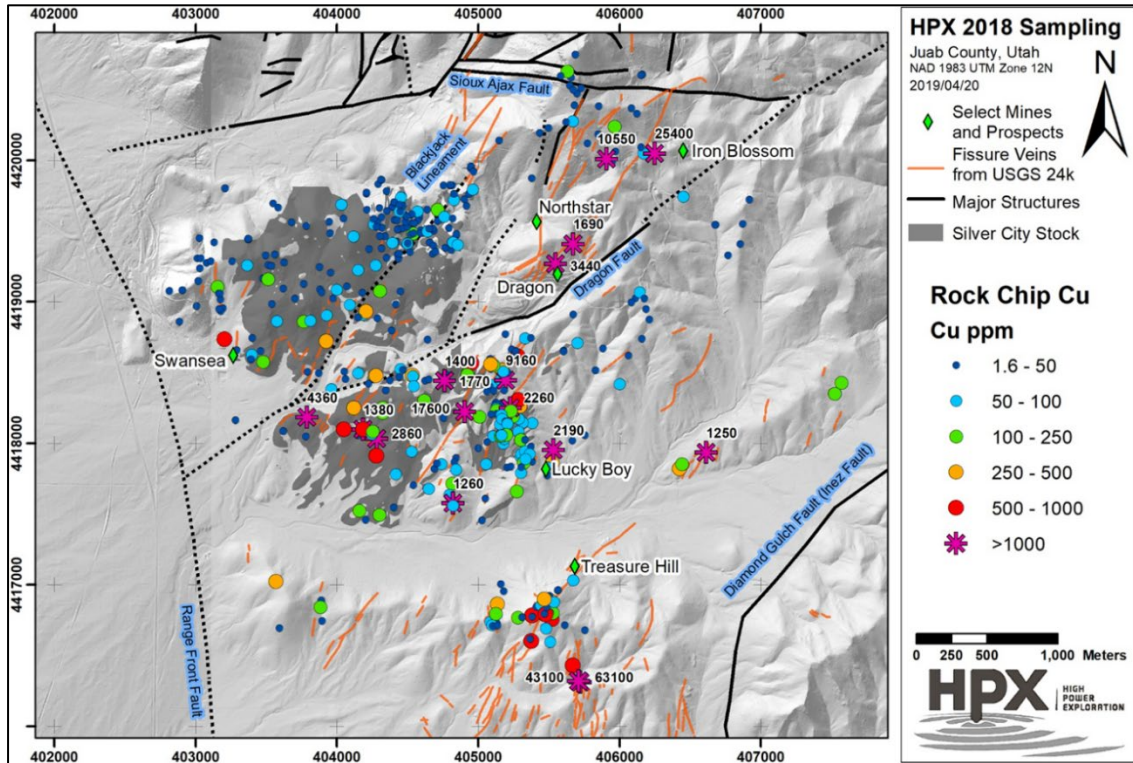
IVNE produced geochemical maps showing the distribution of Cu, Mo, Pb, Zn, Au, Ag concentrations and $\log(\text{Au}_{\text{ppm}}/\text{Cu}_{\text{ppm}})$ in the rock grab samples. The distributions of Cu and Mo concentrations are shown in Figure 9-9 and Figure 9-10. The results and interpretations of the maps are summarized as follows:

- Cu and Mo concentrations tend to be highest at the southeastern end of the Silver City intrusive complex along the Sunbeam-Dragon-Iron Blossom fissure vein, and this corresponds to a similar anomaly in the soil geochemistry near Joe Daly. Cu values from fissure vein material have been assayed up to 6.3% and Mo peaks around 100 ppm;
- Pb has a more bimodal occurrence in the Silver City area, most commonly with concentrations below 0.06% and a few samples with anomalous Pb from 0.5-7.6% measured;
- Zn is particularly concentrated north of the Dragon Fault along the Blackjack Lineament with values up to 0.5% Zn.
- Au and Ag values are also bimodal with most samples collected having negligible values;
- High Au assays range from 1-3 ppm typically, with one sample exceeding 12 ppm west of Iron Blossom;
- Ag values go up to 1,600 ppm and closely resemble the distribution of Pb anomalies; and
- When plotting the ratio between Au and Cu concentrations, expressed as $\log(\text{Au}_{\text{ppm}}/\text{Cu}_{\text{ppm}})$, there is a clear association with the Dragon Fault.

Table 9-3: Top Nine Anomalous Cu Rock Grab Sample Results

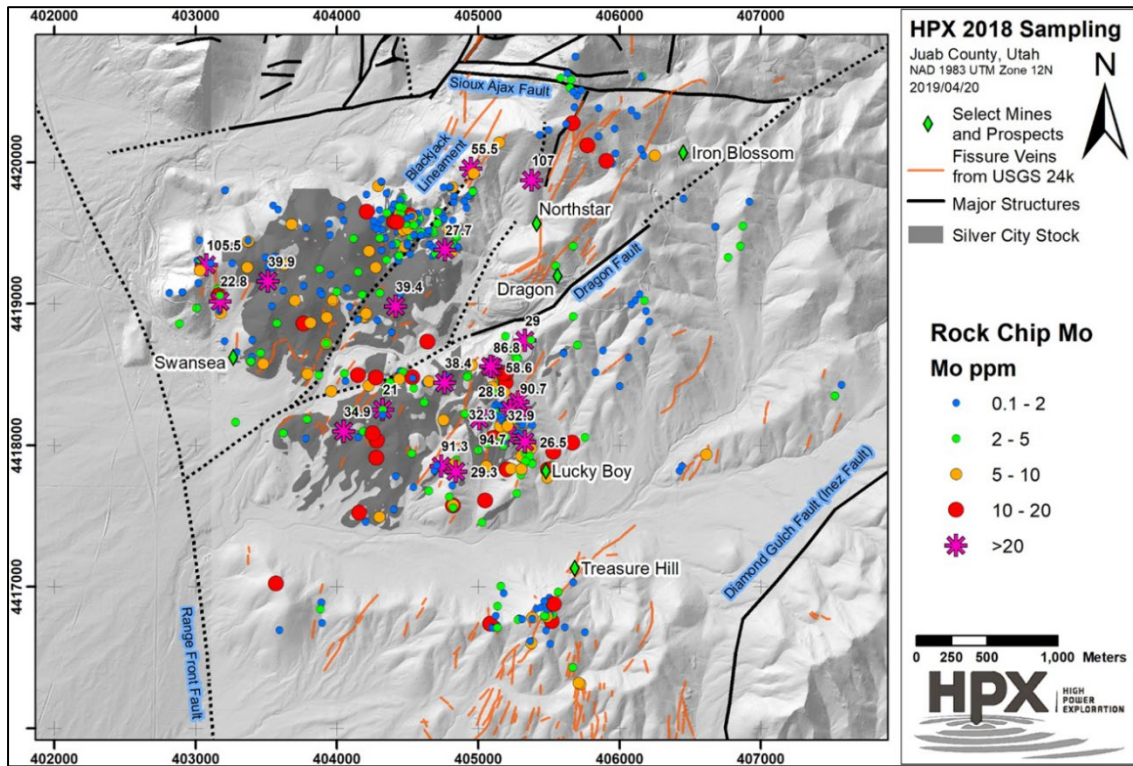
| Rocks Sample ID | UTM Easting | UTM Northing | Exploration Potential Area | Type | Cu (ppm) | Ag (ppm) | Au (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|-----------------|-------------|---------------|-------------------------------|---------------|----------|----------|----------|----------|----------|----------|
| X646479 | 405,721.425 | 4,416,312.111 | 0.5 km south of Treasure Hill | Fissure Veins | 63,100 | 216 | 0.44 | 7.90 | 494 | 120 |
| X646793 | 405,711.000 | 4,416,319.000 | 0.5 km south of Treasure Hill | Fissure Veins | 43,100 | 123 | 0.25 | 7.29 | 308 | 108 |
| X646772 | 406,251.000 | 4,420,046.000 | Carissa | CRD | 25,400 | 167 | 1.02 | 6.14 | 57,200 | 164 |
| X646392 | 404,904.060 | 4,418,219.945 | Sunbeam | Porphyry | 17,600 | 222 | 0.73 | 4.07 | 8,300 | 929 |
| X646789 | 405,910.000 | 4,420,008.000 | Carissa | CRD | 10,550 | 1,430 | 12.15 | 12.55 | 7,940 | 2,460 |
| X052085 | 405,195.000 | 4,418,444.000 | Sunbeam | Porphyry | 9,160 | 413 | 0.73 | 11.25 | 2,830 | 343 |
| X648253 | 403,788.084 | 4,418,182.538 | Rabbit's Foot | Porphyry | 4,360 | 1 | 0.01 | 4.36 | 48 | 89 |
| X648426 | 405,547.800 | 4,419,267.000 | Dragon | ? | 3,440 | 141 | 0.30 | 3.18 | 1,380 | 2,180 |
| X646453 | 404,282.000 | 4,418,032.000 | Rabbit's Foot | Porphyry | 2,860 | 30 | 0.10 | 10.05 | 3,440 | 496 |

Source: HPX (2020)



Source: HPX (2020)

Figure 9-9: Cu Values for Rock Grab Samples at Tintic

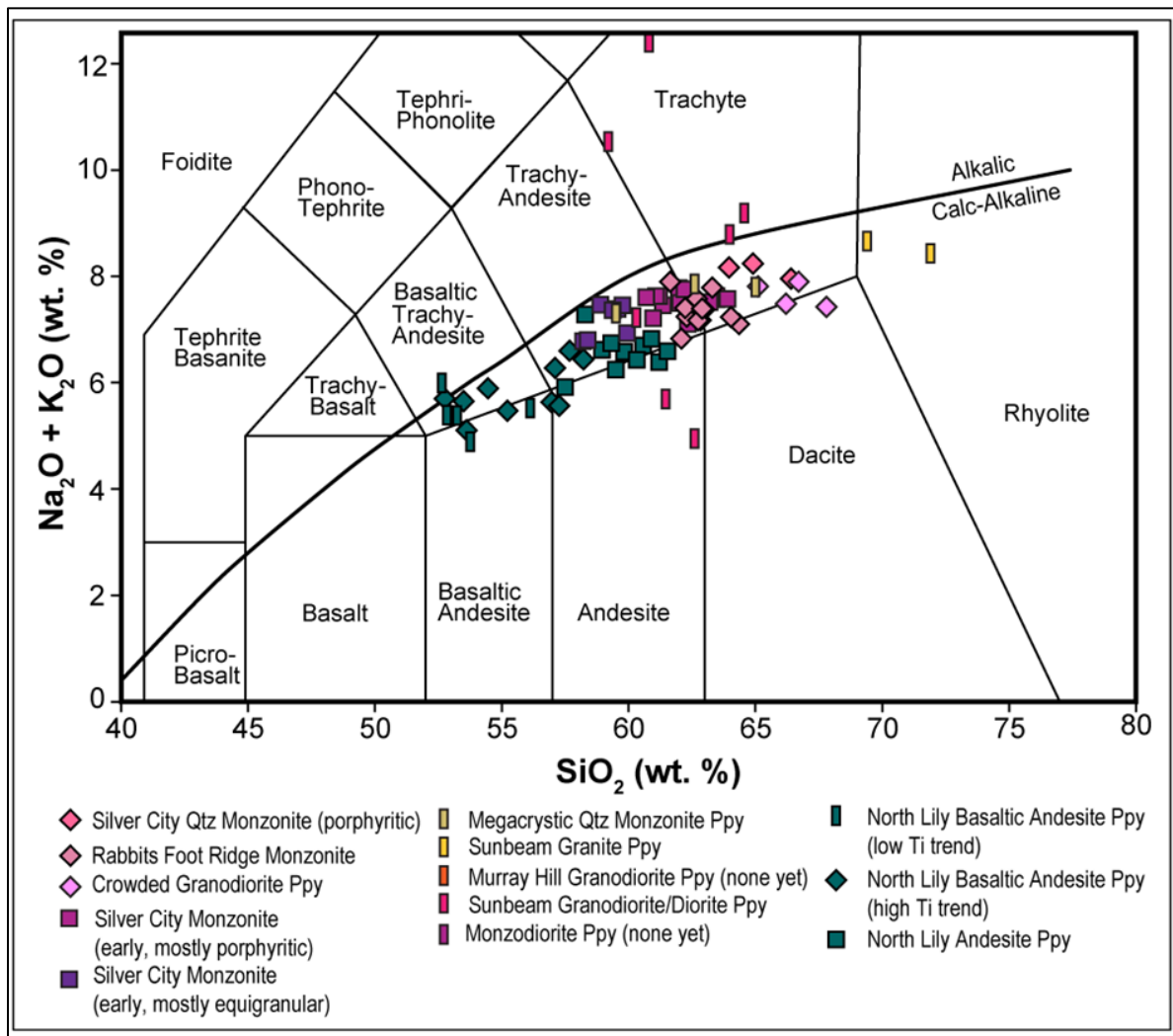


Source: HPX (2020)

Figure 9-10: Mo Values for Rock Grab Samples at Tintic

Whole Rock Geochemistry

A lithologically representative suite of unaltered to weakly altered igneous rocks were selected for whole rock litho-geochemistry to better classify the igneous phases. The geochemical results were then plotted in ioGAS™ using a variety of classification diagrams. In general, the intrusive rocks of the Silver City suite are high-K calc-alkaline to shoshonitic in composition (Figure 9-11). The Sunbeam Granodiorite Porphyry dikes (SGDP) data frequently plot as anomalous relative to the rest of the data because it has so far rarely been identified without alteration, and as such these may not be representative data. The volcanic rocks tend to be more K-rich than the plutonic phases and are broadly shoshonitic. Swansea Quartz Rhyolite (SQR) is notably much more siliceous than the other volcanic phases. The total alkali-silica (“TAS”) plot in Figure 9-11 below shows clear compositional groupings for the various intrusive and extrusive phases present in the East Tintic Mountains.

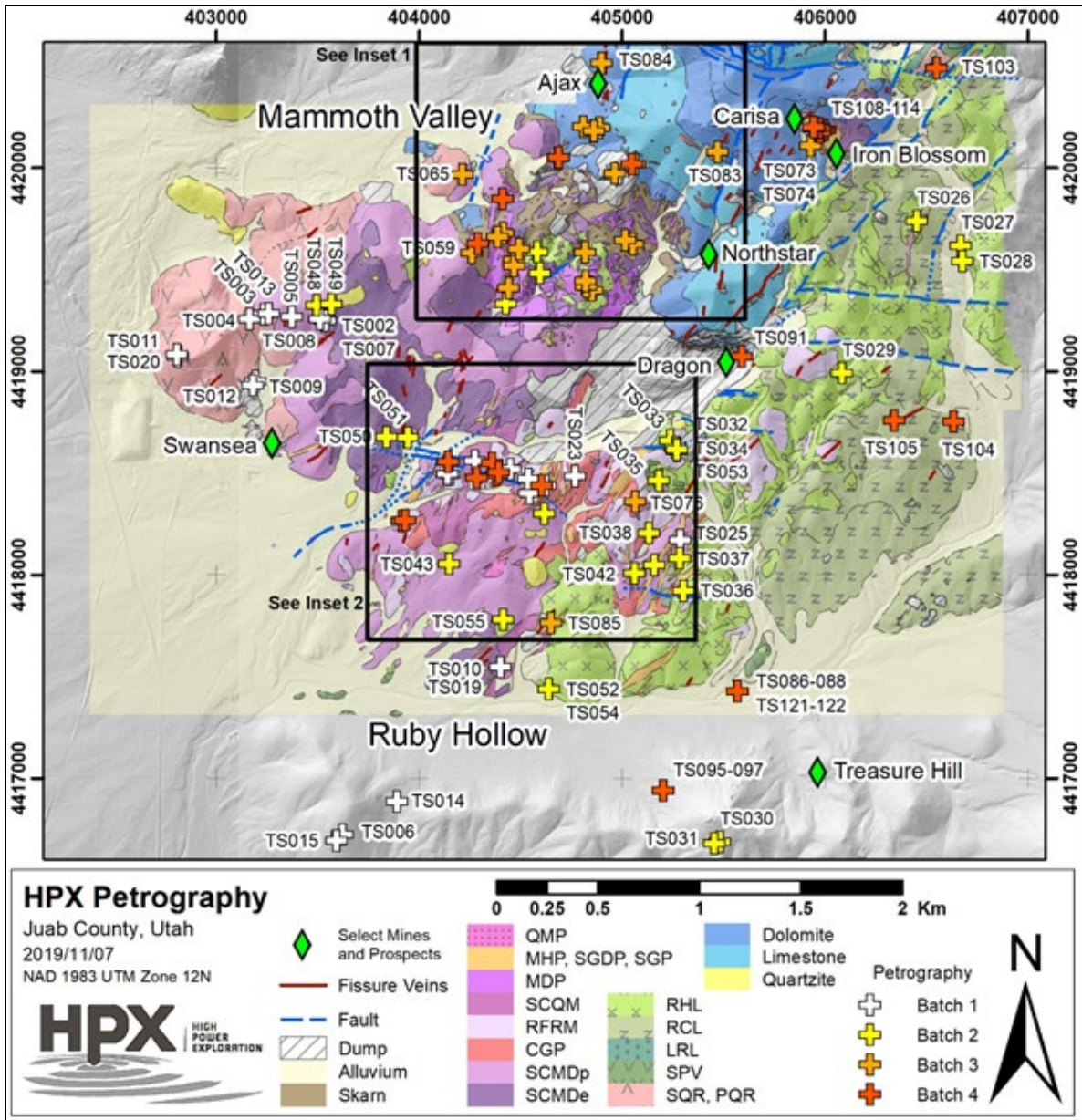


Source: After Le Maitre et al. (2002); includes data from Kim (1992), Moore (1993) and samples collected by HPX

Figure 9-11: Total Alkali-Silica (TAS) Diagram for Intrusive Rocks of the Tintic District

Petrography

A total of 122 samples from the mapping area were submitted for petrographic analysis to classify the igneous rocks, alteration assemblages, and skarn types observed in the mapping area (Figure 9-12). The petrography helped guide the mapping efforts and ascribed rock unit names were taken in part from the petrographic rock classifications. The petrographic samples were submitted to Paula Cornejo at Asesorías Geológicas y Mineralógicas in Santiago, Chile for both transmitted and reflected light petrographic analysis.



Source: HPX (2020)

Figure 9-12: Location of Petrographic Samples Collected from Surface and Drill Core on the Tintic Project by IVNE

Geochronology

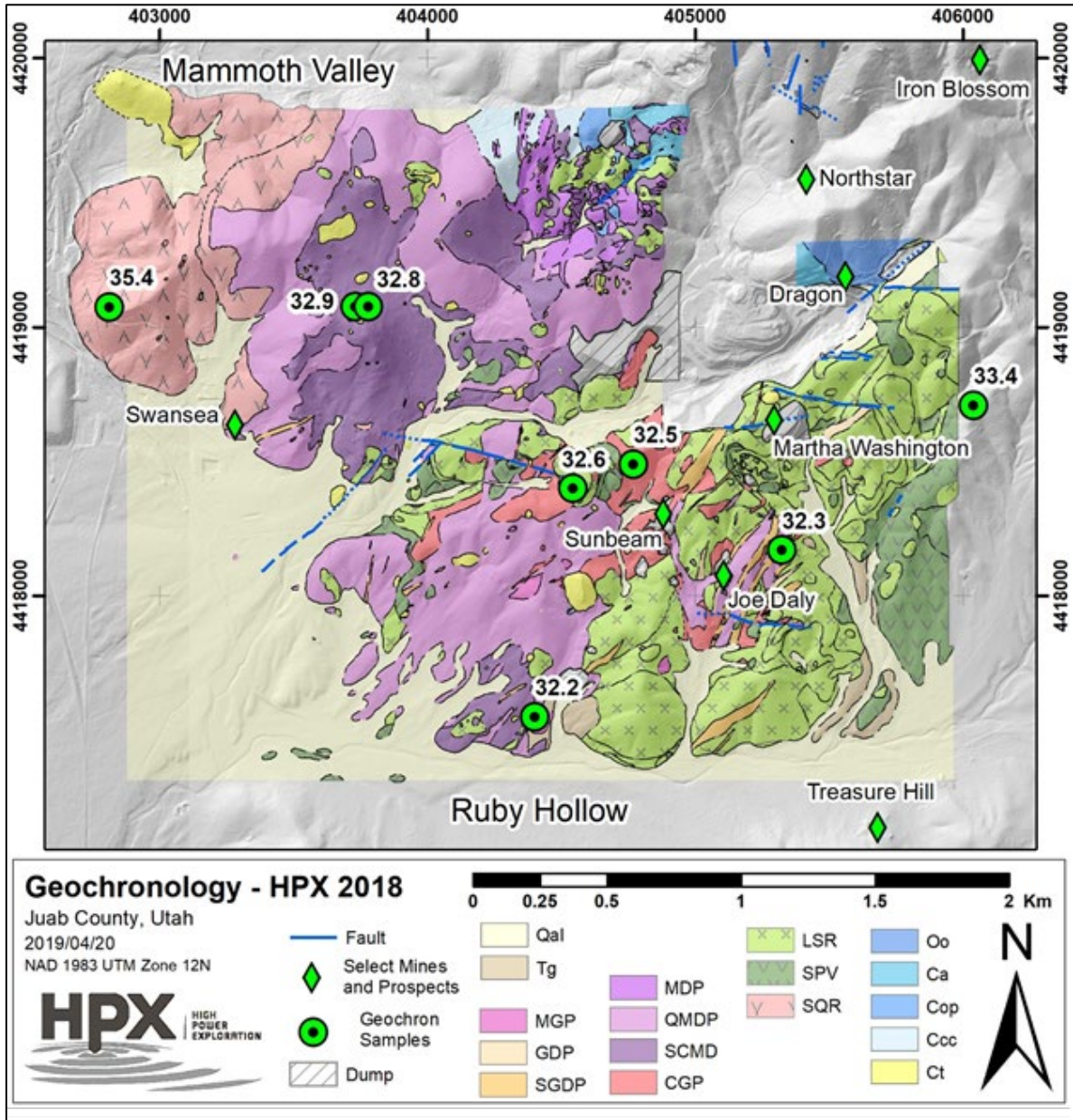
A suite of 12 samples from a variety of representative intrusive phases were submitted to Dr. Victor Valencia of ZirChron LLC for U-Pb age dating on zircons (Table 9-4). The samples were selected to provide geochronologic age constraints on some of the major intrusive phases observed in the multiphase Silver City intrusive complex (Figure 9-13). It should be noted that these samples were selected prior to the completion of the detailed 1:2,500 scale mapping and that subsequent intrusive phases have been identified which are not included in these data. These units are the Sunbeam Granite Porphyry (“SGP”) and the Murray Hill Quartz Granodiorite Porphyry (“MHP”) dikes which crosscut every unit they encounter, and the Monzodiorite Porphyry (“MDP”) which is only crosscut by the SGP in Skarn Valley.

The margin of error for the dates ranges from $\pm 400 - 800$ Ky, with one outlier in HPXGC008 at 1,300Ky, allowing for overlap between some samples. However, the calculated age date for these samples broadly reflects the observed crosscutting field relationships. Swansea Quartz Rhyolite (SQR, 35.4Ma ± 0.4) is clearly the oldest igneous phase in these data followed by the Sunrise Peak Stock (34.1Ma $+0.4 -0.8$) and the associated Sunrise Peak Volcanics (SPV, 33.4Ma $+0.4 -0.6$, 32.9Ma ± 0.5). The intrusive phases in the mapping area have clustered age dates with the oldest attributed to the Silver City Monzodiorite (SCMDe, 32.8Ma ± 0.4 and SCMDp, 32.3Ma $+1.3 -0.7$) and closely followed by the Sunbeam Granodiorite Porphyry dikes (SGDP, 32.6Ma $+0.6 -0.5$), Crowded Granodiorite Porphyry (CGP, 32.5Ma $+0.5 -0.4$), and finally the Megacrystic Quartz Monzonite Porphyry (QMP, 32.2Ma ± 0.4). These dates are well within each other’s margin for error, so the field observations which have SCMD as the oldest followed by CGP, RFRM, SCQM, MDP(?), SGDP, MHP(?), SGP, and finally QMP are still valid with these data. The U/Pb age dates from Silver City intrusive rocks show that this multiphase intrusion was emplaced over a relatively short 1 My time period, similar to the suite of intrusions that formed the Bingham porphyry deposit (Deino and Keith, 1997).

A paragenetic diagram of the various intrusive and extrusive igneous rocks observed in the Tintic District has been constructed based on IVNE age dates obtained during the 2018 field season, field mapping and observed crosscutting relationships, and a review of historical literature. In addition to the zircon ages measured by IVNE, many previously published Ar-Ar and K-Ar ages from a variety of minerals around the Tintic District are noted on the paragenetic diagram.

The Dragon and Blackjack halloysite deposits contain pods of massive white alunite intergrown with the halloysite clay and the spatial relationship of these two minerals suggests they were formed at the same time under similar conditions. These clays formed at the contact between Paleozoic carbonates and the Silver City intrusive complex where clusters of fissure veins cross the contact. Samples of massive alunite were collected from the Blackjack (HPX-AL01) and the Dragon (HPX-AL02) open pits and were sent to the New Mexico Tech geochronology laboratory for $^{40}\text{Ar}/^{39}\text{Ar}$ age dating. The samples yielded ages of 5.29 ± 0.04 Ma and 5.36 ± 0.03 Ma (Table 9-5).

The crystal form of the alunite from Dragon was found to be of the tabular ‘platy’ variety, which would point towards a high-T, highly acidic origin that could easily be attributable to a high sulphidation alteration event (Garcia et al., 2009). This is only one preliminary line of evidence towards the clay deposit being of hypogene origin.



Source: HPX (2020)

Figure 9-13: Locations of Samples Submitted for Geochronology. Age Dates are in Ma. Location of Sample HPXGC009 (34.1 Ma), ~4.5 km Southeast of Mapping Area, is not shown

Table 9-4: Tintic Project U/Pb Geochronology Results

| Rock Type | Lithology Code | Sample ID | Age (Ma) | (+) Error (Ma) | (-) Error (Ma) |
|--|----------------|-----------|----------|----------------|----------------|
| Megacrystic Quartz Monzonite Porphyry | QMP | HPXGC006 | 32.2 | 0.4 | 0.4 |
| Megacrystic QMP from SWT core | QMP | HPXGC011 | 32.2 | 0.4 | 0.4 |
| Silver City Monzodiorite - weakly porphyritic | SCMDp | HPXGC008 | 32.3 | 1.3 | 0.7 |
| Crowded Granodiorite Porphyry | CGP | HPXGC004 | 32.5 | 0.5 | 0.4 |
| Sunbeam Granodiorite Porphyry | SGDP | HPXGC003 | 32.6 | 0.6 | 0.5 |
| Silver City Monzodiorite - equigranular | SCMDe | HPXGC002 | 32.8 | 0.4 | 0.4 |
| Xenolith of Rabbit's Foot Ridge Monzonite Porphyry | RFRM | HPXGC001 | 32.9 | 0.5 | 0.5 |
| Weakly altered float of SGP dike cross cutting SCMDp | SGP | HPXGC012 | 33.0 | 0.5 | 0.3 |
| Rabbit's Foot Ridge Monzonite (RFRM) hornblende porphyry | RFRM | HPXGC010 | 33.2 | 0.4 | 0.4 |
| Sunrise Peak Volcanics | SPV | HPXGC007 | 33.4 | 0.4 | 0.6 |
| Sunrise Peak Stock | n/a | HPXGC009 | 34.1 | 0.4 | 0.8 |
| Swansea Quartz Rhyolite | SQR | HPXGC005 | 35.4 | 0.4 | 0.4 |

Source: HPX (2020)

Table 9-5: Tintic Project Ar/Ar Geochronology Results

| Mineral | Age Analysis | Steps | Age (Ma) | ±2σ | MSWD |
|---------|----------------|-----------------------------|----------|------|------|
| Alunite | Bulk Step-Heat | 7 | 5.29 | 0.04 | 2.93 |
| | | Integrated age 5.36±0.02 Ma | | | |

Source: HPX (2020)

9.3.3 Short-Wave Infrared Survey

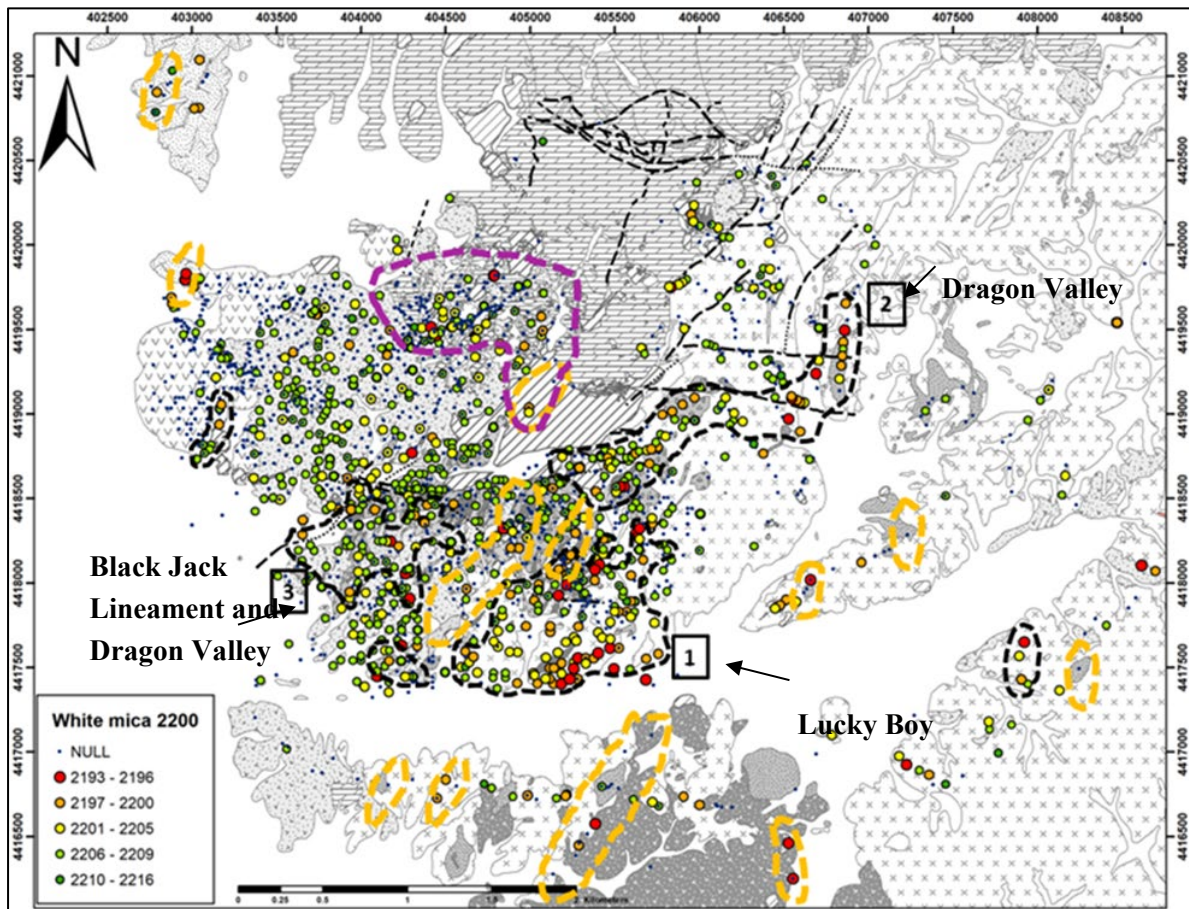
A Short-Wave Infrared (“SWIR”) spectroscopic study of surface rocks and historical drillhole core/chips was completed between 2018 and 2020 as part of an M.Sc. thesis at the Colorado School of Mines by Bonner (2020). The study focused on the Tintic Main and Southwest Districts and aimed to accurately map the distribution of phyllosilicate minerals related to hydrothermal alteration and identify zoning patterns in order to vector towards a potential causative intrusion. The research also included petrography, Scanning Electron Microscopy (“SEM”) using Back-Scattered Electron and Energy-Dispersive X-Ray Spectroscopy (“BSE-EDS”) and X-Ray Diffraction (“XRD”) analysis to verify SWIR mineral identifications and inferred mineral geochemical variations.

A handheld Terraspec HALO instrument was used to collect SWIR measurements from outcrop across the Silver City intrusive complex and some historical drilling. This instrument collects data on the reflectivity of hydrous minerals over a short wave and infrared spectrum which can then be correlated to a database to identify various mineral species.

A total of 3,046 measurements were collected across the Silver City intrusive complex at surface and 3,080 throughout drill core and chips (Figure 9-14). All 6,126 samples span a surface area of ~20 km² and a depth of over 980 m from 18 drillholes. The spectral study delineated white mica crystallinity gradients, used as a proxy for temperature, and spectrally-inferred geochemical variations of some minerals, such as Fe-Mg proportion in chlorite, Na-K proportion in alunite, and Na-K-(Fe ± Mg) proportions in sericite. These zoning patterns are used to vector to hydrothermal hotspots and identify relationships between clay speciation, igneous phases and metal distribution.

The research identified three high-temperature alteration zones at surface in the Silver City prospect area, as follows:

- Around the Lucky Boy prospect in the Ruby Hollow valley;
- Along the Dragon Valley fault, east of the Martha Washington mine; and
- At the intersection of the Dragon Valley fault and the Black Jack lineament.



