

**2017 FINAL REPORT**

**YUKON MINERAL EXPLORATION PROGRAM**

**Placer Module  
PROJECT NUMBER YMEP17-027**

**Upper Duncan Creek  
MAYO MINING DISTRICT, YUKON TERRITORY**

**For**

**Earth & Iron Inc.**

**By**

**William LeBarge  
Selena Magel  
Geoplacer Exploration Ltd.**

Location: 63°50'16.5" N to 63°52'46.0" N; 135°07'52.55" W to 135°16'31.0" W  
NTS: 105M14  
Mining District: Mayo  
Date: December 30, 2017  
Dates of Work: June 2 to August 30, 2017

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## Executive Summary

The following is a report on the placer exploration of Upper Duncan Creek, in support a grant (YMEP17-027) to Earth & Iron Inc. under the Yukon Mineral Exploration Program (YMEP), Placer Module.

The property is located in central Yukon approximately 480 km by road from Whitehorse. Access is gained from Whitehorse via Stewart Crossing on the Klondike Highway (353 km), followed by a distance of 52 km east on the Silver Trail to Mayo. From Mayo to Keno City the road runs a distance of 65 km. The Upper Duncan Creek road turnoff lies a distance of 3.7 km south along the Duncan Creek road from Keno City. A final 6.3 km along this road leads to the main camp and staging area on the SAM claims. A steep, 1 km road connects the camp to the Sourdough Hill road on the ridge to the north. The Sourdough Hill road is a 4WD road which runs from Keno City to the upper reaches of Upper Duncan Creek (10.1 km). The uppermost reaches of Upper Duncan Creek are reached from this point by another 2.9 km long road which climbs east to the western slope of Mount Hinton. In 2017, a bypass road connected the camp on the SAM 11 claim to the Sourdough Hill/Upper Duncan Creek road, intersecting it on the IZZIE 10 claim.

Earth & Iron Inc. holds a Type B Water Use Licence (PM16-015-01) for Placer Mining and a Class 4 Mining Land Use Permit (AP16015) on its Upper Duncan Property, which are both valid until June 1, 2026. There are 145 placer claims held by Earth & Iron Inc. in the Upper Duncan drainage.

Mount Hinton is the locale for a significant bedrock gold source (MINFILE 105M052) which consists of a series of mineralized vein-faults hosted in both the Triassic Galena Suite Gabbro and the Carboniferous Keno Hill Quartzite. It lies at the headwaters of several major drainages including Upper Duncan Creek, Keystone Creek, Granite Creek, McNeil Gulch, McMillan Gulch and Allen Creek. The most prospective sediments for placer gold in the project area would be interglacial paleochannels, however, other more dispersed sediments such as glacial till may also host economic concentrations of placer gold. This is demonstrated on Granite Creek, where 3200 ounces of placer gold have been mined from an alpine till in the last two years. There is a strong possibility that other drainages radiating from Mount Hinton have similar placer gold potential, however testing in these areas to date has not been of sufficient depth or volume to sufficiently evaluate this potential.

The 2016 placer exploration program on Upper Duncan Creek identified significant placer gold potential in several areas along the main valley and on tributary valleys.

The 2017 exploration program outside of the main pit area consisted of 6405 m of electrical resistivity surveys and several excavator test pits on the upper reaches and tributaries of Upper Duncan Creek. The resistivity surveys were successful in identifying contacts along contrasting zones of high, moderate and low resistivity, which were attributable in varying degrees to alluvial gravel, glacial till and bedrock units. Limited test pitting assisted in the bedrock profile interpretations, and several exploration targets are proposed based on the bedrock profile interpretations. Drilling or test-pitting of the proposed targets will enable further calibration of the resistivity surveys, as well as an evaluation of potential placer gold values.

## **Introduction**

The following is a report on the geology, placer potential and exploration of the Upper Duncan Creek drainage, in support of a grant (YMEP17-027) to Earth & Iron Inc. under the Yukon Mineral Exploration Program (YMEP), Placer Module. The exploration program included resistivity geophysical surveys and excavator test-pitting/bulk sampling.

## **Location and Access**

The property is located in central Yukon approximately 480 km by road from Whitehorse (Figure 1). Access is gained from Whitehorse via Stewart Crossing on the Klondike Highway (353 km), followed by a distance of 52 km east on the Silver Trail to Mayo. From Mayo to Keno City the road runs a distance of 65 km. The Upper Duncan Creek road turnoff lies a distance of 3.7 km south along the Duncan Creek road from Keno City. A final 6.3 km along this road leads to the main camp and staging area on the SAM claims. A steep, 1 km road connects the camp to the Sourdough Hill road on the ridge to the north. The Sourdough Hill road is a 4WD road, which runs from Keno City to the upper reaches of Upper Duncan Creek (10.1 km). The uppermost reaches of Upper Duncan Creek are reached from this point by another 2.9 km long road, which turns east. In 2017, a bypass road connected the camp on the SAM 11 claim to the Sourdough Hill/Upper Duncan Creek road, intersecting it on the IZZIE 10 claim.

## **Dates of Work and Personnel**

The 2017 program was conducted between June 2 and August 30, 2017. The field crew consisted of supervisor William LeBarge (Geoplacer Exploration Ltd.), Selena Magel, B.Sc., Jessica Dongas, M.Sc., and Mackenzie Plovie, B.Sc.

## **Placer Mineral Tenure**

The tables in Appendix 1 give the 523 placer claims and four placer prospecting leases currently held by Earth & Iron Inc. and its affiliates. A total of 145 of the placer claims are in the Upper Duncan drainage. The claims are shown in Figure 2.

## **Quartz Mineral Tenure**

Active quartz claims are held throughout the area including all of Upper Duncan Creek. There are currently several owners including Archer, Cathro & Associates (1981) Limited, Metallic Minerals Ltd. and Shawn Ryan. Earth & Iron Inc. and its affiliates hold no quartz tenure in the area.

## **Permitting**

Earth & Iron Inc. currently holds a Type B Water Use Licence (PM16-015-01) for Placer Mining and a Class 4 Mining Land Use Permit (AP16015) on its Upper Duncan Property, which are both valid until June 1, 2026.

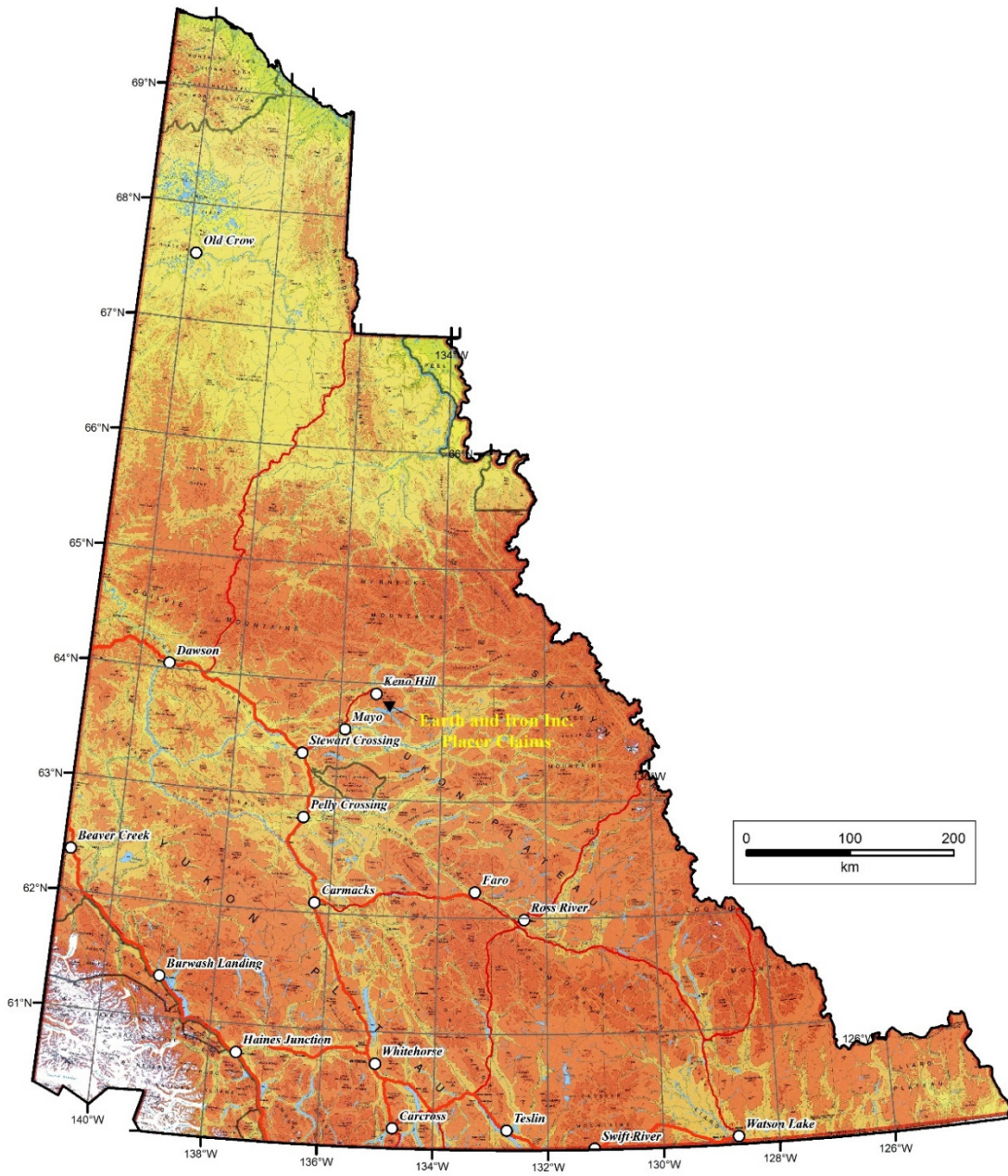


Figure 1 - General Location of Upper Duncan Creek Placer Project, Yukon.



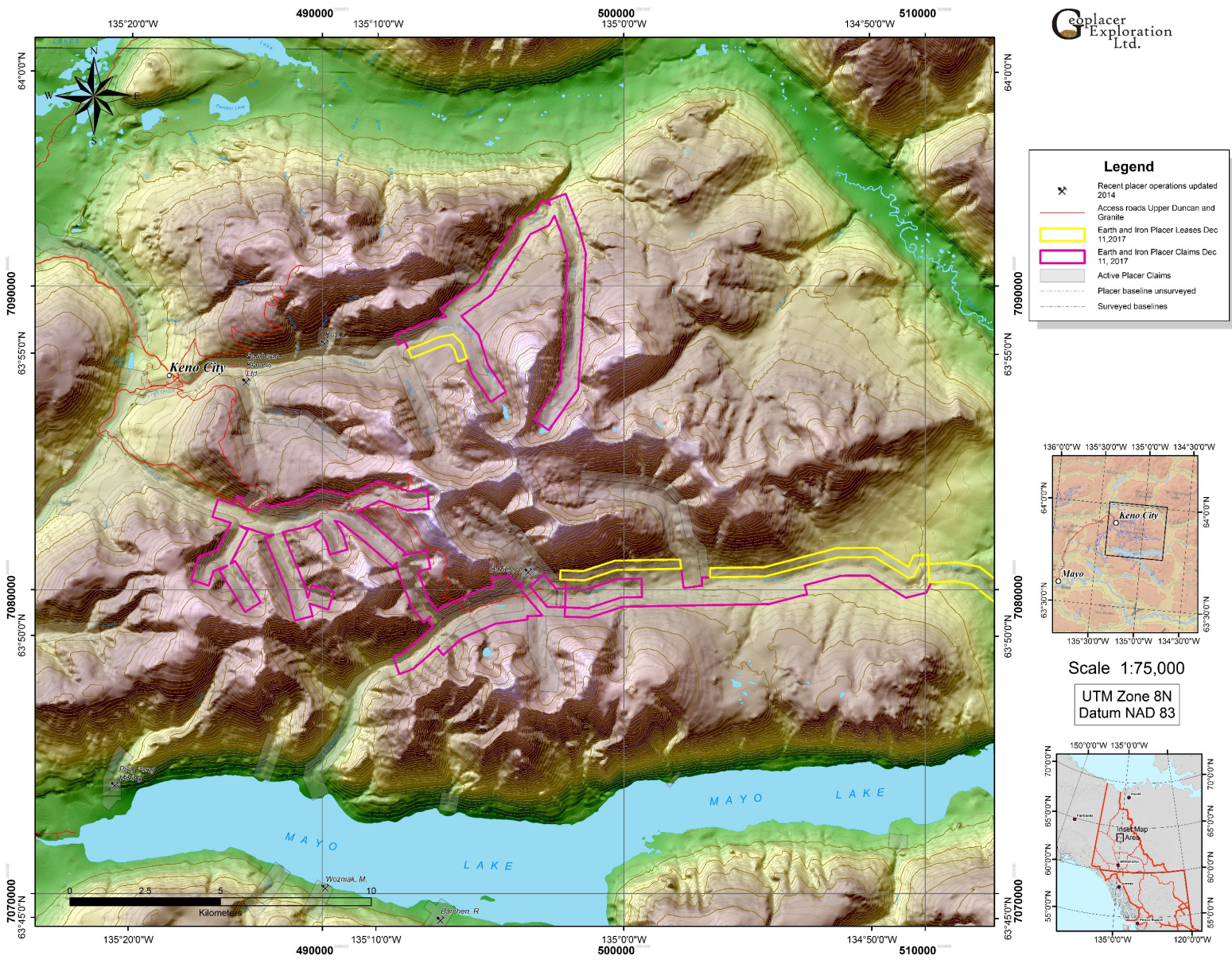


Figure 2 – Location map of Upper Duncan Creek, Lightning Creek and Granite Creek showing Earth & Iron Inc. holdings and other placer claims and prospecting leases held in the area.



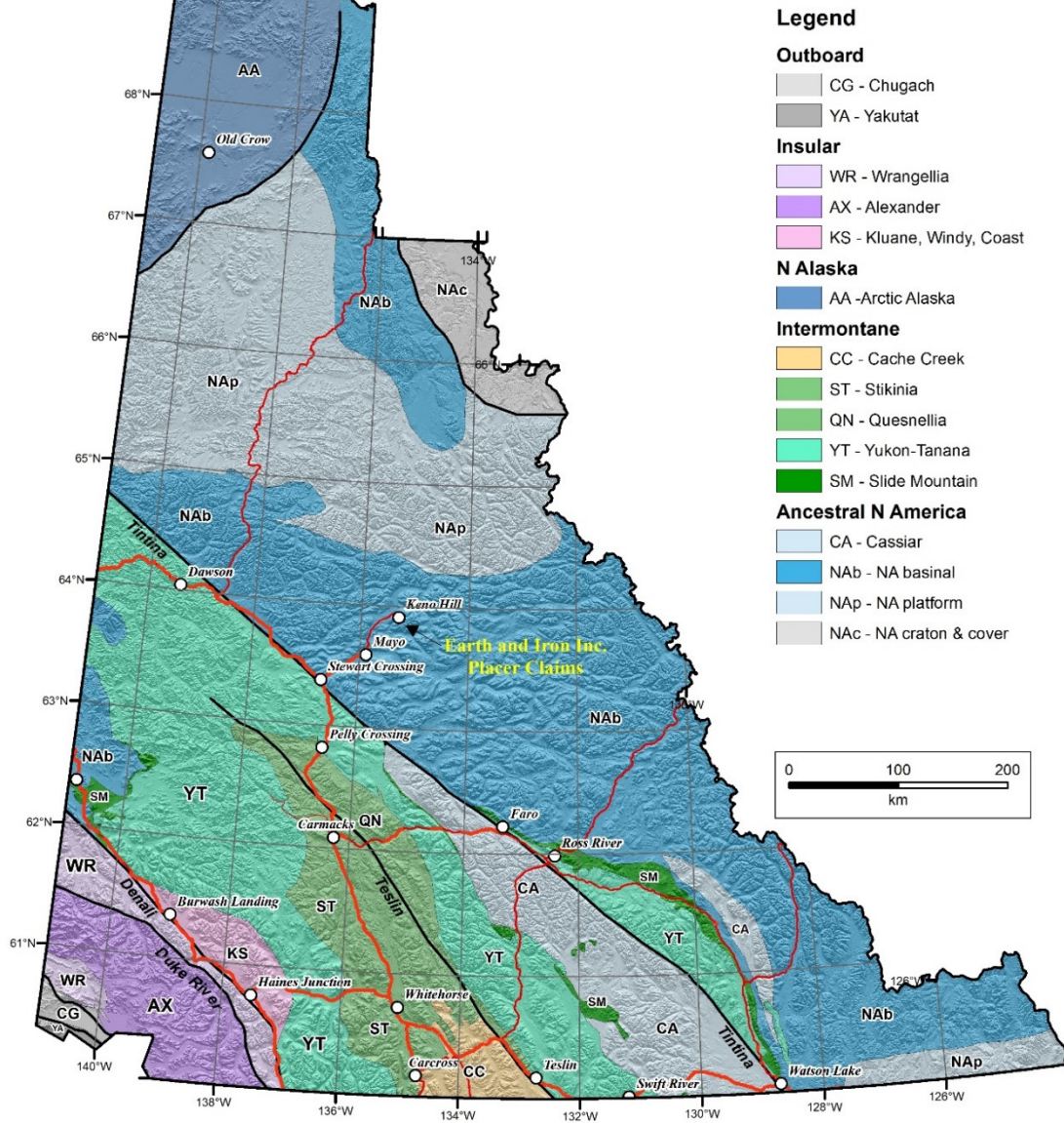


Figure 3 - Geological Map of Yukon, showing major bedrock terranes and structural elements. Modified after Yukon Geological Survey, 2016.



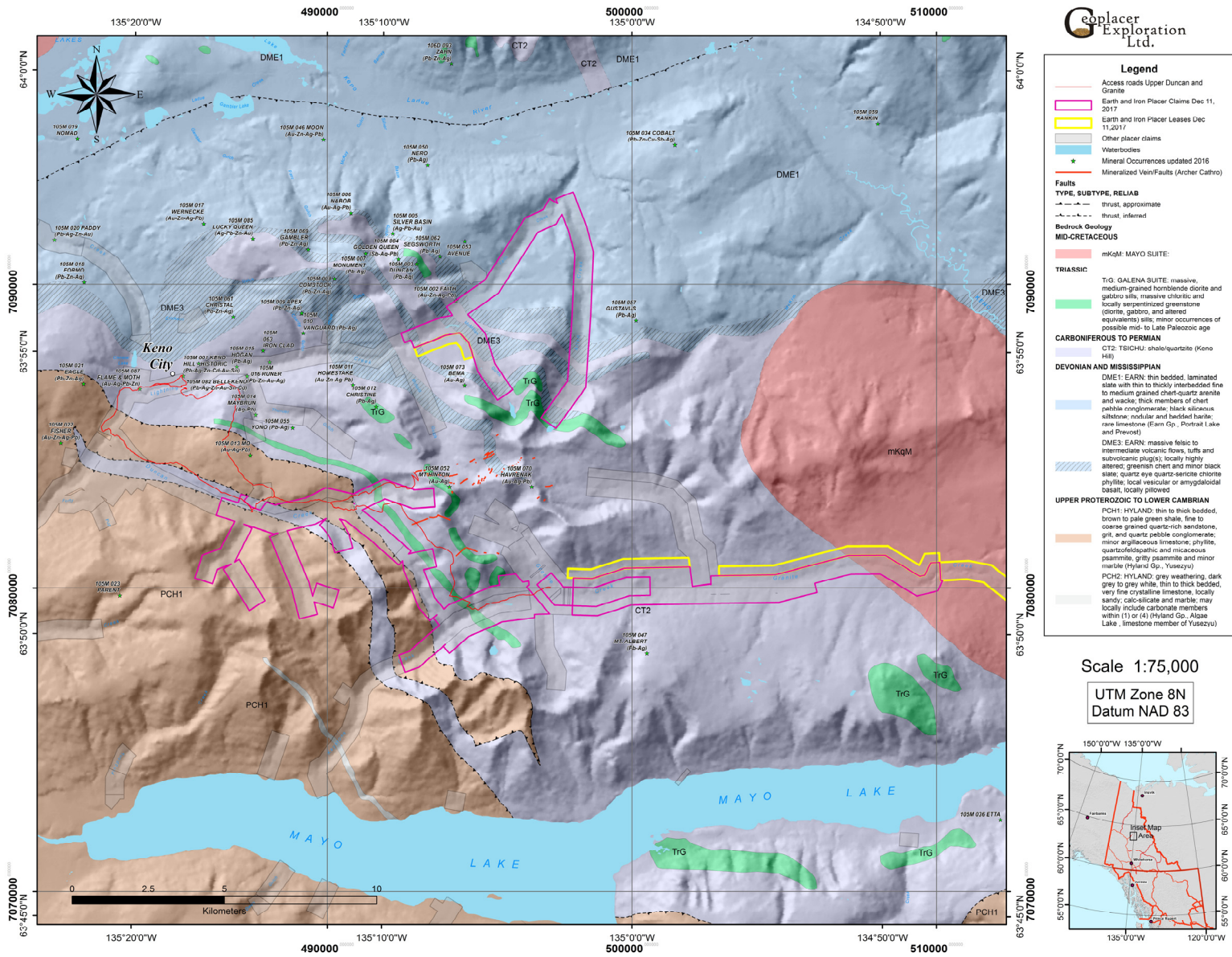


Figure 4 - Bedrock geology and mineral occurrences of Upper Duncan Creek, Lightning Creek and Granite Creek areas, Mayo Mining District, after Yukon Geological Survey, 2016. Mineralized vein-faults digitized from Wengzynowski, 2008 (EMR Assessment report 095613).

## Regional Bedrock Geology

Murphy (1997) and Roots (1997a, 1997b) mapped and described the McQuesten and Keno Hill area, and various researchers (Stephens et al., 2004; Hart et al., 2002; Colpron and Ryan, 2010) have described the tectonic setting and mineral deposits throughout the region.

Figure 3 is a geological map of Yukon, showing major bedrock terranes and structural elements. The Earth & Iron Inc. properties in the Keno Hill district lie east of the Tintina Fault, within Ancestral North America in the *Nab* (North American basinal) terrane. In that part of the western Selwyn basin, dominantly clastic sedimentary rocks were deposited in an off-shelf setting in a period from the latest Neoproterozoic to the Carboniferous (Stephens et al., 2004).

The Keno Hill district is part of the Tombstone Gold Belt (Stephens et al., 2004), a subset of the Tintina Gold Province (Hart et al., 2002). This area is characterized by a northerly-directed, fold-and-thrust belt which developed in the Late Jurassic to Early Cretaceous (Roots, 1997a, 1997b; Murphy, 1997). The Dawson, Tombstone and Robert Service thrusts are the products of this deformation across the northern part of the basin (Murphy and Roots, 1996; Roots, 1997a).

The Robert Service Thrust sheet contains Hyland Group (Late Proterozoic to Cambrian) sandstone and grit with rare limestone and minor maroon argillite, overlain by a Cambrian to Middle Devonian succession of dark coloured siltstone, limestone and chert. These strata, a component of the regional Selwyn Basin, are unconformably overlain by Upper Devonian Earn Group argillite, chert and chert pebble conglomerate (Murphy, 1997; Roots, 1997a, 1997b). To the north, the Tombstone Thrust sheet consists of highly strained Earn Group carbonaceous phyllite, felsic meta-tuff and metaclastic rocks, succeeded by Carboniferous Keno Hill quartzite that is thickened by internal recumbent folds or thrusts in the north central part of the map area. These units host the Ag-Pb-Zn veins of the Elsa-Keno Hill camp and the Au veins of the Mount Hinton area (Roots, 1997a, 1997b).

Jurassic (?) and Cretaceous contraction produced regionally developed penetrative fabrics and folds of various scales as well as thrust faulting. A domain of intensely-developed foliation and lineation underlies the northern half of the map area, imparted during two or more phases of movement on the Tombstone Thrust (Roots, 1997a, 1997b).

Two main intrusive suites of rock were emplaced into the western Selwyn basin after the regional deformation; the McQuesten Intrusive Suite, and the Tombstone Plutonic Suite (Murphy, 1997). The Tombstone Suite was emplaced around 92 Ma, and its rocks are associated with the Tombstone Gold Belt deposits in Yukon (Brewery Creek, Dublin Gulch, Scheelite Dome and Clear Creek) as well as the Pogo, Fort Knox and Donlin Creek deposits in Alaska (Hart et al., 2002).

## Mineral Occurrences

The Roop Lakes batholith, which outcrops in the eastern part of the project area, is a late Cretaceous granite, quartz monzonite and granodiorite intrusion of the Tombstone Suite. It is widely-held to be the probable heat source for epi- and meso-thermal veins of the Elsa-Keno Hill mining camp (Roots, 1997a, 1997b).

Table 1 lists YUKON MINFILE (Yukon Geological Survey, 2016) mineral occurrences in the Upper Duncan/Keno Hill district. Most of these occurrences are polymetallic veins, consisting of silver, lead and zinc with various amounts of accessory gold. The host rock is mainly the Carboniferous Keno Hill Quartzite, however some veins are hosted in carbonaceous phyllite, felsic meta-tuff and metaclastic rocks of the Devonian Earn Group. A few mineralized polymetallic veins are hosted in the metaclastic rocks of the Late Proterozoic to Cambrian Hyland Group.

Table 1 – Selected Mineral Occurrences, Keno Hill and Upper Duncan area, from MINFILE (Yukon Geological Survey, 2016).

MINFILE NUMBER	DEPOSIT TYPE	STATUS
105M 001 KENO HILL - HISTORIC (Pb-Ag-Zn-Cd-Au-Sn)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 002 FAITH (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 003 DUNCAN (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 004 GOLDEN QUEEN (Sb-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 005 SILVER BASIN (Ag-Pb-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Prospect
105M 006 NABOB (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 007 MONUMENT (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 008 COMSTOCK (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 009 APEX (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 010 VANGUARD (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 011 HOMESTAKE (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 012 CHRISTINE (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Prospect
105M 013 MO (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 014 MAYBRUN (Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 015 HOGAN (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 016 RUNER (Pb-Zn-Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 017 WERNECKE (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 018 FORMO (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 020 PADDY (Pb-Ag-Zn-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 021 EAGLE (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 022 FISHER (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Anomaly
105M 023 PARENT	Unknown	Anomaly
105M 024 CREAM AND JEAN (Pb-Zn-Cu-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 025 NORD (As-Zn-Ag-Pb-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect

MINFILE NUMBER	DEPOSIT TYPE	STATUS
105M 047 MT ALBERT (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 050 NERO (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 052 MT HINTON (Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 053 AVENUE	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 055 YONO (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 061 CRISTAL (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 062 SEGSWORTH (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 063 IRON CLAD	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 069 GAMBLER (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 070 HAVRENAK (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 073 BEMA (Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 082 BELLEKENO (Pb-Ag-Zn-Au-Sn-Cd)	Vein Polymetallic Ag-Pb-Zn+/-Au	Producer
105M 084 ONEK (Ag-Pb-Au-Zn-In)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit
105M 085 LUCKY QUEEN (Ag-Pb-Zn-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit
105M 087 FLAME & MOTH (Au-Ag-Pb-Zn)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit

## Local Bedrock Geology

Figure 4 shows the bedrock geology and mineral occurrences of the Lightning Creek, Upper Duncan creek and Granite Creek area, modified from Roots, 1997b and Yukon Geological Survey, 2016. Mineralized vein/faults have been added from Wengzynowski, (2008).

Figure 5 shows the bedrock of the Upper Duncan Creek property in more detail. The western extent of the property is dominated by PCH1 (Proterozoic Hyland group (Yusezyu Formation) clastic metasediments, psammite and marble; this is fault-bounded by the Robert Service Thrust on its eastern extent by CT2 (Carboniferous to Permian Keno Hill Quartzite), which also forms a narrow graben that crosses the Upper Duncan Creek drainage in its mid-to upper reaches. Also in the east are outcrops of TrG (Triassic Galena Suite hornblende diorite and gabbro) which are entirely enclosed by the Keno Hill Quartzite. The Mount Hinton gold-silver veins occur in the headwaters of Upper Duncan Creek (MINFILE 105M 052) while the MO gold-silver vein occurrence (MINFILE 105M 013) lies to the north in the divide between Upper Duncan Creek and Thunder Gulch.



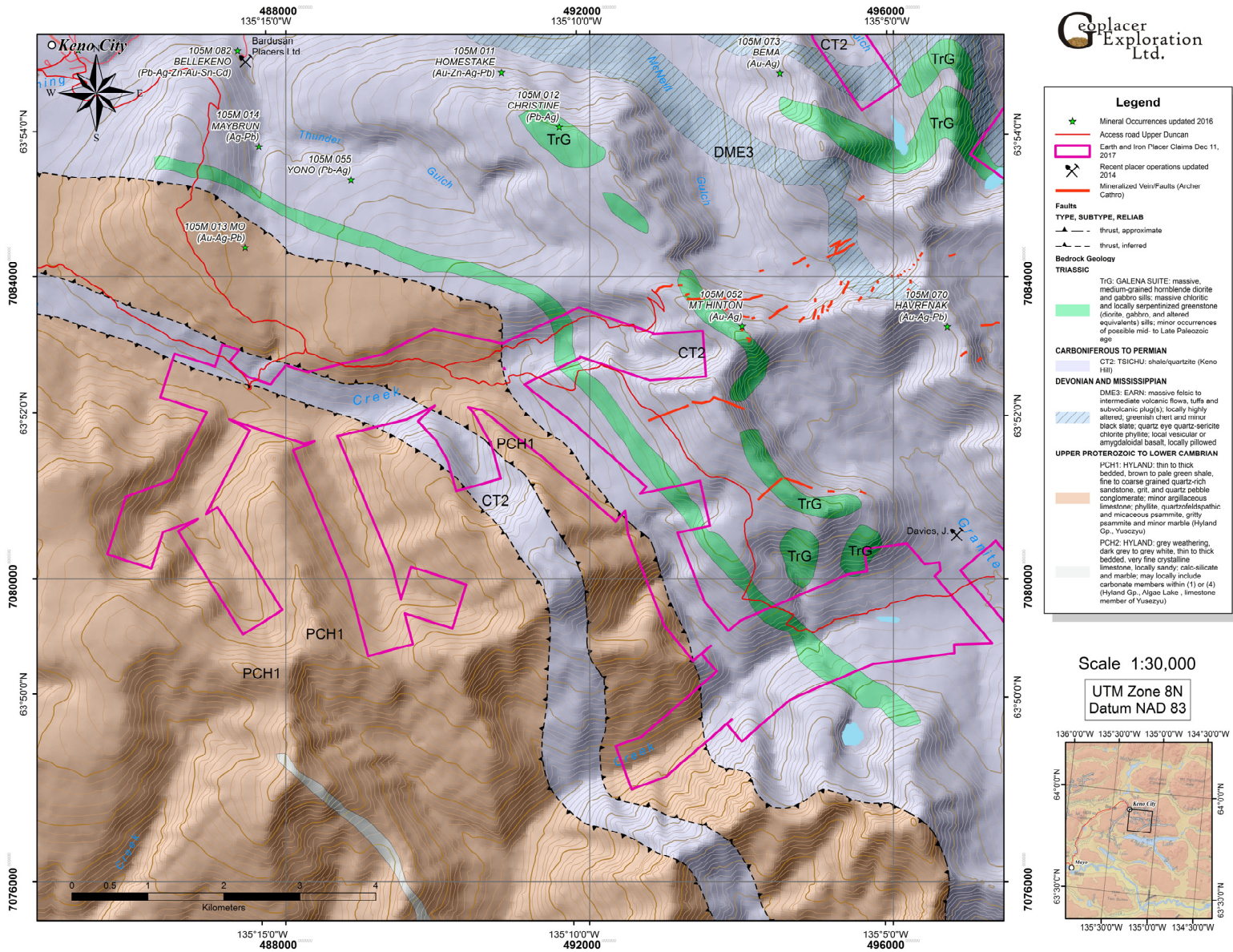


Figure 5 – 1: 30 000 scale map of bedrock geology of the Upper Duncan Creek area, including mineral occurrences from Yukon Minfile (Yukon Geological Survey, 2016).

## Quaternary History

In the Mayo area, a minimum of four regional glaciations and two interglacial periods have influenced the deposition and erosion of sediments over the last 2.5 million years (Duk-Rodkin et. al., 2010; LeBarge et. al., 2002; Bond, 1996, 1997; Jackson et al., 2001). Glaciations include the pre-Reid (multiple early to mid-Pleistocene glaciations), Reid (130,000 years), and McConnell (14,000 -29,600 years). Warm, interglacial periods are indicated by relict paleosols such as the pre-Reid Wounded Moose paleosol (Tarnocai and Schweger, 1991) and the Reid Diversion Creek paleosol (Bond and Lipovsky, 2010).

During their maximum extent, pre-Reid ice sheets completely covered the Mayo/Keno Hill area. Undifferentiated pre-Reid surficial materials (moraine, glaciofluvial and glaciolacustrine deposits) are thick in the lowlands of Klondike Plateau and Tintina Trench, especially in areas proximal to the terminus of the pre-Reid glaciations.

During the subsequent Reid glaciation, glacial ice advanced from cirques formed in topographic highs such as Mount Hinton and Mt. Haldane, and coalesced with Cordilleran ice lobes which were advancing up-valley into the alpine areas. This resulted in a complex overlap assemblage of local alpine glacial sediments and more regionally-derived glacial sediments.

During the most recent (McConnell) glaciation, ice once again advanced from cirques in mountainous centres, however their advance was much less extensive than during previous glaciations. In most cases, McConnell ice advanced only short distances down-valley from their origins in the valley heads, depositing terminal moraines in the upper reaches of most valleys.

Figure 6 shows glacial limits and ice-flow directions for the Reid and McConnell glaciations in the Mayo area, after Bond (1999). This map shows that while the Reid glacial ice advanced down Upper Duncan Creek and coalesced with the Reid regional ice advance heading up Upper Duncan Creek, the McConnell glaciation was represented only by short alpine advances which left topographically obvious terminal moraines in the upper reaches of Upper Duncan Creek.



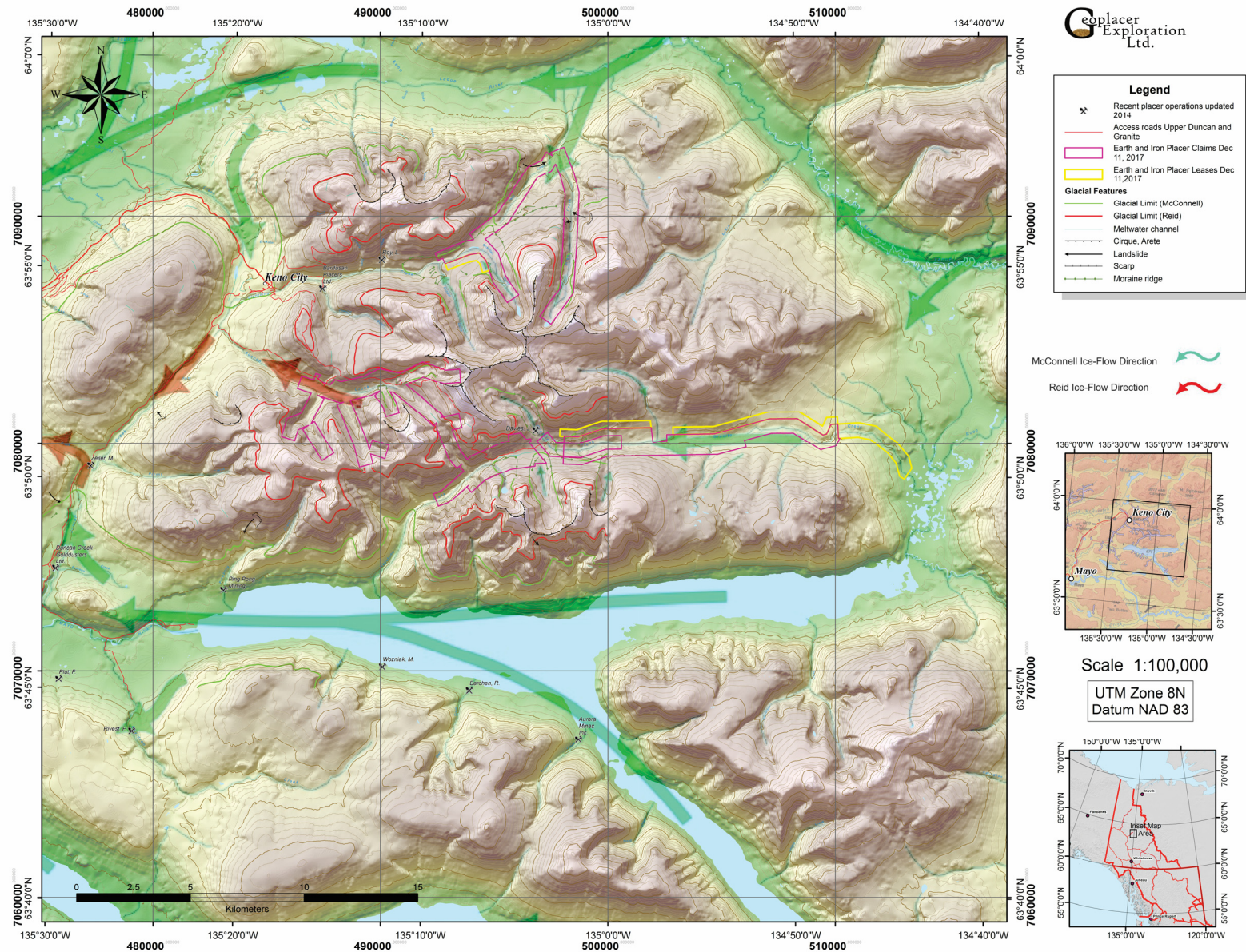


Figure 6 – 1: 100 000 scale map of glacial limits and ice-flow directions, Upper Duncan Creek, Lightning Creek and Granite Creek area, Mayo Mining District (after Bond, 1999). Reid-age ice advance shown in red, McConnell-age ice advance shown in green. Recent placer operations from Van Loon and Bond, (2014).