Source: HPX (2020)

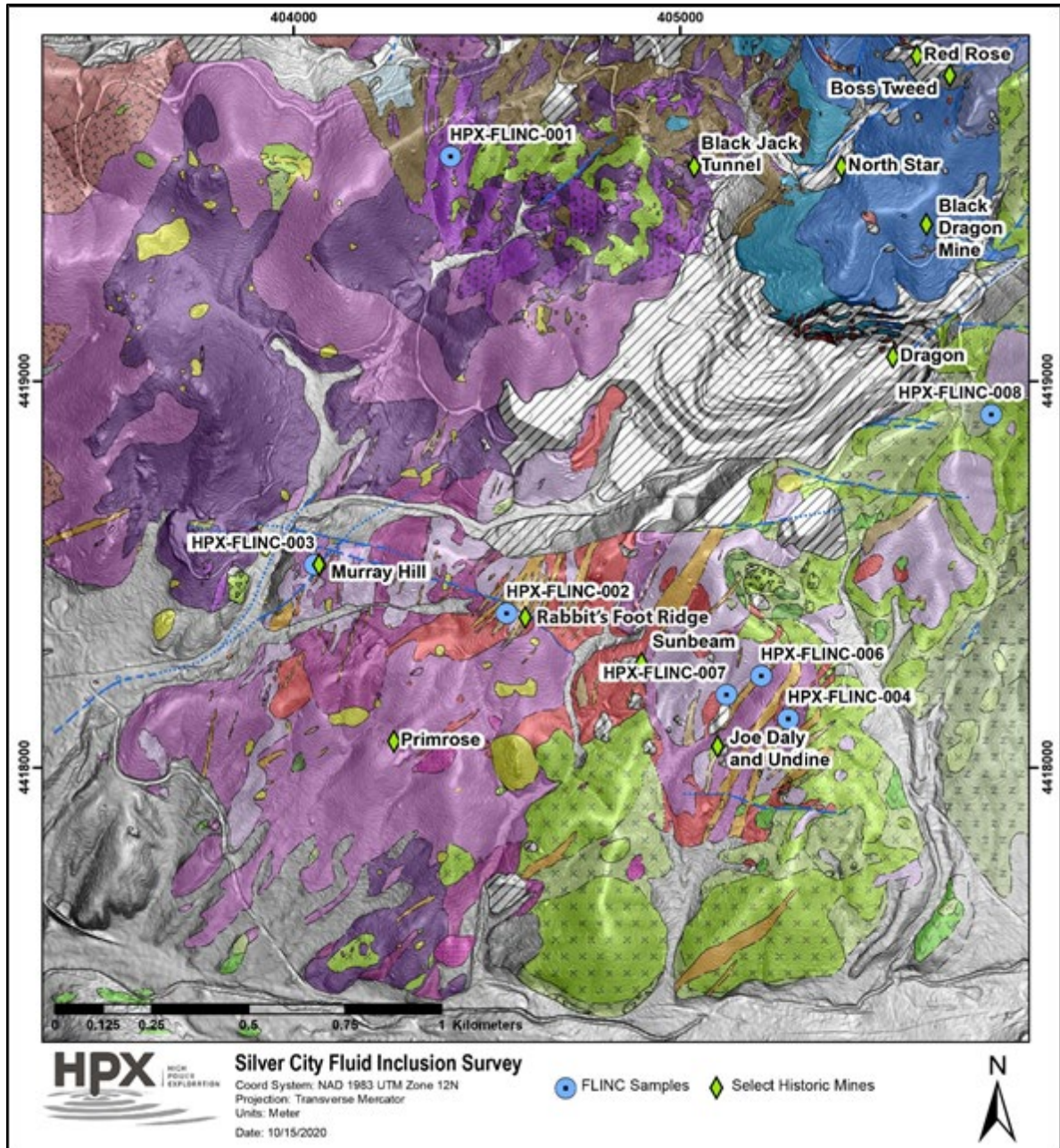
Figure 9-14: Distribution of the Wavelength Position of the White Mica Al-OH Spectral Absorption Feature at ~2200 nm

Note: Black dashed polygons outline high temperature zones consistent with low Al-OH values – inferring higher acidity of formation fluids; orange dashed polygons outline pyrophyllite-diaspore occurrences and trends, fairly consistent with high acidity; purple dashed polygon highlights retrograde skarn alteration associated with a small zone of high acidity.

The three zones are characterized by pervasive quartz-sericite-pyrite (“phyllitic”) alteration and moderate to high vein density, plus higher white mica crystallinity values and lower Al-OH values. They are interpreted to be zones where higher temperature and acidic hydrothermal fluids circulated, confirming previous hypotheses inferred by IVNE that these are possible porphyritic centres. These zones are coincident with outcropping porphyry dikes of the Silver City intrusive complex, anomalous soil geochemistry in Cu, Au, and Mo, and strong chargeability anomalies at depth.

9.3.4 Fluid Inclusion Studies

Eight quartz vein samples from the Silver City stock were submitted to Fluid Inc. (Reynolds, 2019) for fluid inclusion (“FLINC”) analysis (Figure 9-15). Study of quartz vein fluid inclusions allows for the approximate determination of pressure, temperature, and depth of vein formation and characterization of the style of vein as it relates to a porphyry or epithermal system. Monecke et al. (2018) lay a framework for interpreting quartz veins in porphyry systems based on silica solubility and vein classification (Gustafson and Hunt, 1975; Muntean and Einaudi, 2000; Monecke et al., 2018).



Source: HPX (2020)

Figure 9-15: Geologic Map Showing Fluid Inclusion Sample Locations at Tintic

Hedenquist et al. (1998) described the fluid inclusion characteristics existing between a porphyry Cu deposit and a high-sulphidation epithermal deposit. Above, but close to the causative porphyry pluton, vapor-filled inclusions are ubiquitous and predominate, but rare high-salinity inclusions can be found in samples collected closest to the pluton. Over an interval as small as a few hundred meters distance from the causative pluton, the high-salinity inclusions with the NaCl crystals decrease markedly in abundance, but the vapor-filled inclusions persist far above into the high-sulphidation alteration zones.

Fluids escaping a porphyry pluton can produce A, B and banded veins close to and above the pluton and fluid inclusions in these are dominantly vapour-filled (Hedenquist et al. 1998; Monecke et al. 2018). These vein types are observed at Tintic in this study, and such vein types are referred to as high-level A veins or high-level B veins, and banded type. Fluid inclusion characteristics in quartz of A veins are different depending on the relative depth of crystallization of the intrusion. A veins in deeper plutons contain only liquid-rich, two-phase inclusions, whereas the common occurrence of highly saline brine inclusions coexisting with vapor-rich inclusions (Figure 9-16) are found in A and B veins from within potassic zones in porphyry copper deposits associated with intermediate depth plutonism. The combination of high-salinity and vapor rich inclusions being ubiquitous in A and B veins (Figure 9-16) is the telltale indicator that a potassic zone of an intermediate to shallow pluton has been intersected.

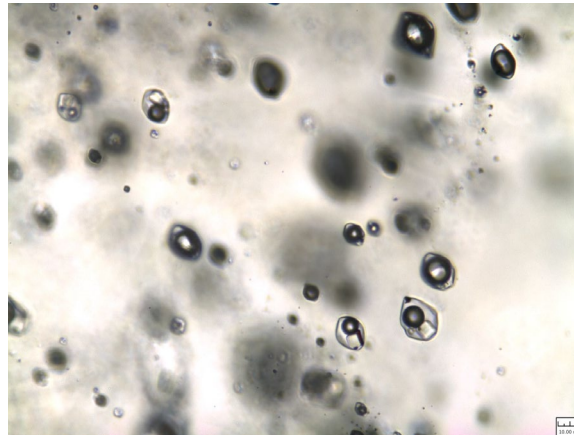


Figure 9-16: Fluid Inclusion Population in Quartz from an “A Vein” in the Core of a Potassic Zone in an Intermediate Depth Pluton Forming the Porphyry Copper Deposit at Santa Rita, NM, USA. High-Salinity Inclusions (those containing a crystal of halite) and Vapor-Rich Inclusions (those with a large dark vapor bubble) are Ubiquitous (Reynolds, 2019)

No classic A, B, C, or D porphyry quartz veins as described in Monecke et al. (2018) were observed in the eight Tintic samples. However, fluid inclusion petrographic evidence shows that the environment of formation for the veins is at levels above some causative intrusion that the magmatic fluids were derived from. Many samples contain quartz veining that would form above a causative pluton: banded veins (Monecke et al., 2018; Muntean and Einaudi, 2000), high-level A veins, and high-level B veins. A few samples have quartz that is commonly found as the latest quartz veining crossing any level of a porphyry system, commonly carrying base and/or precious metals. This is referred to as E quartz veining (Monecke et al., 2018) and these veins are likely related to late high sulphidation fissure veining.

No samples of the current submitted batch showed an inclusion population, though sample 007 was the closest: more high-salinity inclusions were found in what appears to be B vein quartz crosscut by sulfides in this sample. Most of the samples had experienced temperatures higher than 450°C early in their histories, which is likely why some remnant potassic-like alteration has been described for some of the samples. Porphyry plutons that exsolved the magmatic fluids must be below the levels where the samples were collected, neglecting possible structural offsets.

9.4 Historical Data Compilation

9.4.1 3D Geological and Infrastructure Model

IVNE has obtained geological and mining information in the form of historical maps, sections, drilling reports, drill logs and assay results reports. As a significant component of the exploration program and part of the re-evaluation of the District, historical mine workings and geological maps were georeferenced and digitized in 2D (ArcGIS) and then 3D (Leapfrog Geo™). Three-dimensional geological interpretations were derived from historical 2D plan maps and sections with geological interpretations on them, supplemented by IVNE detailed surface mapping data. The 3D geological interpretation was also supported by historical drilling (Section 9.4.2) and IVNE-collected geophysical data. The 3D geological model is kept up to date with any additional information that is made available. To date, over 8,700 historical maps have been scanned to PDF by IVNE and have been sorted by exploration potential area/region and scale. Of these, more than 500 maps and cross-sections were georeferenced and systematically digitized and incorporated into the 3D model.

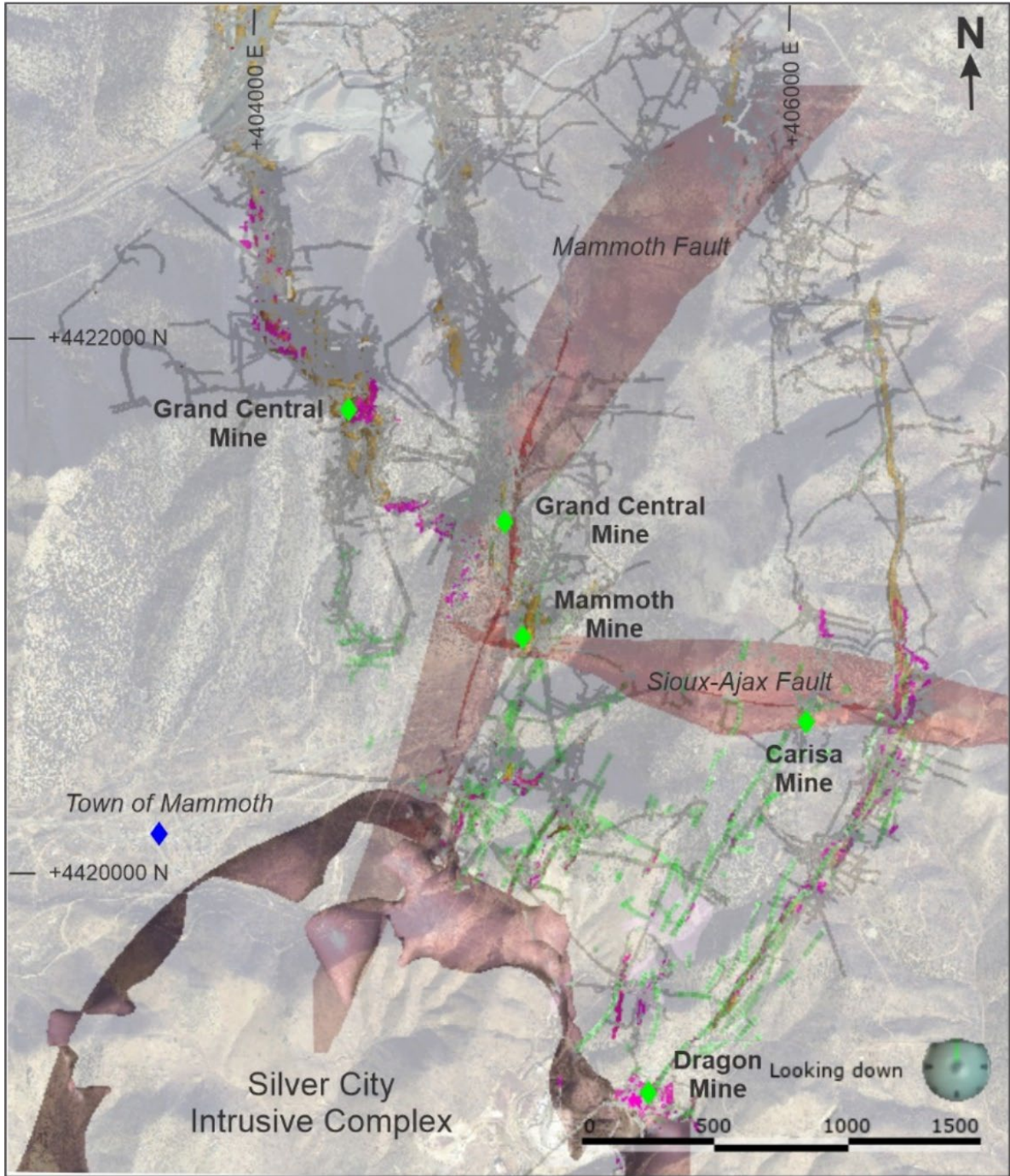
In order to ensure mine workings were correctly located in space, the IVNE team utilized both property boundaries on maps and the locations of four historical mine monuments (aka control points) for spatial reference (Figure 9-17). IVNE had the mine monuments professionally surveyed in order to ensure accuracy. In 2020, IVNE enlisted Focus Engineering and Surveying LLC of Midvale, Utah to complete a survey of a large portion of the Sioux-Ajax Tunnel. The final survey data were added to the 3D model and compared to the Sioux-Ajax Tunnel as modeled from historical maps. Estimates of offset between the two were approximately 3 m laterally and 5 m vertically. Variability in the position of some mine workings, depending on the scale from which they were digitized, can range from <5 m up to 25 m on average.

This historical data compilation program allowed for the 3D visualization of historical mine workings, previously mined mineralized structures, structural features, intrusive and extrusive rocks, and stratigraphy (Figure 9-18, Figure 9-19 and Figure 9-20). Structural features and favourable stratigraphic horizons that may host mineralization were assessed and exploration potential areas identified using the 3D model, combined with geophysical data, as a targeting tool. Mineralization targets include extensions of known, previously mined 'ore runs' (laterally and to depth); newly identified mineralized zones and breccia bodies; possible porphyry intrusions; and possible hydrothermal fluid flow pathways.



Source: photo courtesy of IVNE

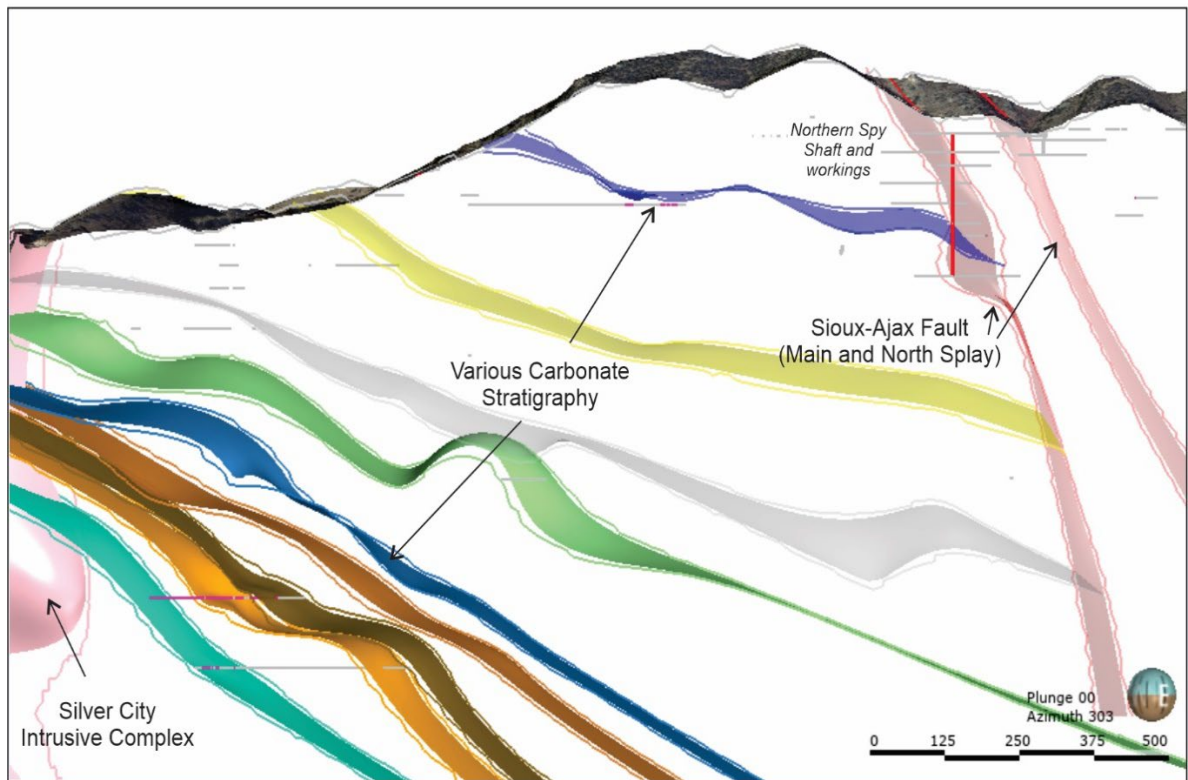
Figure 9-17: Historical Mineral Monuments in the Silver City Area and at the Mammoth Mine



Source: HPX (2020)

Figure 9-18: Image Showing 3D Workings (grey) relative to the Silver City Intrusive Complex (pink surface), Individual Fissure Veins (green), Stopes (pink) and Modeled Historical 'Ore Runs' (orange surfaces) for the Tintic District

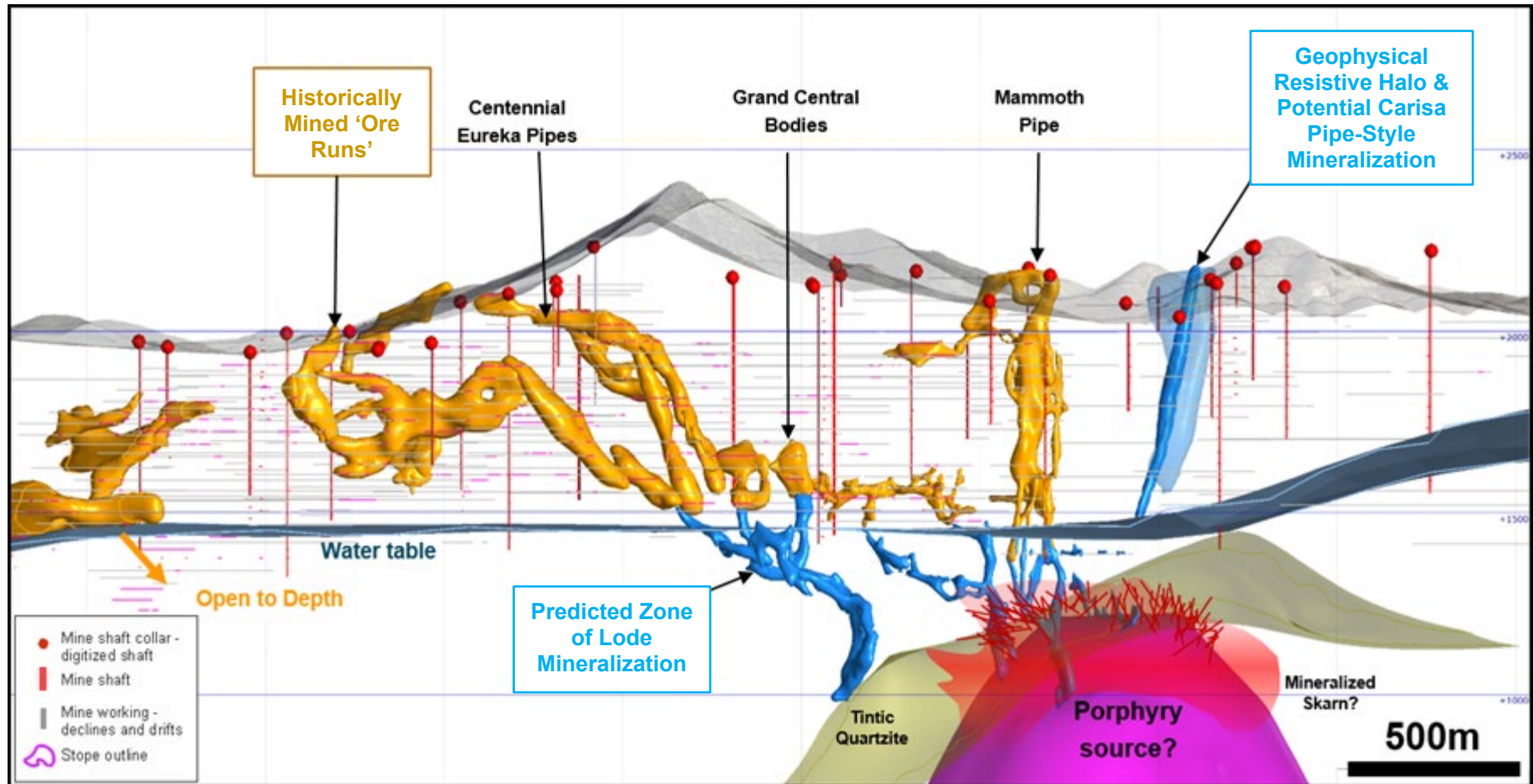
Note: The region shown in this image is approximately 60 km².



Source: HPX (2020)

Figure 9-19: Cross-section through 3D Model Showing Carbonate Stratigraphy (varied colors) relative to the Silver City Intrusive Complex (pink) and the E-W Trending Sioux-Ajax Fault (red), looking NE

Note: Faults, intrusive boundary and stratigraphy modeled based on surface geological maps (both historical and recent), cross-sections and historical 2D geological maps created at each mine level plan.



Source: HPX (2020)

Figure 9-20: Tintic District Schematic Cross-section Showing Mine Infrastructure, Modeled Historically Mined 'Ore Runs', and Interpreted Lode (Blue), Skarn (Red) and Porphyry (magenta) Exploration Potential Areas. While Mining Stopped at the Water Table, the Historically Mined Mineralization Most Likely Continues to Depth

9.4.2 Drillhole Database Compilation

IVNE has compiled a drillhole database from over 125 years of exploration and development operations in the Tintic District by dozens of historical operators. Early exploration efforts primarily utilized primitive surface methods (pick and shovel), exploration drifts and shafts to locate mineralization, with negligible exploration drill data. However, the more modern exploration programs undertaken from the 1950's onwards provide valuable drillhole data that have been integrated into the current database (HPX, 2020). A total of 489 drillholes were completed historically on the Tintic Project by several operators, with a combined length of at least 72,212 m, however not all of the details are available.

The current IVNE database contains known collar locations for 442 diamond, reverse circulation ("RC"), and rotary air blast ("RAB") drillholes totaling approximately 72,212 m. The accuracy and certainty of collar locations are variable, due to the many sources of information. Some collar coordinates were derived from georeferenced maps and figures, abandoned mine-grid translations and state UPC geographical, un-projected references, each of which have uncertainties attached to them regarding their positions. 47 holes have collar locations recorded in undocumented or unknown mine-grid datums and will be added to the database when their locations can be deduced. 193 drillholes are collared on the Applied Minerals "Dragon" halloysite mine property (12,635 m total), and consist primarily of geotechnical, geological, and mineral data pertinent to the clay and iron-oxide mining operations there (HPX, 2020). Additional information about the historical drilling programs is provided in Table 6-3. It is Mr. Deiss' opinion that drillhole positions be treated with caution when utilized for geological modelling, due to the varied level of accuracy. However, they can be utilized for regional scale geological modelling, which IVNE has completed in Leapfrog Geo™.

Assay results have been compiled from 221 drillholes across the Tintic District. Records of analytical methods for assay data are limited and the assay database consists of variable element analyses; these range from comprehensive 43 element ICP-MS data from analyses performed on drillhole core from the Big Hill diamond drillhole program conducted from 2008 to 2014 in the East Tintic sub-district, to Cu-Au only results from RC drilling in the Treasure Hill area (HPX, 2020). In Mr. Deiss' opinion, historical drillhole analytical results should be treated with caution and only utilized for indicative purposes until twin drilling is completed to verify position, orientation and grade, as no supporting QA/QC information is available for the respective drillholes.

In October 2019, IVNE completed a one-week handheld X-ray fluorescence (XRF) sample analysis verification program of 2,200 historical coarse rejects, percussion chips, and pulps from 15 historical drillholes. Each XRF measurement taken was done in a controlled and isolated environment to prevent radiation exposure. This exercise allowed for a direct comparison to the historical results. However, there will be conditional bias with chip sample results as they are not homogenized. This was evident in the results as the chips performed poorly in the duplicate tests (HPX, 2020).

It is Mr. Deiss' opinion that these results should not be utilized in the definition of any exploration potential areas as the samples were not homogenized.

9.5 Sioux-Ajax Mapping and Geochemical Sampling

Detailed mapping and rock chip grab sampling for geochemical analysis were conducted in the Sioux-Ajax Tunnel during the winter and spring of 2021. The goal of this work was to constrain the structural, stratigraphic, and geochemical signature that is associated with CRD deposits and fissure vein systems along the Sioux-Ajax Fault Zone and integrate legacy data with recent mapping data. Detailed geological mapping data collected during this program included lithology, hydrothermal alteration, and structural orientations. The geological mapping data were applied to generate cross-sectional interpretations of structure and stratigraphy in the Tintic Main District. Rock chip samples were collected from the ribs (sides) of the Tunnel at variable spacing to represent changes in lithology and alteration. Samples were analyzed for multi-element composition and gold fire assay, as described in Section 11.2. Geochemical results were plotted on geologic maps and subjected to spatial data analysis by lithological and hydrothermal alteration type to identify areas for future exploration.

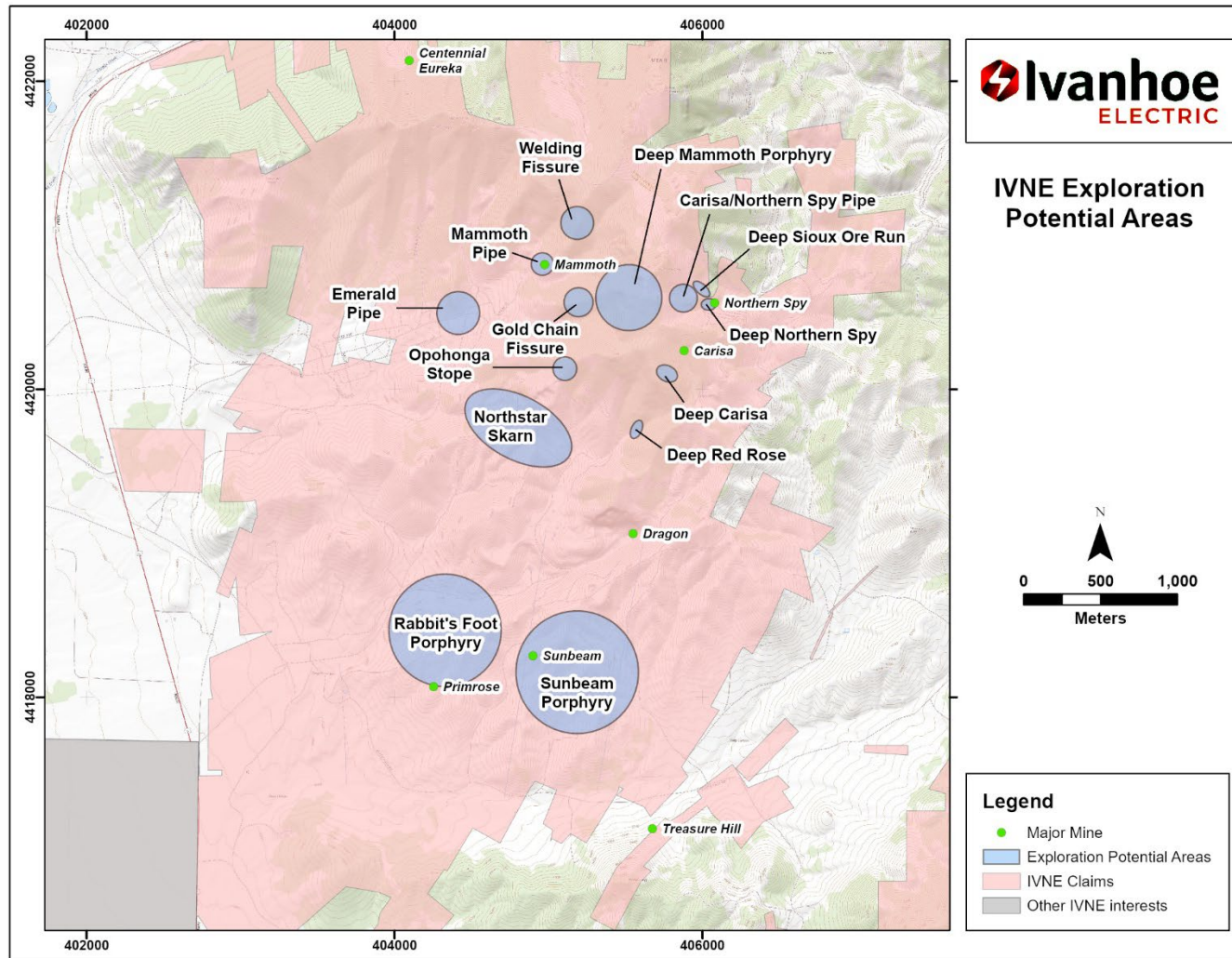
9.6 Significant Results and Interpretation - Exploration Potential Areas

Sections 9.1 through 9.4 detail all the work that went into identifying robust CRD and porphyry exploration potential areas at Tintic. Table 9-6 and Figure 9-21 summarize the CRD and porphyry exploration potential areas and a single skarn exploration potential area as identified by IVNE. The relative priority of the areas is also shown in Table 9-6.