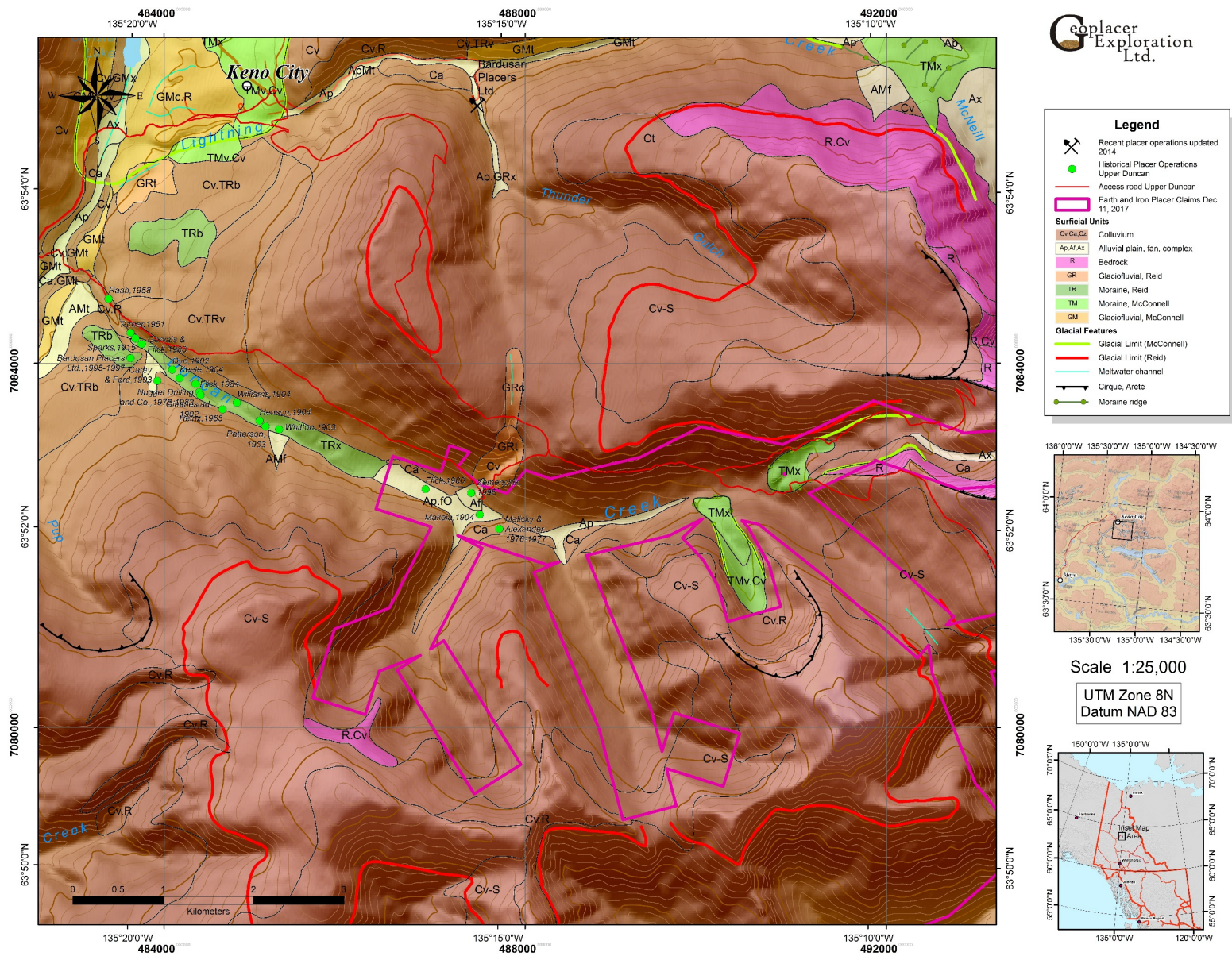


Figure 7 – 1: 25 000 scale map of surficial geology, Upper Duncan Creek, Mayo Mining District (after Bond, 1998). Historical operations (LeBarge, 2007) also shown.



## Surficial Geology

Figure 7 is a 1:25,000 scale surficial map of the Upper Duncan drainage (modified after Bond, 1998) which also shows historical placer mining operations (after LeBarge, 2007).

Unconsolidated sediments in the Gustavus Range and the surrounding plateaus consist mainly of deposits from Cordilleran valley glaciers (continental ice sheet), alpine glaciers (local montane glaciers), colluvium, and minor alluvium. The surficial geology of the project area is complex, which is a result of the multiple glacial events that have occurred there over the last 1.5 million years.

The hills above the main drainages of Duncan, Upper Duncan and Lightning Creeks are mantled with colluvial deposits (veneers, blankets and aprons), while glacial erratics are found in the ridge tops and uppermost slopes. These were deposited when the pre-Reid glacial ice overtopped the hills in the region (LeBarge et.al., 2002; Bond, 1998).

Within and below the Reid glacial limit (shown as the red line in Figures 7 and 8), remnant deposits of Reid-age till line the valley bottoms and edges, and Reid glaciofluvial outwash channels lie along valley edges and on intervalley divides between third and fourth order drainages. In the lower reaches of Upper Duncan Creek, Reid-age till lies at the surface and confines the extent of the modern alluvial plain.

McConnell-age till forms moraines in the headwaters of most local drainages including Upper Duncan Creek (Mount Hinton) and Granite Creek. Deposits of McConnell glaciofluvial outwash lie along the valleys of Lightning Creek and Duncan Creek, and along the McQuesten River valley. McConnell-age alluvial and periglacial fans occur at the confluences of first order and second-order streams.

Modern alluvial fans, plains and complexes occur in all valleys, but are most prominent in larger, third to fourth order drainages. In some cases, alluvial fans have formed from re-activation and reworking of older deposits such as glaciofluvial terraces and eskers of Reid to McConnell age. Several of these fans are present on Upper Duncan Creek at the confluences of tributary valleys.

## Placer Exploration and Mining History

The discovery of placer gold in the Mayo district began on the Stewart River in 1883, when a party of prospectors worked from the mouth of the Stewart River to the McQuesten River (Mayo Historical Society, 1990). Between 1885 and 1886, it is estimated that up to 14,500 fine ounces (451 000 g) was recovered by hand (Mayo Historical Society, 1990).

In 1892, Ray Stewart discovered gold on the McQuesten River, and in 1895 placer gold was noted on Haggart Creek. Discovery claims were recorded on Johnson and Haggart Creeks in 1898.

In the same year, gold was discovered on Duncan Creek in the area just downstream of the canyon, where Upper Duncan Creek joins Duncan Creek. Most of the hand-mining in the early days took place at this location and farther upstream on Upper Duncan Creek (LeBarge, 2007).

The discovery of placer gold on Duncan Creek in 1898 is credited to Mr. Gustavus Gustavus and his two sons (Mayo Historical Society, 1990). These three were very secretive, and to help conceal the location of their ground they decided not to stake or record claims over it. They began to arouse curiosity and one day a party of four prospectors - Colin Hamilton, Duncan Patterson, Allan McIntosh and Jacob Davidson went looking for their ground. After a long search, the Scotsmen found the Swedes' workings. On the 15th of September 1901, they located a Discovery Claim in the canyon on what was named Duncan Creek. This claim was staked during the absence of the Swedes and included the ground already worked by them. The Gustavus's, finding their ground legally staked, soon left the country.

By the end of 1902 Duncan Creek was staked from the headwaters to the mouth. Numerous cabins were built and preparations were made to develop the ground. The government constructed a wagon road from the mouth of the Mayo River to Duncan Creek. Two town-sites were located: one at Mayo River and one at Gordon Landing on the bank of the Stewart River.

During 1902, at Claim #104 Below Discovery (approx. 4.3 miles (7 km) below the canyon) a shaft was sunk a depth of 138 ft. (42 metres) without hitting bedrock. Other attempts were made in the area and numerous shafts reached 108 ft. (33 metres) in depth without reaching bedrock, mostly due to flooding by ground water. During 1903, at Claim #53 Below Discovery, a shaft sunk on the left limit hit bedrock at 105 ft. (32 metres). Drifting towards the creek was started, but just as the drift began to hit good pay, the groundwater became more than the pump could handle and the drift was abandoned. Total clean-up for this operation was \$1200.

The busiest year on Upper Duncan Creek was 1903, with \$30,000 produced from the canyon claims. Much work was also done in 1904, with \$15,000 being produced from the canyon. Lower Duncan Creek produced very little during the early years, mostly due to excessive ground water.

During the period 1913-1916, J. A. Walsh, W. L. Bramley and J. Adair did considerable developmental work as well as some mining on Lower Duncan Creek, and some prospecting was done on the benches. By 1915, nine men were working; five on Upper Duncan, one near the forks (canyon) and three on Lower Duncan. By 1932 only one operation existed, on Upper Duncan Creek.

In 1940-41 Mr. C.E. Fisher mined ground worth 50 cents per yard above the bridge, and Mr. Ellis Johnson worked Claim #54 Above Discovery reporting "good prospects" on bedrock at 92 feet (28 metres). The locations of these operations are undocumented but they may be on Upper Duncan Creek.

By the end of the 1950's, interest was renewed on Duncan Creek. Fred Taylor began testing a one mile lease on lower Duncan Creek, and several United Keno Hill Mine employees started small operations in the canyon.

During 1965-1966 Mr. and Mrs. Heinz prospected and test-mined two one-mile leases on Upper Duncan Creek, producing 50 ounces.

In the 1960's, drilling by United Keno Hill Mines showed gravels to be about 167 ft. (51 metres) thick one mile (1.6 km) below Lightning and about 98 ft. (30 metres) thick 2 miles (3 km) below the confluence of Lightning and Duncan creeks. Some gold values were reported.

Between 1975 and 1977, Frank Taylor and J. Brooks (working as Duncan Creek Golddusters Ltd.) worked the left limit of lower Duncan Creek 1.5 miles (2.5 km) from the mouth.

Between 1978 and 1982, six operations were active at various locations along Duncan Creek and Upper Duncan Creek, including C. French and N. Bunka, D. Flick and G. Gervais, M. Alexander, Frank Taylor and Nugget Drilling. Four operations were active between 1983 and 1984, including N. Bunka, C. Deeks and E. Jarvis; D. Flick and G. Gervais; and Frank Taylor. Between 1985 and 1990, Frank Taylor and his family mined on lower Duncan Creek.

From 1989 to 1990, Sasha Mining mined on lower Duncan Creek. In 1996, Bruce Rittel hand-trenched on a terrace along lower Duncan Creek.

Bardusan Placers Ltd. mined a cut on Upper Duncan Creek just above the canyon between 1996 and 1997. Mr. Zemenchik did a small exploratory mining cut on Upper Duncan Creek in the vicinity of a right limit alluvial fan between 1998 and 2000.

Between 2001 and 2002, some claims located immediately below the waterfalls were leased to Larry Arnevik and Ricker Anderson by Joe Raab. Two cuts were completed in 2001. The narrow channel and tight, steep canyon walls made these claims a challenge to mine.

Mr. Mel Zeiler conducted testing operations on lower Duncan Creek from 2003 to 2005 and in 2007 and 2008.

Duncan Creek Golddusters on lower Duncan Creek have been continuously active since 1977, and they continued to mine in the 2017 mining season.

Historical placer mining operations on Upper Duncan Creek are given in Table 2.

Table 2 - Historical placer mining operations, Upper Duncan Creek.

Operation	Status	Latitude	Longitude
<b>Nugget Drilling and Co.,1978-1982</b>	Recent Producer 1978-present	63° 52' 48" N	135° 19' 4" W
<b>Bardusan Placers Ltd.,1995-1997</b>	Recent Producer 1978-present	63° 53' 0" N	135° 20' 0" W
<b>Flick,1984</b>	Recent Producer 1978-present	63° 52' 51" N	135° 19' 7" W
<b>Gervais &amp; Flick,1983</b>	Recent Producer 1978-present	63° 53' 5" N	135° 19' 51" W
<b>Flick,1980</b>	Recent Producer 1978-present	63° 52' 14" N	135° 16' 0" W
<b>Malicky &amp; Alexander,1976-1977</b>	Historical Producer	63° 52' 0" N	135° 15' 0" W
<b>Heinz,1965</b>	Historical Producer	63° 52' 42" N	135° 18' 45" W
<b>Raab,1958</b>	Historical Producer	63° 53' 21" N	135° 20' 18" W
<b>Turner,1951</b>	Historical Producer	63° 53' 9" N	135° 20' 0" W
<b>Sparks,1915</b>	Historical Producer	63° 53' 7" N	135° 19' 56" W
<b>Keele,1904</b>	Historical Producer	63° 52' 53" N	135° 19' 20" W
<b>Henson,1904</b>	Historical Producer	63° 52' 38" N	135° 18' 15" W
<b>Makela,1904</b>	Historical Exploratory	63° 52' 5" N	135° 15' 16" W
<b>Williams,1904</b>	Historical Producer	63° 52' 44" N	135° 18' 33" W
<b>Patterson,1903</b>	Historical Exploratory	63° 52' 36" N	135° 18' 10" W
<b>Carey &amp; Ford,1903</b>	Historical Producer	63° 52' 52" N	135° 19' 38" W
<b>Whitton,1903</b>	Historical Exploratory	63° 52' 35" N	135° 17' 59" W
<b>Dye,1902</b>	Historical Exploratory	63° 52' 56" N	135° 19' 26" W
<b>McKinnon and McIntosh,1902</b>	Historical Exploratory	63° 1' 0" N	135° 19' 8" W
<b>Gimmestad,1902</b>	Historical Producer	63° 52' 47" N	135° 19' 3" W
<b>Zemenchik, 1998</b>	Exploratory	63° 52' 12" N	135° 15' 22" W

Government placer gold royalty records prior to 1978 are incomplete, however more detail can be found in subsequent years, which are given in Table 3. This table shows that over 165,000 crude ounces have been recorded in the Mayo Mining District between 1978 and 2015.

Table 3 - Placer gold production from reported gold royalties, Mayo Mining District. Figures are in crude (raw) ounces.

STREAM or RIVER	Tributary to	2011	2012	2013	2014	2015	1978-2015
Anderson	Mayo Lake	319.51	80.48	13.58			938
Bear (Van Bibber)	McQuesten						1448
Carlson	Minto						105
Davidson	Mayo River		113.9	310.6	884.6	735.46	4432
Dawn	Mayo Lake						15
Dirksen	Mayo Lake						31
Dublin Gulch	Haggart		3.2	16.3			13099
Duncan	Mayo River	294.54	236.44	241.7	246.03	279.36	34718
Empire	No Gold				7.54		1012
Gem	Sprague						428
Goodman	South McQuesten						37
Granite Creek	Mayo Lake					1249.16	1249
Haggart	McQuesten	3.05		3.7	2.8	2.39	24508
Hight	Minto		117.82	30.62	84.9	29.96	40450
Hope Gulch	Lightning						8
Jarvis	Minto			10.67			17
Johnson	McQuesten						5437
Ledge	Mayo Lake						5815
Lightning	Duncan		304.78			0.83	11624
McQuesten	Stewart					9.24	114
Minto	Mayo River			27.31	65.13	199.42	1547
Morrison	Seattle						16
Murphy's Pup	South McQuesten	5.35	18.294	21.5	15.56		159
Owl	Mayo Lake	153.01					3642
Russell	Macmillan						287
Seattle	McQuesten					83.6	292
Secret	Swede	79.16	148.81	155.3	224.92	20.77	693
Steep	Mayo Lake						709
Stewart	Yukon						872
Swede	Haggart		16.3				4347
Thunder	Lightning	532.96	394.29		578.8	508.06	5006
Vancouver	McQuesten						928
Various Mayo Creeks		10.3					1589
<b>Total Mayo District</b>		<b>1397.88</b>	<b>1434.314</b>	<b>831.28</b>	<b>2110.28</b>	<b>3118.25</b>	<b>165569</b>

## 2016 Placer Exploration Program

### Introduction

In 2016, the exploration program consisted of geological evaluation and targeting of potential placer gold zones, limited auger drilling, resistivity geophysical surveys, RAB (rotary air blast) drilling, excavator test-pitting and ground magnetometer surveys. Figure 8 shows the main test areas and pit locations. Several bulk samples were processed and analyzed for gold character and content.

### Auger drilling

Two auger drill holes (SAM 9.5-1 and SAM 9.5-2) were collared on the property near the camp, but were only able to drill approximately 35 feet each. Bedrock was not reached.

### Ground Magnetometer Survey

Groundtruth Exploration Inc. conducted a ground magnetometer survey in the area of the alluvial fan on July 10 and 11, 2016. Approximately 6.25 line km of data was acquired. A digital elevation model (DEM) was created from the GPS altitude. The final TMI grid was produced from diurnal-corrected and IGRF-reduced data, and an 8m grid cell size was used.

The area of the alluvial fan appeared as a magnetic low, with some linear magnetic anomalies (highs) running parallel to the valley of Upper Duncan Creek. In comparison, the magnetic survey by Wengzynowski, (2008) shows only a broad high throughout the field area. This likely demonstrates that the magnetic anomalies in the ground magnetometer survey are a signature of magnetic mineral (magnetite) accumulations in the alluvial material, rather than a bedrock feature. Additionally, the magnetic low of the alluvial fan appears to obscure the magnetic signature of the paleochannels which run beneath it, and on the upstream and downstream sides of it.

### Resistivity Geophysical Surveys

Groundtruth Exploration Inc. ran a total of 10 lines of resistivity geophysical surveys on the property in the vicinity of the SAM 5 to SAM 10 placer claims. The trace of these lines are shown on Figure 11. Line 2016-03 is shown as Figure 12 as an example.

### RAB Drilling

A total of 6 RAB drill holes were collared on the property on the SAM claims, targeting interpreted paleochannels identified in the resistivity geophysical profiles. Bedrock was intersected in most holes at depths between 45 and 75 feet (LeBarge, 2017). Bedrock contacts and other lithological contacts were garnered from the drill logs, and this information was then plotted to scale on the resistivity profiles.



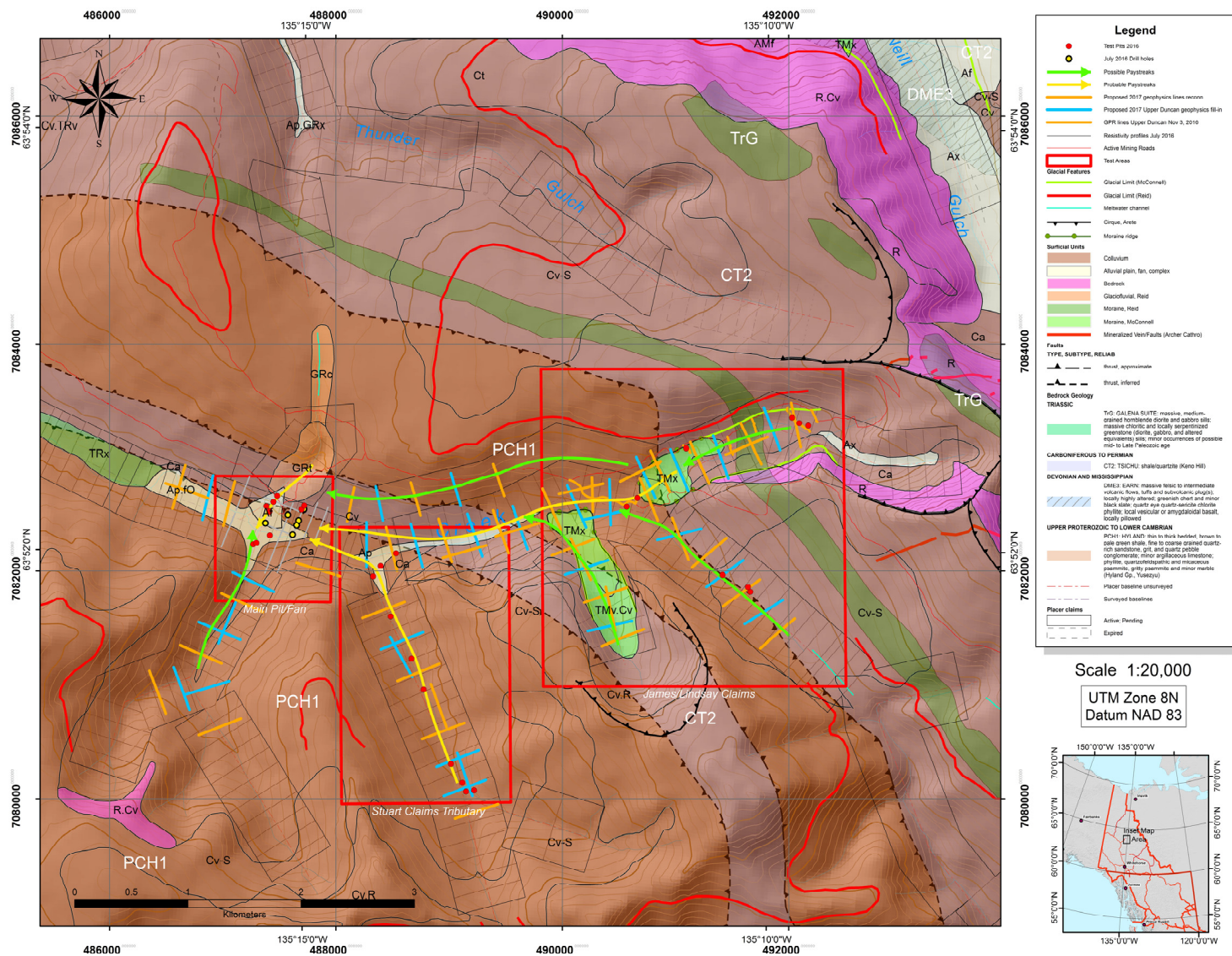


Figure 8 - Compilation map of Upper Duncan Creek showing bedrock and surficial geology, 2016 main test areas and probable and possible placer paystreaks inferred from geology, test pit results and drill results.