Table 9-6: Summary of Exploration Potential Areas Identified on the Tintic Project as a Result of Work by IVNE

| Exploration Potential Area Type | Name | Host Formation | Comment | Priority |
|--|--------------------------|--------------------|--|----------|
| CRD – Historically Mined ‘Ore Run’ Extensions | Carisa | Ajax Dolomite | Extension to depth of known mineralization | Medium |
| | Northern Spy | Ajax Dolomite | Extension to depth of known mineralization | Medium |
| | Sioux | Bluebell Dolomite | Extension to depth of known mineralization | Low |
| | Red Rose | Ajax Dolomite | Extension to depth of known mineralization | Medium |
| | Gold Chain Fissure | Ajax Dolomite | Northeast extension of known mineralization to the Sioux-Ajax Fault | Low |
| | Welding Fissure | Bluebell Dolomite | Northeast extension of known mineralization at Mammoth Pipe and southern extension of Plutus ‘Ore Run’ | Low |
| CRD – Breccia Pipes | Carisa/Northern Spy Pipe | Various carbonates | Where prospective host units intersect the Sioux-Ajax Fault | High |
| | Ophonga Stope | Various carbonates | Extension to surface of identified mineralized breccia pipe | Medium |
| | Mammoth Pipe | Various carbonates | Extension to depth below water table | Medium |
| | Emerald Pipe | Various carbonates | Identify new mineralized pipe | Medium |
| Porphyry | Rabbit’s Foot | Silver City Stock | Geophysical anomaly below known mineralization on major structure | High |
| | Sunbeam | Silver City Stock | Surface geochemistry, alteration, geophysical anomaly below known mineralization | High |
| | Deep Mammoth | Unknown | Deep geophysical anomaly below known mineralization on major structure | High |
| Skarn | Northstar | Various | Skarn mineralization adjacent to the Silver City intrusives | Low |

Source: HPX (2020)



Source: IVNE (2021)

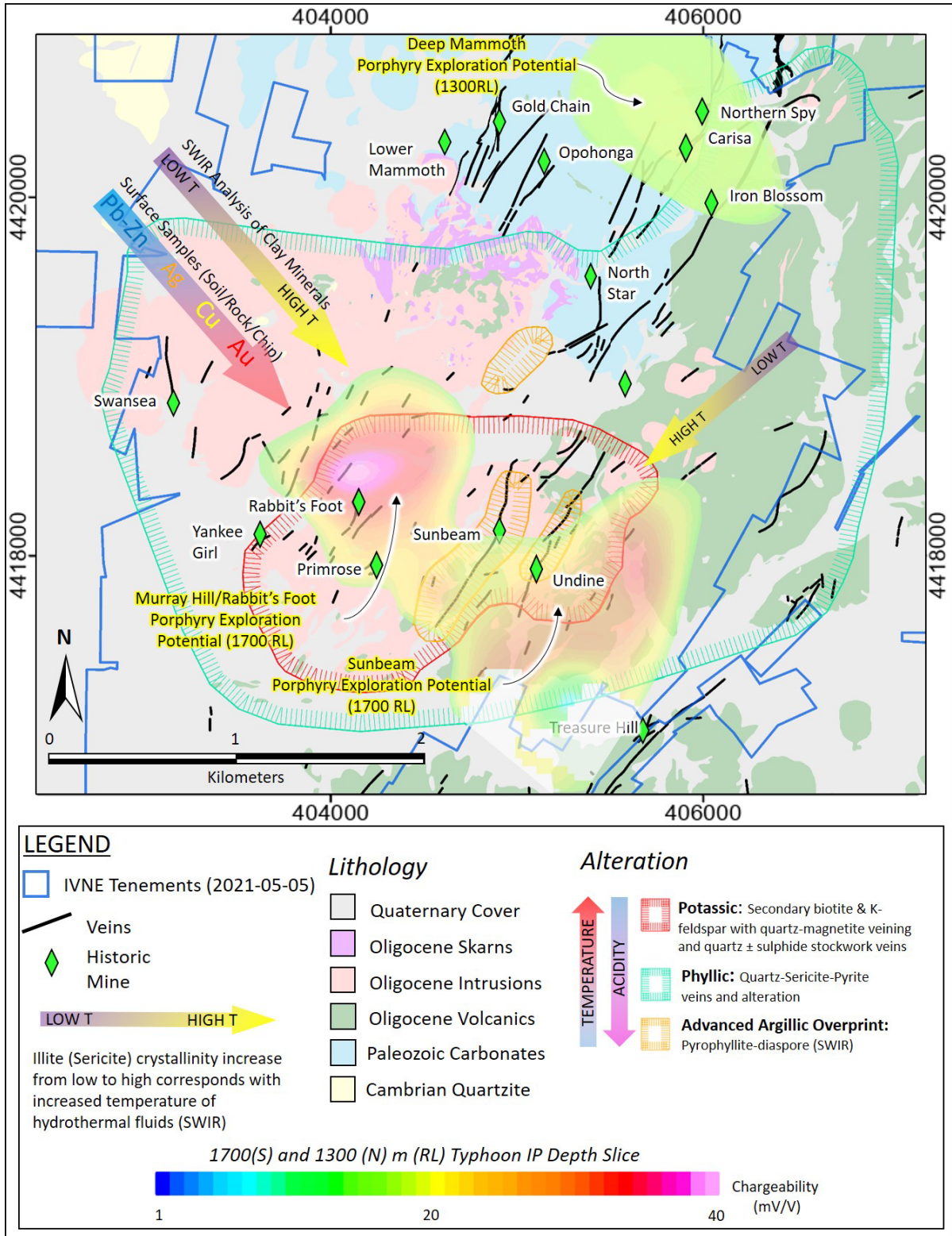
Figure 9-21: Exploration Potential Area Localities

9.6.1 Porphyry Exploration Potential Areas

The Silver City intrusive complex is the focus of mineralizing fluids for the Tintic Mining District and is highly prospective for buried porphyry-style mineralization at depth. The multiphase intrusive stock displays a similar intrusive history and composition to the Bingham, Stockton, and SWT porphyries. Detailed geologic mapping (Section 9.2) has discerned at least eight intrusive phases that become progressively more porphyritic with time and that are all crosscut by porphyry-style hydrothermal alteration and veining that is coincident with anomalous Cu-Au-Mo concentrations in soils (Section 9.3.1). Illite crystallinity displays a clear vector towards a central heat source in the core of the Silver City complex (Section 9.3.3), a trend which is also supported by fluid inclusion survey data (Section 9.3.4). The fluid inclusion survey has identified vapor dominated and moderately saline inclusions in the Rabbit's Foot and Sunbeam-Joe Undine areas. These types of inclusions form above a causative porphyry intrusion from high temperature (>450 °C) magmatic fluids intersecting the vapor + NaCl stability region of the H₂O-NaCl system. Deep-penetrating ground IP data have discerned a large chargeability anomaly coincident with the above-mentioned anomalies (Section 9.1.2).

These data provide several lines of geological evidence for the presence of at least one large porphyry center in the Silver City stock and two principal porphyry exploration potential areas have been identified at Rabbit's Foot Hill and below the past producing Sunbeam Mine. Additionally, the deep penetrating ground IP survey data have yielded a third porphyry exploration potential area below the past producing Mammoth breccia pipe to the north of the Silver City stock.

Figure 9-22 summarizes the geological, geophysical and geochemical data across the Silver City intrusive complex and highlights the three porphyry exploration potential areas. Figure 8-2 shows a schematic section through the Silver City intrusive complex indicating the interpreted position of a postulated porphyry center in relation to the Main Tintic District (Kerr and Hanneman, 2020a).



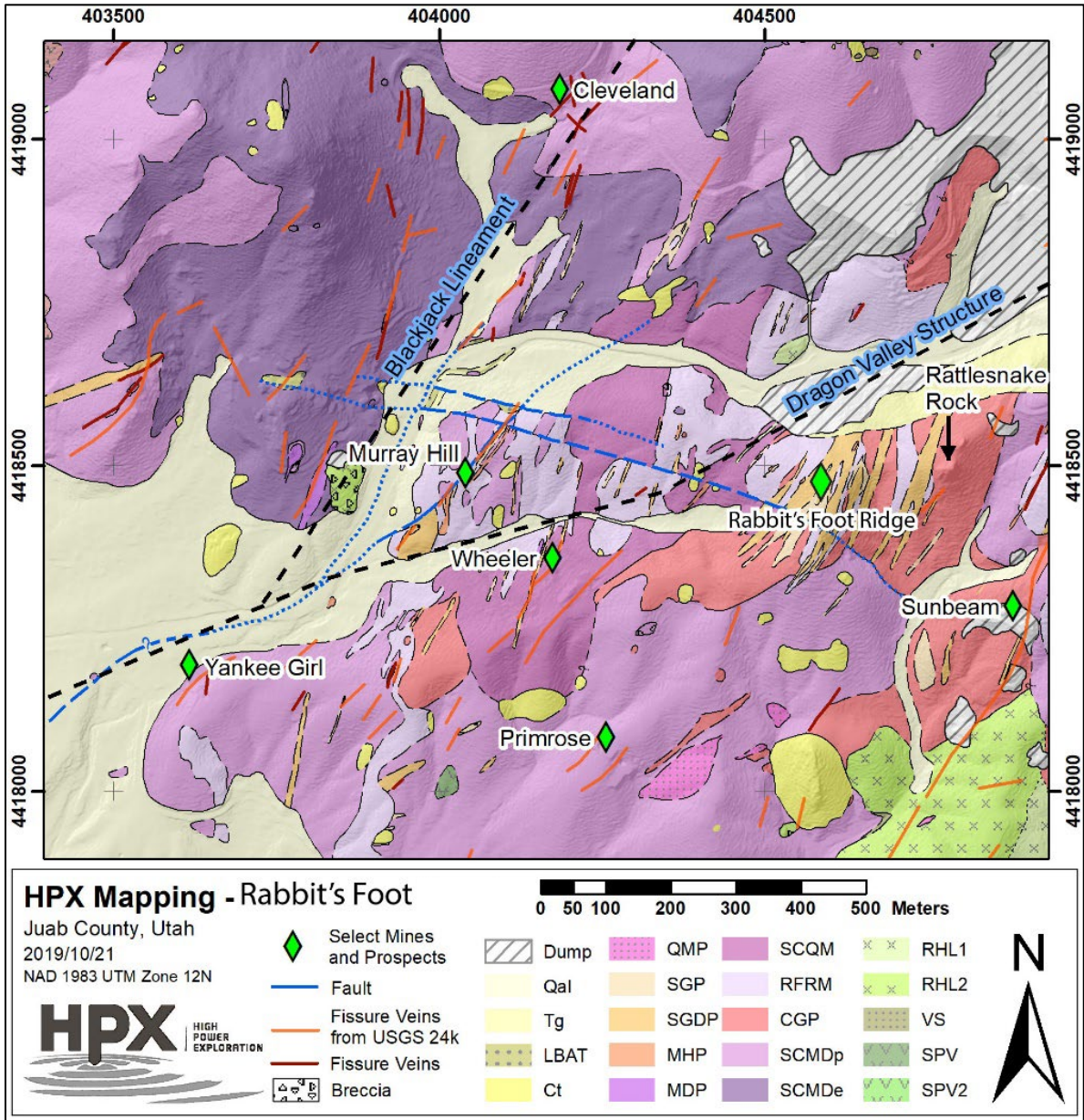
Source: HPX (2020)

Figure 9-22: Geological Summary Diagram of Geophysical, Geochemical, and Alteration Data across the Silver City Stock. Several Independent Datasets Display a Coincident Convergence at the Rabbit's Foot and Sunbeam Areas

Rabbit's Foot Porphyry Exploration Potential Area

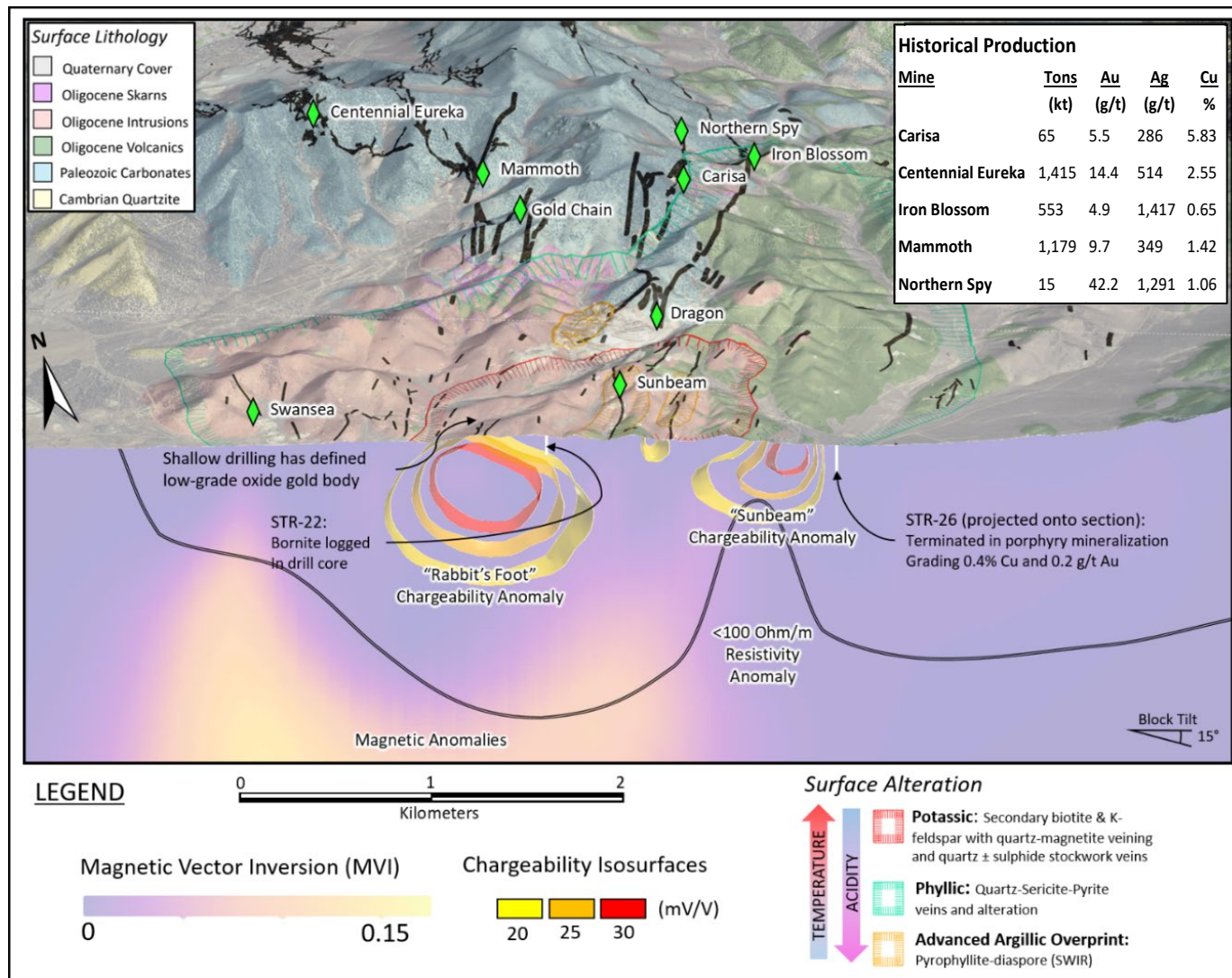
The Rabbit's Foot porphyry exploration potential area is located at the intersection of the EW trending Dragon structure and the NNE trending Blackjack-Mammoth structure (Figure 9-23). Several prominent CRD 'ore runs' and fissure veins coalesce in this area and several of the historical mines, although small in scale, produced high-grade copper, gold, and anecdotally one mine produced some molybdenum. Historical mines in this area include the Murray Hill shafts, the Rabbit's Foot Mine, the Rabbit's Foot Ridge Au Prospect, and the Yankee Girl Mine which were active from roughly 1870 - 1900. At surface, this area falls within a zone of strongly anomalous Cu-Au-Mo soil geochemistry (Kerr and Hanneman, 2020a).

This area is underlain by a strong chargeability anomaly at ~250 m depth, which increases in size down to 450 m depth, coalescing with a conductive zone at ~650 m depth (Figure 9-24). The Rabbit's Foot area is crosscut by stockwork A-quartz veins and the igneous host rock has been pervasively altered to K-feldspar (potassic alteration). A shallow rotary drillhole on Rabbit's Foot ridge, hole STR-22, drilled into the potassic-altered zone of quartz stockwork veins and intersected disseminated bornite in the last ~23 m of drilling. The extent of potassic alteration on Rabbit's Foot ridge is limited in lateral extent, and this likely reflects an upflow zone of porphyry-related hydrothermal fluids. A fluid inclusion survey of the stockwork quartz veins has identified ubiquitous vapor-filled inclusions with rare NaCl inclusions. These veins formed from the intersection of magmatic fluids with the Vapor + NaCl stability region of the H₂O-NaCl system. Generally, such veins form at the point of vapor flashing during high level ascent above a porphyry system in an area between the porphyry and overlying high-sulphidation system. The causative pluton might be intersected within 500 m, neglecting potential structural offsets, which is in line with the modeled depth of the chargeability and conductivity anomalies (Kerr and Hanneman, 2020a).



Source: HPX (2020)

Figure 9-23: Geologic Map of the Rabbit's Foot Porphyry Exploration Potential Area



Source: HPX (2020); Historic production figures after Centurion Mines (1996 and 1997) and Forster, Boyd and Ramirez (2017)

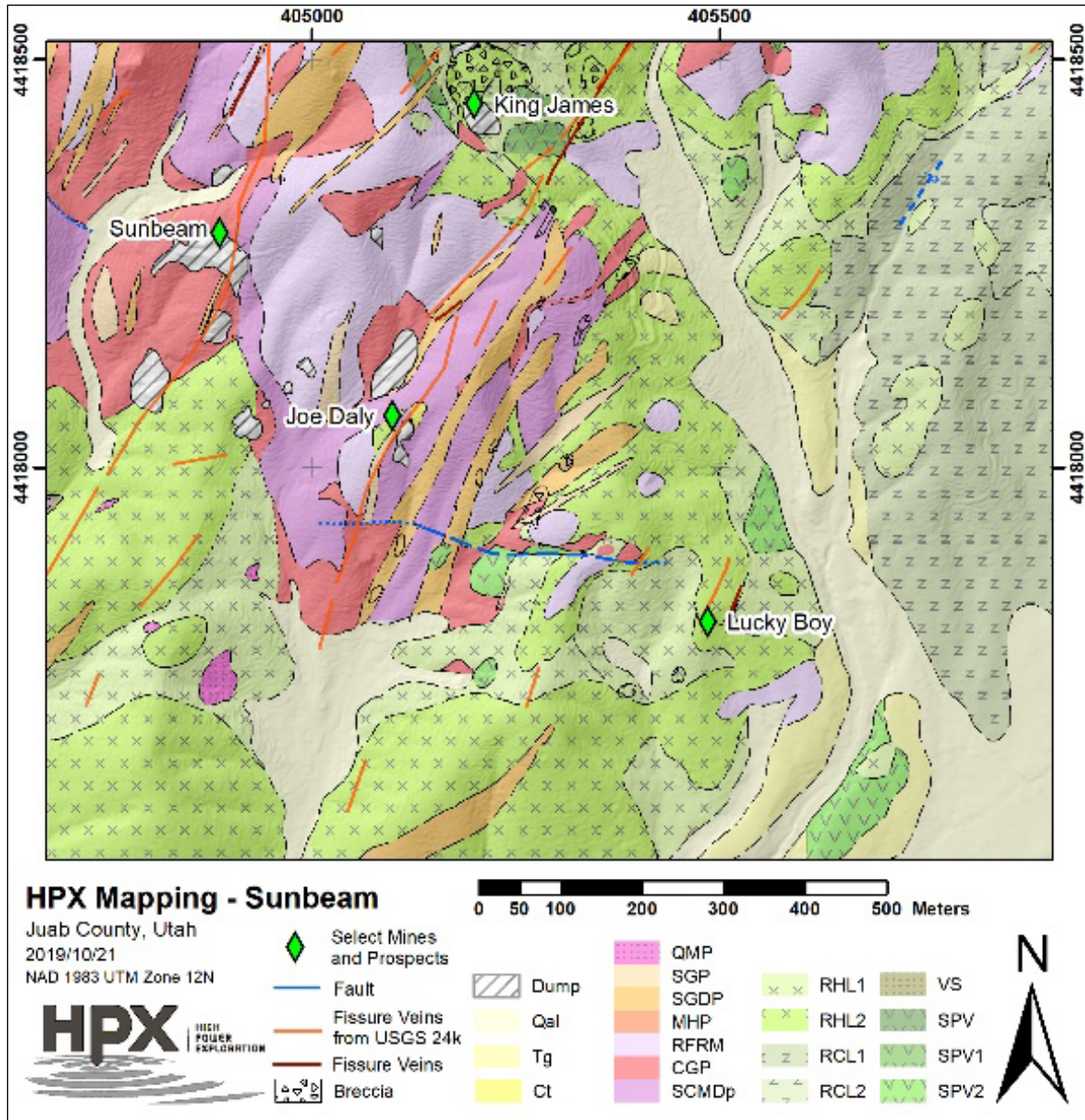
Figure 9-24: Geophysical Cross-section through Rabbit's Foot and Sunbeam Porphyry Exploration Potential Areas looking Northeast

Sunbeam Porphyry Exploration Potential Areas

The Sunbeam porphyry exploration potential area is located below the past producing Sunbeam and Joe-Undine high-sulphidation fissure vein mines. The fissure veins in this area likely reflect late thermal collapse of an underlying porphyry system as they crosscut zones of earlier potassic alteration and A vein quartz stockwork. A fluid inclusion study of the stockwork quartz veining in the Sunbeam exploration potential area identified them as high-level A and B veins above the core of a porphyry system (Kerr and Hanneman, 2020a).

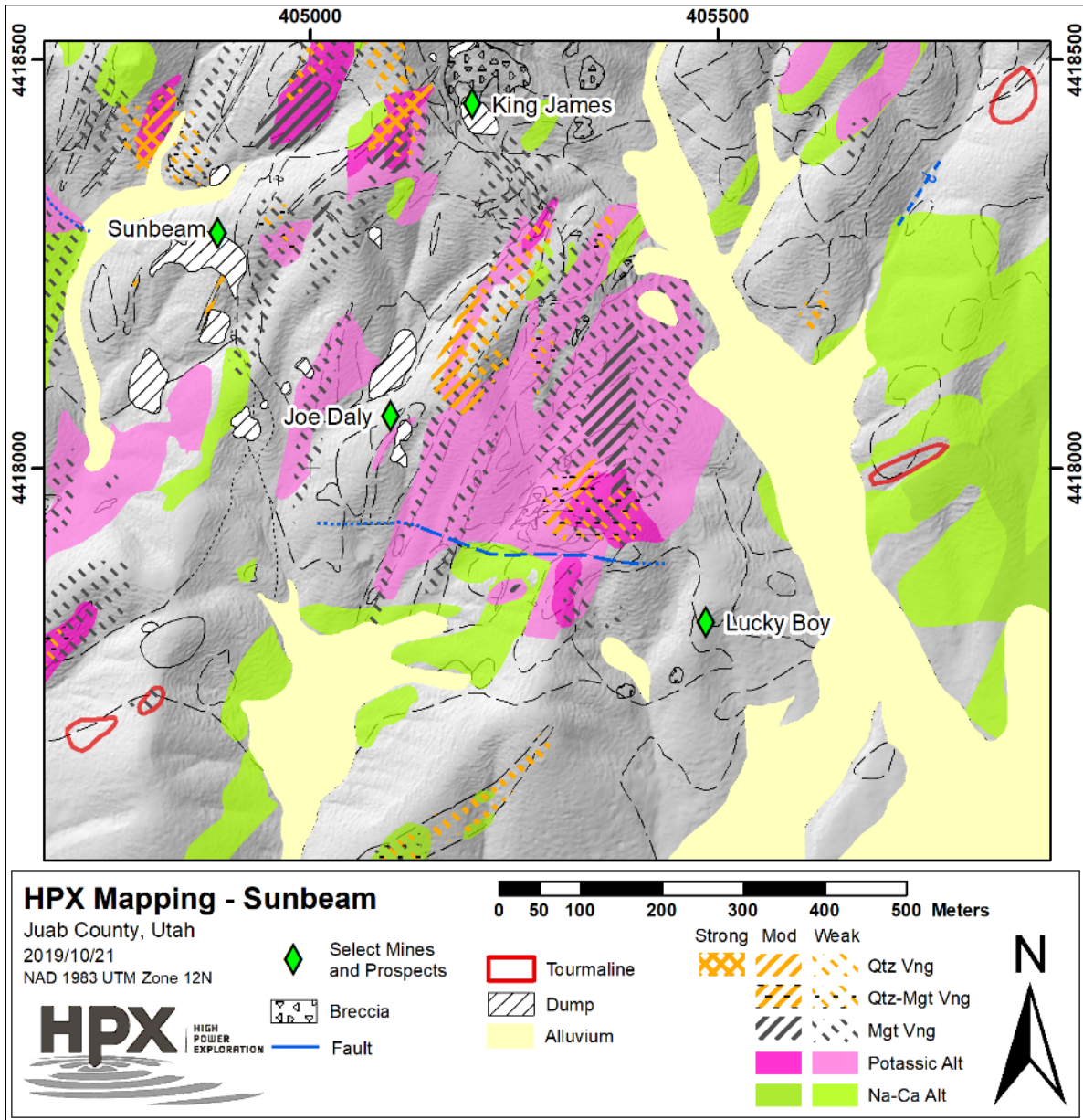
Weakly mineralized potassic altered intrusive rock with disseminated chalcopyrite has been observed in the King James mine dumps just north of the Joe Daly and Undine mine area (Figure 9-25). This is evidence in support of an early mineralized and potassic altered porphyry system active in this area, which has subsequently been overprinted by later high-sulphidation and advanced argillic alteration as shown in Figure 9-26. The Sunbeam area has been a focus of interest from the beginning of the IVNE mapping campaign due to coincident Cu-Au mineralization along the Sunbeam fissure, nearby porphyry-style potassic alteration and quartz veining in porphyritic rocks, strong phyllic alteration and quartz-sericite-pyrite (“QSP”) veining, and Cu-Au-Mo geochemical anomaly in soils at surface (Kerr and Hanneman, 2020a).

The Sunbeam exploration potential area is crosscut by several generations of ~NS trending porphyritic dikes that are variably phyllic and potassic (phlogopite) altered. Potassic alteration in the Sunbeam area is focused in and around the porphyry dikes and alteration is associated with narrow A-type quartz ± magnetite and magnetite veining (Figure 9-26). A Cu-Au-Mo soil geochemical anomaly is centered on the most significant part of this alteration zone east of Joe Undine and along the NNE-trending Sunbeam fissure vein. Widespread phyllic alteration predominantly occurs in the volcanic rocks and the CGP around QSP veins along the historically exploited fissure veins. Some of the strongest QSP veining and phyllic alteration is present in volcanic rocks on surface at the Lucky Boy Mine, and it arcs to the northeast and west-southwest with intermittent tourmaline alteration. Together these phyllic alteration zones encircle the potassic alteration, quartz and magnetite veining, and geochemical anomalies east of Joe Undine. Drillhole STR-26 ended in confirmed porphyry mineralisation grading 0.4% Cu (chalcopyrite) and 0.2 g/t Au with phlogopite alteration. This hole was collared just outside of the primary chargeability anomaly and it just grazed the edge of the porphyry system (Kerr and Hanneman, 2020a).



Source: HPX (2020)

Figure 9-25: Geologic Map of the Sunbeam Porphyry Exploration Potential Area

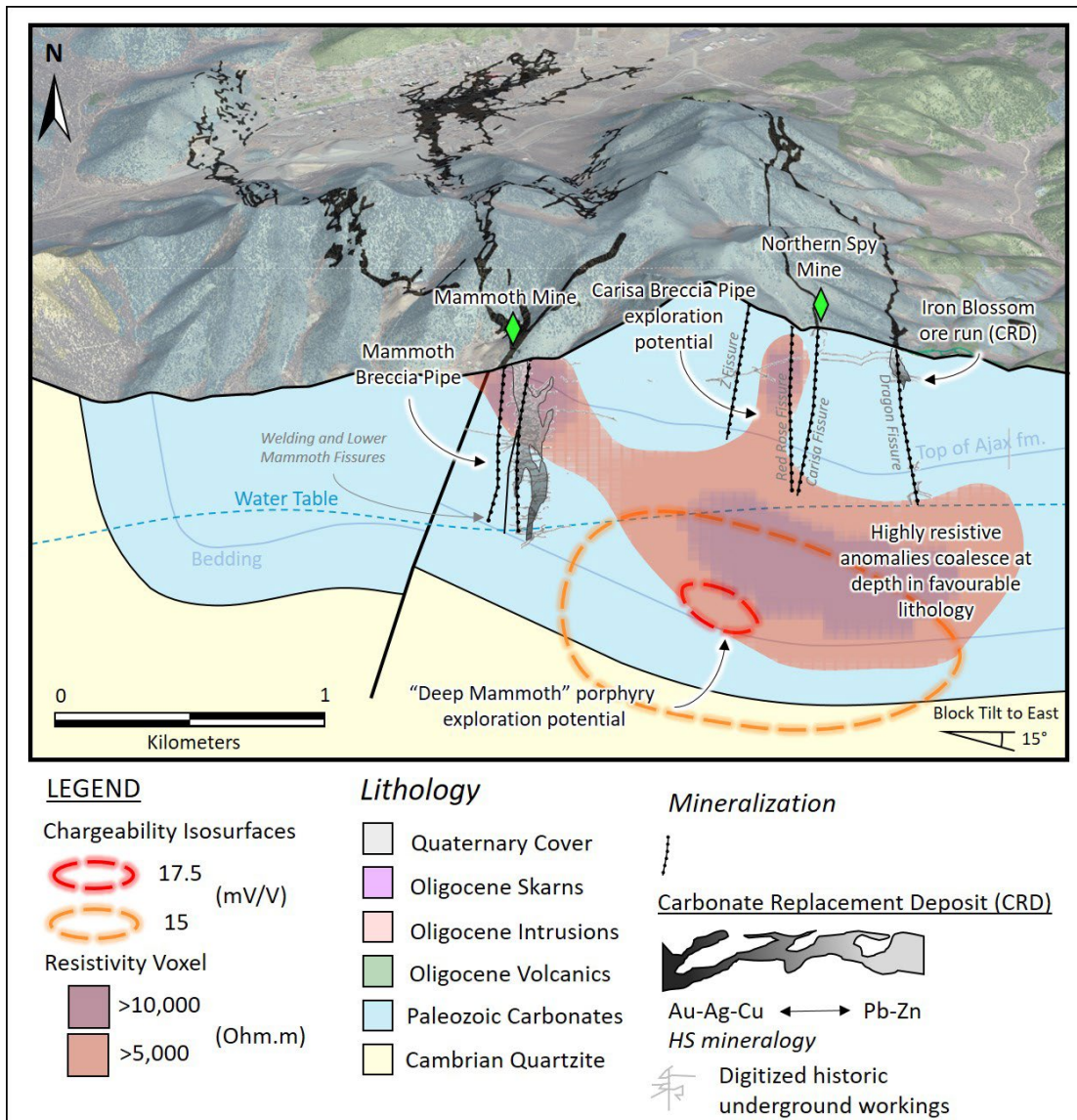


Source: HPX (2020)

Figure 9-26: Geologic Map of the Sunbeam Porphyry Exploration Potential Area Showing Potassic Alteration and Vein Intensity

Deep Mammoth Porphyry Exploration Potential Area

A broad chargeability anomaly at approximately 1 km depth could potentially indicate disseminated sulfides formed around a deep porphyry or skarn deposit below the Mammoth Breccia Pipe as shown in Figure 9-27. The chargeability anomaly is below a distinct bedding-parallel resistivity anomaly and has a clear pipe-like resistive feature that is roughly centered above the mineralization target. Several copper- and/or gold-rich (i.e., relative to the Tintic Main District average values) mineralized fissures occur above the geophysical target radiating outwards. However, the centrally located Carisa Stock is nearby at surface to the southeast indicating some capacity for intrusive activity in the area and therefore possible development of mineralization (Kerr and Hanneman, 2020a).



Source: HPX (2020)

Figure 9-27: Schematic Section showing the Interpreted Deep Mammoth Porphyry Exploration Potential Area Based on Anomalous Geophysical (Ground IP) Data, and the Carisa Exploration Potential Area where Highly Resistive Anomalies Coalesce at Depth within a Prospective Carbonate Formation

9.6.2 Carbonate Replacement Deposit Exploration Potential Areas

Carisa Group Fissures

The carbonate succession below the historical Northern Spy and Carisa mines are considered to be priority drilling targets by IVNE, predominantly for high-grade Cu-Au-Ag lode vein and breccia pipe replacement bodies. Mineralized veins at Carisa and Northern Spy were historically exploited down to relatively shallow depths (270 m and 210 m below surface respectively), yielding some of the highest-grade Au and Ag values in the Tintic District. Despite the high grades, production in these mines was limited due to the complex fractured land positions and difficulties shipping mined material due to topography and access. The Carisa and Northern Spy areas (Carisa Group) are highly prospective for an undiscovered CRD mineralized zone inclusive of a potential ‘Mammoth’ breccia pipe target. Fissures included in the Carisa Group are the Carisa, Star, Red Rose, and “Z” fissures. Table 6-6 summarizes the historical production for mines located on these fissures (Kerr and Hanneman, 2020b).

The Carisa and Northern Spy mines produced from the Lower Bluebell Formation and the Fish Haven Formation, which are located relatively high in the Tintic District stratigraphic section. North Star Mine primarily produced from the Ajax Formation. This is the lower portion in the stratigraphic section and has been recognized as one of the more favorable and reactive carbonate lithologies for mineralization. While the Fish Haven and Bluebell Formations locally produced high grade mineralized material at Carisa and Northern Spy, the lower lying more favorable Ajax Formation has not been adequately tested at depth below these mines. Mineralization at the Northern Spy and Carisa mines appears to have been best developed where the roughly north-northeast trending mineralized fissures intersected cross structures (e.g. the east-west trending Sioux Ajax fault zone). These structural intersections have potential to host larger CRD’s at depth in the Ajax Formation (Kerr and Hanneman, 2020b).

The Red Rose and Boss Tweed mines are less well documented. However, their workings are generally located within the Opohonga Formation. The Red Rose Mine shaft was apparently sunk into the Upper Ajax Formation. The Sioux-Ajax Tunnel (2071 m RL) and lower levels of other larger mines (as low as 1414 m RL) e.g. the Iron Blossom (1300, 1700, and 2100 levels), Lower Mammoth (2100 and 2155 levels), Black Jack (1100 level), and Dragon (300 level) mines all mined into these fissures. However, only limited mineralization was intersected (Kerr and Hanneman, 2020b).

Primary targets for CRD mineralization are generally associated with structural intersections within favorable carbonate horizons. The structural intersections allow for high fracture permeability, hence promote increased fluid flow and precipitation of sulfide mineralization. Large manto-style replacement bodies (i.e., Mammoth pipe analogues) are likely to be best developed in favorable carbonate horizons identified throughout the district and locally in the Ajax and Bluebell Formations in the Carisa / Northern Spy area. Therefore, the down plunge projection of the structural intersections in the Ajax Formation has the greatest potential to host a large replacement deposit. Furthermore, the axis of the Tintic Syncline may have increased fracture permeability characteristics and the intersection of the synclinal axis with favourable lithologies and known mineralized fissures have increased prospectivity potential (Kerr and Hanneman, 2020b).

The host rock adjacent to mineralized fissures and breccia pipes is moderately silicified, which is measurable in the Typhoon geophysical survey data as a strongly resistive anomaly. The Mammoth Breccia pipe is surrounded by a coincident resistive halo as are several known fissure veins. A resistive pipe-like body extends at depth below the Northern Spy Mine down to the Ajax Formation and Opex Formation. This suggests that a Mammoth-style breccia pipe may exist below the deepest working level of the Northern Spy Mine (Kerr and Hanneman, 2020b) as shown in Figure 9-27 above.

Southern extension of Carisa mineralized shoots into the Ajax Formation

The Carisa Mine southern workings followed a series of mineralized shoots along the Carisa Fault to lower stratigraphic positions, most probably into the Upper Opohonga Formation in the neighboring Red Rose and Boss Tweed regions. This fissure mineralization was possibly exploited in the northern stopes of the Red Rose Mine. Historically, the more prospective Ajax Formation had not been tested below the Carisa and Red Rose stopes, hence is a potential site for exploration. Mineralized shoots along the Carisa Fault were described as endowed in Cu-Au mineralization and associated with barite (Kerr and Hanneman, 2020b).