## Ground Penetrating Radar Surveys

A total of 8 lines totalling 1741 metres were surveyed in 2016 on the Upper Duncan Creek drainage, located on the James 9-17 and Izzie 11-15 placer claims. Boris Logutov of 47129 Yukon Inc. conducted the geophysical surveys and interpreted the profiles. Detailed interpretations are contained in LeBarge and Logutov (2016).

The GPR survey was conducted using the GPR instrument “EasyRad PRO+”, equipped with antenna with a working frequency of 100 MHz and a practical resolution of 0.2 m. The survey data was analyzed using the software program Prism 2.5. Survey lines were georeferenced in the field by recording the tracks and start and end points on a hand-held GPS. The results of the conducted surveys showed discernment of the main lithological units and the bedrock contact at depths of up to 43 m. All ground penetrating radar survey lines started in the valley (south) and ended on or near the road (north). Table 4 shows the lengths of the lines and maximum depth of bedrock encountered in the surveys.

Table 4 – GPR Line lengths and interpreted depths to bedrock on Upper Duncan Creek in 2016.

Line number	Elevation of centre (m)	Length (m)	Maximum Depth to Bedrock (m)
GPR Line 2	1478	336.63	27
GPR Line 3	1507	131.25	41
GPR Line 4	1446	149.06	23
GPR Line 5	1399	175.31	38
GPR Line 6	1373	103.85	19
GPR Line 6.1	1358	101.64	19
GPR Line 8	1247	685.75	26
GPR Line 9	1260	57.93	39



## Excavator Test Pitting

A test-pitting program was conducted in several areas throughout the Upper Duncan property in 2016. The excavator used was a JSB JS220. Figure 8 shows the location of the 2016 test pits throughout the property. They were located in three main areas – the Main Pit/Fan (Sam claims); the Stuart Claims Tributary; and the James and Lindsay Claims in the uppermost reaches of Upper Duncan Creek. All pits were described as to their geology and stratigraphy and most were sampled for placer gold content.

## Stuart Claims Tributary

Excavator test pit sampling on the Stuart claims tributary showed promising results from several samples. Samples were relatively small, all less than 15 cubic metres in volume.



Figure 9 - Gold from sample S-3 (Test Pit 2016-11) on the Stuart claims tributary was a mixture of coarse to medium colours, and weighed approximately 100 mg. The sample volume was 7.64 cubic metres.

## James, Izzie and Lindsay claims (including upper moraines)

Samples J-1 (Pit 2016-18) and J-2 (Pit 2016-19) were both excavated in the upper moraine area. Each sample was approximately 20 cubic yards; and fine, silvery angular colours were noted in the initial concentrates in the field.

Excavator test pits 2016-22, 2016-23 and 2016-24 were dug on the Lindsay claims tributary. Only hand test pans were done, and a few very fine colours were noted.

## Conclusions and Recommendations – 2016 Program

The 2016 program which used the combined methodologies of resistivity surveys, magnetometer surveys, ground penetrating radar surveys, RAB drilling and excavator test pitting was key to building a stratigraphic framework and exploration model.

The resistivity geophysical surveys appeared to define contacts including paleochannels which were traceable from one profile to the next, in cross-valley directions up and down-valley and parallel to the valley along the alluvial fan. Drill hole and test pit calibrations aided in the discernment of contacts in the profiles, however discontinuous permafrost and variable groundwater content complicated the possible interpretations. Potential paleochannels identified in the resistivity profiles and confirmed by the RAB drilling also appeared to coincide with linear magnetic anomalies identified by the magnetometer survey.

Ground penetrating radar appeared to show depths to bedrock, although the surveys have not yet been confirmed by other methods. Interpretation of the ground penetrating radar surveys was aided by the fact that several of the radar profiles started or ended near actual bedrock contacts in the valley sides. In addition, Test Pit 2016-20 coincided with GPR line GPR-6.1. In this case, the interpreted depth to bedrock (5m or 15 ft) on the radar line at the location of the test pit corresponded exactly to the depth that bedrock was encountered in the pit. Although it was usual to distinguish unconsolidated overburden material from bedrock, it was only rarely possible to distinguish other lithological contacts in the GPR profiles. Possible paleo-alluvium was identified in profiles GPR-02, GPR-05 and GPR-08. Significant paleochannel targets were identified in lines GPR-08 and GPR-09.

The main recommendations at the conclusion of the 2016 program were:

- 1) A large bulk sample for the Main pit area and areas immediately adjacent, including the meltwater channel pit just upstream of the Main pit, and
- 2) In the rest of the property including all tributaries, an extensive program of geophysics followed by drilling and test pitting of identified targets, in order to gauge or confirm interpreted depths to bedrock, paleochannels, lithological contacts and placer gold content.

## Rationale for Exploration

Bedrock gold sources in the Keno Hill district are spatially associated with both the Carboniferous Keno Hill quartzite and the Triassic Galena Suite diorite/gabbro. This is due to their brittle nature, a predisposition to host mineralized quartz veins (Roots, 1997a, 1997b). Splay faults within the Keno Hill quartzite, or the thrust faults which mark the boundaries of the unit, are also likely to host mineralization which can supply gold to the local alluvium.

Surficial mapping by Bond (1998), placer studies by LeBarge et.al. (2002) and the 2016 placer exploration program results have allowed the construction of a basic stratigraphic framework, and demonstrated the placer gold potential of the Upper Duncan creek drainage including its tributaries. Additionally, the combined methods of resistivity, ground penetrating radar, magnetometer surveys and follow-up drilling and test-pitting have proven to be effective tools for placer exploration in the deeply glaciated terrain of the Gustavus Range.

Significant, possibly economic placer gold values have been obtained in many areas on Upper Duncan Creek, including within an alluvial fan which heads at the mouth of a canyon in a right limit tributary of Upper Duncan Creek (Sam claims). The fan has been more or less active since the end of the Reid glaciation, and includes material up to and including modern age gravels. It dissects a fault-bounded block of Keno Hill quartzite. Testing has indicated that the fan may be underlain by pre-existing paleochannels from a gutter channel cutting down the right limit tributary, and/or a bedrock channel running along the main valley of Upper Duncan Creek. Test pitting also shows that the valley sides immediately upstream and downstream of the alluvial fan are covered by an apron or veneer of colluvium, overlying a buried glaciofluvial terrace with gold-bearing ice-marginal sediments of probable Reid age. The left limit tributaries of Upper Duncan Creek (the Jill claims and the Stuart claims) also had promising amounts of gold in limited testing in 2016. The stratigraphy appears to consist of modern alluvial gravels on bedrock, which in turn are overlain by varying thicknesses of organic muck and colluvium. There may exist remnants of Reid-age till or even interglacial paleochannels similar to those which could lie within the main valley of Upper Duncan Creek. On the upper most part of Upper Duncan Creek are a number of McConnell-age glacial moraines (James claims). These sediments likely overly both older glacial deposits (Reid age) and interglacial alluvial paleochannels. A known bedrock source exists in this location (Minfile 105M 052) which consists of several E-NE trending mineralized vein-faults (Wengzynowski, 2008). Although the most prospective sediments for placer gold would be interglacial paleochannels, other less-sorted sediments such as glacial till may also host economic concentrations of placer gold, especially in local alpine settings where transport distances from bedrock sources are small (LeBarge, 1995; Eyles and Kocsis, 1989). This is demonstrated on the upper reaches of nearby Granite Creek, where coarse nuggets of placer gold have been mined from the alpine glacial till (Van Loon and Bond, 2014), with reported gold royalties of over 3200 crude ounces in the last two years. There is a strong possibility that the moraines on Upper Duncan Creek have similar placer gold potential, however test-pitting to date has not been of sufficient depth or volume to verify this theory. Further methodical testing of all areas of Upper Duncan Creek is recommended, with attention given to bedrock characteristics and structures that may act as potential gold sources, and a focus on the stratigraphy and sedimentology of the sediments which may host economic placer gold deposits.

## 2017 Placer Exploration Program

### Introduction

In 2017, the exploration program on the Upper Duncan drainage (outside of the main pit/test mining area) consisted of 31 resistivity lines (totalling 6405 m) as well as limited excavator test pitting and bulk sampling. Work was conducted between June 2 and August 30th, 2017. Five main areas were targeted: the James claims (upper moraines), the Izzie claims, the Lindsay claims, the Gray claims and the Stuart claims. These areas are shown on Figure 10.

### Resistivity Surveys

#### Methodology

Resistivity was chosen as a geophysical tool due to its low impact nature, ease of mobility, depth of penetration and ability to display bedrock contacts in ideal circumstances. The Lippmann 4-Point Light 10W earth resistivity meter provided high-resolution data with a weight of less than 1 kg. The lightweight resistivity cables are attached to the meter, which is connected to a field laptop. Each resistivity cable is comprised of 20 switchboxes (spaced 5m apart), attached to stainless steel electrodes which are inserted into the ground. A maximum depth penetration of 70m is possible with a 400m length (4 cables) and a dipole-dipole array. All traverses were surveyed with a Garmin GPS map 60CSx to obtain UTM coordinates and elevations of each electrode in the survey, to create a topographic profile of the survey lines.

The resistivity technique injects an electrical current into the subsurface through stainless steel electrodes and measures the remaining voltage at calculated distances away from the injection point. Ground materials have different resistances to the current, and give data points in a cross section of the subsurface. With the data points, a tomogram or pseudo section can be created representing changes of resistivity in the ground.

Data was collected in the field using the proprietary Geotest™ software on a field laptop, while the inversion and data filtering were completed with the software program RES2DINV™. Data points with poor contact resistance were exterminated and noisy data was filtered statistically with root mean-squared data trimming. Two-dimensional tomograms were produced using both least squares damped and robust inversion parameters to display the resistivity properties and to clarify proposed contacts. Resistivity survey interpretations were calibrated wherever possible with existing subsurface data including excavator test pits completed in 2016 and 2017.

Preliminary interpretations include areas of permafrost and water-saturated material as well as solid bedrock, gravel, and overburden. Comparison of resistivity pseudo sections to known drill hole and test pit data will allow extrapolation of possible contacts and interpretations to other nearby areas. The presence of permafrost will further complicate and alter the properties detected by the geophysical instruments.

Although interpretations of the pseudo sections depend on the experience of the interpreters and the local geology, general principles of electrical resistivity are:

1. Low resistivity can indicate thawed and water saturated areas, as well as fine-grained material.
2. Very high resistivity values can be due to ice-rich material and frozen or highly disturbed ground.
3. Dry gravels, cobbles and boulders generally have high resistivity values.
4. The contrasts between values is more important in determining contacts than the absolute values found with resistivity data.

### **Limitations of the Data**

The interpreted sections provided an estimate of the subsurface conditions and were limited by the accuracy of the system and methods. The data was more uncertain with depth and more accurate toward the surface, and interpretations were further complicated by the presence of discontinuous permafrost. The materials were interpreted based upon drill hole and/or test pit data, as well as local geology and overall geologic knowledge of the area. Different subsurface material may have similar physical/electrical properties, resulting in uncertain interpretation of results.

Low contact resistance was not always obtained during the surveys, despite best efforts, so in some areas, many data points needed to be filtered out and removed during processing. Poor contact resistance was attributed to rocky and frozen ground conditions, and cobbles near the ground surfaces. Some areas of high resistivity in the pseudo-sections (especially at the surface) may represent zones of poor contact resistance and may not be an accurate reflection of the materials present.

### **Disclaimer**

The accuracy of the information presented is not guaranteed. It is the client's responsibility to review all information prior to development, and to conduct testing or site investigation required for development. William LeBarge and Selena Magel accept no liability for the use of these results and interpretations by any authorized or unauthorized parties.

### **General Results**

Overall, interpretation of potential bedrock contacts was possible in most of the surveys, and this was dramatically improved by the presence of nearby or adjacent test pits. Extensive permafrost in some survey areas generally increased the uncertainty of the interpreted results. Permafrost was more continuous on north facing slopes, and was discontinuous on south-facing slopes and in parts of the valleys with high water saturation. In these areas, contrasts between low and high resistivity values may have been partially or wholly a reflection of varying groundwater and permafrost conditions rather than strictly lithological boundaries, however there was enough information to identify drill targets for further exploration.

Table 5 outlines the lengths and locations of these lines, and detailed interpretations follow.



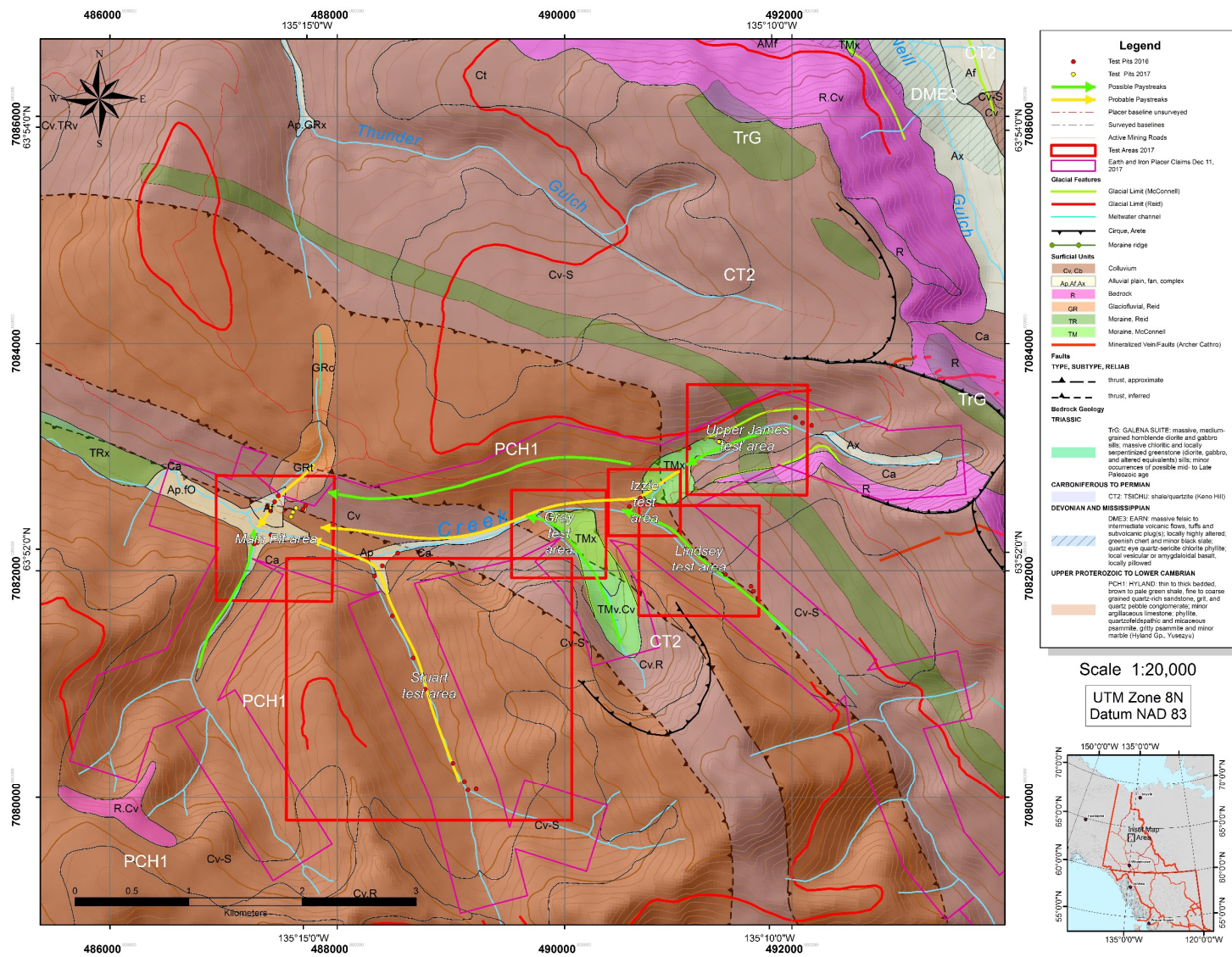


Table 5 - Resistivity line names with lengths and start and end GPS points.

Resistivity Line Name	Start Point				End Point				Length (m)
	Latitude	Longitude	Northing	Easting	Latitude	Longitude	Northing	Easting	
RES17-GRAY1-01	63.86735	-135.20318	7082248.562	490014.8615	63.86833	-135.20049	7082357.308	490147.3274	200
RES17-GRAY2-01	63.86494	-135.19903	7081979.007	490218.1163	63.86575	-135.19615	7082068.952	490359.7382	200
RES17-IZ12-01	63.87088	-135.19998	7082641.059	490173.3799	63.86856	-135.20166	7082383.541	490090.2881	300
RES17-IZ12-02	63.86976	-135.19864	7082516.602	490238.8496	63.87004	-135.20426	7082548.644	489962.9859	300
RES17-IZ13-01	63.87020	-135.19451	7082564.649	490441.8574	63.87241	-135.19292	7082810.463	490520.7653	300
RES17-IZ14-01	63.87095	-135.19094	7082648.097	490617.7687	63.87241	-135.19303	7082811.086	490515.2492	200
RES17-IZ14-02	63.86999	-135.19155	7082540.889	490587.5151	63.87080	-135.19032	7082630.742	490648.09	115
RES17-IZ14-03	63.87008	-135.19333	7082551.851	490500.1736	63.87158	-135.19240	7082718.633	490546.0331	180
RES17-IZ14-04	63.87103	-135.19122	7082656.828	490604.0026	63.87025	-135.19228	7082570.392	490551.5033	100
RES17-IZ14-05	63.87064	-135.19355	7082614.209	490489.3975	63.87296	-135.19510	7082873.064	490413.9634	300
RES17-IZ14-06	63.86999	-135.19234	7082540.947	490548.5912	63.87135	-135.19038	7082692.294	490645.1085	200
RES17-IZ15-01	63.87017	-135.18971	7082561.055	490678.0048	63.86954	-135.19071	7082491.003	490628.4993	100
RES17-IZ15-02	63.87036	-135.18771	7082581.586	490776.0959	63.86914	-135.18981	7082446.442	490672.5535	200
RES17-IZ15-03	63.87063	-135.18920	7082612.053	490702.9016	63.87059	-135.18744	7082606.842	490789.7046	100
RES17-IZ15-04	63.87016	-135.18900	7082559.73	490716.9433	63.87165	-135.18769	7082725.133	490777.6938	200

Resistivity Line Name	Start Point				End Point				Length (m)
	Latitude	Longitude	Northing	Easting	Latitude	Longitude	Northing	Easting	
RES17-IZ15-05	63.87110	-135.18876	7082664.6	490724.6282	63.86938	-135.19101	7082472.643	490613.7367	300
RES17-IZ16-01	63.86925	-135.18763	7082457.6	490779.8822	63.86869	-135.18902	7082395.634	490711.4378	100
RES17-IZ8-01	63.86842	-135.20938	7082368.8	489710.7892	63.87039	-135.21286	7082588.822	489540.472	300
RES17-IZ8-02	63.86843	-135.20941	7082370.4	489709.1426	63.86955	-135.20677	7082494.144	489839.4905	200
RES17-JM11-01	63.87810	-135.16300	7083441.0	491992.853	63.87601	-135.16092	7083207.495	492094.3525	300
RES17-JM14-01	63.87593	-135.17400	7083200.6	491451.6658	63.87393	-135.17284	7082977.034	491508.167	250
RES17-JM15-01	63.87618	-135.17640	7083227.2	491329.8055	63.87359	-135.17675	7082939.458	491311.3968	300
RES17-JM16-01	63.87552	-135.18020	7083155.4	491147.0862	63.87345	-135.17780	7082925.054	491264.2542	300
RES17-LN4-01	63.86427	-135.16980	7081900.2	491654.5093	63.86393	-135.17156	7081863.43	491567.7395	100
RES17-SM216-01	63.86411	-135.23503	7081892.4	488448.2183	63.86386	-135.23747	7081865.907	488328.5187	150
RES17-SM217-01	63.86558	-135.23513	7082056.3	488443.9642	63.86471	-135.23799	7081960.563	488303.1094	200
RES17-ST13-01	63.84822	-135.21925	7080119.6	489217.9674	63.84729	-135.22215	7080016.118	489074.7458	195
RES17-ST14-01	63.84709	-135.21403	7079992.9	489474.3262	63.84630	-135.21546	7079904.476	489403.33	145
RES17-ST2-01	63.86169	-135.23311	7081623.4	488541.8158	63.86105	-135.23612	7081552.187	488393.5177	185
RES17-ST4-01	63.85838	-135.22932	7081253.6	488726.8591	63.85789	-135.23223	7081199.42	488583.3241	190
RES17-ST9-01	63.85231	-135.22342	7080576.4	489014.6469	63.85213	-135.22687	7080557.04	488844.7174	195



## Targeted Areas and Interpreted Profiles

### *James Claims (Upper Duncan moraines)*

The James tributary originates in a steep cirque on the east side on Mount Hinton, which is the locale for significant gold-bearing mineralized bedrock (Minfile #105M 052 MT. HINTON). The proximity to this known bedrock gold source makes the James tributary a good prospect for placer gold. The local bedrock is of two types: Keno-Hill quartzite, and Triassic diorite. Both Reid and McConnell glacial features are mapped (Bond, 1998), however the main landforms are McConnell glacial moraines which extend along the whole length of the James claims. Contacts between bedrock units, such as the local quartzite with diorite intrusions, can be rich gold hosts due to increased mineralization along the contacts between the units.

Four resistivity profiles were surveyed on the James claims, shown on Figure 11. From upstream to downstream, these profiles are: RES17-JM11-01, RES17-JM14-01, RES17-JM15-01, and RES17-JM16-01. Profiles RES17-IZ14-01 and RES17-IZ14-05 are parallel to these but lie farther downstream, and are described in the IZZIE claims in the subsequent section following.

Evidence of a contact between the Keno-Hill quartzite and the Triassic diorite intrusion may be evident in resistivity section RES17-JM11-01 (Figure 12). The target in Figure 12 may include the fault or contact zone, and confirming this would assist in the understanding of the geology in the upper James tributary. Confirmation of the contact or fault and of Reid till located close to the known Mt. Hinton gold source makes the upper James claims a target for further ground investigation with test pits or drilling to confirm depths interpreted in the resistivity pseudosections.

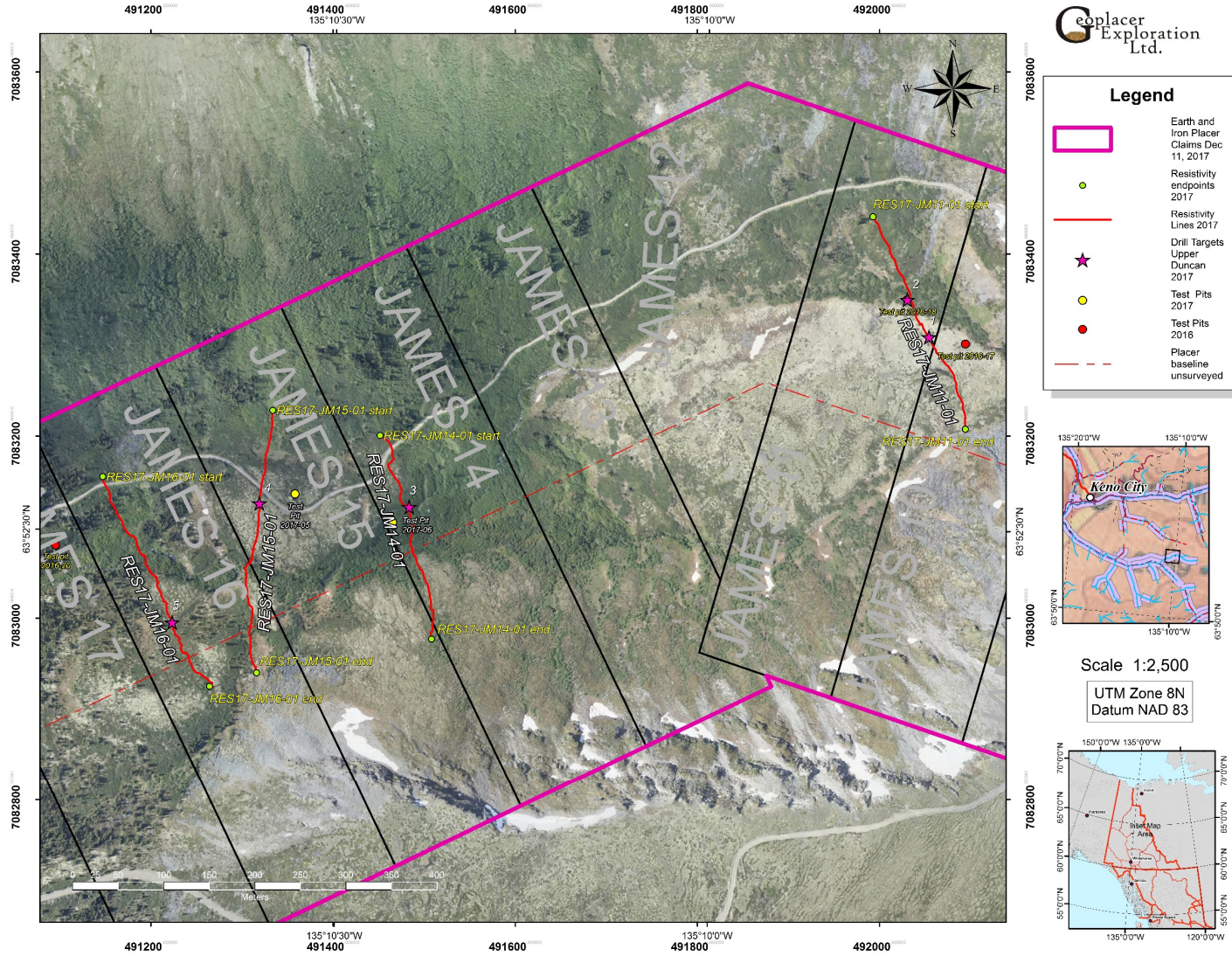


Figure 11 - Upper James claims in the upper moraines of Upper Duncan Creek, showing 2017 resistivity lines, 2016 and 2017 test pits, and proposed drill targets.

## RES17-JM11-01

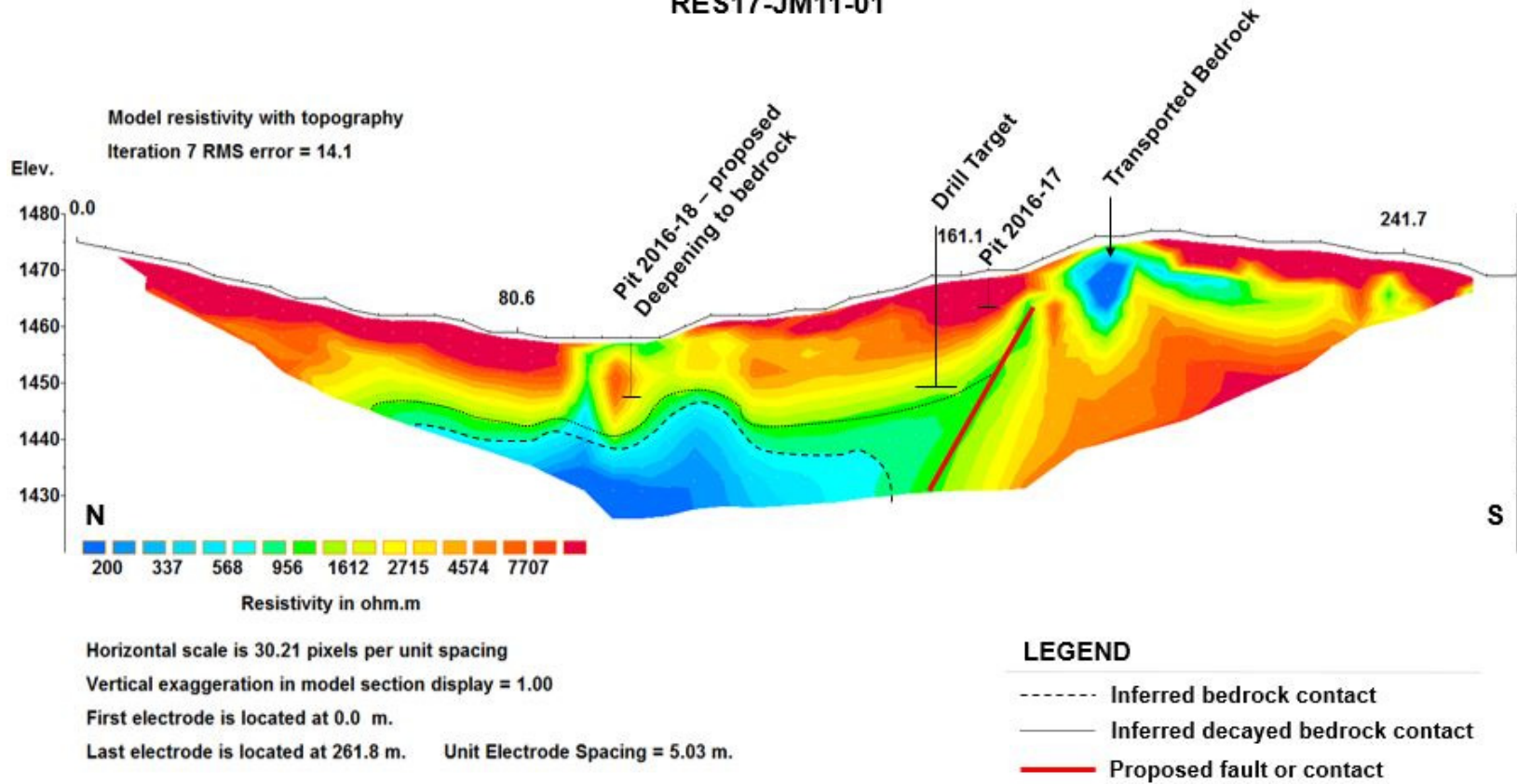


Figure 12 - RES17-JM11-01 is located at the upper end of the James tributary near the Mt. Hinton Cirque, and was surveyed across Test pits 2016-18 and 2016-17, which did not reach bedrock. The bedrock contact was interpreted by comparison of depths to downstream Test pit 2017-05, which reached bedrock. Transported bedrock was observed in the south end of the section and is the interpretation of the strong low resistivity anomaly shown. Proposed exploration includes deepening Test Pit 2016-18 and drilling in the area of the possible fault, which may separate two types of bedrock.



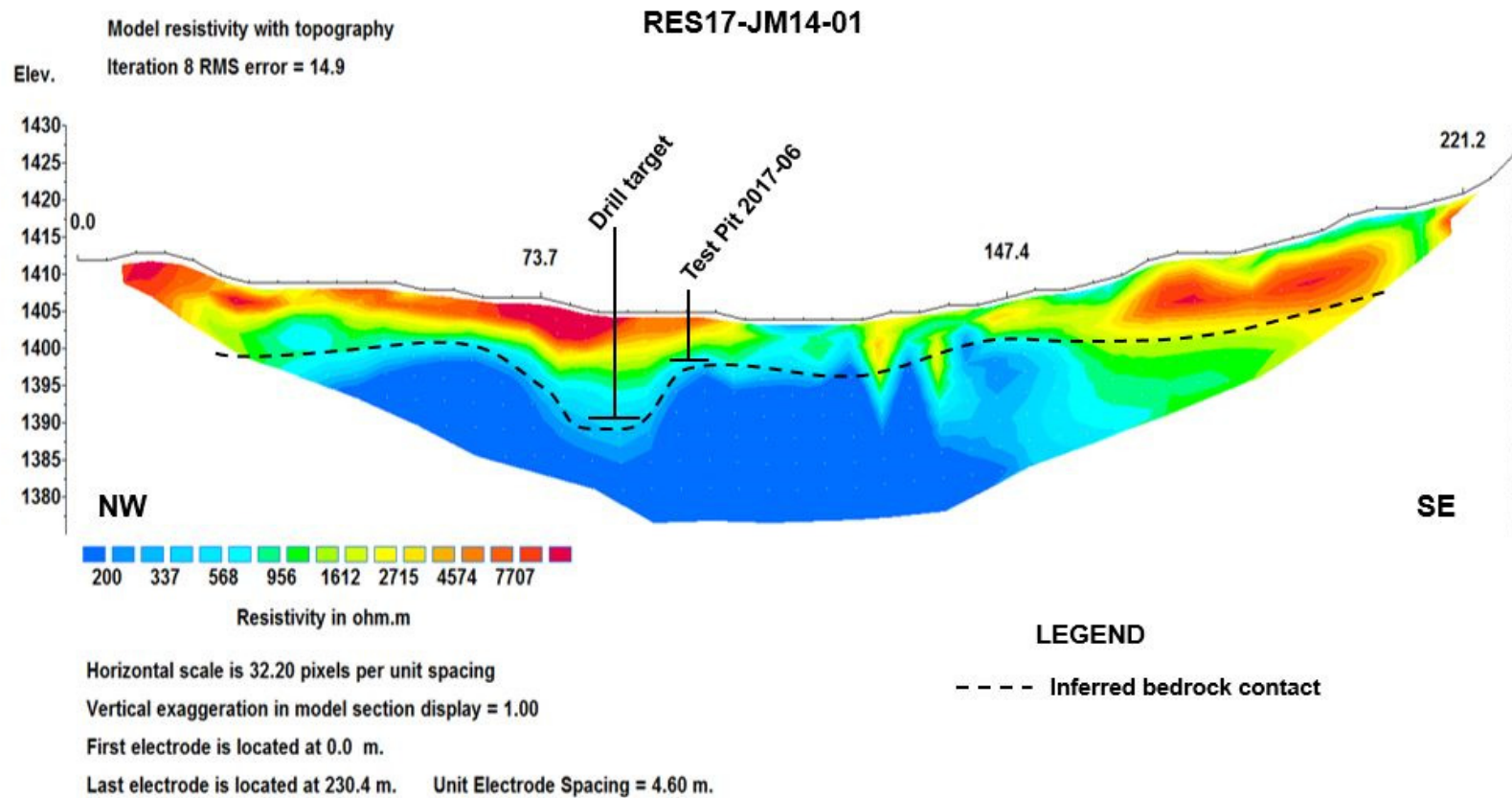


Figure 13 - RES17-JM14-01 is downstream of RES17-JM11-01. This profile has an interpreted bedrock contact that gently undulates except for a bedrock depression, which is a proposed drill target at 85 metres. Test Pit 2017-06 appears to have reached bedrock at approximately 7 m in a location adjacent to the bedrock depression.



# RES17-JM15-01

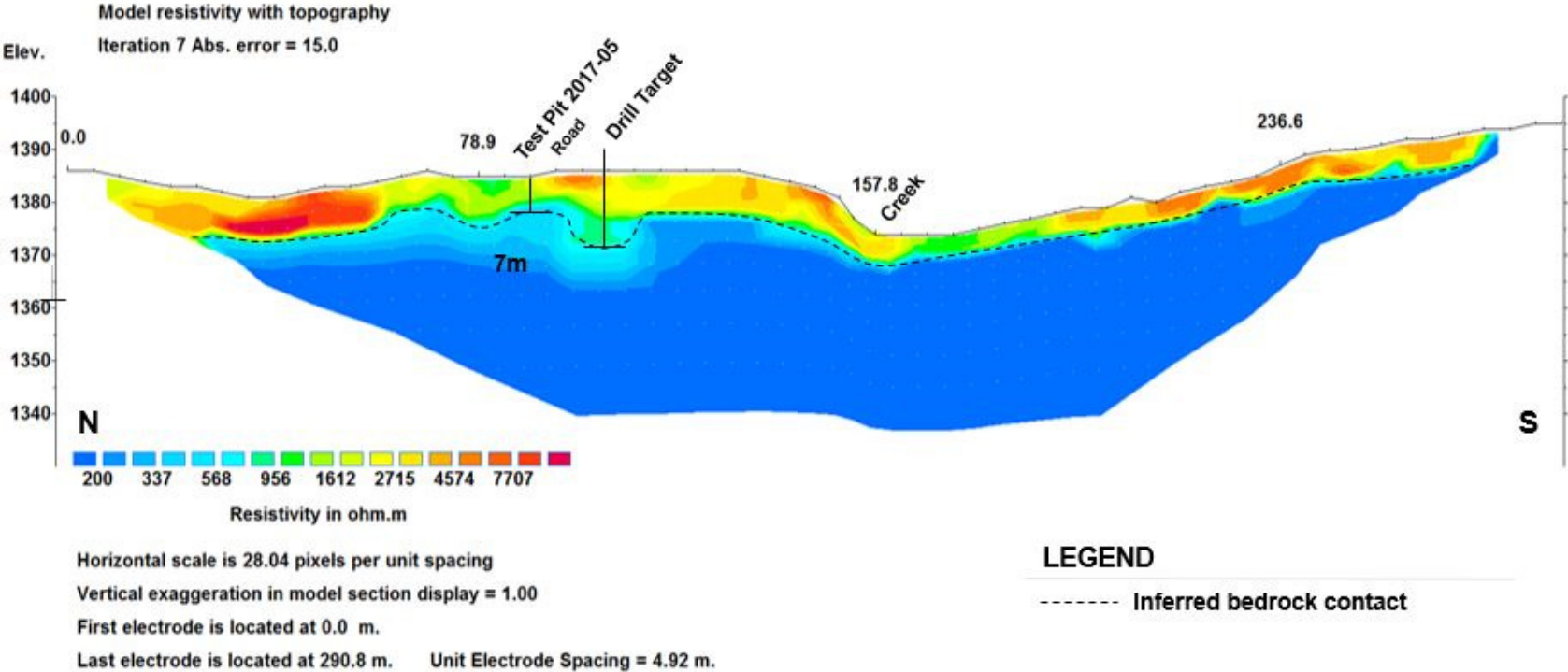


Figure 14 - RES17-JM15-01 is located downstream of RES17-JM14-01 to which it bears a strong resemblance. Test Pit 2017-05 confirmed bedrock depth in one location at 7 m, and a drill target is proposed nearby.