Significant mineralization potential exists where the adjacent Red Rose and “Z” Fissures penetrate the Ajax Formation and intersect with the Carisa Fault. Areas where fissures converge are considered favorable horizons due to the increased permeability.

Deep Northern Spy in Ajax Formation south of Sioux-Ajax Fault

The Sioux-Ajax Fault is a major east-west feature that most probably assisted in channelizing the mineralization bearing fluids into areas where clusters of fissures intersect it. Possible mineralization development occurs just north of the western extent of the Sioux-Ajax Fault where Carisa Group fissures are interpreted to intersect the fault. Furthermore, the Carisa fissures have not been explored for mineralization in the favorable Ajax formation below the Northern Spy Mine. Strong resistivity anomalies indicative of alteration occurs near the surface at both the Mammoth and Northern Spy mines. However, most of the workings in the main mineralized pipe at the Mammoth Mine do not occur within the resistivity anomaly. A large (800 m) deep resistivity anomaly centered at the base of the Opex Formation, directly below the location where the Carisa Fissure is projected to intersect the Ajax Formation, exists and is a prospective mineralization exploration potential area (Kerr and Hanneman, 2020b).

Deep Sioux ‘Ore Run’ in Bluebell Formation at hinge of Tintic Syncline

The Tintic Syncline fold hinge (dips at 55° west) is shown to localize mineralization in the Iron Blossom, Godiva, Plutus, and Chief ‘Ore Runs’ in the northern part of the Main District, north of the Sioux-Ajax Fault. Following the fold-controlled deposits in the Godiva and Iron Blossom ‘Ore Runs’ to greater stratigraphic depth along the fold hinge to the mineralization-favorable Bluebell Formation may yield additional mineralization (Kerr and Hanneman, 2020b).

Deep Red Rose (Victor) at Sioux Pass Fault

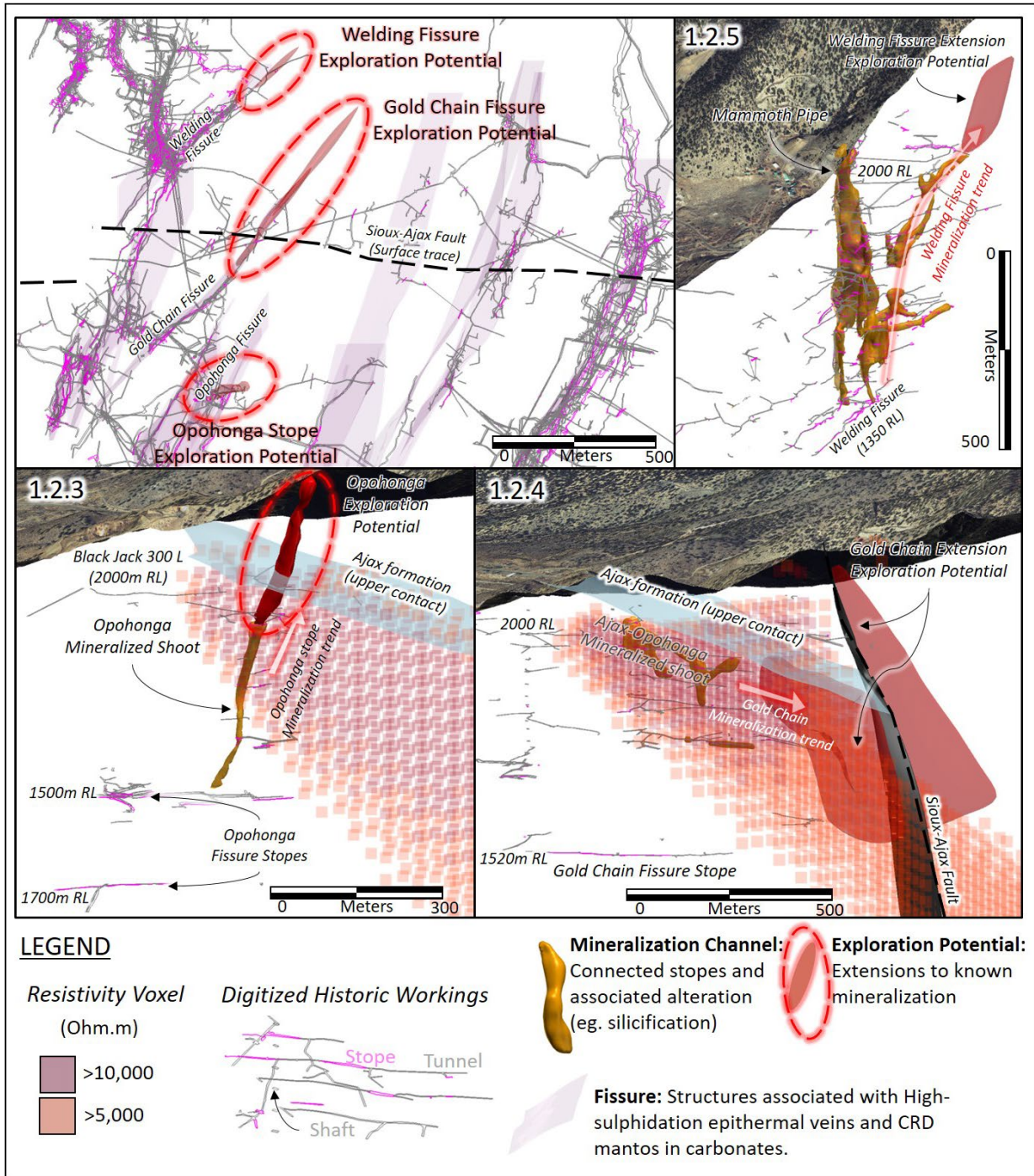
Historical mine development within the Red Rose and Boss Tweed Mines (later Victor Consolidated) are focused within the Ophongong Formation. The more favorable Ajax Formation underlying these mines has been poorly explored and resides in a region of the Tintic District that is known for Cu and Au-rich mines. The largest cross structure to intersect the Carisa Group of fissures in this area is the east-northeast Sioux Pass Fault, dipping toward the south. A resistivity anomaly, possibly representing silicification, is centered on the Carisa Group of fissures and concentrated within the Ajax Formation predominantly north of the Sioux Pass Fault. The anomaly is roughly stratiform and strengthens along a north-westerly trend to anomalies associated with the Gold Chain and Mammoth Mines. The resistivity anomaly also roughly follows bedding to depth to the north, beneath the Northern Spy Mine, where it increases in size and is associated with a chargeability anomaly. These two geophysical anomalies constitute the Deep Mammoth exploration potential area (Kerr and Hanneman, 2020b).

Carisa / Northern Spy resistivity pipe

This is a pipe-like resistivity anomaly that is perpendicular to bedding and is associated with a deeper, larger anomaly. The site where the resistivity anomalies merge into the Ajax Formation is a prospective site for mineralization. Portions of the Sioux-Ajax Tunnel cut through the center of the upper end of the anomaly in the Ophongong Formation. The pipe-like anomaly is in the footwall of the Sioux-Ajax Fault. The uppermost portion of the anomaly is strongest in the Bluebell Formation, adjacent to the Northern Spy Mine and crosses through portions of the Sioux-Ajax workings. The strongest resistivity anomaly is likely to indicate silicification in carbonates. The western edge of the Northern Spy Mine lies within the upper portion of the resistivity anomaly, where the anomaly is proximal to existing mineralization. The lower portion of the pipe-like anomaly is less distinct but transitions to the larger deep resistivity anomaly at the lower part of the Ajax Formation (Kerr and Hanneman, 2020b).

Ophongong Stope

A partially mined stope discovered with drifts extending from the 300 level of the Gold Chain/Ajax Mine or the 300 level of the Black Jack Mine was discovered by Centurion geologists. The reason for partial mining was explained by Yeomans (2017), since mined material had to be extracted through a competitor's shaft when mining conditions were marginal. The mining area is located near the contact between the Lower Ajax and Opex Formations and followed the Ophongong Fault (Fissure) downward in brecciated rock. The exploration potential area is the bulk of the overlying Ajax Formation, approximately 195 m thick, which is a favourable unit hosting mineralization elsewhere in the District. It is unclear why the miners only developed the stope downward (Kerr and Hanneman, 2020b) (Figure 9-28).



Source: HPX (2020)

Figure 9-28: 3D Model of Opoihonga Stope Exploration Potential Area (in red) above Previously Mined Out Stopes (in orange). Red and Orange Draped Semi-transparent Data Indicate a Highly Conductive Zone within the Ajax (dolomite) Formation

Gold Chain Fissure

A possible extension of the mined Gold Chain Fissure exists at depth along the NNE trending fissure in the Ajax Formation south of the Sioux-Ajax Fault and in the lower Bluebell Formation north of the Sioux-Ajax Fault, both of which are recognized as favorable host formations in the Main Tintic District. The Sioux-Ajax Tunnel crosses over the target zone in the generally unfavorable Ophongong Formation, though it still may provide some targeting guidance. If the Plutus 'Ore Run' is projected southward, it trends into a similar area of the Sioux-Ajax Fault as the Gold Chain Fissure exploration potential areas (Kerr and Hanneman, 2020b).

Welding Fissure

The strike projection of the northeast trending Welding Fissure out of approximately the 300 level of the Mammoth Mine into the favorable Bluebell Formation is a further exploration potential area. The prospective area is approximately 120 m east of the upper Mammoth Mine shaft where the fissure trend would intersect the northernmost splays of the Sioux-Ajax Fault. The fissure is well mineralized below the 1000 level in the Mammoth Mine within the Bluebell Formation and trends toward the general area of the Plutus 'Ore Run' (Kerr and Hanneman, 2020b).

Mammoth Pipe Below the Water Table

The Mammoth Mine ceased mining as soon as the water table was intersected. Sulfide mineralization is known to continue below existing workings around the 2400 and 2600 levels of the mine and is therefore a viable exploration potential area, especially at depth where the mineralization-favourable Ophir Formation exists. Furthermore, a portion known as the New Park Reserves has been partially mined with crosscuts by Kennecott and drilled by the New Park Mining Company. This area is postulated to be the down-dip extent of the well mineralized Back Fissure in the overlying Mammoth Mine (Kerr and Hanneman, 2020b).

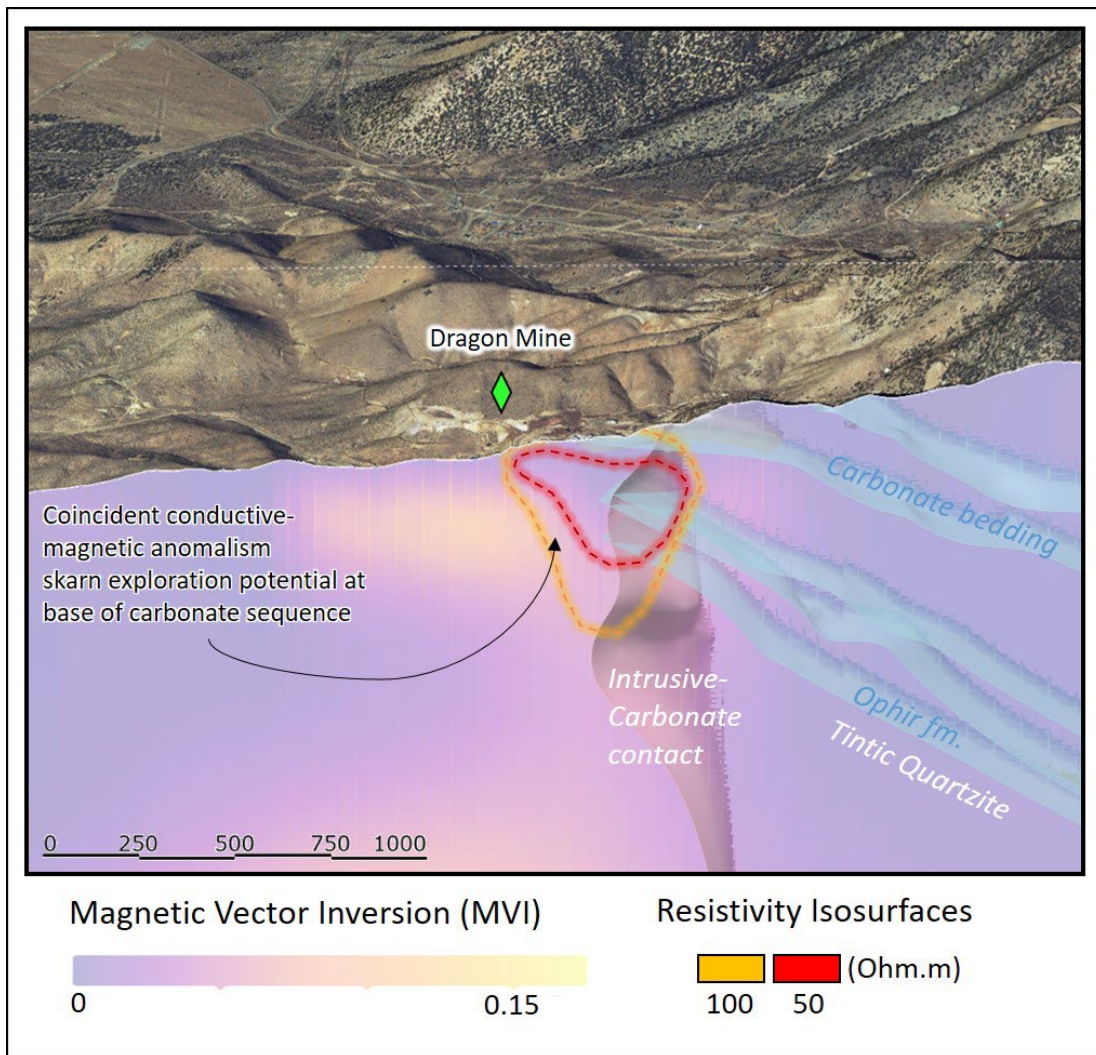
Emerald Exploration Potential Area

The Emerald exploration potential area is located south of the Gemini 'Ore Run' on strike with the bulk of the mineralization near the intersection of the northern block of the inferred Sioux-Ajax Fault trace in Mammoth Valley. The major north-easterly Grand Central Fault, that is similar to the Mammoth-Mayday Fault at the Mammoth Mine and most likely was the fluid conduit for the Mammoth Pipe, is also in the vicinity. This area is a structural analogue to the Mammoth Breccia Pipe in which near vertical carbonates of the Tintic Syncline have possibly been deformed along a sinistral drag fold along the Sioux Ajax Fault Zone. The area is also bisected by several northeast trending structures (Grand Central Fault). The high degree of structural complexity, deformation, and brecciation may have formed a vertical damage zone (pipe) with enhanced permeability. Metalliferous hydrothermal fluids may have precipitated a large high-grade replacement body along this damage zone. Mine workings did not extend to the southwest toward the Emerald exploration potential area. A near-surface geophysical anomaly east of the area was drilled by Centurion in the 90's but did not intersect appreciable metal contents. However, silicification and disseminated pyrite were logged in the drillhole (Kerr and Hanneman, 2020b).

9.6.3 Skarn Exploration Potential Areas

Northstar Skarn

The northeastern edge of the Silver City intrusive complex intrudes the Paleozoic carbonate sequence at surface and has developed generally narrow calc-silicate alteration around the intrusive bodies. The narrow alteration and unmineralized skarn development at surface are associated with the dominantly equigranular phases of the Silver City intrusive complex, which are not thought to have produced the prolific mineralization observed throughout the Tintic District. Mineralized sets of fissure veins and CRD's cross the intrusive contact and may have formed massive sulfide bodies at depth, though at surface they appear to form large clay-iron oxide deposits such as the Dragon Mine. The lowest carbonate intruded by the stock forms part of the Ophir Formation, and may be the most prospective target for potential skarn mineralization as it would be the first reactive unit encountered by magmatic-hydrothermal fluids (Kerr and Hanneman, 2020b) (Figure 9-29).



Source: HPX (2020)

Figure 9-29: 3D Modeled Exploration Potential Area for Possible Skarn Mineralization at the Contact Between Carbonate Units and Silver City Intrusive Complex on the Tintic Project

9.7 QP Opinion

In Mr. Deiss' opinion, historical drillhole location and analytical results should be treated with caution. Confidence in this information is low as little to no QA/QC data are available for the respective drillholes. However, the results can be utilized for regional-scale modelling, which IVNE has completed in Leapfrog Geo™.

All the exploration results to date indicate exploration potential areas only; no mineralization with any reasonable prospects of eventual economic extraction has been identified.

The rock grab samples are indicative of early-stage regional exploration potential and allow IVNE to focus their more detailed exploration work in anomalous areas.

Anomalous geochemical soil sample results occurring downslope from historical mining may be related to the aforementioned and not an indicator of an exploration potential area. Therefore, these samples should be treated with caution.

IVNE has completed several academic studies related to whole rock geochemistry, petrography, geochronology and quartz vein fluid inclusions. These results confirm historical authors' opinions on the project area and provide valuable information for the further development of IVNE's exploration model.

IVNE has applied industry standard exploration techniques to identify and prioritize exploration potential areas in the Main Tintic District. The geological models and concepts used as a basis for mineralization exploration in the Tintic District have been developed and verified through more than 125 years of exploration and mining activities. The IVNE exploration potential areas are based on data sets derived from multiple exploration methods that were overlain to identify the locations where the respective anomalies align.

Mr. Deiss considers IVNE's exploration model to be applicable and realistic for the Tintic Main District region. Furthermore, the exploration techniques employed by IVNE are suitable for exploration for porphyry copper, CRD, skarn and fissure vein mineralization.

10 Drilling

No exploration drilling has been conducted on the property by the registrant.

11 Sample Preparation, Analysis and Security

All soil and rock grab samples collected by IVNE during exploration programs undertaken to date have been prepared and analyzed by ALS Minerals. ALS is a reputable analytical laboratory with a global quality management system that meets all requirements of the international standards ISO/IEC 17025:2017 and ISO 9001:2015. ALS has a robust internal QA/QC program to monitor and ensure quality of assay and other analytical results.

11.1 Security Measures

The security measures employed by IVNE for both the soil geochemical survey and rock grab sampling programs were as follows:

At the completion of each field day, all samples were bagged in large rice sacks with approximately 20 samples (20 kg) per sack. Each rice sack was labeled with the company name, bag number and the sample ID's contained within it. This information was recorded into an inventory spreadsheet. The sacks were sealed using zip ties and marked with colored flagging tape. All samples were secured at IVNE's field office in Mammoth prior to dispatch to the lab. The Mammoth facility doubled as a bunkhouse for IVNE geologists who maintained control and security of all samples.

Samples were dispatched to the ALS Elko (Nevada) prep-lab by IVNE geologists who maintained chain of custody until the samples were received by ALS. Prior to dispatch, a senior IVNE geologist prepared an inventory and shipping slip of the dispatch. All rice bags were checked against the inventory slip which was then approved and signed. A chain of custody form was completed and signed by both IVNE and ALS staff upon delivery to the Elko facility.

11.2 Sample Preparation and Analysis

Soil geochemical survey

The soil samples were prepped using the ALS soil and sediment preparation package PREP-41, which entailed drying at ~60°C and then sieving to -180 micron (80 Mesh). Both the coarse and fine fractions of the sieve were retained. The fine fraction was used for geochemical assay (ME-MS41L) while the coarse fraction was analyzed for hyperspectral characteristics (HYP-PKG). The geochemical assay employed an aqua regia digestion with "Super Trace ICP-MS analysis" which measured 53 elements. The hyperspectral analysis was completed using TerraSpec® 4 HR scanning and aiSIRISTM expert spectral interpretation by ALS. This analysis yielded raw spectral files in ASD and ASCII format, and a spreadsheet with mineral assemblage interpretations with the spectral parameters of the soil.

Rock grab sampling

The rock grab samples were prepped using the ALS package PREP-31Y, which utilized crusher/rotary splitter combo. Samples were crushed to 70% less than 2 mm, then rotary split off 250 g of material, followed by pulverizing split to greater than 85% passing 75 microns. The sample geochemistry was then analysed using ALS's four acid Super Trace analysis (ME-MS61L) which measured 48 elements. Gold was measured by fire assay and ICP-AES analysis (AU-ICP21).

11.3 Quality Assurance/Quality Control Procedures

IVNE has implemented two standard insertion protocols for 1) soil and stream sediment samples, which have 5% duplicate and 4% standard insertion rates, and 2) drill core, rock grab, pit, trench, and chip samples, which have 5% blank, 5% duplicate, and 4% standard insertion rates (Table 11-1).

Inert crushed white marble is used as blank material. OREAS 151b standards in 60g packets are used for the porphyry-epithermal samples including all 2018 soil and rock grab samples. This is a certified OREAS (www.ore.com.au/oreas-crms/) low-grade Cu standard for porphyry Cu-Au exploration.

Table 11-1: IVNE 2018-2019 QA/QC Sample Insertion Rates

| Soils and Stream Sediments | |
|--|--|
| Blank | N/A |
| Duplicate | 02, 22, 42, 62, 82 |
| Standard | 00, 25, 50, 75 |
| Total | 00, 02, 22, 25, 33, 42, 50, 62, 66, 75, 82, 99 |
| Drilling – Rock Grab - Pit - Trench | |
| Blank | 01, 20, 40, 60, 80 |
| Duplicate | 12, 32, 52, 72, 92 |
| Standard | 00, 25, 50, 75 |
| Total | 00, 01, 12, 20, 25, 32, 40, 50, 52, 60, 72, 75, 80, 92 |

Source: HPX (2019)

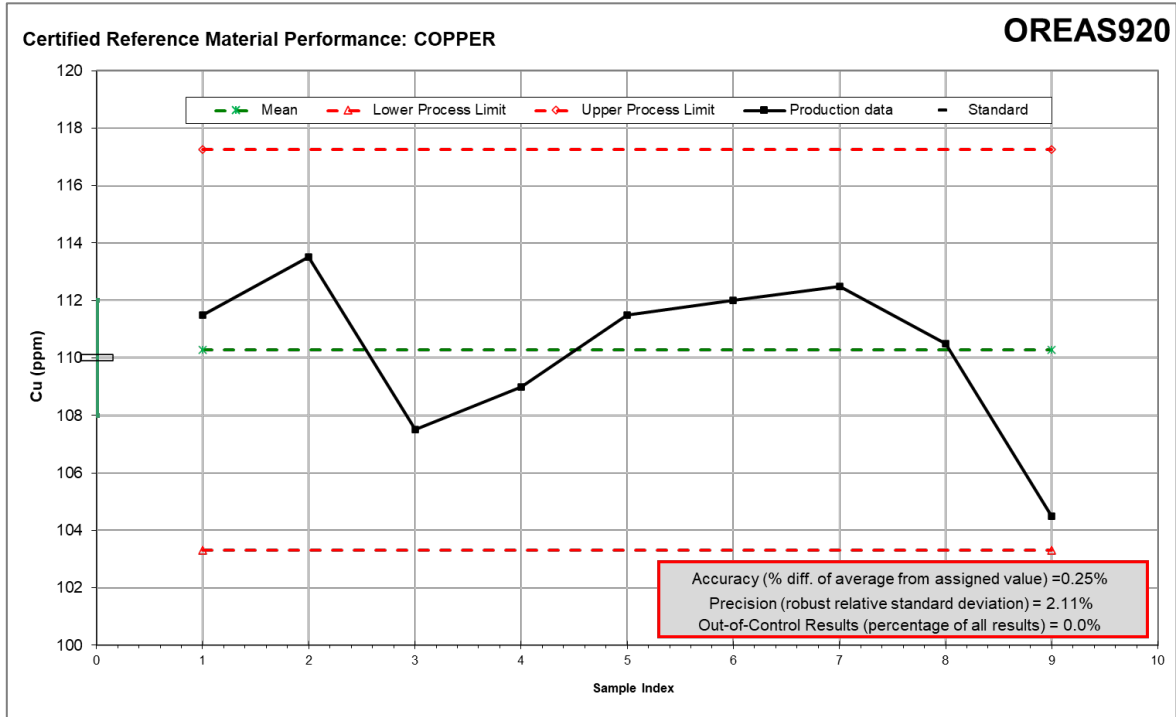
Lab assay certificates were imported into an Access database that merged geochemical and spectral data with the sample field data and location information. IVNE has implemented an internal QA/QC program to monitor all assay results from laboratories by comparing results of IVNE inserted standards, blanks and duplicates against expected values. If any assay certificate fails the QA/QC check, the lab is immediately notified for investigation and possible re-assay.

11.3.1 Results and Actions

The blank samples generally produced values substantially lower than 5 times the lower detection limit (LDL) for Au, Ag, Cu, Mo, Pb and Zn which is within industry acceptable standards, however there were no failures. The performance of the certified reference material (CRM) analyses was also within acceptable limits. Two examples have been provided in Figure 11-1 and Figure 11-2 for Cu and Au respectively. No actions were required.

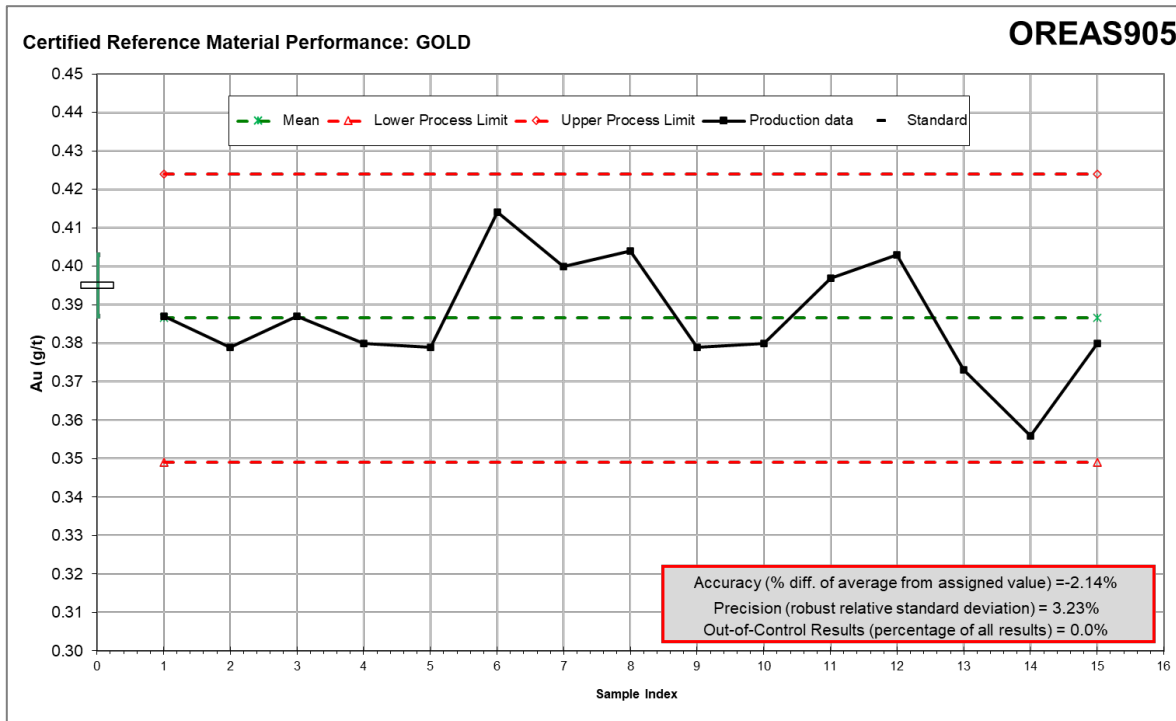
11.4 QP Opinion on Adequacy

The soil and rock grab sample collection, security, preparation, and analytical procedures used are appropriate for the type of mineral exploration that is being undertaken and the stage of the Project. The QA/QC measures taken are also considered to be appropriate and the performance of blanks, standards, and duplicates indicates no significant biases in the data.



Source: SRK (2021)

Figure 11-1: IVNE Certified Reference Material, OREAS920 Cu (ppm) Performance During Surface Sampling Campaign



Source: SRK (2021)

Figure 11-2: IVNE Certified Reference Material, OREAS905 Au (g/t) Performance During Surface Sampling Campaign

12 Data Verification

Data verification conducted by SRK's QPs for this Technical Report included a site visit to the Tintic Project and a desktop study as detailed below.

12.1 Procedures

12.1.1 Site Visit

As noted in Section 2.4, Ms. Clarkson of SRK completed a site visit to the Tintic Project in November 2020. The site visit was led by Nick Kerr, Project Manager for IVNE. It began with an overview of the history and geological setting of the Project area, presentation of the geophysical and geochemical exploration work conducted by IVNE and the results obtained to date, and discussion of the Project development goals and exploration potential areas. Information was presented using prepared PowerPoint slide decks and GIS software. This data review and discussion session was followed by field examination of selected historical mine workings and the prospective areas identified for exploration drill testing. The underground workings at the Mammoth Mine and the Sioux-Ajax Tunnel which occur in CRD exploration potential areas were visited on November 10th, 2020. Porphyry deposit drilling targets were visited on November 11th, 2020. Ms. Clarkson noted that the 7-15 cm of recently fallen snow and limited visibility in some areas were taken into consideration for the site tour agenda.

Inspection of underground workings in CRD exploration potential area

The Mammoth Mine was historically mined for copper oxides and silver sulfosalts. The Mammoth Shaft and the Glory Hole Shaft were visited. Steeply dipping structures parallel to other fissure veins were observed in the Glory Hole Shaft, as well as the presence of azurite, malachite, and possible copper oxides. Hand samples of gossanous, vein, and unaltered limestone were readily compared.

The Sioux-Ajax Tunnel was partially completed historically and meant for mineralized material haulage during winter months. Good natural airflow was noted in the tunnel due to connection to karst cavities, Carisa Pipe, and other mined pipes along fissure veins. The IVNE geology crew was running water from the portal in PVC pipe along the length of the tunnel to wash the ribs for geologic mapping and sampling. Femco mine telephones had been recently installed and were operational. Other notable features observed in the tunnel include the following: Nad breccia on the Mammoth #1 patented claim; several pebble dike; a breccia with historical sample markers (ca. 1980s-1990s) near the thrust fault; variable bedding dip angles around the Sioux-Ajax Fault Zone; presence of jasperoid on surfaces in the Horseshoe area (target for an unmanned aerial vehicle (UAV) light detecting and ranging (LiDAR) survey to map the open workings that are not accessible); late structures that cross the tunnel and created natural (non-karst) voids up to 2 m wide; Sevier-age karst with gossan clasts in calcite matrix, interpreted as a weathered massive sulfide pod and collapse breccia; pebble dike in the Black Cave carbonaceous carbonate; pebble dike and mineralized vein at the J-Hook winze; as well as Northern Spy 1 and Northern Spy 2 stopes. Overall, the ground conditions are considered good, and the tunnel is dry, except for the lower part where perched groundwater in sumps was encountered, and areas with added water from the current rib washing program. No underground drilling is planned until the CRD exploration areas are successfully drilled from surface, and pending results.

Inspection of porphyry exploration potential areas and historical mine pits and dumps

The porphyry exploration potential areas (Rabbit's Foot, Sunbeam, Deep Mammoth; Section 9.6.1) were accessed on surface. The following locations were visited:

- Swansea Mine dump: The Swansea Mine is the oldest mine in the district; it was flooded out and abandoned. Examples of the Swansea Rhyolite and cross-cutting quartz diorite with pyrite (source of magnetic high) were observed on the dump pile.
- Murray Hill prospect: View of Tintic Valley and Range; examples of Crowded Porphyry; several igneous phases present at hilltop; trend of dikes is same as overall Rabbit's Foot porphyry exploration potential area.
- Rabbit's Foot ridge: Sunbeam Granodiorite is magnetic at this location and is de-magnetized along the Dragon Fault structure.
- Rabbit's Foot porphyry exploration potential area: Potassic alteration of Sunbeam Granodiorite and thin A-type quartz veins; Crowded Granodiorite Porphyry outcrop with D-type veins.
- Sunbeam porphyry exploration potential area: Upper Sunbeam Mine dump; remnants of high sulfidation Cu-Au quartz vein system with strong silicification; Upper Sunbeam shaft collar (secured; viewed from surface); view of Treasure Hill peak from Sunbeam Mine area; latite outcrop located between Sunbeam and Joe Undine Mines;
- Joe Daly and Undine Mine: Pits and dumps on Sunbeam Granodiorite Porphyry (SGDP) dike; A-type veins overprinted with high sulfidation system; areas of potassic alteration with phlogopite. Several clasts with bladed calcite texture replaced by quartz, which indicates boiling zone in epithermal system.
- King James Mine dumps: High sulfidation veins; porphyry clasts with secondary phlogopite; clasts with prominent bladed calcite replaced by quartz; agglomerate up ridge behind mine.
- Dragon Clay Mine: Pits and dumps with view of Blackjack Mine pit up ridge behind dumps.
- Ruby Valley: Outcrops of megacryst porphyry observed below the Sunbeam Mine dumps. This is the youngest intrusive phase; it cuts the Sunbeam dikes and is cut by minor veins.

12.1.2 Data Validation and Desktop Study

Mr. Deiss of SRK reviewed and accepted the information supplied by IVNE. Historical information was verified from several web and literary sources where possible. The analytical results were checked against the relevant laboratory certificates, and no transcription errors were noted. Since the geological mapping and geochemical sampling of the Sioux-Ajax tunnel area occurred subsequent to Ms. Clarkson's site visit and before the effective date of this Report, the mapping and the subsequent report were reviewed and accepted by Ms. Clarkson. Ms. Clarkson found the results to correspond to her observations during her site visit.

12.2 Limitations

Mr. Deiss did not request any check assays as no Mineral Resources or exploration target tonnages and grades are the focus of this report.