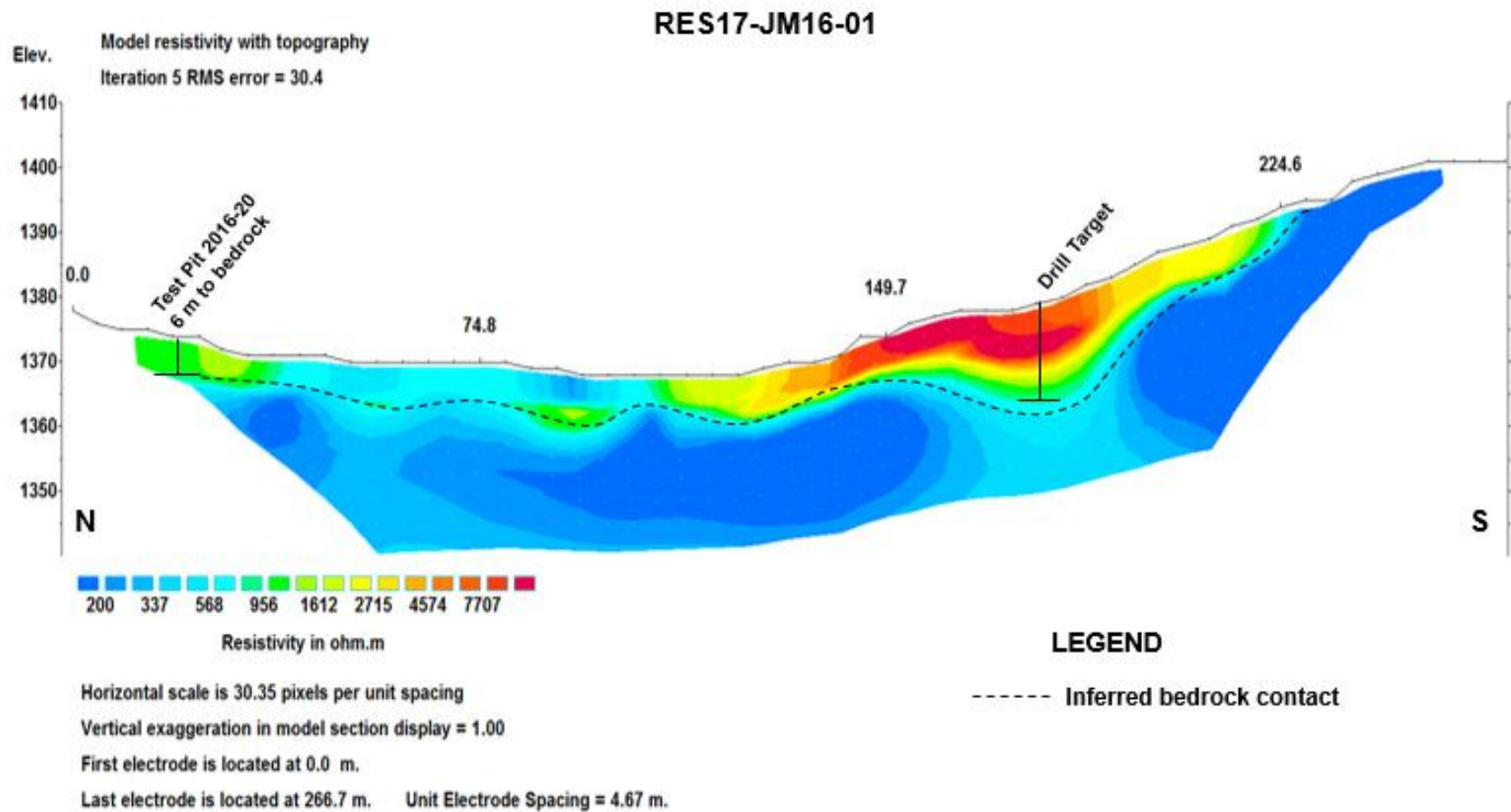


Figure 15 - RES17-JM16-01 was surveyed just upstream of Test Pit 2016-20, which encountered bedrock at 6 m. A drill target is proposed on this profile in an area of an apparent bedrock depression.

### *Izzie Claims*

The IZZIE claims include the reaches of Upper Duncan Creek upstream of the SAM claims, and downstream of the James claims. They encompass an area at the confluence of the upper moraine (James claims) tributary and the confluence with the Lindsay claims tributary. The IZZIE claims lie mainly within the Hyland Group phyllite although the thrust fault contact with the Keno Hill quartzite lies just upstream (Roots 1997a, 1997b). The main IZZIE claims surveyed lie at the terminus of the alpine McConnell glacial moraines, which originate in the headwaters of Mt. Hinton to the east (Bond, 1998).

A total of 13 resistivity profiles were surveyed on the IZZIE 13 to IZZIE 16 placer claims, shown on Figure 16. The profiles are arranged in the figures following roughly upstream to downstream. The lines are:

RES17-IZ16-01, RES17-IZ15-02, RES17-IZ15-01, RES17-IZ15-05, RES17-IZ14-02, RES17-IZ14-06, RES17-IZ14-04, RES17-IZ14-03, RES17-IZ13-01, RES17-IZ15-04, RES17-IZ15-03, RES17-IZ14-01 and RES17-IZ14-05.

A distinctive bedrock bench is noticeable on the left limit in profiles RES17-IZ16-01, RES17-IZ15-02, RES17-IZ15-01, RES17-IZ15-05, RES17-IZ14-02, RES17-IZ14-06, RES17-IZ14-04, RES17-IZ14-03, and RES17-IZ13-01. As well, a narrow bedrock depression can be seen on the same series of profiles – this depression was exposed in the IZZIE test pit, and is described in the section on excavator test pitting.



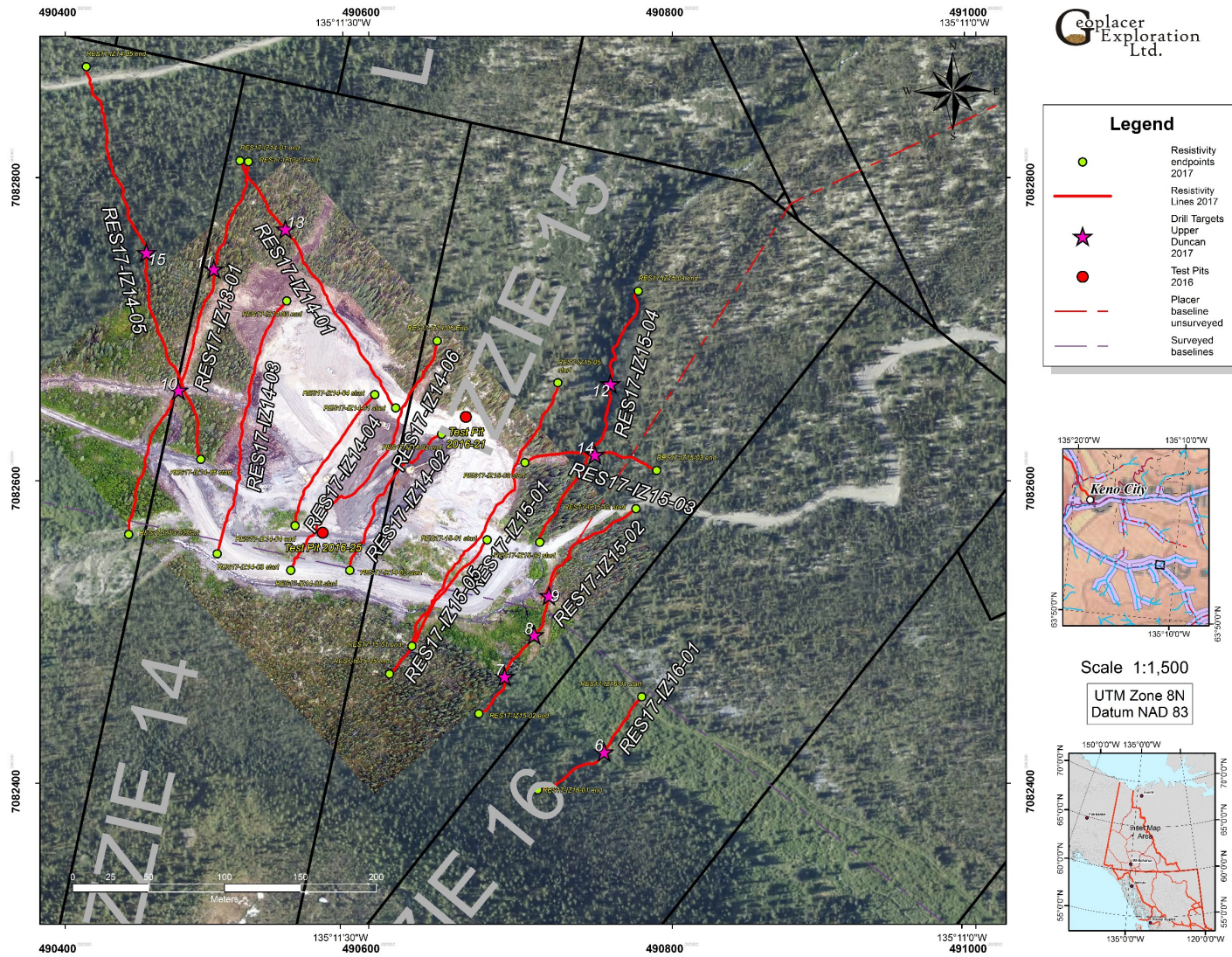


Figure 16 - Map showing 2017 resistivity profiles at the IZZIE claims, overlain on a georeferenced drone image of the IZZIE excavator test pit. Potential drill targets are also shown.



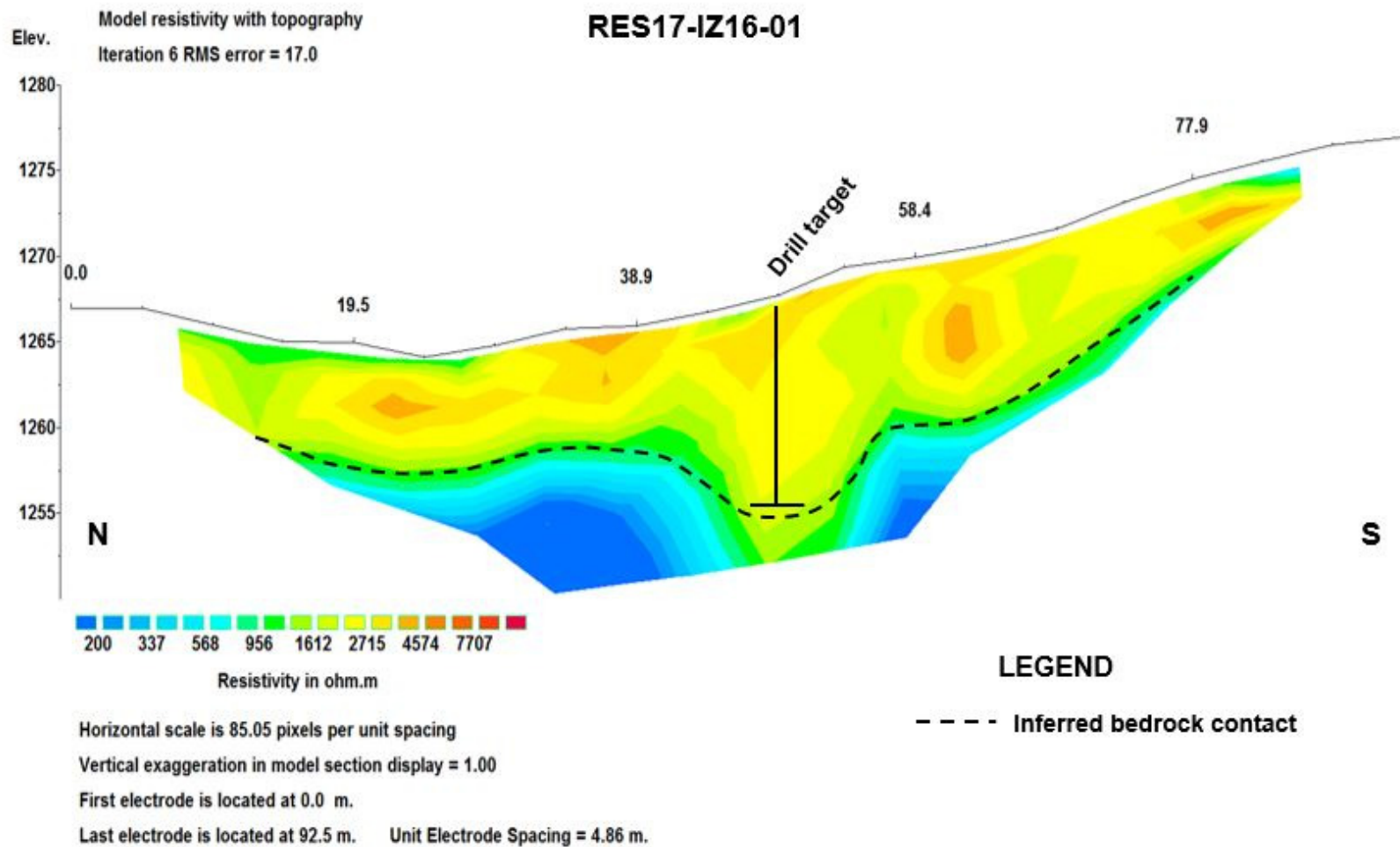


Figure 17 - RES17-IZ16-01 is located upstream of the excavated test pit and exhibits a narrow depression and a zone of high resistivity in the centre. A drill target is proposed.

## RES17-IZ15-02

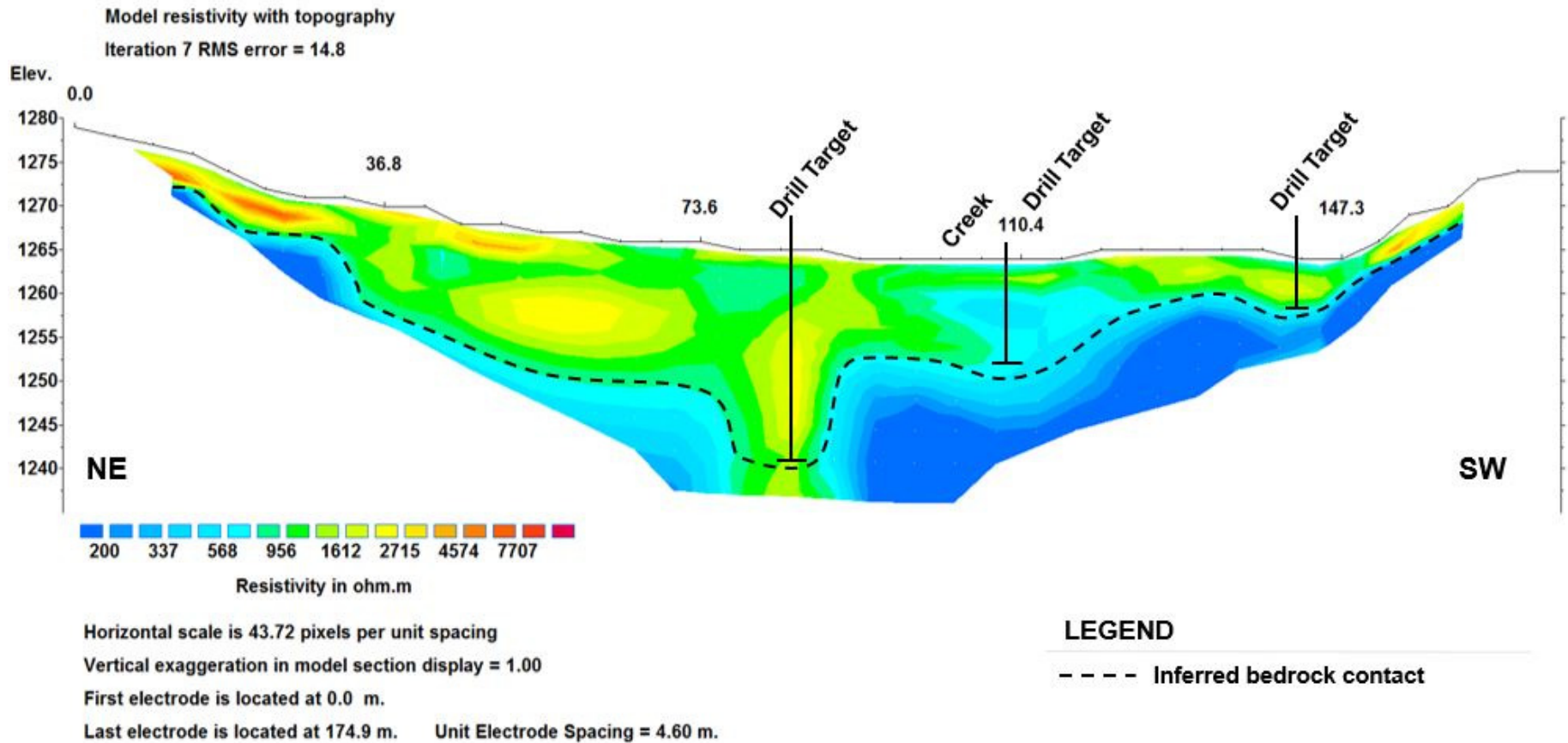


Figure 18 – Profile RES17-IZ15-02 was surveyed just upstream of the IZZIE test pit, and it showed a narrow depression which was seen in downstream profiles and confirmed by excavation in the pit. A distinctive bedrock bench is apparent on the left limit, in the right side of this profile. Several drill targets are proposed.

## RES17-IZ15-01

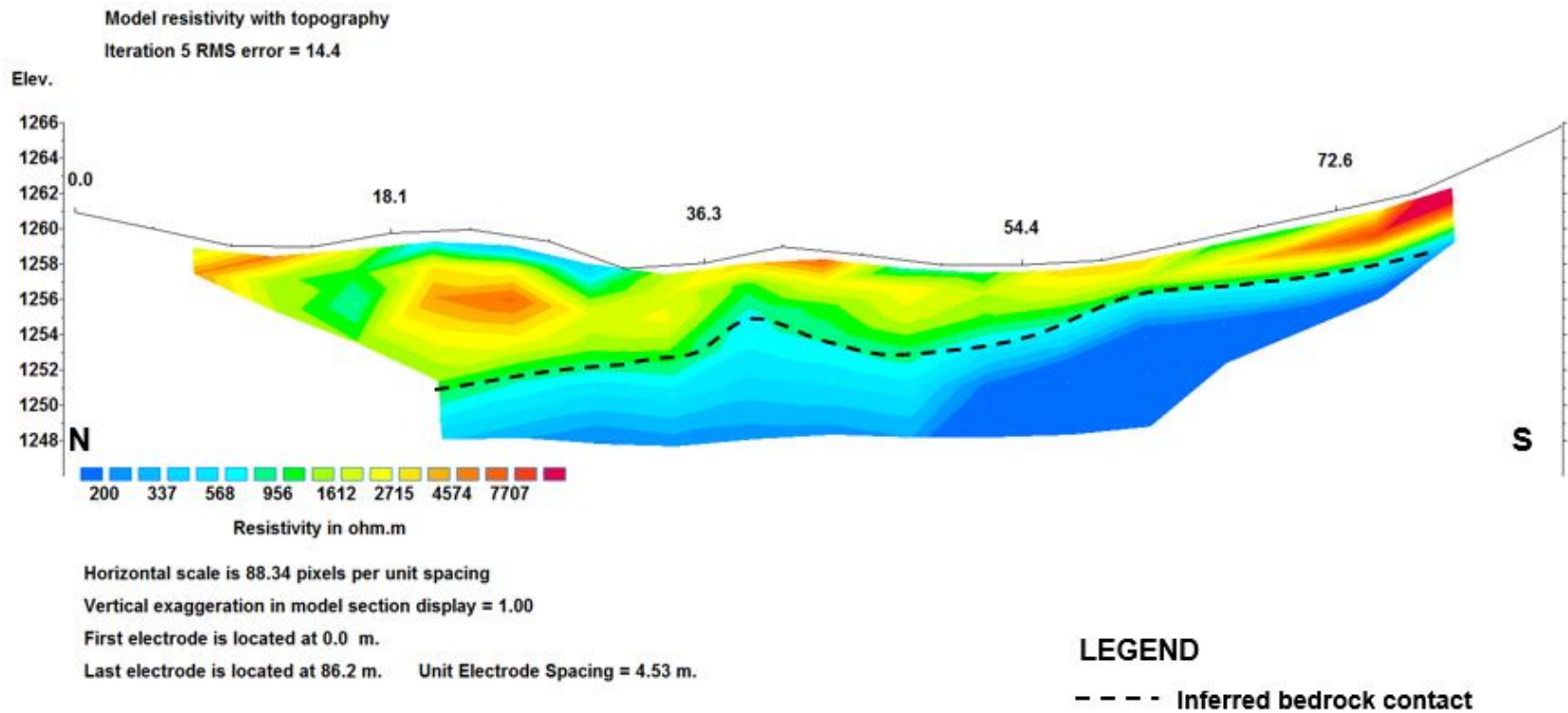


Figure 19 - RES17-IZ15-01 was surveyed across the main Izzie test pit. Bedrock was distinctive as well as the possible left limit bedrock bench seen on other profiles.

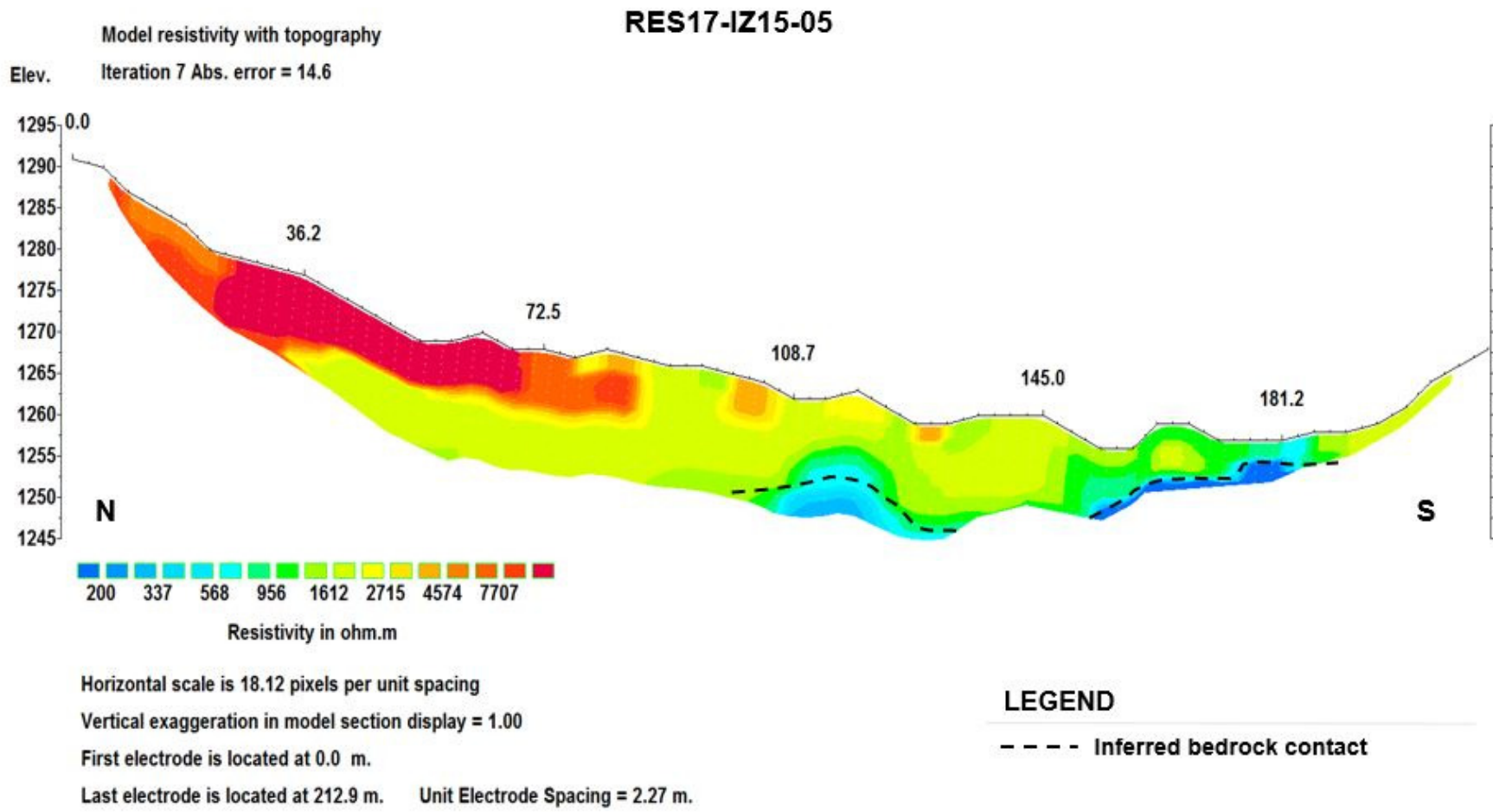


Figure 20- RES17-IZ15-05 is located just upstream of the IZZIE test pit and shows limited depth due to large increase in elevation within the survey. The high resistivity area on the north side of the survey represents rocky colluvium and disturbed material. The distinctive bedrock bench can be seen as the dark blue zone on the left limit (south side) of the profile.



## RES17-IZ14-02

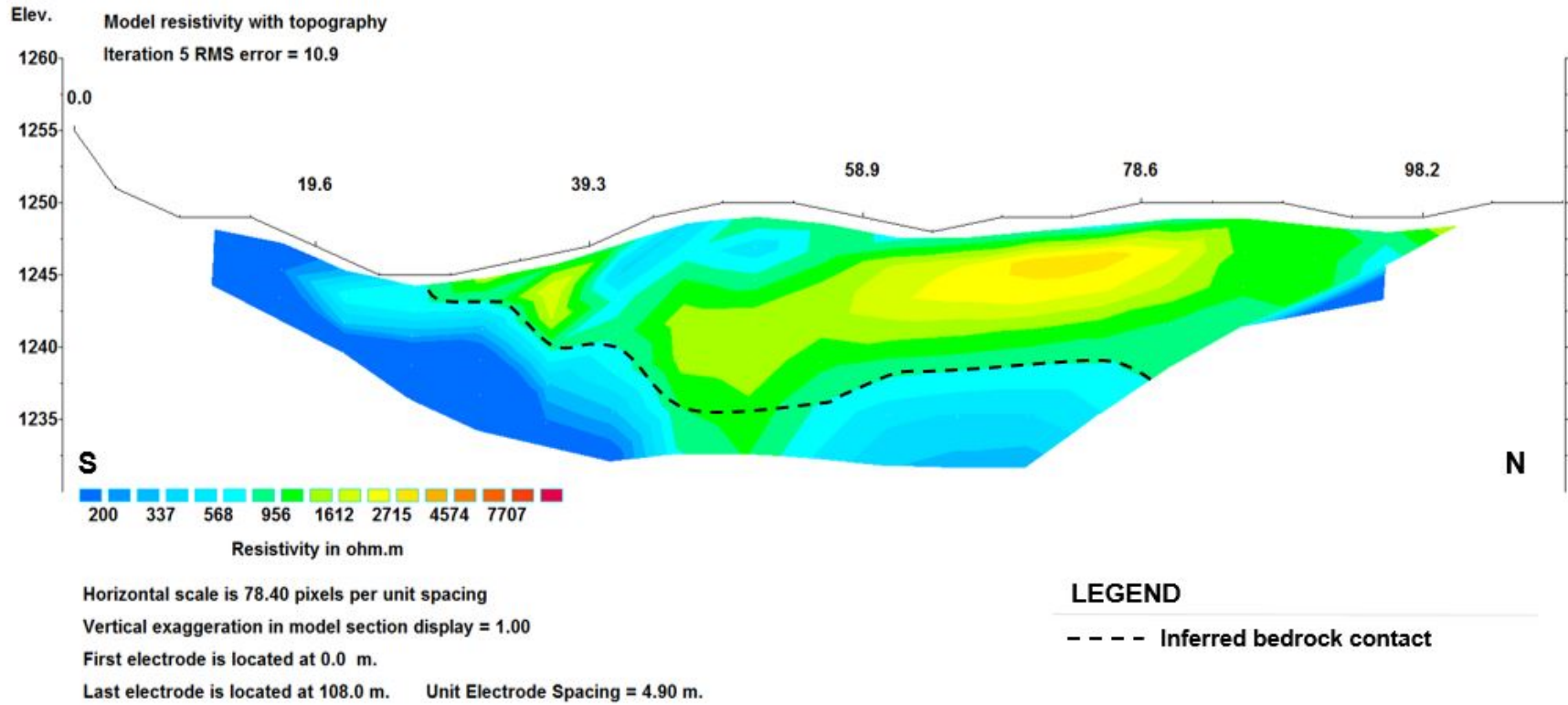


Figure 21 - Profile RES17-IZ14-02 was located in the active IZZIE exploration pit, and it showed the left limit bedrock bench distinctly on the left (south) side of this profile.

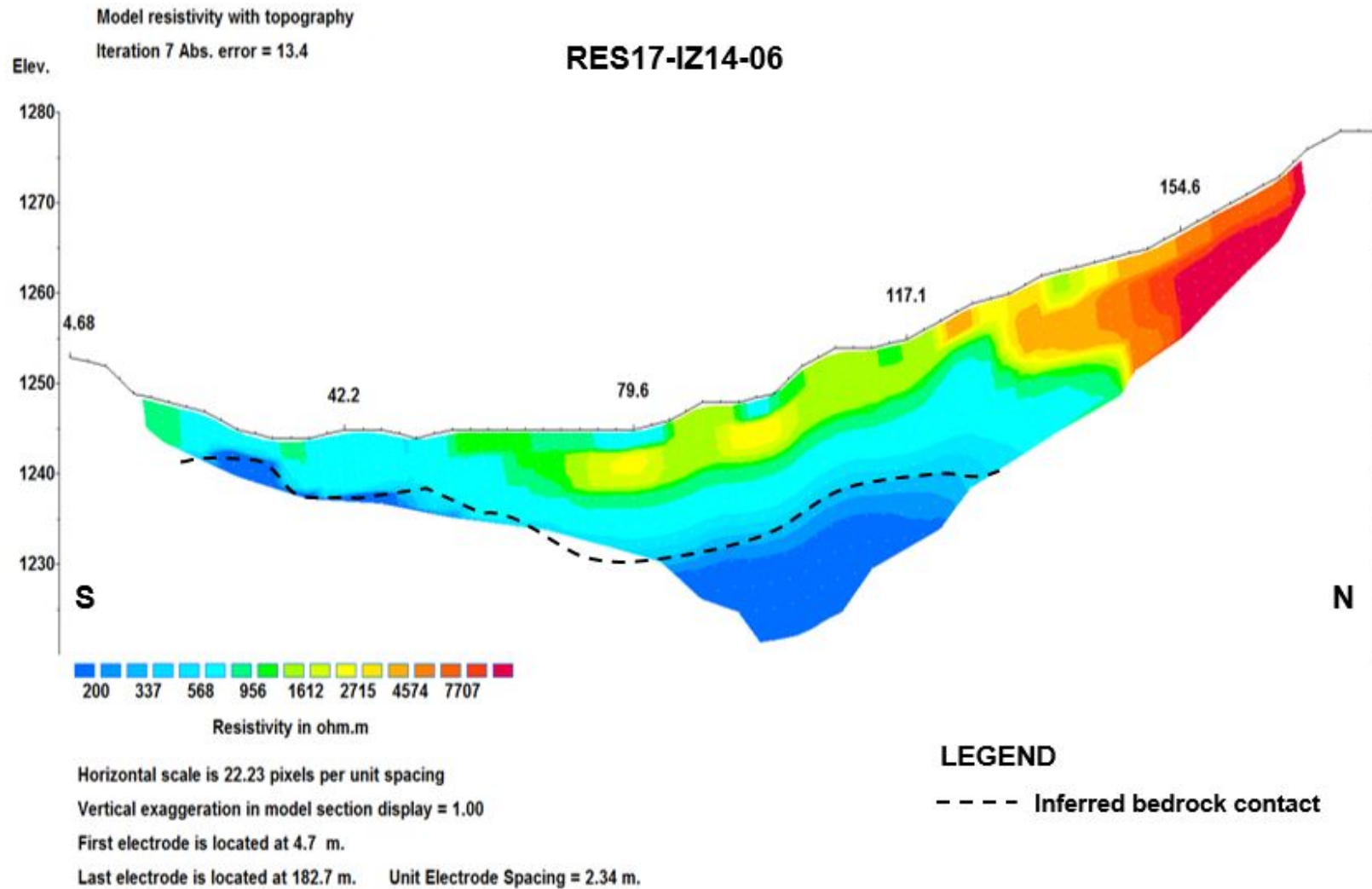


Figure 22 - RES17-IZ14-06 was surveyed across the IZZIE excavated test pit, and it showed the left limit bedrock bench on the south side of the profile. A high resistivity zone on the north side is due to rocky, frozen till.

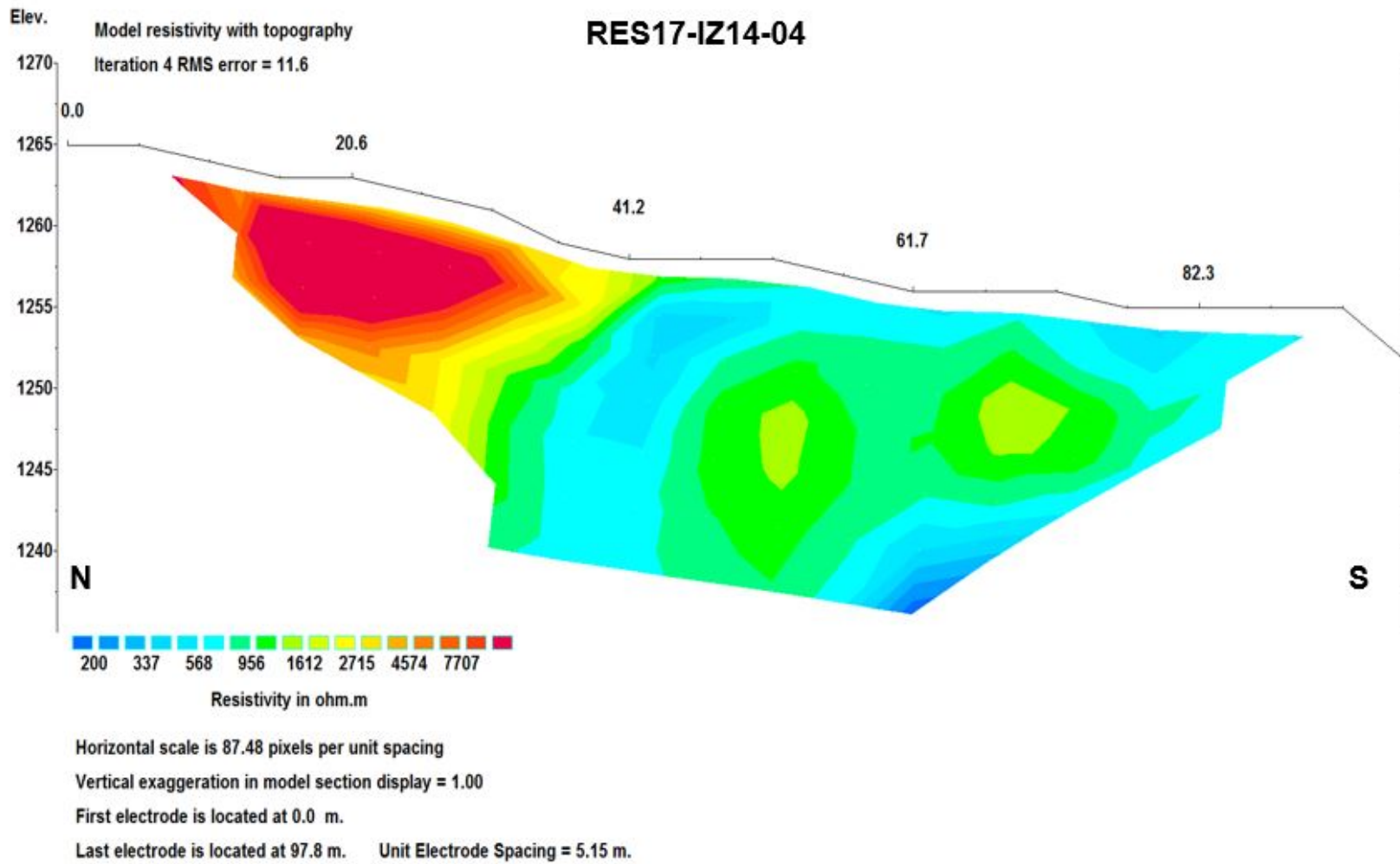


Figure 23 - RES17-IZ14-04 did not have good data results but still appeared to show the possible bedrock bench (dark blue) on the south side of the profile.

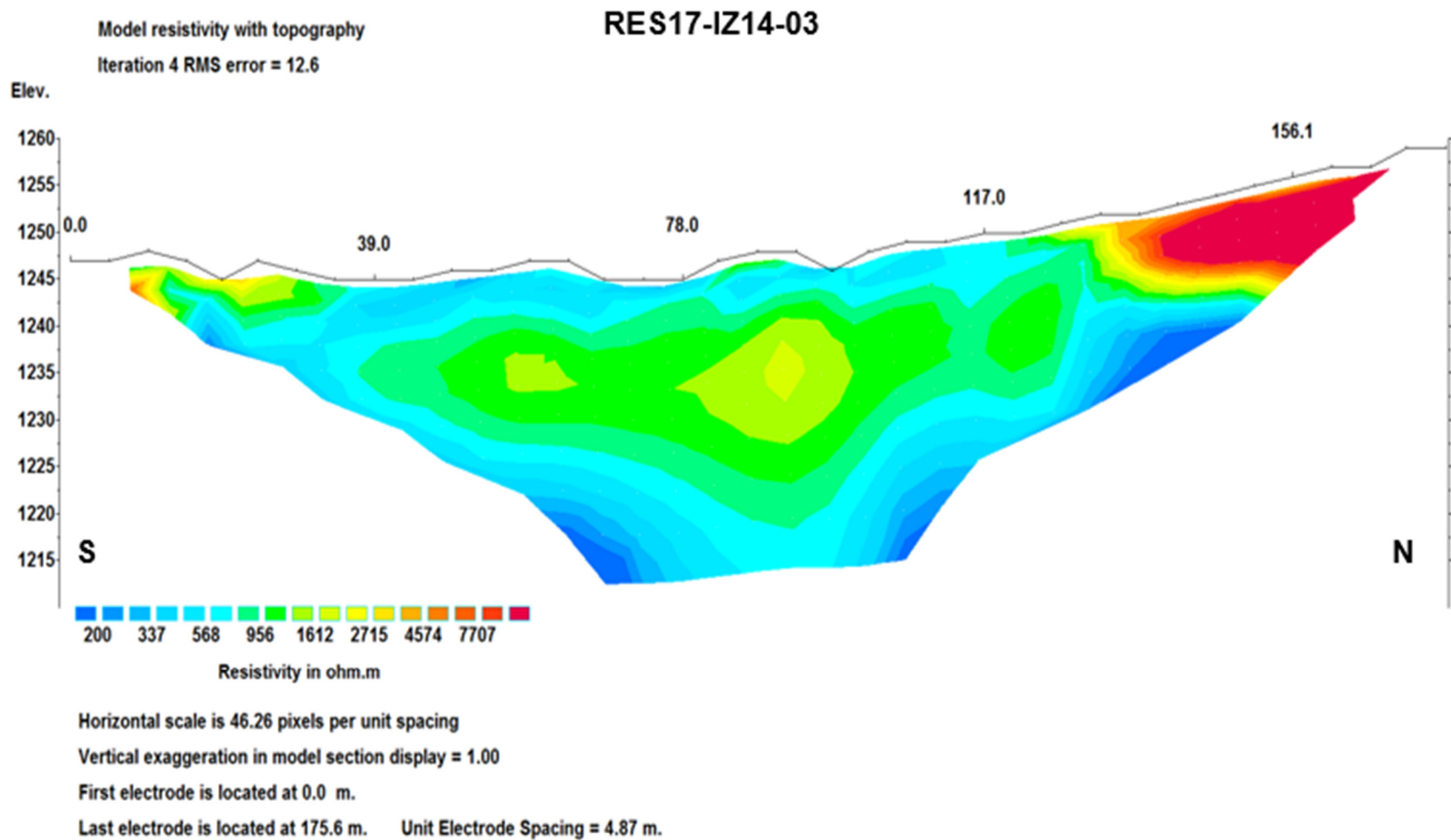


Figure 24 - RES17-IZ14-03 was surveyed on the far west side of the IZZIE test pit. It displays an area of high resistivity in the north that represents disturbed ground, as well as a central depression that resembles the bedrock depression seen in upstream profiles and confirmed in the IZZIE test pit.