12.3 QP Opinion on Data Adequacy

Mr. Deiss found the information to be comprehensive and logically archived; data management and database compilation procedures are consistent with standard industry practices. Mr. Deiss reviewed and accepted the supplied information and considers it to be geologically appropriate and adequate for use in IVNE's ongoing exploration efforts at the Tintic Project.

13 Mineral Processing and Metallurgical Testing

No contemporary metallurgical testing or mineral processing studies on mineralized material from the Tintic Main District are currently available to IVNE.

14 Mineral Resource Estimates

A Mineral Resource estimate has not been conducted for the Tintic Project and is not a requirement of a mineral project exploration information Technical Report.

15 Mineral Reserve Estimates

A Mineral Reserve estimate has not been conducted for the Tintic Project and is not a requirement of a mineral project exploration information Technical Report.

16 Mining Methods

There is no active mining on the Tintic Project, and no mining is currently proposed. No work regarding mining methods has been undertaken for this report.

17 Recovery Methods

No work regarding processing and recovery methods has been undertaken for this report.

18 Project Infrastructure

There is currently no mining taking place on the Tintic Project. The historical surface and underground mining infrastructure on the property is described in Section 5.6 and the underground rehabilitation work plan commissioned by IVNE in 2019 is described in Section 5.7.

The infrastructure and facilities used to support the exploration activities on the Project to date, as well as the water and power supply for the area, are described in Section 5.5.

19 Market Studies and Contracts

Market studies have not been undertaken for the Tintic Project and there are no contracts in place or under negotiation for mining, concentrating, smelting, refining, transportation, handling, sales and hedging, or forward sales contracts or arrangements.

20 Environmental Studies, Permitting and Social or Community Impact

No environmental studies, permitting, or social / community impact work for development of the Tintic Project have been undertaken.

Details of the drilling permit obtained by IVNE to allow for the proposed exploration drilling program on the Project in 2021 are provided in Section 4.7.

21 Capital and Operating Costs

Capital and Operating Costs have not been estimated for the Tintic Project and are not requirements of a mineral project exploration information Technical Report.

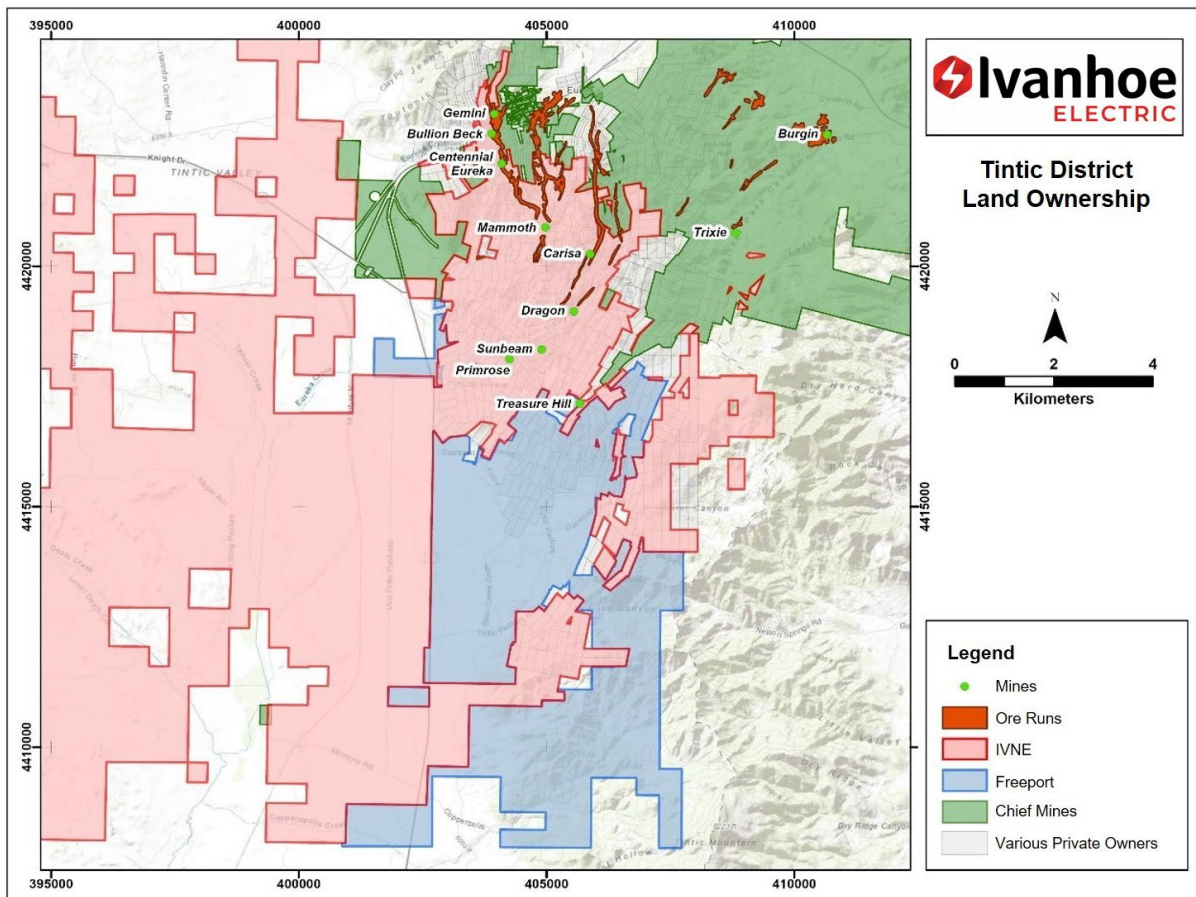
Exploration expenditure by IVNE to date and Exploration Budgets for exploration work in 2021 are provided in Section 25 and Section 26 respectively.

22 Economic Analysis

An economic analysis has not been conducted for the Tintic Project and is not a requirement of a mineral project exploration information Technical Report.

23 Adjacent Properties

Land ownership in the Tintic District is shown in Figure 23-1. Freeport McMoran, Chief Consolidated Mining and various private owners hold much of the adjacent properties to the IVNE Tintic Project. As noted by Ramboll (2018), the properties located adjacent to the Project have been used for mining purposes, smelters, mills, transportation of mineralized material, ranching and farming operations since the late 1860s. The town of Mammoth was developed at a similar time as Eureka in the mid to late 1800s as part of the Tintic Mining District and lies mostly adjacent to the Project area. Most of the adjoining properties comprise native vegetation with occasional mining feature or structure.



Source: IVNE (2021)

Figure 23-1: IVNE Tintic Project Tenure relative to Adjacent Properties and Major Historically Mined ‘Ore Runs’

An overview of the history of the Tintic Mining District, which saw nearly continuous mining operations from 1871 through to 2002, is provided in Section 6. Efforts since the 1990’s to conduct underground exploration, rehabilitate mine workings, plan for mine re-opening, and process waste rock, at various localities in the District (both within the Project area and on adjacent properties) are also summarized in that section. Notable of these on adjacent properties are the Trixie, Eureka Standard, and Burgin mines, as detailed below. FMEC, a subsidiary of Freeport McMoran acquired the sub-economic SWT Porphyry from Quaterra in the late 2000’s and is currently still exploring the area.

Tintic Consolidated Metals LLC (TCM) is a Joint Venture (75% IG Tintic LLC, owner, and operator, and 25% Chief Consolidated Mining) that controls approximately 57 km² of patented mineral rights in the East Tintic District. TCM has an aggressive goal of re-opening one of the remaining legacy mines every two years, with the Trixie mine reopened in 2020 and the Eureka Standard mine slated next for re-development. In addition, TCM is investigating the potential for a deep copper porphyry deposit within its extensive land holdings (source: www.tinticmetals.com).

The Trixie mine is an historic high-grade gold-silver underground mining operation. The deposit is a hybrid low-sulfidation to high-sulfidation epithermal system, with polymetallic gold and silver veins structurally hosted within the Paleozoic Tintic Quartzite, and base metal mineralization hosted within sedimentary and carbonate rocks north of the main gold system. It was first operated from 1974 to 1992 and again briefly from 2000 to 2002 with a total of six underground levels developed to a depth of 411.5 m. Refurbishment of the mine started in September 2019. Mining and production from the upper level commenced ahead of schedule in Q4 2020. TCM began underground core drilling in mid-2020 targeting exploration and resource definition opportunities identified in the historic Trixie datasets. The exploration drilling and underground development completed in 2020 resulted in the discovery of several new high-grade mineralized structures located only ~15 m from the existing underground infrastructure.

Following the successful restart of the Trixie mine, the historic Eureka Standard mine represents the next exploration and resource development opportunity for TCM over the next 2-3 years. The high-grade gold-silver polymetallic underground mine operated from 1923 to 1949 and is located roughly 1,370 m north of the current Trixie operations.

The North Lily mine is another historic underground mining operation within TCM's East Tintic property. Operations ceased in 1949 with production being halted where mining intersected the groundwater table. The North Lily deposit is characterized by very high-grade gold-rich mineralized material that was mined from structurally controlled siliceous vein breccias within the Tintic Quartzite, as well as overlying CRD lead-zinc-silver mineralized material along the thrust faulted contact with the Tintic Quartzite. TCM intends to employ the same approach used at Trixie of historic data collation using modern mining software, 3D modeling and re-interpretation of the legacy data to identify gold-focused targets for an aggressive program of exploration drilling.

In addition to the legacy mine re-opening and expansion efforts, TCM commenced an aggressive program of regional exploration following acquisition of the East Tintic project in early 2019. This included a high-resolution UAV magnetic survey, new detailed field mapping and systematic soil sampling. Detailed field mapping and sampling will be progressively expanded over future field seasons, together with drill testing of identified targets.

A number of significant past-producing base-metal mines exist within TCM's East Tintic land package, including Tintic Standard, Eureka Standard, North Lily and the more recent Burgin mining operations. A significant base-metal resource has been identified at the Burgin mine, with the "Burgin Extension" reporting Indicated and Inferred Mineral Resources in a NI 43-101 Technical Report completed in 2011 (Tietz et al., 2011).

TCM are appraising the Burgin resource extension in the context of the much larger "Burgin – Ball Park" base-metal opportunity, with the possible incorporation of additional mineralization historically identified to the north by Kennecott during the 1970's.

The East Tintic district has historically been recognized as an area prospective for large porphyry-style Cu-Au-Mo mineralization. On TCM's land, several silica-alunite lithocaps associated with porphyry emplacement are exposed at surface. Anglo American and Kennecott drilled several deep (1,200 m) holes between 2008 and 2014, including four holes into the Big Hill target and two into the Silver Pass lithocap. The lithocaps are considered under explored given the surface alteration and tenor of the surrounding halo of base-metal mineralization.

Kennecott's Bingham Canyon Cu-Au-Mo porphyry mine is located 60 km north of Tintic near Salt Lake City. Kennecott has been mining and processing minerals from the Bingham mineralized body since 1903 and it is one of the top producing mines in the world today. Copper production in 2019 was 186.8 kt (source: www.riotinto.com). Gold and silver are produced as bi-products of copper mining.

As documented in the sections above, the Silver City intrusive complex on the Tintic Project is similar in age to the Bingham Canyon porphyry deposit. Mineralization at Tintic is hosted in the same Paleozoic sedimentary host rocks as Bingham, and the east-west trending intrusive belt in which Tintic occurs is parallel to, and coeval with, the Bingham-Uinta intrusive belt.

23.1 Comments

Mr. Deiss recognizes that information relating to adjacent properties is not necessarily indicative of the mineralization on the Tintic Project. Information on adjacent properties in Section 23 is sourced from external companies and therefore are not considered verified by the registrant.

24 Other Relevant Data and Information

There is no other relevant information or explanation necessary to make the Technical Report understandable and not misleading.

25 Interpretation and Conclusions

Since securing the Tintic Project in 2017, IVNE has invested US\$22.6 million into exploration in the Tintic Main District, searching for prospective target areas focused on porphyry copper, carbonate replacement bodies (CRD's) and skarns, with two-thirds of the expenditure being on securing the land and mineral titles (Table 25-1). The Main Tintic District is highly prospective for these types of mineralization based on historical mining and on the geological understanding of the source of CRD mineralization. The consolidation of mineral claims since the cessation of mining in the 1980's has facilitated the opportunity to explore broader tracts of land, attempting to locate continuations of known exploited mineralization. IVNE has collated all historical data and produced a regional exploration model. IVNE's exploration approach has been successfully employed by Tintic Consolidated Metals LLC, in the East Tintic District.

Table 25-1: IVNE Spending on the Tintic Project

| Year | Cost – Land | Cost – Technical | Total Cost (USD) |
|--------------------|---------------------|--------------------|---------------------|
| 2017 | \$500,000 | \$136,229 | \$636,229 |
| 2018 | \$2,246,108 | \$2,641,071 | \$4,887,179 |
| 2019 | \$4,303,215 | \$2,294,054 | \$6,597,269 |
| 2020 | \$7,322,571 | \$977,916 | \$8,300,487 |
| 2021 (to April 30) | \$1,699,266 | \$491,628 | \$2,190,894 |
| Total | \$16,071,160 | \$6,540,898 | \$22,612,058 |

Source: HPX (2021)

Mr. Deiss and Ms. Clarkson found the information supplied by IVNE to be comprehensive and logically archived. The geochemical sampling program procedures and associated QA/QC protocols are consistent with industry standard practices. Furthermore, IVNE has applied sound and innovative exploration techniques to identify and prioritize exploration potential areas in the Main Tintic District.

IVNE has identified four of the 14 exploration potential areas described within this report as high priority, namely:

- Rabbit's Foot (porphyry);
- Sunbeam (porphyry);
- Mammoth Deep (porphyry); and
- Carisa / Northern Spy (CRD breccia pipe).

IVNE has completed several academic studies related to whole rock geochemistry, petrography, geochronology and quartz vein fluid inclusions. These results confirm historical authors' opinions on the project area and provide valuable information for the further development of IVNE's exploration model.

Mr. Deiss considers IVNE's exploration model to be applicable and realistic for the Tintic Main District region. Furthermore, the exploration techniques employed by IVNE are suitable for exploration for porphyry copper, CRD, skarn, and fissure vein mineralization.

Mr. Deiss identifies the following risks associated with the Tintic project:

- The dimensions of historical underground mining cavities are not surveyed, and the risk exists that larger areas have been exploited and not recorded.
- Historical drillhole location and analytical results should be treated with caution. Confidence in this information is low as little to no QA/QC data are available for the respective drillholes. However, the results can be utilized for regional-scale modelling, which IVNE has completed in Leapfrog Geo™.
- The area being explored by IVNE is very large and the risk exists that the exploration activities may be diluted if too many of the exploration potential areas are explored simultaneously. This risk can be mitigated by ranking of exploration potential areas, which IVNE has undertaken.
- All the exploration results to date indicate exploration potential areas only; no mineralization with any reasonable prospects of eventual economic extraction have been identified.
- Anomalous geochemical soil sample results occurring downslope from historical mining may be related to the aforementioned and not an indicator of an exploration potential area.
- At the effective date of this Report, IVNE has not drilled any diamond core drillholes into any of the identified exploration potential areas to confirm mineralization. This risk is mitigated by IVNE planning surface and underground drilling for the remainder of 2021.
- A complex land claims ownership exists in the Tintic District and the risk to access certain isolated claims during exploration could occur. IVNE is currently consolidating claims through several agreements to acquire the relevant claims to mitigate the risk. IVNE has negotiated the right to access any of the claims under the respective agreements for exploration purposes.
- Several payments are due with respect to underlying agreements with Mr. Spenst M. Hansen involving claims. Firstly, on a six-monthly basis until April 2022 for porphyry claims; and on a three-monthly basis for the Mammoth, Gemini and Northstar claims until July 2023.
- Unresolved Recognized Environmental Conditions (REC's) and pre-existing environmental liabilities exist in the IVNE tenement area. However, none of these impact IVNE's ability to perform exploration activities on the prospective areas prioritized as exploration potential areas.
- Future environmental permitting is a risk should IVNE consider an application to mine in Utah. The risk is partially mitigated on private patented claims, which would require State rather than Federal permitting.
- Significant portions of the CRD exploration claims are subject to Net Smelter Return ("NSR") royalty agreements, ranging between 1% and 4%. However, they are only payable upon production and sale of product should IVNE engage in such activities in the future. No royalties are due in advance.

Mr. Deiss considers the following upside potential:

- Historical underground mining in the Tintic District was focused on mineralization above the water table. Therefore, mineralization along existing mined zones at depth may be preserved below the water table.

- Historical underground mining utilized higher cut-off grades than those that are economic in recent times. Therefore, the potential exists for unmined remnant lower grade mineralization areas being preserved.
- Historically, exploration and mining were focused on CRD, skarn and fissure vein mineralization and not on the potential mineralized fluid source at depth. IVNE exploration geophysics has identified several anomalies that could indicate the potential source of the fluids. These anomalies require diamond core drilling to establish whether the IVNE exploration model is correct and whether this material contains any economic mineralization.

26 Recommendations

Mr. Deiss recommends that IVNE focuses on drilling of the highest priority exploration potential area initially, to facilitate quantifiable exploration results in the near future. Drilling is required to delineate the volume and morphology of the potentially mineralized underground zones above and below the water table. Depending on whether mineralization is intersected, and its style and grade, this would enable IVNE to declare an exploration target with relevant estimated tonnage and grade ranges, contingent on IVNE’s QA/QC protocols and performance, both of which have been demonstrated in their field geochemical sampling program to meet industry standards.

26.1 Recommended Work Programs and Costs

The following exploration work is recommended on the Tintic Project in 2021:

- On the ground exploration, including mapping and geochemical sampling;
- Surface drilling to test geophysical targets;
- Underground rehabilitation (refer to Section 5.7); and
- Underground drilling from areas made accessible by rehabilitation work.

The proposed budget for the exploration work is detailed in Table 26-1.

The objective of the work program and expenditure is threefold:

1. Test shallow CRD exploration potential areas from surface;
2. Test the buried porphyry exploration potential areas; and
3. Rehabilitate historical workings to facilitate underground drilling into unmined CRD pillars, and extensions of the lodes to depth.

By the end of 2021, if the recommended exploration work is completed, a path towards potential definition of a Mineral Resource should be clear.

Table 26-1: Summary of Estimated Costs for Recommended Exploration Work at Tintic in 2021

| Item | Total Drill Metres | Cost Per Metre | Total Cost (USD) |
|--|--------------------|----------------|---------------------|
| Land | | | \$6,162,806 |
| Surface Drilling | 16,000 | \$300 | \$4,800,000 |
| Underground Rehabilitation (2b in Table 5-1) | | | \$3,460,000 |
| Underground Drilling | 15,000 | \$500 | \$7,500,000 |
| Assays | | | \$1,179,027 |
| Facilities and Staff | | | \$1,983,110 |
| Total | | | \$25,084,943 |

Source: SRK (2021)

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Appendices

Appendix A: Certificates of Qualified Persons


CERTIFICATE OF QUALIFIED PERSON

This certificate applies to the Technical Report entitled: “NI 43-101 Technical Report Mineral Project Exploration Information, Tintic Project, Utah, U.S.A.” prepared for Ivanhoe Electric Inc. (the “issuer”) dated November 1, 2021, with an effective date of May 5, 2021 (the “Technical Report”).

I, Andre Marcel Deiss, BSc. (Hons), do hereby certify that:

- 1 I am a Principal Consultant with the firm SRK Consulting (Canada) Inc., which has an office at Suite 2200 – 1066 West Hastings Street, Vancouver, British Columbia, V6E 3X2, Canada.
- 2 I graduated from the University of the Witwatersrand - BSc. (1992) and BSc. Hons (1993). I have worked as a geoscientist for a total of 27 years since my graduation from university with experience in geology and geostatistics. I have operational experience in exploration, open pit and underground scenarios. Acting in a consulting capacity since 2000, I have provided geological, geostatistical and mine planning services to companies in Southern and Eastern Africa, Europe, Asia, North and South America. I have extensive experience with base metal and precious metal exploration and mining projects such as the Tintic Project.
- 3 I am a member in good standing of the South African Council for Natural Scientific Professions (SACNASP), registration number 400007/97.
- 4 I have not personally inspected the subject property.
- 5 I have read the definition of “qualified person” set out in National Instrument 43-101 *Standards of Disclosure for Mineral Projects* (“NI 43-101”) and certify that by virtue of my education, affiliation to a professional association and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101.
- 6 I am independent of the issuer as defined in Section 1.5 of NI 43-101.
- 7 I accept professional responsibility for all sections of this Technical Report with the exception of Sections 7, 8 and 12.1.1.
- 8 I have had no prior involvement with the subject property.
- 9 As of the effective date of the Technical Report, to the best of my knowledge, information and belief, the portions of the Technical Report for which I am responsible contains all scientific and technical information that is required to be disclosed to make the portions of the Technical Report not misleading.
- 10 I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.

Dated this 1st day of November 2021, in Vancouver, British Columbia, Canada.

A circular stamp containing a signature and the text: "This signature has been scanned for its use in this particular document. The original signature is held on file."

["signed and sealed"]

Andre Marcel Deiss, BSc. (Hons)

Principal Consultant – Resource Geology

SRK Consulting (Canada) Inc.

CERTIFICATE OF QUALIFIED PERSON

This certificate applies to the Technical Report entitled: "NI 43-101 Technical Report Mineral Project Exploration Information, Tintic Project, Utah, U.S.A." prepared for Ivanhoe Electric Inc. (the "issuer") dated November 1, 2021, with an effective date of May 5, 2021 (the "Technical Report").

I, Brooke Miller Clarkson, MSc, BA, CPG, do hereby certify that:

- 1 I am a Senior Resource Geologist with the firm SRK Consulting (Canada) Inc., which has an office at 5250 Neil Road, Reno, Nevada 89502.
- 2 I graduated with a degree in Bachelor of Arts degree in Geology from Lawrence University in 2002. In addition, I have obtained a Master of Science degree in Geological Sciences from The University of Oregon in 2004.
- 3 I am a Certified Professional Geologist, registration number 11668.
- 4 I visited the Tintic Property between the 10th and 11th November 2020.
- 5 I have read the definition of "qualified person" set out in National Instrument 43-101 *Standards of Disclosure for Mineral Projects* ("NI 43-101") and certify that by virtue of my education, affiliation to a professional association and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 6 I am independent of the issuer as defined in Section 1.5 of NI 43-101.
- 7 I accept professional responsibility for Sections 7, 8 and 12.1.1.
- 8 I have had no prior involvement with the subject property.
- 9 As of the effective date of the Technical Report, to the best of my knowledge, information and belief, the portions of the Technical Report for which I am responsible contains all scientific and technical information that is required to be disclosed to make the portions of the Technical Report not misleading.
- 10 I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.

Dated this 1st day of November 2021, in Reno, Nevada, U.S.A.

This signature was scanned for the exclusive use of this document with the author's approval. Any other use is not authorized.


["signed and sealed"]

Brooke Miller Clarkson, MSc., BA, CPG

Senior Resource Geologist

SRK Consulting (U.S.) Inc.

Appendix B: Mineral Titles

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|---------------------|-----------|------------|--|--------------|
| Patented-Purchased | PLYMOTH ROCK | MS 3791 | | Purchased from Glead G. Toombes 1638 E Sunnyside Ave Salt Lake City UT 84105 | 20.1322 |
| Patented-Purchased | PLYMOTH ROCK NO. 1 | MS 3791 | | Purchased from Glead G. Toombes 1638 E Sunnyside Ave Salt Lake City UT 84105 | 20.102 |
| Patented-Purchased | PLYMOTH ROCK NO. 4 | MS 3791 | | Purchased from Glead G. Toombes 1638 E Sunnyside Ave Salt Lake City UT 84105 | 20.23216 |
| Patented-Purchased | BEATRICE D. | MS 4308 | | Purchased from Grand Central Silver Mines (Centurion Mines). | 4.917152 |
| Patented-Purchased | WINRIDGE NO. 2 | MS 3615 | | Purchased from Mark Oldroyd | 8.810904 |
| Patented-Purchased | WIND RIDGE | MS 3615 | | Purchased from Mark Oldroyd | 5.338687 |
| Patented-Purchased | SUNSET | MS 3371 | | Purchased from Spenst Hansen | 2.089324 |
| Patented-Purchased | STOCKTON NO. 3 | MS 3367 | | Purchased from Spenst Hansen | 7.674115 |
| Patented-Purchased | STOCKTON NO. 2 | MS 3366 | | Purchased from Spenst Hansen | 5.988302 |
| Patented-Purchased | STOCKTON | MS 3365 | | Purchased from Spenst Hansen | 5.930216 |
| Patented-Purchased | LAKEVIEW | MS 3364 | | Purchased from Spenst Hansen | 5.997038 |
| Patented-Purchased | WEST SIDE CONTACT | MS 7011 | | Purchased from Spenst Hansen | 19.78624 |
| Patented-Purchased | GOOD FRACTION | MS 7011 | | Purchased from Spenst Hansen | 13.20965 |
| Patented-Purchased | THOMAS | MS 7011 | | Purchased from Spenst Hansen | 16.12821 |
| Patented-Purchased | SUN SET NO. 4 | MS 7011 | | Purchased from Spenst Hansen | 18.32637 |
| Patented-Purchased | TOPIC NO. 2 | MS 7011 | | Purchased from Spenst Hansen | 18.29978 |
| Patented-Purchased | RISING SUN | MS 7011 | | Purchased from Spenst Hansen | 11.72549 |
| Patented-Purchased | DELLA | MS 7011 | | Purchased from Spenst Hansen | 19.51649 |
| Patented-Purchased | RANGER AM | | LOT 336 | Purchased from Spenst Hansen | 16.77896 |
| Patented-Purchased | LAST CHANCE AM | | LOT 336 | Purchased from Spenst Hansen | 8.326389 |
| Patented-Purchased | JULIAN LANE | | LOT 77 | Purchased from Spenst Hansen | 5.509206 |
| Patented-Purchased | GOLDEN TREASURE | | LOT 78 | Purchased from Spenst Hansen | 7.346121 |
| Patented-Purchased | DAISEY HAMILTON | | LOT 316 | Purchased from Spenst Hansen | 6.626826 |
| Patented-Purchased | GRACE ELY | | LOT 317 | Purchased from Spenst Hansen | 7.051704 |
| Patented-Purchased | JUSTICE | MS 3337 | | Purchased from Spenst Hansen | 20.57732 |
| Patented-Purchased | GRACIE | MS 3337 | | Purchased from Spenst Hansen | 19.25692 |
| Patented-Purchased | BIMETALLIST | MS 3339 | | Purchased from Spenst Hansen | 13.59321 |
| Patented-Purchased | DUBEI | MS 3940 | | Purchased from Spenst Hansen | 20.55358 |
| Patented-Purchased | JENNIE | MS 4098 | | Purchased from Spenst Hansen | 18.4762 |
| Patented-Purchased | ORE BIN EXTENSION | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | JENNIE EXTENSION | MS 7001 | | Purchased from Spenst Hansen | 20.66087 |
| Patented-Purchased | CLIFF | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | TINTIC COPPER | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | TINTIC COPPER NO. 1 | MS 7001 | | Purchased from Spenst Hansen | 20.66087 |
| Patented-Purchased | GOLD COIN | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | EAST GOLD COIN | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | BEACON NO. 3 | MS 7001 | | Purchased from Spenst Hansen | 20.66129 |
| Patented-Purchased | BEACON NO. 2 | MS 7001 | | Purchased from Spenst Hansen | 20.66107 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|--------------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | BEACON NO. 1 | MS 7001 | | Purchased from Spenst Hansen | 20.66129 |
| Patented-Purchased | TINTIC COPPER NO. 4 | MS 7001 | | Purchased from Spenst Hansen | 20.66129 |
| Patented-Purchased | TINTIC COPPER NO. 3 | MS 7001 | | Purchased from Spenst Hansen | 20.66107 |
| Patented-Purchased | TINTIC COPPER NO. 2 | MS 7001 | | Purchased from Spenst Hansen | 20.66129 |
| Patented-Purchased | VOLCANIC RIDGE | MS 7001 | | Purchased from Spenst Hansen | 20.66129 |
| Patented-Purchased | EAST GOLD COIN EXTENSION | MS 7001 | | Purchased from Spenst Hansen | 20.66107 |
| Patented-Purchased | INCENSE | MS 7001 | | Purchased from Spenst Hansen | 20.649 |
| Patented-Purchased | MAMMON | MS 7001 | | Purchased from Spenst Hansen | 20.5583 |
| Patented-Purchased | CONVERSANT | MS 7001 | | Purchased from Spenst Hansen | 20.64174 |
| Patented-Purchased | PINNACLE | MS 7001 | | Purchased from Spenst Hansen | 20.6436 |
| Patented-Purchased | TINTIC COPPER NO. 6 | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | TINTIC COPPER NO. 5 | MS 7001 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | PROFIT | MS 7001 | | Purchased from Spenst Hansen | 16.45727 |
| Patented-Purchased | TILT | MS 7001 | | Purchased from Spenst Hansen | 20.5842 |
| Patented-Purchased | ORE BIN | MS 7001 | | Purchased from Spenst Hansen | 20.6028 |
| Patented-Purchased | PROD | MS 7168 | | Purchased from Spenst Hansen | 20.6528 |
| Patented-Purchased | PRY | MS 7168 | | Purchased from Spenst Hansen | 20.65302 |
| Patented-Purchased | CLIFT | MS 3413 | | Purchased from Spenst Hansen | 6.633736 |
| Patented-Purchased | FRANKLIN CONSOLIDATED | MS 3931 | | Purchased from Spenst Hansen | 10.09293 |
| Patented-Purchased | JENNIE | MS 3931 | | Purchased from Spenst Hansen | 9.90998 |
| Patented-Purchased | MAGNA CHARTA | | LOT 146 | Purchased from Spenst Hansen | 6.616934 |
| Patented-Purchased | JACKMAN | | LOT 125 | Purchased from Spenst Hansen | 6.776345 |
| Patented-Purchased | GLADSTONE | | LOT 127 | Purchased from Spenst Hansen | 6.647385 |
| Patented-Purchased | ARGENTA | | LOT 147 | Purchased from Spenst Hansen | 5.972414 |
| Patented-Purchased | 2G | MS 3012 | | Purchased from Spenst Hansen | 5.139507 |
| Patented-Purchased | SOUTH STAR | MS 3010 | | Purchased from Spenst Hansen | 3.580422 |
| Patented-Purchased | MICHIGAN | | LOT 149 | Purchased from Spenst Hansen | 3.81805 |
| Patented-Purchased | COLORADO CHIEF | | LOT 139 | Purchased from Spenst Hansen | 6.882092 |
| Patented-Purchased | PATTI | MS 4027 | | Purchased from Spenst Hansen | 2.217304 |
| Patented-Purchased | CROWN POINT | | LOT 113 | Purchased from Spenst Hansen | 6.700437 |
| Patented-Purchased | COSMOPOLITE NO. 2 | | LOT 140 | Purchased from Spenst Hansen | 6.886288 |
| Patented-Purchased | ALMO | MS 3009 | | Purchased from Spenst Hansen | 3.850211 |
| Patented-Purchased | VOLTAIRE FRAC | MS 6540 | | Purchased from Spenst Hansen | 0.028171 |
| Patented-Purchased | BECK FRACTION | MS 6634 | | Purchased from Spenst Hansen | 0.301 |
| Patented-Purchased | SILVER COIN | | LOT 98 | Purchased from Spenst Hansen | 6.234352 |
| Patented-Purchased | VOLTAIRE | | LOT 103 | Purchased from Spenst Hansen | 6.517164 |
| Patented-Purchased | FLAGSTAFF | | LOT 324 | Purchased from Spenst Hansen | 20.26756 |
| Patented-Purchased | CHAMPION NO. 2 | | LOT 73 | Purchased from Spenst Hansen | 3.741835 |
| Patented-Purchased | PERFECTO | MS 3121 | | Purchased from Spenst Hansen | 2.47555 |
| Patented-Purchased | DIVIDE | | LOT 313 | Purchased from Spenst Hansen | 20.61856 |
| Patented-Purchased | LAST SHOW | MS 3268 | | Purchased from Spenst Hansen | 4.282763 |
| Patented-Purchased | LEONORA | MS 3370 | | Purchased from Spenst Hansen | 18.22886 |
| Patented-Purchased | RAVINE | MS 4391 | | Purchased from Spenst Hansen | 2.337753 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|-------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | WHITTAKER | MS 5650 | | Purchased from Spenst Hansen | 14.72944 |
| Patented-Purchased | ELIZABETH MINE | MS 5650 | | Purchased from Spenst Hansen | 0.661171 |
| Patented-Purchased | CLEVELAND | | LOT 295 | Purchased from Spenst Hansen | 4.136116 |
| Patented-Purchased | MIDDLE ATLAS AM | | LOT 295 | Purchased from Spenst Hansen | 13.6588 |
| Patented-Purchased | YOUNG MAMMOTH | | LOT 94 | Purchased from Spenst Hansen | 4.254992 |
| Patented-Purchased | WEST BULLION | | LOT 90 | Purchased from Spenst Hansen | 4.075653 |
| Patented-Purchased | MARY L. | | LOT 154 | Purchased from Spenst Hansen | 6.609474 |
| Patented-Purchased | BELCHER | | LOT 155 | Purchased from Spenst Hansen | 5.734295 |
| Patented-Purchased | DEPREZIN | | LOT 248 | Purchased from Spenst Hansen | 4.409985 |
| Patented-Purchased | GOLDEN EAGLE | | LOT 287 | Purchased from Spenst Hansen | 6.640987 |
| Patented-Purchased | GENERAL LOGAN | | LOT 332 | Purchased from Spenst Hansen | 6.481816 |
| Patented-Purchased | W.W.C. | | LOT 163 | Purchased from Spenst Hansen | 5.060376 |
| Patented-Purchased | RYAN LODGE | MS 3060A | | Purchased from Spenst Hansen | 1.755535 |
| Patented-Purchased | MADEA LODGE | | LOT 225 | Purchased from Spenst Hansen | 20.4838 |
| Patented-Purchased | PARADISE LODGE | | LOT 255 | Purchased from Spenst Hansen | 5.782574 |
| Patented-Purchased | LAST GAP | MS 3004 | | Purchased from Spenst Hansen | 0.910062 |
| Patented-Purchased | GROVER CLEVELAND | MS 3007 | | Purchased from Spenst Hansen | 4.958841 |
| Patented-Purchased | SILVER GEM | | LOT 128 | Purchased from Spenst Hansen | 5.507408 |
| Patented-Purchased | LEGAL | | LOT 132 | Purchased from Spenst Hansen | 5.48707 |
| Patented-Purchased | EMMA AM | | LOT 143 | Purchased from Spenst Hansen | 5.328565 |
| Patented-Purchased | SOLID MOULTOON | | LOT 283A | Purchased from Spenst Hansen | 5.808405 |
| Patented-Purchased | HARRISON | | LOT 175 | Purchased from Spenst Hansen | 6.317255 |
| Patented-Purchased | VICTORE NO. 2 | MS 4218 | | Purchased from Spenst Hansen | 3.215874 |
| Patented-Purchased | CENTER | MS 4219 | | Purchased from Spenst Hansen | 0.983084 |
| Patented-Purchased | UNION | | LOT 300 | Purchased from Spenst Hansen | 4.758374 |
| Patented-Purchased | LOUISA LODGE | | LOT 299 | Purchased from Spenst Hansen | 5.589144 |
| Patented-Purchased | SULLIVAN LODGE | | LOT 254 | Purchased from Spenst Hansen | 21.12122 |
| Patented-Purchased | SIX SHOOTER | | LOT 252 | Purchased from Spenst Hansen | 5.39521 |
| Patented-Purchased | MOUNT HOPE LODGE | | LOT 253 | Purchased from Spenst Hansen | 20.22233 |
| Patented-Purchased | PLUTUS | | LOT 228 | Purchased from Spenst Hansen | 19.66999 |
| Patented-Purchased | WEDGEWOOD LODGE | | LOT 230 | Purchased from Spenst Hansen | 13.44941 |
| Patented-Purchased | KING WILLIAM | | LOT 193 | Purchased from Spenst Hansen | 21.17083 |
| Patented-Purchased | APRIL FRACTION | MS 6584 | | Purchased from Spenst Hansen | 1.412262 |
| Patented-Purchased | TUNNEL | MS 6084 | | Purchased from Spenst Hansen | 2.961481 |
| Patented-Purchased | LEADVILLE | MS 6081 | | Purchased from Spenst Hansen | 0.967452 |
| Patented-Purchased | SARATOGA | MS 3013 | | Purchased from Spenst Hansen | 4.216946 |
| Patented-Purchased | MONTANA | | LOT 40 | Purchased from Spenst Hansen | 4.648757 |
| Patented-Purchased | GENERAL HARRISON | | LOT 308 | Purchased from Spenst Hansen | 17.50455 |
| Patented-Purchased | BULLION | | LOT 68 | Purchased from Spenst Hansen | 2.282323 |
| Patented-Purchased | BECK | | LOT 74 | Purchased from Spenst Hansen | 5.316951 |
| Patented-Purchased | BLUE ROCK | | LOT 75 | Purchased from Spenst Hansen | 2.755021 |
| Patented-Purchased | CENTENNIAL EUREKA | | LOT 67 | Purchased from Spenst Hansen | 6.144291 |
| Patented-Purchased | BULLION | | LOT 76 | Purchased from Spenst Hansen | 5.06119 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|-------------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | SUMMIT | | LOT 134 | Purchased from Spenst Hansen | 5.993288 |
| Patented-Purchased | LOOKOUT | | LOT 133 | Purchased from Spenst Hansen | 4.348748 |
| Patented-Purchased | COMSTOCK | | LOT 153 | Purchased from Spenst Hansen | 4.819243 |
| Patented-Purchased | OVERMAN | | LOT 162 | Purchased from Spenst Hansen | 6.10314 |
| Patented-Purchased | KENDALL | | LOT 169 | Purchased from Spenst Hansen | 4.669695 |
| Patented-Purchased | HORN SILVER | | LOT 203A | Purchased from Spenst Hansen | 7.22551 |
| Patented-Purchased | CAROLINE | | LOT 292 | Purchased from Spenst Hansen | 0.692658 |
| Patented-Purchased | SOUTH EXTENSION ECLIPSE | | LOT 245 | Purchased from Spenst Hansen | 6.857517 |
| Patented-Purchased | ONTARIO | | LOT 285 | Purchased from Spenst Hansen | 4.507518 |
| Patented-Purchased | SILVER GLANCE | | LOT 288 | Purchased from Spenst Hansen | 2.245829 |
| Patented-Purchased | GEORGE A. WILSON | | LOT 296 | Purchased from Spenst Hansen | 6.779939 |
| Patented-Purchased | FRANKLIN | | LOT 246 | Purchased from Spenst Hansen | 5.54258 |
| Patented-Purchased | BANGER | | LOT 249 | Purchased from Spenst Hansen | 5.934465 |
| Patented-Purchased | STYX LODGE | | LOT 346 | Purchased from Spenst Hansen | 6.642806 |
| Patented-Purchased | HADES | | LOT 346 | Purchased from Spenst Hansen | 6.429257 |
| Patented-Purchased | PLUTO | | LOT 346 | Purchased from Spenst Hansen | 6.460389 |
| Patented-Purchased | WEST MAMMOTH | | LOT 318 | Purchased from Spenst Hansen | 11.36132 |
| Patented-Purchased | HOMESTAKE | MS 3059 | | Purchased from Spenst Hansen | 4.098773 |
| Patented-Purchased | MORTON LODGE | | LOT 247A | Purchased from Spenst Hansen | 21.17202 |
| Patented-Purchased | ALICE | MS 3568 | | Purchased from Spenst Hansen | 14.20443 |
| Patented-Purchased | BESS AM | MS 3771 | | Purchased from Spenst Hansen | 4.093796 |
| Patented-Purchased | ANNA NO. 2 | MS 4320 | | Purchased from Spenst Hansen | 4.490533 |
| Patented-Purchased | TIP TOP | MS 4395 | | Purchased from Spenst Hansen | 1.812704 |
| Patented-Purchased | LEO LODGE | MS 6475 | | Purchased from Spenst Hansen | 9.801367 |
| Patented-Purchased | MAMMOTH NO. 1 EXTENSION | | LOT 38 | Purchased from Spenst Hansen | 13.77354 |
| Patented-Purchased | EUREKA | | LOT 39 | Purchased from Spenst Hansen | 7.515212 |
| Patented-Purchased | GOLDEN KING LODGE AM | | LOT 92 | Purchased from Spenst Hansen | 6.741835 |
| Patented-Purchased | SILVEROPOLIS LODGE | | LOT 135 | Purchased from Spenst Hansen | 10.47477 |
| Patented-Purchased | BRADLEY | | LOT 158 | Purchased from Spenst Hansen | 20.67528 |
| Patented-Purchased | WELDING | | LOT 159 | Purchased from Spenst Hansen | 21.21343 |
| Patented-Purchased | EUREKA NO. 5 | | LOT 170 | Purchased from Spenst Hansen | 0.944222 |
| Patented-Purchased | DOVE LODGE | | LOT 269 | Purchased from Spenst Hansen | 19.30426 |
| Patented-Purchased | SWAN LODGE | | LOT 270 | Purchased from Spenst Hansen | 10.34899 |
| Patented-Purchased | PELICAN | | LOT 271 | Purchased from Spenst Hansen | 13.6337 |
| Patented-Purchased | CONSORT | | LOT 272 | Purchased from Spenst Hansen | 13.17864 |
| Patented-Purchased | REBEL | | LOT 301 | Purchased from Spenst Hansen | 5.834012 |
| Patented-Purchased | CHRISTOPHER COLUMBUS | MS 3037 | | Purchased from Spenst Hansen | 3.29359 |
| Patented-Purchased | SNOW BIRD LODGE | MS 3037 | | Purchased from Spenst Hansen | 3.93009 |
| Patented-Purchased | CAROLINE TRIANGLE | MS 3062 | | Purchased from Spenst Hansen | 0.794026 |
| Patented-Purchased | WEST MEDEA | MS 3213 | | Purchased from Spenst Hansen | 2.990309 |
| Patented-Purchased | JACOBS | MS 3227 | | Purchased from Spenst Hansen | 0.088388 |
| Patented-Purchased | PROVO | MS 3256 | | Purchased from Spenst Hansen | 5.393256 |
| Patented-Purchased | LION | MS 3490 | | Purchased from Spenst Hansen | 17.64709 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|---------------------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | SCHLEY | MS 3770 | | Purchased from Spenst Hansen | 3.541624 |
| Patented-Purchased | BANARD | MS 4560 | | Purchased from Spenst Hansen | 0.018027 |
| Patented-Purchased | ALLEN | MS 4561 | | Purchased from Spenst Hansen | 0.139207 |
| Patented-Purchased | BROWN | MS 4562 | | Purchased from Spenst Hansen | 0.019383 |
| Patented-Purchased | LITTLE WILL | MS 3083 | | Purchased from Spenst Hansen | 0.091016 |
| Patented-Purchased | BOYD | MS 5310A | | Purchased from Spenst Hansen | 0.340596 |
| Patented-Purchased | SOUTH EXTENSION OF WEST MAMMOTH | MS 5348 | | Purchased from Spenst Hansen | 1.464732 |
| Patented-Purchased | MAMMOTH FRACTION | MS 6167 | | Purchased from Spenst Hansen | 9.911531 |
| Patented-Purchased | SOUTH ALTA | MS 3228 | | Purchased from Spenst Hansen | 1.335372 |
| Patented-Purchased | VICTORIA | | LOT 217 | Purchased from Spenst Hansen | 9.499706 |
| Patented-Purchased | GRAND CENTRAL | MS 3037 | | Purchased from Spenst Hansen | 12.6312 |
| Patented-Purchased | DECEMBER | MS 3491 | | Purchased from Spenst Hansen | 5.973672 |
| Patented-Purchased | BUDDY | MS 6883 | | Purchased from Spenst Hansen | 4.733759 |
| Patented-Purchased | PHEBE SHULER | MS 3368 | | Purchased from Spenst Hansen | 4.405778 |
| Patented-Purchased | ENTERPRISE | | LOT 326 | Purchased from Spenst Hansen | 4.370416 |
| Patented-Purchased | LIZZIE | | LOT 320 | Purchased from Spenst Hansen | 5.723484 |
| Patented-Purchased | DANDY | | LOT 320 | Purchased from Spenst Hansen | 6.464479 |
| Patented-Purchased | DUDE | | LOT 320 | Purchased from Spenst Hansen | 6.71199 |
| Patented-Purchased | MARS | | LOT 320 | Purchased from Spenst Hansen | 6.71199 |
| Patented-Purchased | JUPITER | | LOT 320 | Purchased from Spenst Hansen | 15.56395 |
| Patented-Purchased | MAMMOTH MINE | | LOT 37 | Purchased from Spenst Hansen | 4.751426 |
| Patented-Purchased | MAMMOTH 2 & 3 | | LOT 65 | Purchased from Spenst Hansen | 1.834179 |
| Patented-Purchased | COLCONDA LODE | | LOT 293 | Purchased from Spenst Hansen | 20.66091 |
| Patented-Purchased | STEELE | MS 6749 | | Purchased from Spenst Hansen | 1.313246 |
| Patented-Purchased | STEEL NO. 2 | MS 6843 | | Purchased from Spenst Hansen | 0.695753 |
| Patented-Purchased | SOUTH MAMMOTH | | LOT 63 | Purchased from Spenst Hansen | 4.591452 |
| Patented-Purchased | PHOENIX | | LOT 152 | Purchased from Spenst Hansen | 10.06897 |
| Patented-Purchased | HUNGARIAN | | LOT 164 | Purchased from Spenst Hansen | 6.529955 |
| Patented-Purchased | DOM PEDRO 2ND | | LOT 172 | Purchased from Spenst Hansen | 15.63086 |
| Patented-Purchased | WEST MAMMOTH | | LOT 319 | Purchased from Spenst Hansen | 7.695916 |
| Patented-Purchased | CHAMPLAIN NO. 2 AM | | LOT 174 | Purchased from Spenst Hansen | 5.507905 |
| Patented-Purchased | COPPEROPOLIS NO. 2 AM | | LOT 160 | Purchased from Spenst Hansen | 11.78823 |
| Patented-Purchased | GOLDEN CHAIN | | LOT 339 | Purchased from Spenst Hansen | 11.07649 |
| Patented-Purchased | SIDEVIEW | MS 2946 | | Purchased from Spenst Hansen | 4.149234 |
| Patented-Purchased | FAIRVIEW | MS 2951 | | Purchased from Spenst Hansen | 4.227606 |
| Patented-Purchased | ONIDA | MS 2950 | | Purchased from Spenst Hansen | 2.372186 |
| Patented-Purchased | HARKER | MS 3289 | | Purchased from Spenst Hansen | 0.85744 |
| Patented-Purchased | BELCHER | MS 3750 | | Purchased from Spenst Hansen | 6.935477 |
| Patented-Purchased | MISSING LINK | MS 4572 | | Purchased from Spenst Hansen | 4.22633 |
| Patented-Purchased | AMERICAN EAGLE | MS 4679 | | Purchased from Spenst Hansen | 1.038171 |
| Patented-Purchased | SILVER CHAIN | MS 5880 | | Purchased from Spenst Hansen | 12.03037 |
| Patented-Purchased | GOLD CHAIN FRACTION | MS 6191 | | Purchased from Spenst Hansen | 4.55315 |
| Patented-Purchased | ESSEM | MS 6977 | | Purchased from Spenst Hansen | 6.241642 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|--------------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | FRACTION | MS 3233 | | Purchased from Spenst Hansen | 4.918933 |
| Patented-Purchased | NAPOLION | MS 3442 | | Purchased from Spenst Hansen | 5.345198 |
| Patented-Purchased | VENUS | MS 4392 | | Purchased from Spenst Hansen | 0.492489 |
| Patented-Purchased | WEST MAMMOTH LODE | | LOT 173 | Purchased from Spenst Hansen | 3.326063 |
| Patented-Purchased | CARISA | | LOT 56 | Purchased from Spenst Hansen | 6.523833 |
| Patented-Purchased | LA BONTA | | LOT 122 | Purchased from Spenst Hansen | 6.608411 |
| Patented-Purchased | WOLF | | LOT 244 | Purchased from Spenst Hansen | 12.15758 |
| Patented-Purchased | NORTHERN SPY | | LOT 129 | Purchased from Spenst Hansen | 5.920027 |
| Patented-Purchased | CAPTAIN S. | MS 4054 | | Purchased from Spenst Hansen | 1.493239 |
| Patented-Purchased | LAKEVIEW GOLD AND SILVER | | LOT 342 | Purchased from Spenst Hansen | 2.140224 |
| Patented-Purchased | CALIFORNIA | | LOT 342 | Purchased from Spenst Hansen | 1.874365 |
| Patented-Purchased | NEVADA | | LOT 342 | Purchased from Spenst Hansen | 2.190349 |
| Patented-Purchased | JIM FISK | MS 4478 | | Purchased from Spenst Hansen | 3.25045 |
| Patented-Purchased | VICTOR | MS 4480 | | Purchased from Spenst Hansen | 1.661844 |
| Patented-Purchased | CORDELIA ORTON | MS 4479 | | Purchased from Spenst Hansen | 1.989618 |
| Patented-Purchased | MICHIGAN FRACTION | MS 6635 | | Purchased from Spenst Hansen | 1.355413 |
| Patented-Purchased | HONORA | MS 4472 | | Purchased from Spenst Hansen | 0.33528 |
| Patented-Purchased | LILLIAN | | LOT 263 | Purchased from Spenst Hansen | 2.368359 |
| Patented-Purchased | CALIFORNIA | | LOT 114 | Purchased from Spenst Hansen | 6.887075 |
| Patented-Purchased | BROWNIE | MS 4053 | | Purchased from Spenst Hansen | 10.77725 |
| Patented-Purchased | SOUTH SWANSEA | | LOT 337 | Purchased from Spenst Hansen | 6.538377 |
| Patented-Purchased | WEST SWANSEA | | LOT 337 | Purchased from Spenst Hansen | 19.74903 |
| Patented-Purchased | RED McGLYNN | MS 3261 | | Purchased from Spenst Hansen | 0.058663 |
| Patented-Purchased | TRAIL | | LOT 121 | Purchased from Spenst Hansen | 6.963901 |
| Patented-Purchased | SILVER BAR NO. 2 | MS 6085 | | Purchased from Spenst Hansen | 19.79172 |
| Patented-Purchased | SILVER BAR NO. 1 | MS 6085 | | Purchased from Spenst Hansen | 17.16726 |
| Patented-Purchased | SILVER HILL NO. 3 | MS 4118 | | Purchased from Spenst Hansen | 13.62713 |
| Patented-Purchased | SILVER HILL NO. 1 | MS 4118 | | Purchased from Spenst Hansen | 5.198161 |
| Patented-Purchased | SILVER HILL NO. 2 | MS 4118 | | Purchased from Spenst Hansen | 4.512758 |
| Patented-Purchased | SILVER HILL NO. 4 | MS 4118 | | Purchased from Spenst Hansen | 10.48065 |
| Patented-Purchased | BLACK JACK | | LOT 101 | Purchased from Spenst Hansen | 6.366528 |
| Patented-Purchased | AMELIE RIVES ADDITION | MS 4550 | | Purchased from Spenst Hansen | 3.101864 |
| Patented-Purchased | AMELIE RIVES | MS 4550 | | Purchased from Spenst Hansen | 20.04948 |
| Patented-Purchased | PLYMOUTH ROCK NO. 8 | MS 3680 | | Purchased from Spenst Hansen | 12.48964 |
| Patented-Purchased | PLYMOUTH ROCK NO. 9 | MS 3680 | | Purchased from Spenst Hansen | 18.49045 |
| Patented-Purchased | PLYMOUTH ROCK NO. 10 | MS 3680 | | Purchased from Spenst Hansen | 19.04477 |
| Patented-Purchased | PLYMOUTH ROCK NO. 12 | MS 3680 | | Purchased from Spenst Hansen | 19.47675 |
| Patented-Purchased | PLYMOUTH ROCK NO. 11 | MS 3680 | | Purchased from Spenst Hansen | 12.21461 |
| Patented-Purchased | SANTA MONICA | MS 3861 | | Purchased from Spenst Hansen | 7.577186 |
| Patented-Purchased | CAPE HORN NO. 2 | MS 6997 | | Purchased from Spenst Hansen | 13.60299 |
| Patented-Purchased | CAPE HORN NO. 11 | MS 6997 | | Purchased from Spenst Hansen | 20.66117 |
| Patented-Purchased | CAPE HORN NO. 10 | MS 6997 | | Purchased from Spenst Hansen | 20.53667 |
| Patented-Purchased | CAPE OF GOOD HOPE | MS 6997 | | Purchased from Spenst Hansen | 20.67338 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|------------------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | CLEVELAND | MS 3849 | | Purchased from Spenst Hansen | 18.99921 |
| Patented-Purchased | EVENING STAR | MS 3382 | | Purchased from Spenst Hansen | 5.959831 |
| Patented-Purchased | JANUARY | MS 3382 | | Purchased from Spenst Hansen | 16.14113 |
| Patented-Purchased | MOLLY BAWN | MS 3830 | | Purchased from Spenst Hansen | 16.59283 |
| Patented-Purchased | LAST CHANCE | MS 3830 | | Purchased from Spenst Hansen | 15.67315 |
| Patented-Purchased | SUNDAY | MS 3858 | | Purchased from Spenst Hansen | 2.877568 |
| Patented-Purchased | PRIMROSE | MS 3897 | | Purchased from Spenst Hansen | 6.241765 |
| Patented-Purchased | LUZERNE | MS 3927 | | Purchased from Spenst Hansen | 18.94839 |
| Patented-Purchased | SILVER KING | MS 3928 | | Purchased from Spenst Hansen | 10.41298 |
| Patented-Purchased | ECLIPSE | MS 4029 | | Purchased from Spenst Hansen | 15.42331 |
| Patented-Purchased | ECLIPSE NO. 2 | MS 4029 | | Purchased from Spenst Hansen | 6.134171 |
| Patented-Purchased | SEGO LILLY | MS 4127 | 0036-A | Purchased from Spenst Hansen | 9.74051 |
| Patented-Purchased | JOHN D. NO. 3 | MS 6429 | | Purchased from Spenst Hansen | 19.82451 |
| Patented-Purchased | JOHN D. NO. 1 | MS 6429 | | Purchased from Spenst Hansen | 19.80799 |
| Patented-Purchased | JOHN D. | MS 6429 | | Purchased from Spenst Hansen | 19.67713 |
| Patented-Purchased | JOHN D. NO. 2 | MS 6429 | | Purchased from Spenst Hansen | 19.75669 |
| Patented-Purchased | JOHN D. NO. 4 | MS 6429 | | Purchased from Spenst Hansen | 13.2516 |
| Patented-Purchased | OWL LODGE | MS 6429 | | Purchased from Spenst Hansen | 10.32204 |
| Patented-Purchased | RUBY NO. 57 | MS 6666 | | Purchased from Spenst Hansen | 19.82195 |
| Patented-Purchased | RUBY NO. 59 | MS 6666 | | Purchased from Spenst Hansen | 7.92863 |
| Patented-Purchased | RUBY NO. 58 | MS 6666 | | Purchased from Spenst Hansen | 19.73493 |
| Patented-Purchased | BOGDAN NO. 3 AM | MS 6666 | | Purchased from Spenst Hansen | 14.51972 |
| Patented-Purchased | BOGDAN FRACTION AM | MS 6666 | | Purchased from Spenst Hansen | 14.91798 |
| Patented-Purchased | BOGDAN NO. 2 | MS 6666 | | Purchased from Spenst Hansen | 19.79887 |
| Patented-Purchased | BOGDAN NO. 1 | MS 6666 | | Purchased from Spenst Hansen | 19.77264 |
| Patented-Purchased | SILVER DICK | MS 4127 | | Purchased from Spenst Hansen | 7.738548 |
| Patented-Purchased | MURRAY HILL | MS 4127 | | Purchased from Spenst Hansen | 7.765506 |
| Patented-Purchased | JOE DALEY | MS 3965 | | Purchased from Spenst Hansen | 6.241167 |
| Patented-Purchased | ANTELOPE FRACTION | MS 6014 | | Purchased from Spenst Hansen | 1.51093 |
| Patented-Purchased | ANTELOPE NO. 2 | MS 5999 | | Purchased from Spenst Hansen | 12.62455 |
| Patented-Purchased | ANTELOPE | MS 5999 | | Purchased from Spenst Hansen | 7.105021 |
| Patented-Purchased | HOME RULE | MS 3852 | | Purchased from Spenst Hansen | 5.920286 |
| Patented-Purchased | GARNET | MS 3852 | | Purchased from Spenst Hansen | 6.325427 |
| Patented-Purchased | CATASAUQUA | MS 5101 | | Purchased from Spenst Hansen | 19.45054 |
| Patented-Purchased | CATASAUQUA NO. 1 | MS 5101 | | Purchased from Spenst Hansen | 19.33196 |
| Patented-Purchased | CATASAUQUA NO. 2 | MS 5101 | | Purchased from Spenst Hansen | 19.33162 |
| Patented-Purchased | CATASAUQUA NO. 4 | MS 5101 | | Purchased from Spenst Hansen | 16.23016 |
| Patented-Purchased | CATASAUQUA NO. 3 | MS 5101 | | Purchased from Spenst Hansen | 11.32746 |
| Patented-Purchased | RED TRIANGLE | MS 6564 | | Purchased from Spenst Hansen | 4.006814 |
| Patented-Purchased | JOE BOWERS NO. 2 | MS 3801 | | Purchased from Spenst Hansen | 4.170041 |
| Patented-Purchased | SILVER SPAR | | LOT 47 | Purchased from Spenst Hansen | 5.770665 |
| Patented-Purchased | JOE BOWERS | | LOT 41 | Purchased from Spenst Hansen | 3.91049 |
| Patented-Purchased | SOUTH HALF SILVER SPAR LODGE | | LOT 102 | Purchased from Spenst Hansen | 5.295119 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|-----------------------------------|-----------|------------|-----------------------------|--------------|
| Patented-Purchased | NONESUCH LODE | | LOT 190 | Purchased from Spent Hansen | 5.642134 |
| Patented-Purchased | WALKER | | LOT 191 | Purchased from Spent Hansen | 6.204192 |
| Patented-Purchased | SUMMIT JOE BOWERS | | LOT 229 | Purchased from Spent Hansen | 2.238533 |
| Patented-Purchased | NO YOU DONT | MS 3929 | | Purchased from Spent Hansen | 1.676112 |
| Patented-Purchased | NEVER SWET | MS 4534 | | Purchased from Spent Hansen | 20.17925 |
| Patented-Purchased | NEVER SWET NO. 1 | MS 4534 | | Purchased from Spent Hansen | 20.16581 |
| Patented-Purchased | MADALIN NO. 3 | MS 6616 | | Purchased from Spent Hansen | 19.826 |
| Patented-Purchased | MADALIN NO. 2 | MS 6616 | | Purchased from Spent Hansen | 19.72543 |
| Patented-Purchased | MADALIN NO. 1 | MS 6616 | | Purchased from Spent Hansen | 15.754 |
| Patented-Purchased | MADALIN | MS 6616 | | Purchased from Spent Hansen | 6.484141 |
| Patented-Purchased | SHOWER | | LOT 48 | Purchased from Spent Hansen | 8.521489 |
| Patented-Purchased | SOUTHERLY EXTENSION OF JOE BOWERS | | LOT 60 | Purchased from Spent Hansen | 1.166628 |
| Patented-Purchased | CLEOPATRA | MS 3330 | | Purchased from Spent Hansen | 19.46959 |
| Patented-Purchased | CAPE HORN | MS 6997 | | Purchased from Spent Hansen | 17.15933 |
| Patented-Purchased | MAY NELL | MS 6997 | | Purchased from Spent Hansen | 20.64149 |
| Patented-Purchased | CAPE HORN NO. 1 | MS 6997 | | Purchased from Spent Hansen | 20.64105 |
| Patented-Purchased | CAPE HORN NO. 3 | MS 6997 | | Purchased from Spent Hansen | 15.0153 |
| Patented-Purchased | CAPE HORN NO. 7 | MS 6997 | | Purchased from Spent Hansen | 16.24373 |
| Patented-Purchased | CAPE HORN NO. 8 | MS 6997 | | Purchased from Spent Hansen | 14.81984 |
| Patented-Purchased | CAPE HORN NO. 6 | MS 6997 | | Purchased from Spent Hansen | 11.7768 |
| Patented-Purchased | CAPE HORN NO. 4 | MS 6997 | | Purchased from Spent Hansen | 20.64164 |
| Patented-Purchased | CAPE HORN NO. 5 | MS 6997 | | Purchased from Spent Hansen | 20.64101 |
| Patented-Purchased | PLYMOTH ROCK NO. 7 | MS 3865 | | Purchased from Spent Hansen | 6.099118 |
| Patented-Purchased | NORTH ALASKA | MS 4708 | | Purchased from Spent Hansen | 19.77474 |
| Patented-Purchased | LAST CHANCE | MS 4360 | | Purchased from Spent Hansen | 11.83713 |
| Patented-Purchased | IVANHOE | MS 4360 | | Purchased from Spent Hansen | 3.644405 |
| Patented-Purchased | LUCKY BOY | MS 4360 | | Purchased from Spent Hansen | 18.84064 |
| Patented-Purchased | MARY ELLEN | MS 4360 | | Purchased from Spent Hansen | 11.66574 |
| Patented-Purchased | EUCHRE | MS 4360 | | Purchased from Spent Hansen | 15.68975 |
| Patented-Purchased | RUBY NO. 55 | MS 6666 | | Purchased from Spent Hansen | 20.63874 |
| Patented-Purchased | ANA LARA | MS 4360 | | Purchased from Spent Hansen | 16.29107 |
| Patented-Purchased | BLUE BIRD | MS 4360 | | Purchased from Spent Hansen | 19.70921 |
| Patented-Purchased | RUBY NO. 56 | MS 6666 | | Purchased from Spent Hansen | 20.43217 |
| Patented-Purchased | LAST HOPE LODE | MS 3872 | | Purchased from Spent Hansen | 15.29349 |
| Patented-Purchased | JAMES | MS 3495 | | Purchased from Spent Hansen | 19.10643 |
| Patented-Purchased | IONE | MS 3860 | | Purchased from Spent Hansen | 15.02082 |
| Patented-Purchased | LITTLE HOPES | MS 4181 | | Purchased from Spent Hansen | 0.962366 |
| Patented-Purchased | DAMIFICARE | MS 4179 | | Purchased from Spent Hansen | 5.460215 |
| Patented-Purchased | CADAVER | MS 4180 | | Purchased from Spent Hansen | 1.337845 |
| Patented-Purchased | SOUTH EUREKA NO. 1 | MS 4563 | | Purchased from Spent Hansen | 14.09392 |
| Patented-Purchased | DANDY JIM | MS 4565 | | Purchased from Spent Hansen | 2.790402 |
| Patented-Purchased | ANITA | MS 4535 | | Purchased from Spent Hansen | 14.09962 |
| Patented-Purchased | HILLSIDE | MS 6068 | | Purchased from Spent Hansen | 4.256571 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|--------------------|-----------------------|-----------|------------|------------------------------|--------------|
| Patented-Purchased | WEST STAR | | LOT 233 | Purchased from Spenst Hansen | 8.96503 |
| Patented-Purchased | OPEHONGA AM | | LOT167 | Purchased from Spenst Hansen | 4.51369 |
| Patented-Purchased | ARGENTA | | LOT 290 | Purchased from Spenst Hansen | 16.19028 |
| Patented-Purchased | SILVER STAR | | LOT 290 | Purchased from Spenst Hansen | 4.95136 |
| Patented-Purchased | SILVER SPAR | | LOT 290 | Purchased from Spenst Hansen | 4.513623 |
| Patented-Purchased | LISBON | | LOT 290 | Purchased from Spenst Hansen | 3.856962 |
| Patented-Purchased | LEO | | LOT 290 | Purchased from Spenst Hansen | 8.625514 |
| Patented-Purchased | ANNIE MAY GUNDRY | MS 3241 | | Purchased from Spenst Hansen | 5.465355 |
| Patented-Purchased | ARDATH | MS 3332 | | Purchased from Spenst Hansen | 3.814131 |
| Patented-Purchased | PRINCE OF INDIA AM | MS 3836 | | Purchased from Spenst Hansen | 10.08207 |
| Patented-Purchased | SHELBY AM | MS 3983 | | Purchased from Spenst Hansen | 14.62639 |
| Patented-Purchased | KOH-I-NOR | MS 3046 | | Purchased from Spenst Hansen | 2.173993 |
| Patented-Purchased | ELGIN AM | MS 4019 | | Purchased from Spenst Hansen | 17.4493 |
| Patented-Purchased | MASCOT | | | Purchased from Spenst Hansen | 1.121683 |
| Patented-Purchased | SHEARER | MS 4573 | | Purchased from Spenst Hansen | 1.293474 |
| Patented-Purchased | IRON BLOSSOM | | LOT 115 | Purchased from Spenst Hansen | 4.983202 |
| Patented-Purchased | EAST STAR | | LOT 232 | Purchased from Spenst Hansen | 8.008821 |
| Patented-Purchased | BOSS TWEED EXTENSION | | LOT 237 | Purchased from Spenst Hansen | 2.150041 |
| Patented-Purchased | BOSS TWEED | | LOT 237 | Purchased from Spenst Hansen | 6.442589 |
| Patented-Purchased | VALEJO | | LOT 116 | Purchased from Spenst Hansen | 1.581385 |
| Patented-Purchased | NORTH STAR | | LOT 62 | Purchased from Spenst Hansen | 5.647977 |
| Patented-Purchased | RED ROSE | | LOT 91 | Purchased from Spenst Hansen | 6.188729 |
| Patented-Purchased | SANTAQUIN NO. 2 LODGE | | LOT 242 | Purchased from Spenst Hansen | 17.29298 |
| Patented-Purchased | BRAZIL LODGE NO. 2 | | LOT 274 | Purchased from Spenst Hansen | 6.07899 |
| Patented-Purchased | DESERT VIEW | MS 6135 | | Purchased from Spenst Hansen | 4.150657 |
| Patented-Purchased | MINERS DELIGHT | MS 3521 | | Purchased from Spenst Hansen | 11.85445 |
| Patented-Purchased | LAMAR | MS 5579 | | Purchased from Spenst Hansen | 11.27389 |
| Patented-Purchased | QUEEN OF THE WEST | MS 3899 | | Purchased from Spenst Hansen | 18.38191 |
| Patented-Purchased | ST. LOUIS | MS 4641 | | Purchased from Spenst Hansen | 20.3486 |
| Patented-Purchased | ST. LOUIS NO. 2 | MS 4641 | | Purchased from Spenst Hansen | 12.19624 |
| Patented-Purchased | NORTH CLIFT | MS 6474 | | Purchased from Spenst Hansen | 20.67781 |
| Patented-Purchased | WEST CLIFT | MS 6474 | | Purchased from Spenst Hansen | 20.6422 |
| Patented-Purchased | GRACE | MS 4522 | | Purchased from Spenst Hansen | 0.566501 |
| Patented-Purchased | VICTORY | | LOT 238 | Purchased from Spenst Hansen | 6.886809 |
| Patented-Purchased | JACKMAN FRACTION | MS 6636 | | Purchased from Spenst Hansen | 0.734417 |
| Patented-Purchased | CORNUCOPIA | MS 4171 | | Purchased from Spenst Hansen | 5.004533 |
| Patented-Purchased | NORA | | LOT 302 | Purchased from Spenst Hansen | 6.88687 |
| Patented-Purchased | MOORE | | LOT 120 | Purchased from Spenst Hansen | 6.88687 |
| Patented-Purchased | TESORA | | LOT 166 | Purchased from Spenst Hansen | 4.581763 |
| Patented-Purchased | INDEPENDENT | MS 3875 | | Purchased from Spenst Hansen | 12.95028 |
| Patented-Purchased | SNOWFLAKE | MS 3875 | | Purchased from Spenst Hansen | 4.94698 |
| Patented-Purchased | GOLDFIELD | MS 3875 | | Purchased from Spenst Hansen | 9.795042 |
| Patented-Purchased | FLAGSTAFF | MS 3875 | | Purchased from Spenst Hansen | 13.90531 |

| Claim Type | Claim Name | MS | LOT | Comment | Acres |
|--------------------|-------------------------|-----------|------------|--|--------------|
| Patented-Purchased | BURLEIGH | | LOT 179 | Purchased from Spenst Hansen | 17.49035 |
| Patented-Purchased | ALPHA | | LOT 105A | Purchased from Spenst Hansen | 6.856035 |
| Patented-Purchased | JENKINS | | LOT 93 | Purchased from Spenst Hansen | 4.555634 |
| Patented-Purchased | HARKNESS | | LOT 156 | Purchased from Spenst Hansen | 11.5251 |
| Patented-Purchased | ALTA | | LOT 161 | Purchased from Spenst Hansen | 6.791741 |
| Patented-Purchased | HUNG MILL SITE | MS 4511 | | Purchased from Spenst Hansen | 4.908311 |
| Patented-Purchased | CHANG MILL SITE | MS 4512 | | Purchased from Spenst Hansen | 4.918982 |
| Patented-Purchased | CHING MILL SITE | MS 4513 | | Purchased from Spenst Hansen | 4.948538 |
| Patented-Purchased | ROVER | | LOT 223 | Purchased from Spenst Hansen | 20.65588 |
| Patented-Purchased | SPACE | MS 3234 | | Purchased from Spenst Hansen | 11.31991 |
| Patented-Purchased | JUNO | MS 3747 | | Purchased from Spenst Hansen | 10.29597 |
| Patented-Purchased | LOWER MAMMOTH | MS 3221 | | Purchased from Spenst Hansen | 18.1826 |
| Patented-Purchased | AVALANCHE | MS 4523 | | Purchased from Spenst Hansen | 7.372568 |
| Patented-Purchased | SNOWBIRD | MS 4523 | | Purchased from Spenst Hansen | 3.289641 |
| Patented-Purchased | GOLCONDA | MS 3981 | | Purchased from Spenst Hansen | 5.014079 |
| Patented-Purchased | NELLIE | MS 6083 | | Purchased from Spenst Hansen | 14.18681 |
| Patented-Purchased | APEX | MS 2991 | | Purchased from Spenst Hansen | 19.82404 |
| Patented-Purchased | DUCH EMPIRE | MS 2991 | | Purchased from Spenst Hansen | 13.25958 |
| Patented-Purchased | BESSARABIA | MS 2991 | | Purchased from Spenst Hansen | 18.72539 |
| Patented-Purchased | CHIPPEWA | MS 2991 | | Purchased from Spenst Hansen | 14.38674 |
| Patented-Purchased | BUCKEYE | MS 3232 | | Purchased from Spenst Hansen | 14.22392 |
| Patented-Purchased | NORMAN | MS 3232 | | Purchased from Spenst Hansen | 16.29504 |
| Patented-Purchased | WILLIAM | MS 3496 | | Purchased from Spenst Hansen | 6.512144 |
| Patented-Purchased | MATCHLESS | MS 4443 | | Purchased from St. Marks Episcopal Cathedral | 20.60975 |
| Patented-Purchased | CHALLENGE | MS 4444 | | Purchased from St. Marks Episcopal Cathedral | 20.60933 |
| Patented-Purchased | YANKEE GIRL NO. 2 | MS 3242 | | Staked by HPX | 20.29371 |
| Patented-Purchased | SILVER REED NO. 2 | MS 5893 | | Staked by HPX | 5.254346 |
| Claim Type | Claim Name | MS | LOT | Comment | Acres |
| Patented-Leased | JESSAMINE | MS 3857 | | Leased from Adrian Gerritsen / Vashon | 10.83902 |
| Patented-Leased | DEW DROP | MS 4519 | | Leased from Applied Minerals | 16.31705 |
| Patented-Leased | TURK | MS 4519 | | Leased from Applied Minerals | 6.368245 |
| Patented-Leased | EASTERN | MS 4519 | | Leased from Applied Minerals | 6.568715 |
| Patented-Leased | MARCH | MS 4519 | | Leased from Applied Minerals | 15.79699 |
| Patented-Leased | DAISY | MS 4519 | | Leased from Applied Minerals | 4.459465 |
| Patented-Leased | JUNE | MS 4519 | | Leased from Applied Minerals | 5.011976 |
| Patented-Leased | BLACK DRAGON | | LOT 49 | Leased from Applied Minerals | 3.491053 |
| Patented-Leased | GOVENOR | | LOT 85 | Leased from Applied Minerals | 6.610984 |
| Patented-Leased | WHITE DRAGON | MS 4163 | | Leased from Applied Minerals | 0.520652 |
| Patented-Leased | FRANKIE NO. 2 | MS 4110 | | Leased from Applied Minerals | 13.53942 |
| Patented-Leased | FRANKIE NO. 1 | MS 4109 | | Leased from Applied Minerals | 13.40141 |
| Patented-Leased | MARTHA WASHINGTON NO. 2 | | LOT 137 | Leased from Applied Minerals | 5.198069 |
| Patented-Leased | SILVER COIN | | LOT 144 | Leased from Applied Minerals | 6.102232 |

| Claim Type | Claim Name | MS | LOT | Comment | Acres |
|-------------------|---|-----------|------------|--|--------------|
| Patented-Leased | JUNE ROSE | | LOT 136 | Leased from Applied Minerals | 2.135529 |
| Patented-Leased | GREAT WHEL VOR | | LOT 298 | Leased from Applied Minerals | 19.02425 |
| Patented-Leased | TINA | MS 3254 | | Leased from Applied Minerals | 0.555262 |
| Patented-Leased | CONTEST | | LOT 83 | Leased from Applied Minerals | 1.51508 |
| Patented-Leased | BROOKLIN | | LOT 86 | Leased from Applied Minerals | 5.06114 |
| Patented-Leased | ELISE NO. 2 | | LOT 222 | Leased from Applied Minerals | 4.981157 |
| Patented-Leased | SNAP DRAGON | MS 3195 | | Leased from Applied Minerals | 12.48017 |
| Patented-Leased | WILLIE GUNDRY | MS 3240 | | Leased from Applied Minerals | 9.783279 |
| Patented-Leased | SUNNY SIDE | MS 3782 | | Leased from Applied Minerals | 8.022843 |
| Patented-Leased | BROOKLYN NO. 2 | MS 3783 | | Leased from Applied Minerals | 2.517502 |
| Patented-Leased | GUARDIAN | MS 3852 | | Leased from Applied Minerals | 14.99539 |
| Patented-Leased | MARY | MS 3873 | | Leased from Applied Minerals | 15.75463 |
| Patented-Leased | RATTLER AM | | LOT 151 | Leased from Applied Minerals | 14.51007 |
| Patented-Leased | BLACK DRAGON FIRST EXT. SOUTH CLAIMS 3 & 4 | | LOT 79 | Leased from Applied Minerals | 1.697057 |
| Patented-Leased | CROSS DRAGON | | LOT 80 | Leased from Applied Minerals | 1.762071 |
| Patented-Leased | REVERSE | | LOT 81 | Leased from Applied Minerals | 3.951807 |
| Patented-Leased | ELISE | | LOT 84 | Leased from Applied Minerals | 2.838249 |
| Patented-Leased | REVERSE NO. 2 | | LOT 333 | Leased from Applied Minerals | 3.877537 |
| Patented-Leased | ROADSIDE | | LOT 150 | Leased from Applied Minerals | 9.624355 |
| Patented-Leased | IRON CLAD | | LOT 82 | Leased from Applied Minerals | 6.608371 |
| Patented-Leased | CYGNET | | LOT 334 | Leased from Applied Minerals | 18.56867 |
| Patented-Leased | NOM DE PLUME | | LOT 117 | Leased from Applied Minerals | 6.609033 |
| Patented-Leased | KING JAMES | | LOT 87 | Leased from Applied Minerals | 5.697251 |
| Patented-Leased | FRANKIE NO. 3 | MS 4111 | | Leased from Applied Minerals | 16.30417 |
| Patented-Leased | RIDGE NO. 2 | MS 5708 | | Leased from Crown Point | 19.28428 |
| Patented-Leased | RIDGE | MS 5708 | | Leased from Crown Point | 18.68237 |
| Patented-Leased | GOSHEN NO. 4 | MS 5708 | | Leased from Crown Point | 17.70733 |
| Patented-Leased | SUNNY SIDE | MS 3835 | | Leased from Crown Point | 17.41061 |
| Patented-Leased | DIVIDE NO. 2 | MS 5708 | | Leased from Crown Point | 19.42123 |
| Patented-Leased | CASTLE | MS 5714 | | Leased from Crown Point | 16.435 |
| Patented-Leased | MINNEY MOORE | MS 3835 | | Leased from Crown Point | 16.15023 |
| Patented-Leased | FRACTION | MS 3835 | | Leased from Crown Point | 5.386675 |
| Patented-Leased | GOSHEN NO. 1 | MS 5708 | | Leased from Crown Point | 15.53384 |
| Patented-Leased | MOUNTEBANK | MS 4088 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 5.615461 |
| Patented-Leased | MORMON CHIEF | MS 4080 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 7.560456 |
| Patented-Leased | INDIAN GIRL | MS 4086 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 3.670185 |
| Patented-Leased | EXTENSION SUNDAY | MS 4083 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 17.81335 |
| Patented-Leased | SUNDAY | MS 4082 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 16.81899 |
| Patented-Leased | PRIDE OF THE HILLS | MS 4081 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 6.834791 |
| Patented-Leased | PRIDE OF THE HILLS FRACTION | MS 4087 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 4.133154 |

| Claim Type | Claim Name | MS | LOT | Comment | Acres |
|-------------------|------------------------------------|-----------|------------|---|--------------|
| Patented-Leased | HELEN | MS 4085 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 2.977912 |
| Patented-Leased | SILVER STAR | MS 4084 | | Leased from Lawrence R. Lee, POBox 122, Nantucket, MA 02554-0122 | 6.860292 |
| Patented-Leased | GULCH | MS 5899 | | Leased from M. Todd Wilhite | 19.06931 |
| Patented-Leased | MONTEREY | MS 5899 | | Leased from M. Todd Wilhite | 17.02967 |
| Patented-Leased | IRON DUKE MINE | MS 5899 | | Leased from M. Todd Wilhite | 9.987411 |
| Patented-Leased | IRON SPAR | MS 4015 | | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 17.08247 |
| Patented-Leased | WEST ELMER RAY | MS 3874 | | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 15.35631 |
| Patented-Leased | TRIANGLE | MS 4090 | | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 7.425396 |
| Patented-Leased | SUNBEAM & FIRST SOUTHERN EXTENSION | | LOT 61 | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 2.801825 |
| Patented-Leased | FIRST SOUTHERN EXTENSION SUNBEAM | | LOT 64 | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 2.929713 |
| Patented-Leased | WEST SUNBEAM | MS 3820 | | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 11.8143 |
| Patented-Leased | SUNBEAM | | LOT 165 | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 3.220664 |
| Patented-Leased | SILVER MOON | MS 2953 | | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 0.750795 |
| Patented-Leased | ELMER RAY | | LOT 66 | Leased from New United Sunbeam Mining Company, LLC, a Utah limited liability company, c/o Alpine King, Inc., 1257 E Third Ave, Salt Lake City, UT 84103 | 6.795838 |
| Patented-Leased | X RAYS | MS 3941 | | Leased from Silver City Mines | 16.90819 |
| Patented-Leased | SENATOR AM | MS 3242 | | Leased from Silver City Mines | 15.7728 |
| Patented-Leased | YANKEE GIRL | MS 3242 | | Leased from Silver City Mines | 9.871254 |
| Patented-Leased | KINGSLEY | MS 3243 | | Leased from Silver City Mines | 12.5189 |
| Patented-Leased | BLUE ROCK CLAIM | MS 6015 | | Leased from Silver City Mines | 11.8658 |
| Patented-Leased | UTAH | MS 6015 | | Leased from Silver City Mines | 19.23299 |
| Patented-Leased | SILVER BOW | MS 6015 | | Leased from Silver City Mines | 6.59632 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|-------------------|---------------------|-----------|------------|--|--------------|
| Patented-Leased | GRANIT | MS 6015 | | Leased from Silver City Mines | 10.48053 |
| Patented-Leased | DIAMOND | | LOT 224 | Leased from Tintic Gold | 9.042499 |
| Patented-Leased | EMERALD | | LOT 224 | Leased from Tintic Gold | 18.54273 |
| Patented-Leased | RUBY | | LOT 224 | Leased from Tintic Gold | 19.16966 |
| Patented-Leased | ST. GEORGE | | LOT 289 | Leased from Anderson Trust (DUQUETTE, NOLAN, LELAND, MELANA) | 14.60675 |
| Patented-Leased | TRIP MINE | | LOT 289 | Leased from Anderson Trust (DUQUETTE, NOLAN, LELAND, MELANA) | 6.326473 |
| Patented-Leased | GEDDES CONSOLIDATED | MS 3297 | | Okelberry FIRST lease to HPX 2018 | 4.119528 |
| Patented-Leased | SWANSEA FRACTION | MS 3976 | | Okelberry FIRST lease to HPX 2018 | 1.47225 |
| Patented-Leased | NEW NATIONAL | MS 3976 | | Okelberry FIRST lease to HPX 2018 | 9.550784 |
| Patented-Leased | GO EASY | MS 6090 | | Okelberry FIRST lease to HPX 2018 | 21.66658 |
| Patented-Leased | DAD | MS 6090 | | Okelberry FIRST lease to HPX 2018 | 12.14552 |
| Patented-Leased | YORK | MS 4400 | | Okelberry FIRST lease to HPX 2018 | 16.06518 |
| Patented-Leased | JUNCTION | MS 3432 | | Okelberry FIRST lease to HPX 2018 | 18.29464 |
| Patented-Leased | JUNCTION NO. 2 | MS 3432 | | Okelberry FIRST lease to HPX 2018 | 19.66097 |
| Patented-Leased | JUNCTION NO. 4 | MS 3432 | | Okelberry FIRST lease to HPX 2018 | 15.29544 |
| Patented-Leased | JUNCTION NO. 3 | MS 3432 | | Okelberry FIRST lease to HPX 2018 | 15.76046 |
| Patented-Leased | MYRTLE | MS 3821 | | Okelberry FIRST lease to HPX 2018 | 19.48586 |
| Patented-Leased | RELIANCE | | LOT 138 | Okelberry lease to Spent 2015 | 4.302028 |
| Patented-Leased | COSMOPOLITE NO. 3 | | LOT 141 | Okelberry lease to Spent 2015 | 6.886742 |
| Patented-Leased | VENUS | MS 4198 | | Okelberry lease to Spent 2015 | 1.149681 |
| Patented-Leased | NOVEMBER LODGE | | LOT 211 | Okelberry lease to Spent 2015 | 6.860955 |
| Patented-Leased | UNCLE BEN | MS 3214 | | Okelberry lease to Spent 2015 | 17.48596 |
| Patented-Leased | HENDERSON | MS 3214 | | Okelberry lease to Spent 2015 | 15.23786 |
| Patented-Leased | ANNACONDA LODGE | | LOT 195A | Okelberry lease to Spent 2015 | 6.279653 |
| Patented-Leased | W.H. WHITON | | LOT 208A | Okelberry lease to Spent 2015 | 20.66173 |
| Patented-Leased | ANNA | MS 4320 | | Okelberry lease to Spent 2015 | 11.63954 |
| Patented-Leased | CAP | MS 5345 | | Okelberry lease to Spent 2015 | 7.323951 |
| Patented-Leased | YOUNG GIANT | MS 5706 | | Okelberry lease to Spent 2015, leased TO HPX | 17.60586 |
| Patented-Leased | DIVIDE LODGE | MS 5706 | | Okelberry lease to Spent 2015, leased TO HPX | 14.91236 |
| Patented-Leased | HEMITITE | MS 5472 | | Okelberry lease to Spent 2015, leased TO HPX | 15.33371 |
| Patented-Leased | LITTLE GIANT | MS 5171 | | Okelberry lease to Spent 2015, leased TO HPX | 19.51018 |
| Patented-Leased | ALICE | MS 4548 | | Okelberry lease to Spent 2015, leased TO HPX | 18.55586 |
| Patented-Leased | UNA LODGE | MS 4548 | | Okelberry lease to Spent 2015, leased TO HPX | 17.17093 |
| Patented-Leased | LITTLE CHIEF | MS 5171 | | Okelberry lease to Spent 2015, leased TO HPX | 18.82066 |
| Patented-Leased | EXCELSIOR | MS 5171 | | Okelberry lease to Spent 2015, leased TO HPX | 4.537393 |
| Patented-Leased | MILD WINTER | MS 5171 | | Okelberry lease to Spent 2015, leased TO HPX | 8.574286 |
| Patented-Leased | RUBY NO. 202 AM | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RUBY NO. 132 AM | MS 6770 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RUBY NO. 130 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66162 |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Comment</i> | <i>Acres</i> |
|-------------------|--------------------------|-----------|------------|------------------------------------|--------------|
| Patented-Leased | RUBY NO. 131 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66092 |
| Patented-Leased | RUBY NO. 100 AM | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RUBY NO. 161 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RUBY NO. 162 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66092 |
| Patented-Leased | RUBY NO. 160 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66162 |
| Patented-Leased | RUBY NO. 121 FRACTION | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 1.139 |
| Patented-Leased | RUBY NO. 181 | MS 6665 | | Okelberry SECOND lease to HPX 2019 | 20.66116 |
| Patented-Leased | RUBY NO. 182 | MS 6665 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RUBY NO. 180 | MS 6665 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RUBY NO. 200 | MS 6665 | | Okelberry SECOND lease to HPX 2019 | 20.66092 |
| Patented-Leased | RUBY NO. 201 | MS 6665 | | Okelberry SECOND lease to HPX 2019 | 20.66185 |
| Patented-Leased | RUBY NO. 121 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RUBY NO. 120 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66162 |
| Patented-Leased | RED CROSS NO. 143 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RED CROSS NO. 142 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RED CROSS NO. 141 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RED CROSS NO. 121 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RED CROSS NO. 122 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RED CROSS NO. 123 | MS 6640 | | Okelberry SECOND lease to HPX 2019 | 20.66162 |
| Patented-Leased | RED CROSS NO. 83 | MS 6587 | | Okelberry SECOND lease to HPX 2019 | 20.66967 |
| Patented-Leased | RED CROSS NO. 101 | MS 6587 | | Okelberry SECOND lease to HPX 2019 | 20.66116 |
| Patented-Leased | RED CROSS NO. 102 | MS 6587 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RED CROSS NO. 103 | MS 6587 | | Okelberry SECOND lease to HPX 2019 | 20.66185 |
| Patented-Leased | APEX NO. 2 | MS 3904 | | Okelberry SECOND lease to HPX 2019 | 12.74722 |
| Patented-Leased | LAST DOLLAR | MS 3904 | | Okelberry SECOND lease to HPX 2019 | 18.48558 |
| Patented-Leased | BLUE BIRD EXTENSION | MS 3904 | | Okelberry SECOND lease to HPX 2019 | 19.24525 |
| Patented-Leased | RUBY NO. 220 | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66069 |
| Patented-Leased | RUBY NO. 221 | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66185 |
| Patented-Leased | RUBY NO. 222 AM | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66092 |
| Patented-Leased | PARALLEL NO. 2 | MS 3868 | | Okelberry SECOND lease to HPX 2019 | 16.03513 |
| Patented-Leased | FREMONT | MS 3868 | | Okelberry SECOND lease to HPX 2019 | 6.806981 |
| Patented-Leased | VICTORIA NO. 2 | MS 3868 | | Okelberry SECOND lease to HPX 2019 | 19.99314 |
| Patented-Leased | COMPROMISE | MS 6699 | | Okelberry SECOND lease to HPX 2019 | 3.770567 |
| Patented-Leased | RED CROSS NO. 221 | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66116 |
| Patented-Leased | RED CROSS NO. 222 | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66138 |
| Patented-Leased | RED CROSS NO. 223 | MS 6696 | | Okelberry SECOND lease to HPX 2019 | 20.66092 |
| Patented-Leased | SPRING | | LOT 335 | Okelberry SECOND lease to HPX 2019 | 20.65789 |
| Patented-Leased | RED CROSS NO. 43 | MS 6608 | | Okelberry SECOND lease to HPX 2019 | 20.66185 |
| Patented-Leased | RED CROSS NO. 62 AMENDED | MS 6608 | | Okelberry SECOND lease to HPX 2019 | 20.6657 |
| Patented-Leased | RED CROSS NO. 63 | MS 6608 | | Okelberry SECOND lease to HPX 2019 | 20.65294 |
| Patented-Leased | RISING SUN | MS 3827 | | Okelberry SECOND lease to HPX 2019 | 20.11263 |
| Patented-Leased | RISING SUN NO. 2 | MS 3827 | | Okelberry SECOND lease to HPX 2019 | 13.91192 |
| Patented-Leased | RISING SUN NO. 3 | MS 3827 | | Okelberry SECOND lease to HPX 2019 | 13.20883 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 1 | UMC437291 |
| Unpatented | TT 2 | UMC437292 |
| Unpatented | TT 3 | UMC437293 |
| Unpatented | TT 4 | UMC437294 |
| Unpatented | TT 5 | UMC437295 |
| Unpatented | TT 6 | UMC437296 |
| Unpatented | TT 7 | UMC437297 |
| Unpatented | TT 8 | UMC437298 |
| Unpatented | TT 9 | UMC437299 |
| Unpatented | TT 10 | UMC437300 |
| Unpatented | TT 11 | UMC437301 |
| Unpatented | TT 12 | UMC437302 |
| Unpatented | TT 13 | UMC437303 |
| Unpatented | TT 14 | UMC437304 |
| Unpatented | TT 15 | UMC437305 |
| Unpatented | TT 16 | UMC437306 |
| Unpatented | TT 17 | UMC437307 |
| Unpatented | TT 18 | UMC437308 |
| Unpatented | TT 19 | UMC437309 |
| Unpatented | TT 20 | UMC437310 |
| Unpatented | TT 21 | UMC437311 |
| Unpatented | TT 22 | UMC437312 |
| Unpatented | TT 23 | UMC437313 |
| Unpatented | TT 24 | UMC437314 |
| Unpatented | TT 25 | UMC437315 |
| Unpatented | TT 26 | UMC437316 |
| Unpatented | TT 27 | UMC437317 |
| Unpatented | TT 28 | UMC437318 |
| Unpatented | TT 29 | UMC437319 |
| Unpatented | TT 30 | UMC437320 |
| Unpatented | TT 31 | UMC437321 |
| Unpatented | TT 32 | UMC437322 |
| Unpatented | TT 33 | UMC437323 |
| Unpatented | TT 34 | UMC437324 |
| Unpatented | TT 35 | UMC437325 |
| Unpatented | TT 36 | UMC437326 |
| Unpatented | TT 37 | UMC437327 |
| Unpatented | TT 38 | UMC437328 |
| Unpatented | TT 39 | UMC437329 |
| Unpatented | TT 40 | UMC437330 |
| Unpatented | TT 41 | UMC437331 |
| Unpatented | TT 42 | UMC437332 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 43 | UMC437333 |
| Unpatented | TT 44 | UMC437334 |
| Unpatented | TT 45 | UMC437335 |
| Unpatented | TT 46 | UMC437336 |
| Unpatented | TT 47 | UMC437337 |
| Unpatented | TT 48 | UMC437338 |
| Unpatented | TT 49 | UMC437339 |
| Unpatented | TT 50 | UMC437340 |
| Unpatented | TT 51 | UMC437341 |
| Unpatented | TT 52 | UMC437342 |
| Unpatented | TT 53 | UMC437343 |
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| Unpatented | TT 68 | UMC437358 |
| Unpatented | TT 69 | UMC437359 |
| Unpatented | TT 70 | UMC437360 |
| Unpatented | TT 71 | UMC437361 |
| Unpatented | TT 72 | UMC437362 |
| Unpatented | TT 73 | UMC437363 |
| Unpatented | TT 74 | UMC437364 |
| Unpatented | TT 75 | UMC437365 |
| Unpatented | TT 76 | UMC437366 |
| Unpatented | TT 77 | UMC437367 |
| Unpatented | TT 78 | UMC437368 |
| Unpatented | TT 79 | UMC437369 |
| Unpatented | TT 80 | UMC437370 |
| Unpatented | TT 81 | UMC437371 |
| Unpatented | TT 82 | UMC437372 |
| Unpatented | TT 83 | UMC437373 |
| Unpatented | TT 84 | UMC437374 |
| Unpatented | TT 85 | UMC437375 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|--------------------------|---------------------------------|---|
| Unpatented | TT 86 | UMC437376 |
| Unpatented | TT 87 | UMC437377 |
| Unpatented | TT 88 | UMC437378 |
| Unpatented | TT 89 | UMC437379 |
| Unpatented | TT 90 | UMC437380 |
| Unpatented | TT 91 | UMC437381 |
| Unpatented | TT 92 | UMC437382 |
| Unpatented | TT 93 | UMC437383 |
| Unpatented | TT 94 | UMC437384 |
| Unpatented | TT 95 | UMC437385 |
| Unpatented | TT 96 | UMC437386 |
| Unpatented | TT 97 | UMC437387 |
| Unpatented | TT 98 | UMC437388 |
| Unpatented | TT 99 | UMC437389 |
| Unpatented | TT 100 | UMC437390 |
| Unpatented | TT 101 | UMC437391 |
| Unpatented | TT 102 | UMC437392 |
| Unpatented | TT 103 | UMC437393 |
| Unpatented | TT 104 | UMC437394 |
| Unpatented | TT 105 | UMC437395 |
| Unpatented | TT 106 | UMC437396 |
| Unpatented | TT 107 | UMC437397 |
| Unpatented | TT 108 | UMC437398 |
| Unpatented | TT 109 | UMC437399 |
| Unpatented | TT 110 | UMC437400 |
| Unpatented | TT 111 | UMC437401 |
| Unpatented | TT 112 | UMC437402 |
| Unpatented | TT 113 | UMC437403 |
| Unpatented | TT 114 | UMC437404 |
| Unpatented | TT 115 | UMC437405 |
| Unpatented | TT 116 | UMC437406 |
| Unpatented | TT 117 | UMC437407 |
| Unpatented | TT 118 | UMC437408 |
| Unpatented | TT 119 | UMC437409 |
| Unpatented | TT 120 | UMC437410 |
| Unpatented | TT 121 | UMC437411 |
| Unpatented | TT 122 | UMC437412 |
| Unpatented | TT 123 | UMC437413 |
| Unpatented | TT 124 | UMC437414 |
| Unpatented | TT 125 | UMC437415 |
| Unpatented | TT 126 | UMC437416 |
| Unpatented | TT 127 | UMC437417 |
| Unpatented | TT 128 | UMC437418 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 129 | UMC437419 |
| Unpatented | TT 130 | UMC437420 |
| Unpatented | TT 131 | UMC437421 |
| Unpatented | TT 132 | UMC437422 |
| Unpatented | TT 133 | UMC437423 |
| Unpatented | TT 134 | UMC437424 |
| Unpatented | TT 135 | UMC437425 |
| Unpatented | TT 136 | UMC437426 |
| Unpatented | TT 137 | UMC437427 |
| Unpatented | TT 138 | UMC437428 |
| Unpatented | TT 139 | UMC437429 |
| Unpatented | TT 140 | UMC437430 |
| Unpatented | TT 141 | UMC437431 |
| Unpatented | TT 142 | UMC437432 |
| Unpatented | TT 143 | UMC437433 |
| Unpatented | TT 144 | UMC437434 |
| Unpatented | TT 145 | UMC437435 |
| Unpatented | TT 146 | UMC437436 |
| Unpatented | TT 147 | UMC437437 |
| Unpatented | TT 148 | UMC437438 |
| Unpatented | TT 149 | UMC437439 |
| Unpatented | TT 150 | UMC437440 |
| Unpatented | TT 151 | UMC437441 |
| Unpatented | TT 152 | UMC437442 |
| Unpatented | TT 153 | UMC437443 |
| Unpatented | TT 154 | UMC437444 |
| Unpatented | TT 155 | UMC437445 |
| Unpatented | TT 156 | UMC437446 |
| Unpatented | TT 157 | UMC437447 |
| Unpatented | TT 159 | UMC437449 |
| Unpatented | TT 160 | UMC437450 |
| Unpatented | TT 161 | UMC437451 |
| Unpatented | TT 162 | UMC437452 |
| Unpatented | TT 163 | UMC437453 |
| Unpatented | TT 164 | UMC437454 |
| Unpatented | TT 165 | UMC437455 |
| Unpatented | TT 166 | UMC437456 |
| Unpatented | TT 167 | UMC437457 |
| Unpatented | TT 168 | UMC437458 |
| Unpatented | TT 169 | UMC437459 |
| Unpatented | TT 170 | UMC437460 |
| Unpatented | TT 171 | UMC437461 |
| Unpatented | TT 172 | UMC437462 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 173 | UMC437463 |
| Unpatented | TT 174 | UMC437464 |
| Unpatented | TT 175 | UMC437465 |
| Unpatented | TT 176 | UMC437466 |
| Unpatented | TT 177 | UMC437467 |
| Unpatented | TT 178 | UMC437468 |
| Unpatented | TT 179 | UMC437469 |
| Unpatented | TT 180 | UMC437470 |
| Unpatented | TT 181 | UMC437471 |
| Unpatented | TT 182 | UMC438642 |
| Unpatented | TT 183 | UMC438643 |
| Unpatented | TT 184 | UMC438644 |
| Unpatented | TT 185 | UMC438645 |
| Unpatented | TT 186 | UMC438646 |
| Unpatented | TT 187 | UMC438647 |
| Unpatented | TT 188 | UMC438648 |
| Unpatented | TT 189 | UMC438649 |
| Unpatented | TT 190 | UMC438650 |
| Unpatented | TT 191 | UMC438651 |
| Unpatented | TT 192 | UMC438652 |
| Unpatented | TT 193 | UMC438653 |
| Unpatented | TT 194 | UMC438654 |
| Unpatented | TT 195 | UMC438655 |
| Unpatented | TT 196 | UMC438656 |
| Unpatented | TT 197 | UMC438657 |
| Unpatented | TT 198 | UMC438658 |
| Unpatented | TT 199 | UMC438659 |
| Unpatented | TT 200 | UMC438660 |
| Unpatented | TT 201 | UMC438661 |
| Unpatented | TT 202 | UMC438662 |
| Unpatented | TT 203 | UMC438663 |
| Unpatented | TT 204 | UMC438664 |
| Unpatented | TT 205 | UMC438665 |
| Unpatented | TT 206 | UMC438666 |
| Unpatented | TT 207 | UMC438667 |
| Unpatented | TT 208 | UMC438668 |
| Unpatented | TT 209 | UMC438669 |
| Unpatented | TT 210 | UMC438670 |
| Unpatented | TT 211 | UMC438671 |
| Unpatented | TT 212 | UMC438672 |
| Unpatented | TT 213 | UMC438673 |
| Unpatented | TT 214 | UMC438674 |
| Unpatented | TT 215 | UMC438675 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 216 | UMC438676 |
| Unpatented | TT 217 | UMC438677 |
| Unpatented | TT 218 | UMC438678 |
| Unpatented | TT 219 | UMC438679 |
| Unpatented | TT 220 | UMC438680 |
| Unpatented | TT 221 | UMC438681 |
| Unpatented | TT 222 | UMC438682 |
| Unpatented | TT 223 | UMC438683 |
| Unpatented | TT 224 | UMC438684 |
| Unpatented | TT 225 | UMC438685 |
| Unpatented | TT 226 | UMC438686 |
| Unpatented | TT 227 | UMC438687 |
| Unpatented | TT 228 | UMC438688 |
| Unpatented | TT 229 | UMC438689 |
| Unpatented | TT 230 | UMC438690 |
| Unpatented | TT 231 | UMC438691 |
| Unpatented | TT 232 | UMC438692 |
| Unpatented | TT 233 | UMC438693 |
| Unpatented | TT 234 | UMC438694 |
| Unpatented | TT 235 | UMC438695 |
| Unpatented | TT 236 | UMC438696 |
| Unpatented | TT 237 | UMC438697 |
| Unpatented | TT 238 | UMC438698 |
| Unpatented | TT 239 | UMC438699 |
| Unpatented | TT 240 | UMC438700 |
| Unpatented | TT 241 | UMC438701 |
| Unpatented | TT 242 | UMC438702 |
| Unpatented | TT 243 | UMC438703 |
| Unpatented | TT 244 | UMC438704 |
| Unpatented | TT 245 | UMC438705 |
| Unpatented | TT 246 | UMC438706 |
| Unpatented | TT 247 | UMC438707 |
| Unpatented | TT 248 | UMC438708 |
| Unpatented | TT 249 | UMC438709 |
| Unpatented | TT 250 | UMC438710 |
| Unpatented | TT 251 | UMC438711 |
| Unpatented | TT 252 | UMC438712 |
| Unpatented | TT 253 | UMC438713 |
| Unpatented | TT 254 | UMC438714 |
| Unpatented | TT 255 | UMC438715 |
| Unpatented | TT 256 | UMC438716 |
| Unpatented | TT 257 | UMC438717 |
| Unpatented | TT 258 | UMC438718 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 259 | UMC438719 |
| Unpatented | TT 260 | UMC438720 |
| Unpatented | TT 261 | UMC438721 |
| Unpatented | TT 262 | UMC438722 |
| Unpatented | TT 263 | UMC438723 |
| Unpatented | TT 264 | UMC438724 |
| Unpatented | TT 265 | UMC438725 |
| Unpatented | TT 266 | UMC438726 |
| Unpatented | TT 267 | UMC438727 |
| Unpatented | TT 268 | UMC438728 |
| Unpatented | TT 269 | UMC438729 |
| Unpatented | TT 270 | UMC438730 |
| Unpatented | TT 271 | UMC438731 |
| Unpatented | TT 272 | UMC438732 |
| Unpatented | TT 273 | UMC438733 |
| Unpatented | TT 274 | UMC438734 |
| Unpatented | TT 275 | UMC438735 |
| Unpatented | TT 276 | UMC438736 |
| Unpatented | TT 277 | UMC438737 |
| Unpatented | TT 278 | UMC438738 |
| Unpatented | TT 279 | UMC438739 |
| Unpatented | TT 280 | UMC438740 |
| Unpatented | TT 281 | UMC438741 |
| Unpatented | TT 282 | UMC438742 |
| Unpatented | TT 283 | UMC438743 |
| Unpatented | TT 284 | UMC438744 |
| Unpatented | TT 285 | UMC438745 |
| Unpatented | TT 286 | UMC438746 |
| Unpatented | TT 287 | UMC438747 |
| Unpatented | TT 288 | UMC438748 |
| Unpatented | TT 289 | UMC438749 |
| Unpatented | TT 290 | UMC438750 |
| Unpatented | TT 291 | UMC438751 |
| Unpatented | TT 292 | UMC438752 |
| Unpatented | TT 293 | UMC438753 |
| Unpatented | TT 294 | UMC438754 |
| Unpatented | TT 295 | UMC438755 |
| Unpatented | TT 296 | UMC438756 |
| Unpatented | TT 297 | UMC438757 |
| Unpatented | TT 298 | UMC438758 |
| Unpatented | TT 299 | UMC438759 |
| Unpatented | TT 300 | UMC438760 |
| Unpatented | TT 301 | UMC438761 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 302 | UMC438762 |
| Unpatented | TT 303 | UMC438763 |
| Unpatented | TT 304 | UMC438764 |
| Unpatented | TT 305 | UMC438765 |
| Unpatented | TT 306 | UMC438766 |
| Unpatented | TT 307 | UMC438767 |
| Unpatented | TT 308 | UMC438768 |
| Unpatented | TT 309 | UMC438769 |
| Unpatented | TT 310 | UMC438770 |
| Unpatented | TT 311 | UMC438771 |
| Unpatented | TT 312 | UMC438772 |
| Unpatented | TT 313 | UMC438773 |
| Unpatented | TT 314 | UMC438774 |
| Unpatented | TT 315 | UMC438775 |
| Unpatented | TT 316 | UMC438776 |
| Unpatented | TT 317 | UMC438777 |
| Unpatented | TT 318 | UMC438778 |
| Unpatented | TT 319 | UMC438779 |
| Unpatented | TT 320 | UMC438780 |
| Unpatented | TT 321 | UMC438781 |
| Unpatented | TT 322 | UMC438782 |
| Unpatented | TT 323 | UMC438783 |
| Unpatented | TT 324 | UMC438784 |
| Unpatented | TT 325 | UMC438785 |
| Unpatented | TT 326 | UMC438786 |
| Unpatented | TT 327 | UMC438787 |
| Unpatented | TT 328 | UMC438788 |
| Unpatented | TT 329 | UMC438789 |
| Unpatented | TT 330 | UMC438790 |
| Unpatented | TT 331 | UMC438791 |
| Unpatented | TT 332 | UMC438792 |
| Unpatented | TT 333 | UMC438793 |
| Unpatented | TT 334 | UMC438794 |
| Unpatented | TT 335 | UMC438795 |
| Unpatented | TT 336 | UMC438796 |
| Unpatented | TT 337 | UMC438797 |
| Unpatented | TT 338 | UMC438798 |
| Unpatented | TT 339 | UMC438799 |
| Unpatented | TT 340 | UMC438800 |
| Unpatented | TT 341 | UMC438801 |
| Unpatented | TT 342 | UMC438802 |
| Unpatented | TT 343 | UMC438803 |
| Unpatented | TT 344 | UMC438804 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 345 | UMC438805 |
| Unpatented | TT 346 | UMC438806 |
| Unpatented | TT 347 | UMC438807 |
| Unpatented | TT 348 | UMC438808 |
| Unpatented | TT 349 | UMC438809 |
| Unpatented | TT 350 | UMC438810 |
| Unpatented | TT 351 | UMC438811 |
| Unpatented | TT 352 | UMC438812 |
| Unpatented | TT 353 | UMC438813 |
| Unpatented | TT 354 | UMC438814 |
| Unpatented | TT 355 | UMC438815 |
| Unpatented | TT 356 | UMC438816 |
| Unpatented | TT 357 | UMC438817 |
| Unpatented | TT 358 | UMC438818 |
| Unpatented | TT 359 | UMC438819 |
| Unpatented | TT 360 | UMC438820 |
| Unpatented | TT 361 | UMC438821 |
| Unpatented | TT 362 | UMC438822 |
| Unpatented | TT 363 | UMC438823 |
| Unpatented | TT 364 | UMC438824 |
| Unpatented | TT 365 | UMC438825 |
| Unpatented | TT 366 | UMC438826 |
| Unpatented | TT 367 | UMC438827 |
| Unpatented | TT 368 | UMC438828 |
| Unpatented | TT 369 | UMC438829 |
| Unpatented | TT 370 | UMC438830 |
| Unpatented | TT 371 | UMC438831 |
| Unpatented | TT 372 | UMC438832 |
| Unpatented | TT 373 | UMC438833 |
| Unpatented | TT 374 | UMC438834 |
| Unpatented | TT 375 | UMC438835 |
| Unpatented | TT 376 | UMC438836 |
| Unpatented | TT 377 | UMC438837 |
| Unpatented | TT 378 | UMC438838 |
| Unpatented | TT 379 | UMC438839 |
| Unpatented | TT 380 | UMC438840 |
| Unpatented | TT 381 | UMC438841 |
| Unpatented | TT 382 | UMC438842 |
| Unpatented | TT 383 | UMC438843 |
| Unpatented | TT 384 | UMC438844 |
| Unpatented | TT 385 | UMC438845 |
| Unpatented | TT 386 | UMC438846 |
| Unpatented | TT 387 | UMC438847 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|-------------------|--------------------------|--|
| Unpatented | TT 388 | UMC438848 |
| Unpatented | TT 389 | UMC438849 |
| Unpatented | TT 390 | UMC438850 |
| Unpatented | TT 391 | UMC438851 |
| Unpatented | TT 392 | UMC438852 |
| Unpatented | TT 393 | UMC438853 |
| Unpatented | TT 394 | UMC438854 |
| Unpatented | TT 395 | UMC438855 |
| Unpatented | TT 396 | UMC438856 |
| Unpatented | TT 397 | UMC438857 |
| Unpatented | TT 398 | UMC438858 |
| Unpatented | TT 399 | UMC438859 |
| Unpatented | TT 400 | UMC438860 |
| Unpatented | TT 401 | UMC438861 |
| Unpatented | TT 402 | UMC438862 |
| Unpatented | TT 403 | UMC438863 |
| Unpatented | TT 404 | UMC438864 |
| Unpatented | TT 405 | UMC438865 |
| Unpatented | TT 406 | UMC438866 |
| Unpatented | TT 407 | UMC438867 |
| Unpatented | TT 408 | UMC438868 |
| Unpatented | TT 409 | UMC438869 |
| Unpatented | TT 410 | UMC438870 |
| Unpatented | TT 411 | UMC444848 |
| Unpatented | TT 412 | UMC444849 |
| Unpatented | TT 414 | UMC444851 |
| Unpatented | TT 415 | UMC444852 |
| Unpatented | TT 416 | UMC444853 |
| Unpatented | TT 417 | UMC444854 |
| Unpatented | TT 418 | UMC444855 |
| Unpatented | TT 419 | UMC444856 |
| Unpatented | TT 420 | UMC444857 |
| Unpatented | TT 422 | UMC444859 |
| Unpatented | TT 423 | UMC444860 |
| Unpatented | TT 424 | UMC444861 |
| Unpatented | TT 426 | UMC444863 |
| Unpatented | TT 427 | UMC444864 |
| Unpatented | TT 430 | UMC444865 |
| Unpatented | TT 469 | UMC444866 |
| Unpatented | TT 470 | UMC444867 |
| Unpatented | TT 471 | UMC444868 |
| Unpatented | TT 472 | UMC444869 |
| Unpatented | TT 473 | UMC444870 |

| <i>Claim Type</i> | <i>Claim (Case) Name</i> | <i>Legacy Serial Number (BLM MLRS)</i> |
|--------------------------|---------------------------------|---|
| Unpatented | TT 474 | UMC444871 |
| <i>Unpatented</i> | <i>TT 475</i> | UMC444872 |
| Unpatented | TT 478 | UMC444873 |
| Unpatented | TT 493 | UMC444874 |
| Unpatented | TT 494 | UMC444875 |
| Unpatented | TT 495 | UMC444876 |
| Unpatented | TT 496 | UMC444877 |
| Unpatented | TT 497 | UMC444878 |
| Unpatented | TT 429 | UMC445019 |
| Unpatented | TT 437 | UMC445020 |
| Unpatented | TT 438 | UMC445021 |
| Unpatented | TT 453 | UMC445022 |
| Unpatented | TT 454 | UMC445023 |
| Unpatented | TT 455 | UMC445024 |
| Unpatented | TT 456 | UMC445025 |
| Unpatented | TT 457 | UMC445026 |
| Unpatented | TT 458 | UMC445027 |
| Unpatented | TT 459 | UMC445028 |
| Unpatented | TT 498 | UMC445029 |
| Unpatented | TT 499 | UMC445030 |

Appendix C: Royalty Agreements

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|--------------------------|-----------|------------|--------------------|----------------------|--|
| Patented | RIDGE NO. 2 | MS 5708 | | 100 | 0.5 | Crown Point |
| Patented | RIDGE | MS 5708 | | 100 | 0.5 | Crown Point |
| Patented | GOSHEN NO. 4 | MS 5708 | | 100 | 0.5 | Crown Point |
| Patented | SUNNY SIDE | MS 3835 | | 100 | 0.5 | Crown Point |
| Patented | DIVIDE NO. 2 | MS 5708 | | 100 | 0.5 | Crown Point |
| Patented | CASTLE | MS 5714 | | 100 | 0.5 | Crown Point |
| Patented | MINNEY MOORE | MS 3835 | | 100 | 0.5 | Crown Point |
| Patented | FRACTION | MS 3835 | | 100 | 0.5 | Crown Point |
| Patented | GOSHEN NO. 1 | MS 5708 | | 100 | 0.5 | Crown Point |
| Patented | GO EASY | MS 6090 | | 100 | 0.9 | 30% from 1.5% Erie and 1.5% Lone Pine Realty |
| Patented | DAD | MS 6090 | | 100 | 0.9 | 30% from 1.5% Erie and 1.5% Lone Pine Realty |
| Patented | SUNSET | MS 3371 | | 100 | 1 | 1% Franco-Nevada |
| Patented | STOCKTON NO. 3 | MS 3367 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | STOCKTON NO. 2 | MS 3366 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | STOCKTON | MS 3365 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | WEST SIDE CONTACT | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | GOOD FRACTION | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | THOMAS | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SUN SET NO. 4 | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TOPIC NO. 2 | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | RISING SUN | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | DELLA | MS 7011 | | 100 | 1 | 1% Franco-Nevada |
| Patented | DAISEY HAMILTON | | LOT 316 | 100 | 1 | 1% Franco-Nevada |
| Patented | JENNIE | MS 4098 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ORE BIN EXTENSION | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JENNIE EXTENSION | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CLIFF | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER NO. 1 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | GOLD COIN | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | EAST GOLD COIN | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BEACON NO. 3 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BEACON NO. 2 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BEACON NO. 1 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER NO. 4 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER NO. 3 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER NO. 2 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | VOLCANIC RIDGE | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | EAST GOLD COIN EXTENSION | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | INCENSE | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MAMMON | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CONVERSANT | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | PINNACLE | MS 7001 | | 100 | 1 | 1% Franco-Nevada |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|-----------------------|-----------|------------|--------------------|----------------------|------------------|
| Patented | TINTIC COPPER NO. 6 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TINTIC COPPER NO. 5 | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | PROFIT | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | TILT | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ORE BIN | MS 7001 | | 100 | 1 | 1% Franco-Nevada |
| Patented | PROD | MS 7168 | | 100 | 1 | 1% Franco-Nevada |
| Patented | PRY | MS 7168 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CLIFT | MS 3413 | | 100 | 1 | 1% Franco-Nevada |
| Patented | FRANKLIN CONSOLIDATED | MS 3931 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JENNIE | MS 3931 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MAGNA CHARTA | | LOT 146 | 100 | 1 | 1% Franco-Nevada |
| Patented | JACKMAN | | LOT 125 | 100 | 1 | 1% Franco-Nevada |
| Patented | GLADSTONE | | LOT 127 | 100 | 1 | 1% Franco-Nevada |
| Patented | ARGENTA | | LOT 147 | 100 | 1 | 1% Franco-Nevada |
| Patented | 2G | MS 3012 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SOUTH STAR | MS 3010 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MICHIGAN | | LOT 149 | 100 | 1 | 1% Franco-Nevada |
| Patented | ALMO | MS 3009 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BECK FRACTION | MS 6634 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CHAMPION NO. 2 | | LOT 73 | 100 | 1 | 1% Franco-Nevada |
| Patented | RAVINE | MS 4391 | | 100 | 1 | 1% Franco-Nevada |
| Patented | WEST BULLION | | LOT 90 | 100 | 1 | 1% Franco-Nevada |
| Patented | MARY L. | | LOT 154 | 100 | 1 | 1% Franco-Nevada |
| Patented | BELCHER | | LOT 155 | 100 | 1 | 1% Franco-Nevada |
| Patented | DEPREZIN | | LOT 248 | 100 | 1 | 1% Franco-Nevada |
| Patented | GOLDEN EAGLE | | LOT 287 | 100 | 1 | 1% Franco-Nevada |
| Patented | GENERAL LOGAN | | LOT 332 | 100 | 1 | 1% Franco-Nevada |
| Patented | W.W.C. | | LOT 163 | 100 | 1 | 1% Franco-Nevada |
| Patented | RYAN LODGE | MS 3060A | | 100 | 1 | 1% Franco-Nevada |
| Patented | PARADISE LODGE | | LOT 255 | 100 | 1 | 1% Franco-Nevada |
| Patented | LAST GAP | MS 3004 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ALTA | | LOT 161 | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVER GEM | | LOT 128 | 100 | 1 | 1% Franco-Nevada |
| Patented | LEGAL | | LOT 132 | 100 | 1 | 1% Franco-Nevada |
| Patented | EMMA AM | | LOT 143 | 100 | 1 | 1% Franco-Nevada |
| Patented | SOLID MOULTOON | | LOT 283A | 100 | 1 | 1% Franco-Nevada |
| Patented | HARRISON | | LOT 175 | 100 | 1 | 1% Franco-Nevada |
| Patented | VICTORE NO. 2 | MS 4218 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CENTER | MS 4219 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SIX SHOOTER | | LOT 252 | 100 | 1 | 1% Franco-Nevada |
| Patented | MOUNT HOPE LODGE | | LOT 253 | 100 | 1 | 1% Franco-Nevada |
| Patented | WEDGEWOOD LODGE | | LOT 230 | 100 | 1 | 1% Franco-Nevada |
| Patented | HUNG MILL SITE | MS 4511 | | 100 | 1 | 1% Franco-Nevada |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|-------------------------|-----------|------------|--------------------|----------------------|-------------------------------------|
| Patented | CHANG MILL SITE | MS 4512 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CHING MILL SITE | MS 4513 | | 100 | 1 | 1% Franco-Nevada |
| Patented | KING WILLIAM | | LOT 193 | 100 | 1 | 1% Franco-Nevada |
| Patented | TUNNEL | MS 6084 | | 100 | 1 | 1% Franco-Nevada |
| Patented | LEADVILLE | MS 6081 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SARATOGA | MS 3013 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BULLION | | LOT 68 | 100 | 1 | 1% Franco-Nevada |
| Patented | BECK | | LOT 74 | 100 | 1 | 1% Franco-Nevada |
| Patented | BLUE ROCK | | LOT 75 | 100 | 1 | 1% Franco-Nevada |
| Patented | CENTENNIAL EUREKA | | LOT 67 | 100 | 1 | 1% Franco-Nevada |
| Patented | BULLION | | LOT 76 | 100 | 1 | 1% Franco-Nevada |
| Patented | SUMMIT | | LOT 134 | 100 | 1 | 1% Franco-Nevada |
| Patented | LOOKOUT | | LOT 133 | 100 | 1 | 1% Franco-Nevada |
| Patented | COMSTOCK | | LOT 153 | 100 | 1 | 1% Franco-Nevada |
| Patented | OVERMAN | | LOT 162 | 100 | 1 | 1% Franco-Nevada |
| Patented | KENDALL | | LOT 169 | 100 | 1 | 1% Franco-Nevada |
| Patented | CAROLINE | | LOT 292 | 100 | 1 | 1% Franco-Nevada |
| Patented | SOUTH EXTENSION ECLIPSE | | LOT 245 | 100 | 1 | 1% Franco-Nevada |
| Patented | ONTARIO | | LOT 285 | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVER GLANCE | | LOT 288 | 100 | 1 | 1% Franco-Nevada |
| Patented | FRANKLIN | | LOT 246 | 100 | 1 | 1% Franco-Nevada |
| Patented | BANGER | | LOT 249 | 100 | 1 | 1% Franco-Nevada |
| Patented | HOMESTAKE | MS 3059 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MORTON LODGE | | LOT 247A | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVEROPOLIS LODGE | | LOT 135 | 100 | 1 | 1% Franco-Nevada |
| Patented | EUREKA NO. 5 | | LOT 170 | 100 | 1 | 1% Franco-Nevada |
| Patented | DOVE LODGE | | LOT 269 | 100 | 1 | 1% Franco-Nevada |
| Patented | SWAN LODGE | | LOT 270 | 100 | 1 | 1% Franco-Nevada |
| Patented | PELICAN | | LOT 271 | 100 | 1 | 1% Franco-Nevada |
| Patented | CONSORT | | LOT 272 | 100 | 1 | 1% Franco-Nevada |
| Patented | CHRISTOPHER COLUMBUS | MS 3037 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SNOW BIRD LODGE | MS 3037 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CAROLINE TRIANGLE | MS 3062 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JACOBS | MS 3227 | | 100 | 1 | 1% Franco-Nevada |
| Patented | PROVO | MS 3256 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ALLEN | MS 4561 | | 100 | 1 | 1% Franco-Nevada |
| Patented | BROWN | MS 4562 | | 100 | 1 | 1% Franco-Nevada |
| Patented | LITTLE WILL | MS 3083 | | 33 | 1 | 1% Franco-Nevada |
| Patented | BOYD | MS 5310A | | 100 | 1 | 1% Franco-Nevada |
| Patented | SOUTH ALTA | MS 3228 | | 100 | 1 | 1% Franco-Nevada |
| Patented | VICTORIA | | LOT 217 | 100 | 1 | 1% Franco-Nevada |
| Patented | GRAND CENTRAL | MS 3037 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JUPITER | | LOT 320 | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|--------------------------|-----------|------------|--------------------|----------------------|--|
| Patented | SNOWBIRD | MS 4523 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MICHIGAN FRACTION | MS 6635 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVER BAR NO. 2 | MS 6085 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CLEVELAND | MS 3849 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SUNDAY | MS 3858 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVER KING | MS 3928 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SEGO LILLY | MS 4127 | 0036-A | 50 | 1 | 50% of 2 (1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty) |
| Patented | JOHN D. NO. 1 | MS 6429 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JOHN D. NO. 2 | MS 6429 | | 100 | 1 | 1% Franco-Nevada |
| Patented | JOHN D. NO. 4 | MS 6429 | | 100 | 1 | 1% Franco-Nevada |
| Patented | RUBY NO. 57 | MS 6666 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RUBY NO. 58 | MS 6666 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER DICK | MS 4127 | | 50 | 1 | 50% of 2 (1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty) |
| Patented | MURRAY HILL | MS 4127 | | 50 | 1 | 50% of 2 (1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty) |
| Patented | JOE DALEY | MS 3965 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CATASAUQUA | MS 5101 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CATASAUQUA NO. 1 | MS 5101 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CATASAUQUA NO. 2 | MS 5101 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CATASAUQUA NO. 4 | MS 5101 | | 100 | 1 | 1% Franco-Nevada |
| Patented | CATASAUQUA NO. 3 | MS 5101 | | 100 | 1 | 1% Franco-Nevada |
| Patented | SILVER SPAR | | LOT 47 | 100 | 1 | 1% Franco-Nevada |
| Patented | TESORA | | LOT 166 | 100 | 1 | 1% Franco-Nevada |
| Patented | NEVER SWET | MS 4534 | | 100 | 1 | 1% Franco-Nevada |
| Patented | NEVER SWET NO. 1 | MS 4534 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MADALIN NO. 3 | MS 6616 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MADALIN NO. 2 | MS 6616 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MADALIN NO. 1 | MS 6616 | | 100 | 1 | 1% Franco-Nevada |
| Patented | MADALIN | MS 6616 | | 100 | 1 | 1% Franco-Nevada |
| Patented | INDEPENDENT | MS 3875 | | 100 | 1 | 1% Franco-Nevada |
| Patented | GOLDFIELD | MS 3875 | | 100 | 1 | 1% Franco-Nevada |
| Patented | FLAGSTAFF | MS 3875 | | 100 | 1 | 1% Franco-Nevada |
| Patented | NORTH ALASKA | MS 4708 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ANITA | MS 4535 | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | MASCOT | | | 100 | 1 | 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | QUEEN OF THE WEST | MS 3899 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ST. LOUIS | MS 4641 | | 100 | 1 | 1% Franco-Nevada |
| Patented | ST. LOUIS NO. 2 | MS 4641 | | 100 | 1 | 1% Franco-Nevada |
| Patented | NORTH CLIFT | MS 6474 | | 100 | 1 | 1% Franco-Nevada |
| Patented | WEST CLIFT | MS 6474 | | 100 | 1 | 1% Franco-Nevada |
| Patented | LITTLE WILL | MS 3083 | | 33 | 1 | 1% Franco-Nevada |
| Patented | SPRING | | LOT 335 | 100 | 1.5 | Xeres Tintic |
| Patented | RED CROSS NO. 43 | MS 6608 | | 100 | 1.5 | Xeres Tintic |
| Patented | RED CROSS NO. 62 AMENDED | MS 6608 | | 100 | 1.5 | Xeres Tintic |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|--------------------------|-----------|------------|--------------------|----------------------|---|
| Patented | RED CROSS NO. 63 | MS 6608 | | 100 | 1.5 | Xeres Tintic |
| Patented | LAKEVIEW | MS 3364 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RANGER AM | | LOT 336 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LAST CHANCE AM | | LOT 336 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JULIAN LANE | | LOT 77 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GOLDEN TREASURE | | LOT 78 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GRACE ELY | | LOT 317 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CORNUCOPIA | MS 4171 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LEONORA | MS 3370 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GENERAL HARRISON | | LOT 308 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ROVER | | LOT 223 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SPACE | MS 3234 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LION | MS 3490 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | DECEMBER | MS 3491 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | PHEBE SHULER | MS 3368 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ENTERPRISE | | LOT 326 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LIZZIE | | LOT 320 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | DANDY | | LOT 320 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | DUDE | | LOT 320 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | MARS | | LOT 320 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | COLCONDA LODE | | LOT 293 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SOUTH MAMMOTH | | LOT 63 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | PHOENIX | | LOT 152 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | HUNGARIAN | | LOT 164 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | WEST MAMMOTH | | LOT 319 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LOWER MAMMOTH | MS 3221 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | AVALANCHE | MS 4523 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GOLCONDA | MS 3981 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER CHAIN | MS 5880 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | VENUS | MS 4392 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CARISA | | LOT 56 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | WOLF | | LOT 244 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | NORTHERN SPY | | LOT 129 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CAPTAIN S. | MS 4054 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LAKEVIEW GOLD AND SILVER | | LOT 342 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CALIFORNIA | | LOT 342 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | NEVADA | | LOT 342 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JIM FISK | MS 4478 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | VICTOR | MS 4480 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CORDELIA ORTON | MS 4479 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | HONORA | MS 4472 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BROWNIE | MS 4053 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SOUTH SWANSEA | | LOT 337 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |

| <i>Claim Type</i> | <i>Claim Name</i> | <i>MS</i> | <i>LOT</i> | <i>Ownership %</i> | <i>NSR Royalty %</i> | <i>Pay To</i> |
|-------------------|-----------------------|-----------|------------|--------------------|----------------------|---|
| Patented | WEST SWANSEA | | LOT 337 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | TRAIL | | LOT 121 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER BAR NO. 1 | MS 6085 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER HILL NO. 3 | MS 4118 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER HILL NO. 1 | MS 4118 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER HILL NO. 2 | MS 4118 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER HILL NO. 4 | MS 4118 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BLACK JACK | | LOT 101 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | AMELIE RIVES ADDITION | MS 4550 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | AMELIE RIVES | MS 4550 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | EVENING STAR | MS 3382 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JANUARY | MS 3382 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | MOLLY BAWN | MS 3830 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LAST CHANCE | MS 3830 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ECLIPSE | MS 4029 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ECLIPSE NO. 2 | MS 4029 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JOHN D. NO. 3 | MS 6429 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JOHN D. | MS 6429 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | OWL LODGE | MS 6429 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RUBY NO. 59 | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOGDAN NO. 3 AM | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOGDAN FRACTION AM | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOGDAN NO. 2 | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOGDAN NO. 1 | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ANTELOPE FRACTION | MS 6014 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ANTELOPE NO. 2 | MS 5999 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ANTELOPE | MS 5999 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | HOME RULE | MS 3852 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GARNET | MS 3852 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | NORA | | LOT 302 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | NONESUCH LODGE | | LOT 190 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | WALKER | | LOT 191 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SUMMIT JOE BOWERS | | LOT 229 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LAST CHANCE | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | IVANHOE | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LUCKY BOY | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | MARY ELLEN | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | EUCHRE | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RUBY NO. 55 | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ANA LARA | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BLUE BIRD | MS 4360 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RUBY NO. 56 | MS 6666 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | JAMES | MS 3495 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |

| Claim Type | Claim Name | MS | LOT | Ownership % | NSR Royalty % | Pay To |
|-------------------|----------------------|-----------|------------|--------------------|----------------------|---|
| Patented | IONE | MS 3860 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LITTLE HOPES | MS 4181 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | DAMIFICARE | MS 4179 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | CADAVER | MS 4180 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SOUTH EUREKA NO. 1 | MS 4563 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | DANDY JIM | MS 4565 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | HILLSIDE | MS 6068 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | WEST STAR | | LOT 233 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ARGENTA | | LOT 290 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER STAR | | LOT 290 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SILVER SPAR | | LOT 290 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LISBON | | LOT 290 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | LEO | | LOT 290 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ANNIE MAY GUNDRY | MS 3241 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ARDATH | MS 3332 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | PRINCE OF INDIA AM | MS 3836 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | SHELBY AM | MS 3983 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | KOH-I-NOR | MS 3046 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | ELGIN AM | MS 4019 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | EAST STAR | | LOT 232 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOSS TWEED EXTENSION | | LOT 237 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BOSS TWEED | | LOT 237 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | VALEJO | | LOT 116 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | NORTH STAR | | LOT 62 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | RED ROSE | | LOT 91 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BRAZIL LODE NO. 2 | | LOT 274 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | MINERS DELIGHT | MS 3521 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | GRACE | MS 4522 | | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | VICTORY | | LOT 238 | 100 | 2 | 1% Franco-Nevada, 0.5% Erie and 0.5% Lone Pine Realty |
| Patented | BLUE BIRD EXTENSION | MS 3904 | | 100 | 3 | GWL |
| Patented | ANNANDALE | | LOT 310 | 100 | 3 | 1.5% Erie and 1.5% Lone Pine Realty |

| <i>Claim Type</i> | <i>Township</i> | <i>Range</i> | <i>Section</i> | <i>County</i> | <i>Beneficiary Abbr.</i> | <i>Legal Description</i> | <i>Agency</i> | <i>NSR Royalty %</i> |
|-------------------|-----------------|--------------|----------------|---------------|--------------------------|---|---------------|----------------------|
| SITLA | 10 | 3 | 34 | JUAB | SCH | E2SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 20 | JUAB | RES | NW4SW4 | SITLA | 4 |
| SITLA | 11 | 3 | 3 | JUAB | SCH | LOTS 1-4, S2N2 | PRIVATE | 4 |
| SITLA | 11 | 3 | 27 | JUAB | SM | N2NW4 | BLM | 4 |
| SITLA | 11 | 3 | 16 | JUAB | SCH | SW4 | SITLA | 4 |
| SITLA | 11 | 3 | 22 | JUAB | SM | SW4SE4 | BLM | 4 |
| SITLA | 11 | 3 | 22 | JUAB | SM | SE4SW4 | BLM | 4 |
| SITLA | 10 | 3 | 19 | JUAB | SYDC | LOT 4(39.57), SW4SE4 [LOT AKA SW4SW4] | PRIVATE | 4 |
| SITLA | 10 | 3 | 19 | JUAB | RES | LOT 3 (NW4SW4) | PRIVATE | 4 |
| SITLA | 10 | 3 | 19 | JUAB | RES | NE4SW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 19 | JUAB | RES | NW4SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 21 | JUAB | UNIV | W2SE4, E2SW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 21 | JUAB | UNIV | NE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 29 | JUAB | RES | W2NW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 29 | JUAB | SM | N2NE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 29 | JUAB | UNIV | SE4NW4, NE4SW4, S2SW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 29 | JUAB | UNIV | NE4NW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | SYDC | LOT 1(39.68), NW4NE4, NE4NW4 [LOT AKA NW4NW4] | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | RES | SE4NE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | RES | NE4NE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 32 | JUAB | SCH | E2SE4, NE4NE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 32 | JUAB | UNIV | W2NE4, NW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 34 | JUAB | RES | W2SW4 | SITLA | 4 |
| SITLA | 10 | 3 | 34 | JUAB | RES | S2NW4 | SITLA | 4 |
| SITLA | 10 | 3 | 35 | JUAB | SCH | SW4, S2SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 35 | JUAB | SCH | S2NW4 | PRIVATE | 4 |
| SITLA | 10 | 4 | 36 | JUAB | SCH | NW4, S2 | BLM | 4 |
| SITLA | 11 | 3 | 20 | JUAB | SCH | NW4, W2NE4, NW4SE4 | BLM | 4 |
| SITLA | 11 | 4 | 2 | JUAB | SCH | LOTS 1(42.50), 2(42.70), 3(42.90), 4(43.10), S2N2, S2 [ALL] | BLM | 4 |
| SITLA | 11 | 3 | 28 | JUAB | SCH | W2 | PRIVATE | 4 |
| SITLA | 10 | 3 | 9 | JUAB | USU | SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 10 | JUAB | USU | SW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 15 | JUAB | UNIV | W2W2 | PRIVATE | 4 |
| SITLA | 10 | 3 | 22 | JUAB | SCH | NE4SE4 | BLM | 4 |
| SITLA | 10 | 3 | 22 | JUAB | SCH | SE4SE4 | BLM | 4 |
| SITLA | 10 | 3 | 22 | JUAB | SCH | NW4SE4 | PRIVATE | 4 |

| <i>Claim Type</i> | <i>Township</i> | <i>Range</i> | <i>Section</i> | <i>County</i> | <i>Beneficiary Abbr.</i> | <i>Legal Description</i> | <i>Agency</i> | <i>NSR Royalty %</i> |
|-------------------|-----------------|--------------|----------------|---------------|--------------------------|--------------------------|---------------|----------------------|
| SITLA | 10 | 3 | 22 | JUAB | SCH | SW4SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | NS | LOT 4 (SW4SW4) | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | NS | LOT 3 (NW4SW4) | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | NS | LOT 2 (SW4NW4) | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | SM | E2SW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 30 | JUAB | SM | SW4SE4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 31 | JUAB | SM | NE4NW4 | PRIVATE | 4 |
| SITLA | 10 | 3 | 31 | JUAB | NS | LOT 1 (NW4NW4) | PRIVATE | 4 |