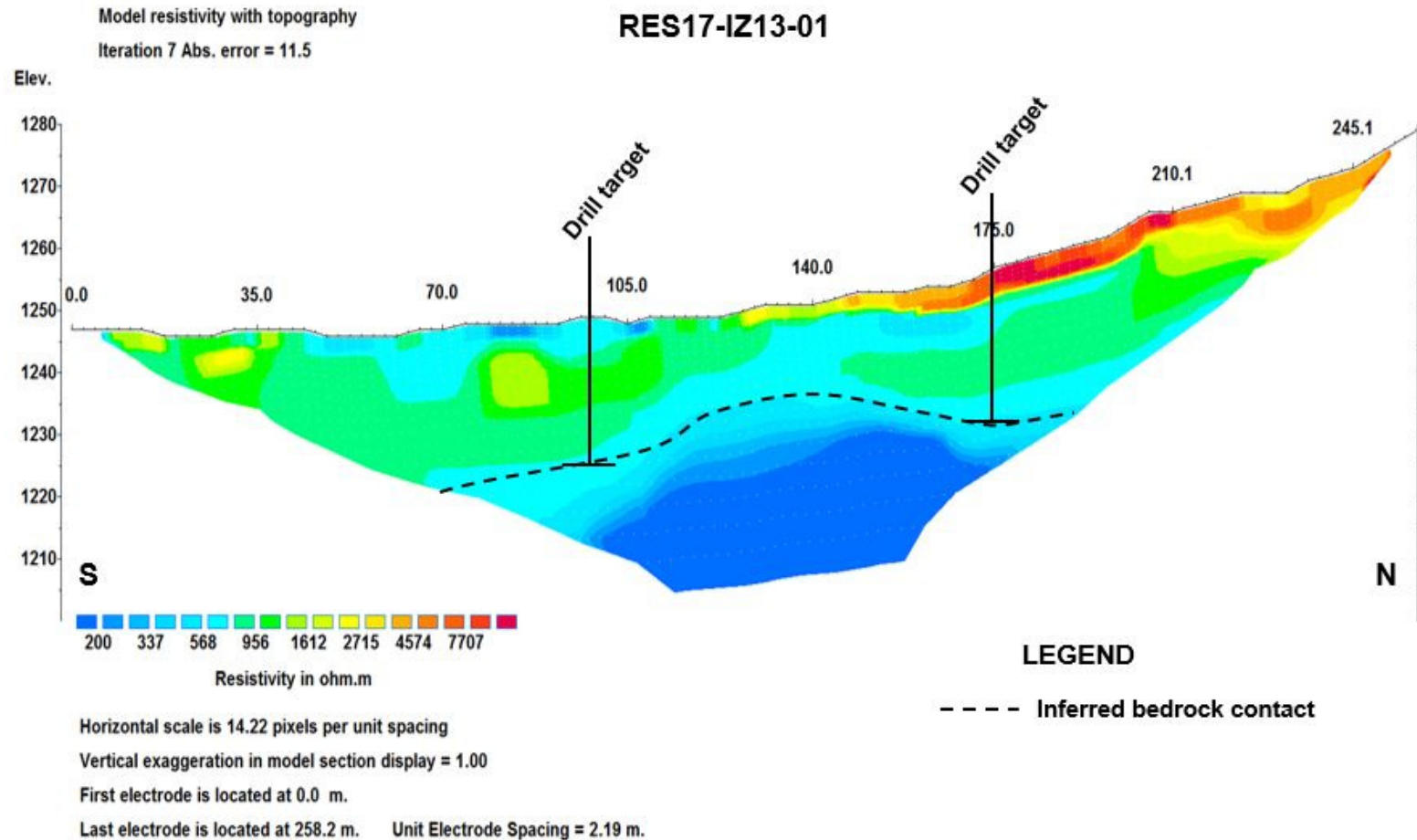


Figure 25 - RES17-IZ13-01 was surveyed downstream of the mapped McConnell glacial limit. A layer of colluvium on the hillslope is displayed as a high resistivity layer on the northeast side, and two drill targets are proposed on either side of an interpreted bedrock high.

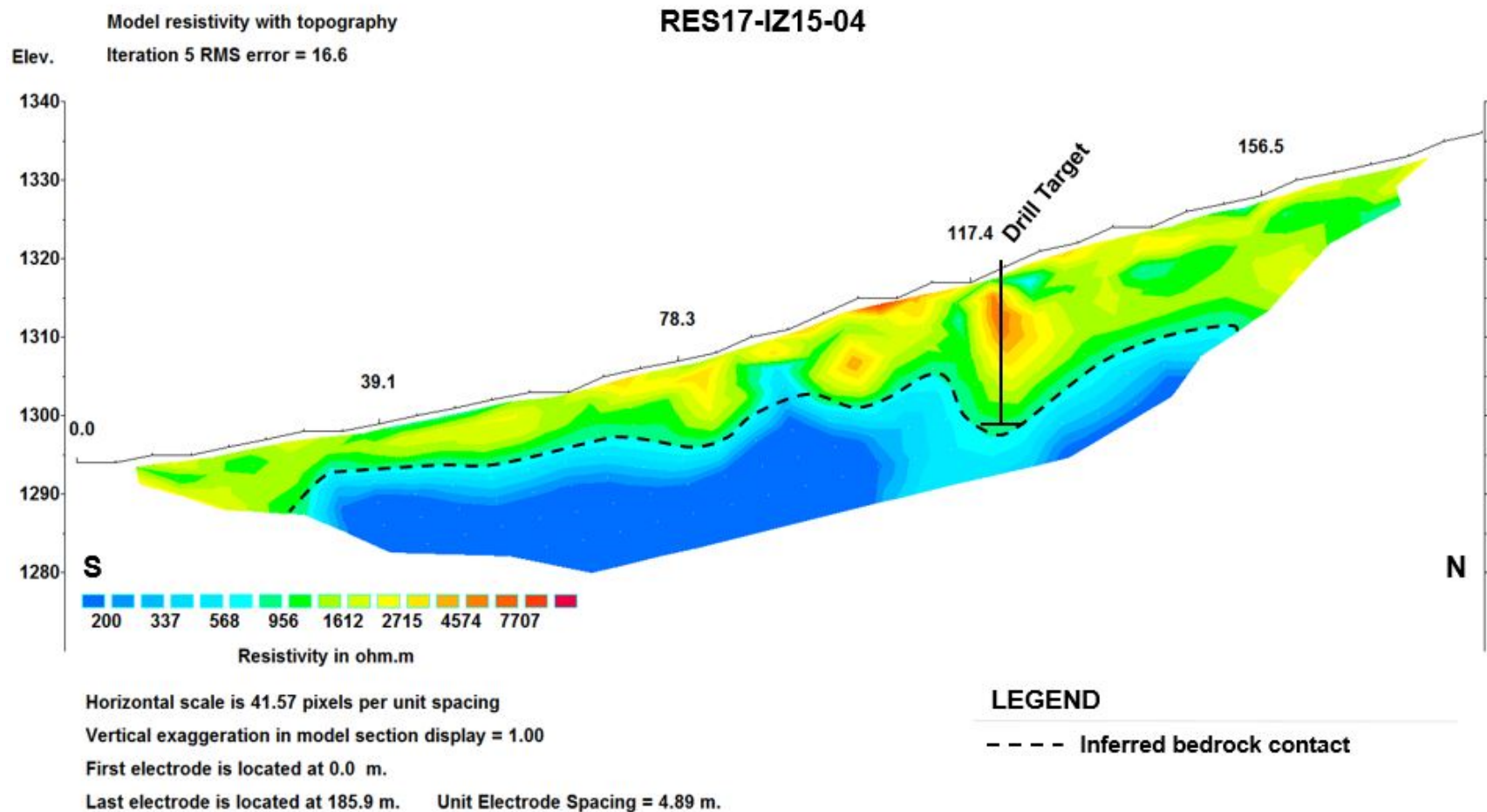


Figure 26 - RES17-IZ15-04 has an undulating bedrock contact interpreted with a deep anomaly and possible drill target located around 120m along the survey line.

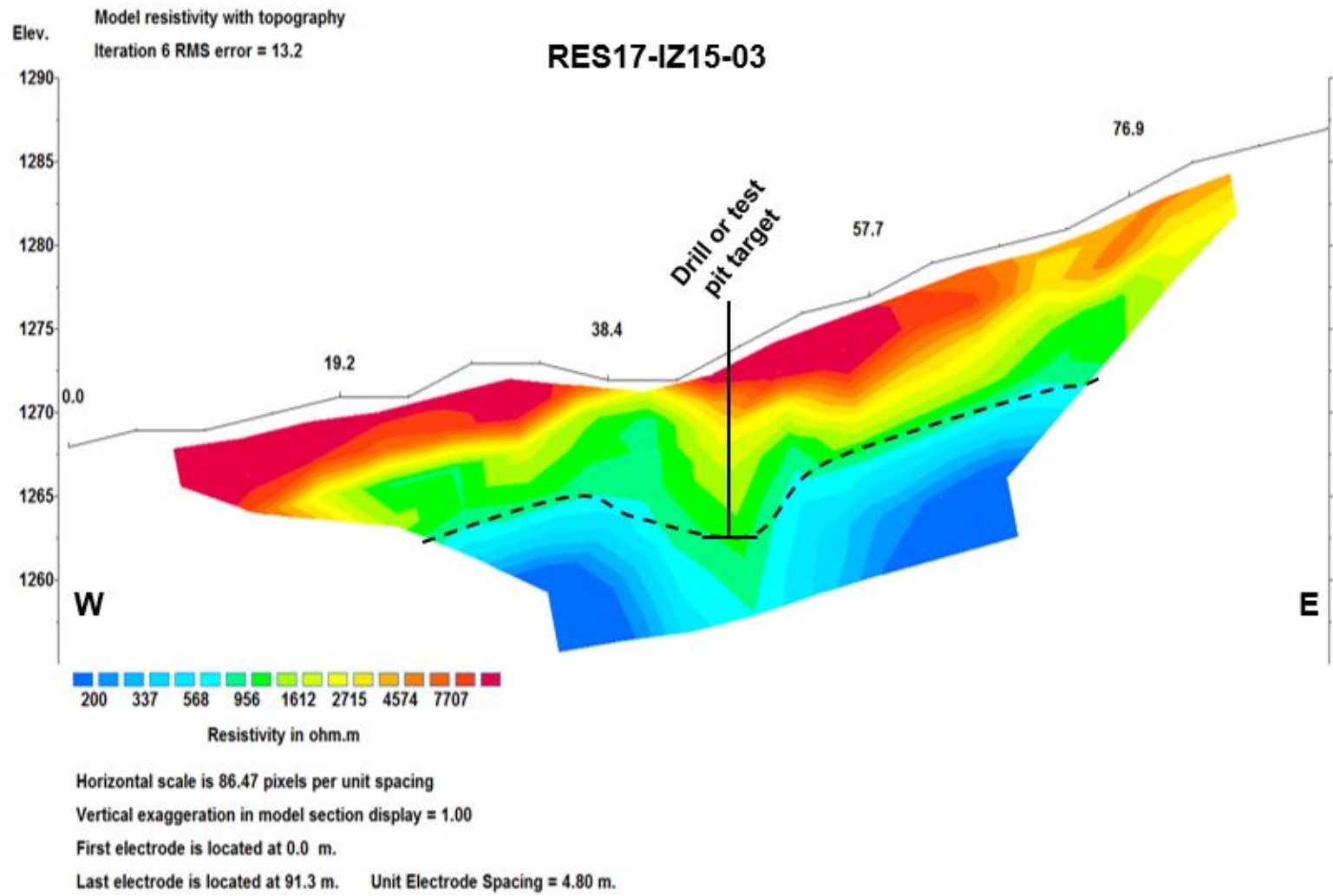


Figure 27 - RES17-IZ15-03 was oriented perpendicular to the main valley and the bedrock contact is interpreted as slightly undulating with a deep section located in the middle of the pseudosection. A test pit or drilling target is proposed.

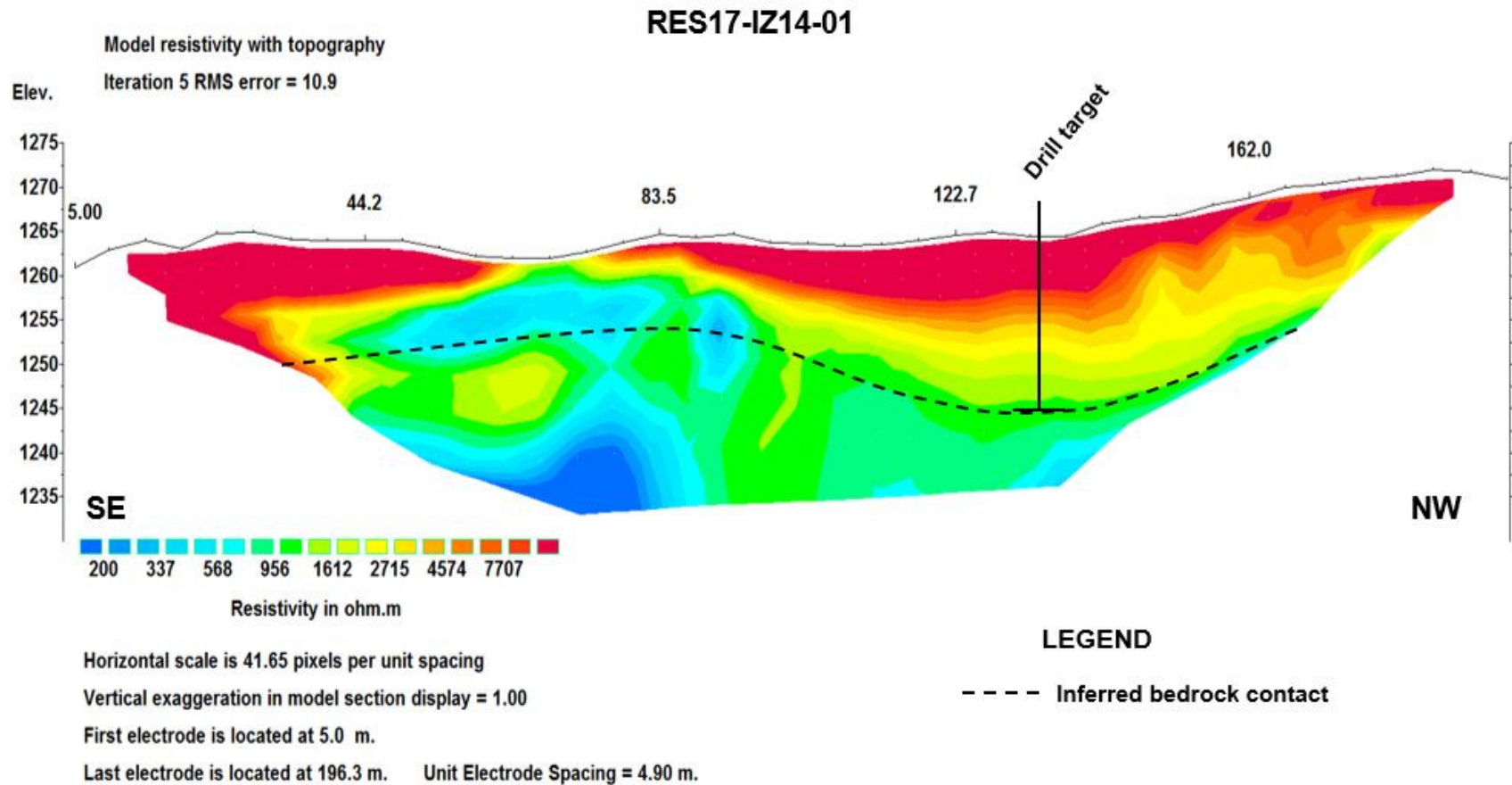


Figure 28 - RES17IZ14-01 is located upstream of RES17-IZ14-05, and is roughly parallel to it and to line RES17-JM16-01 on the upstream James moraines. Areas of high resistivity at the surface can be attributed to permafrost as well as large boulders at the ground surface. Areas adjacent to the small creek running through the section have been thawed, and therefore are shown by areas of low resistivity. A drill target has been identified in within the pseudosection in an area of an apparent bedrock depression.



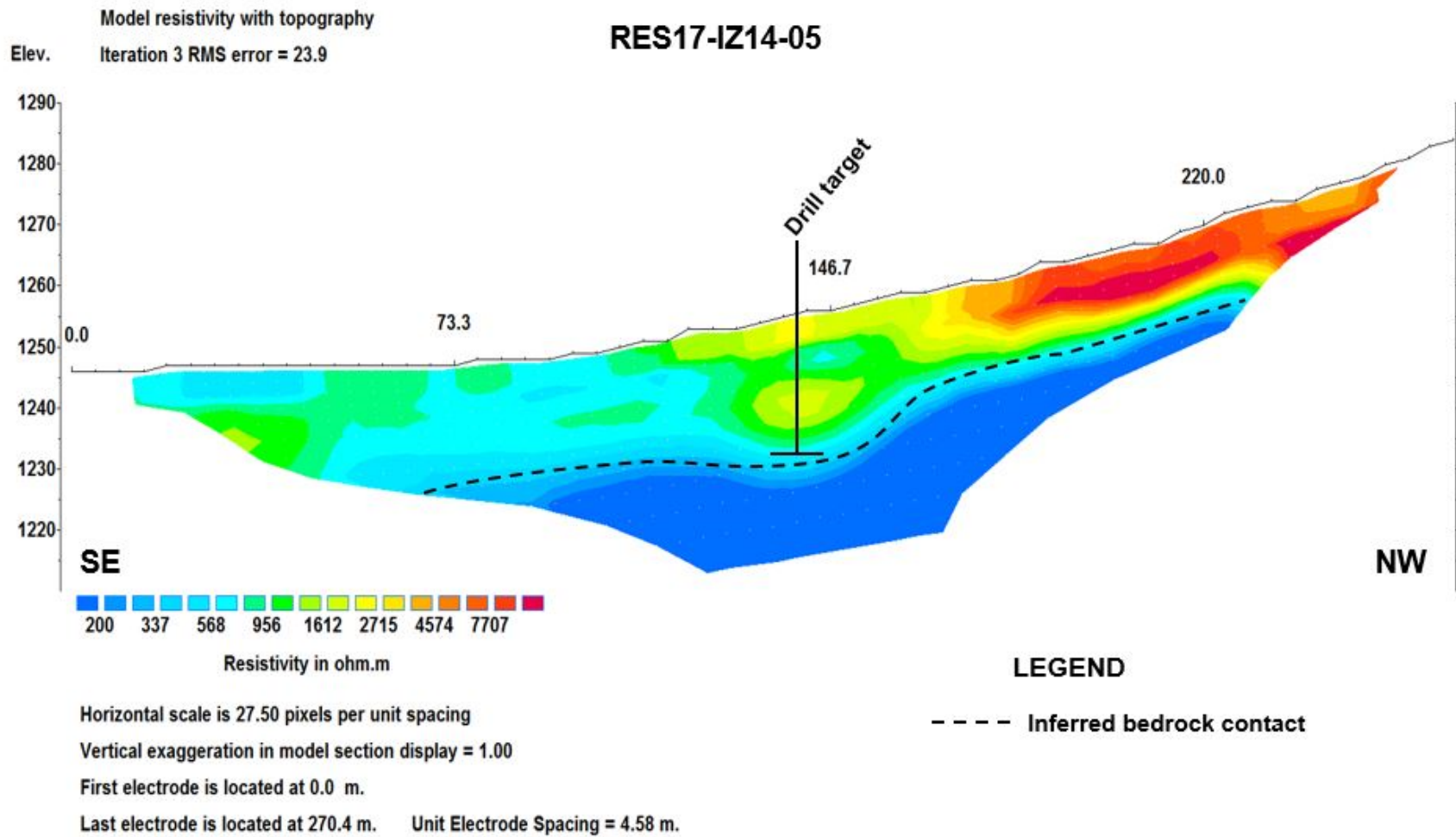


Figure 29 - RES17-IZ14-05 was surveyed downstream and parallel to RES17-IZ14-01. A drill target is proposed in an apparent bedrock depression.

### *Lindsay Claims*

The Lindsay claims tributary on upper Duncan Creek follows the trace of a mapped thrust fault, which is the contact between the Keno Hill quartzite to the east and the Hyland Group phyllite to the west. Resistivity lines were targeted to cross this contact as a potential gold-bearing structure.

Resistivity line RES17LN4-01 was surveyed across this potential structure, as well as resistivity line RES17IZ16-01 downstream. These are shown in Figure 30.

Both profiles appear to show a depression in the profile, which could represent a bedrock depression corresponding to a fault. This is a target for further placer gold exploration and bedrock depth calibration.

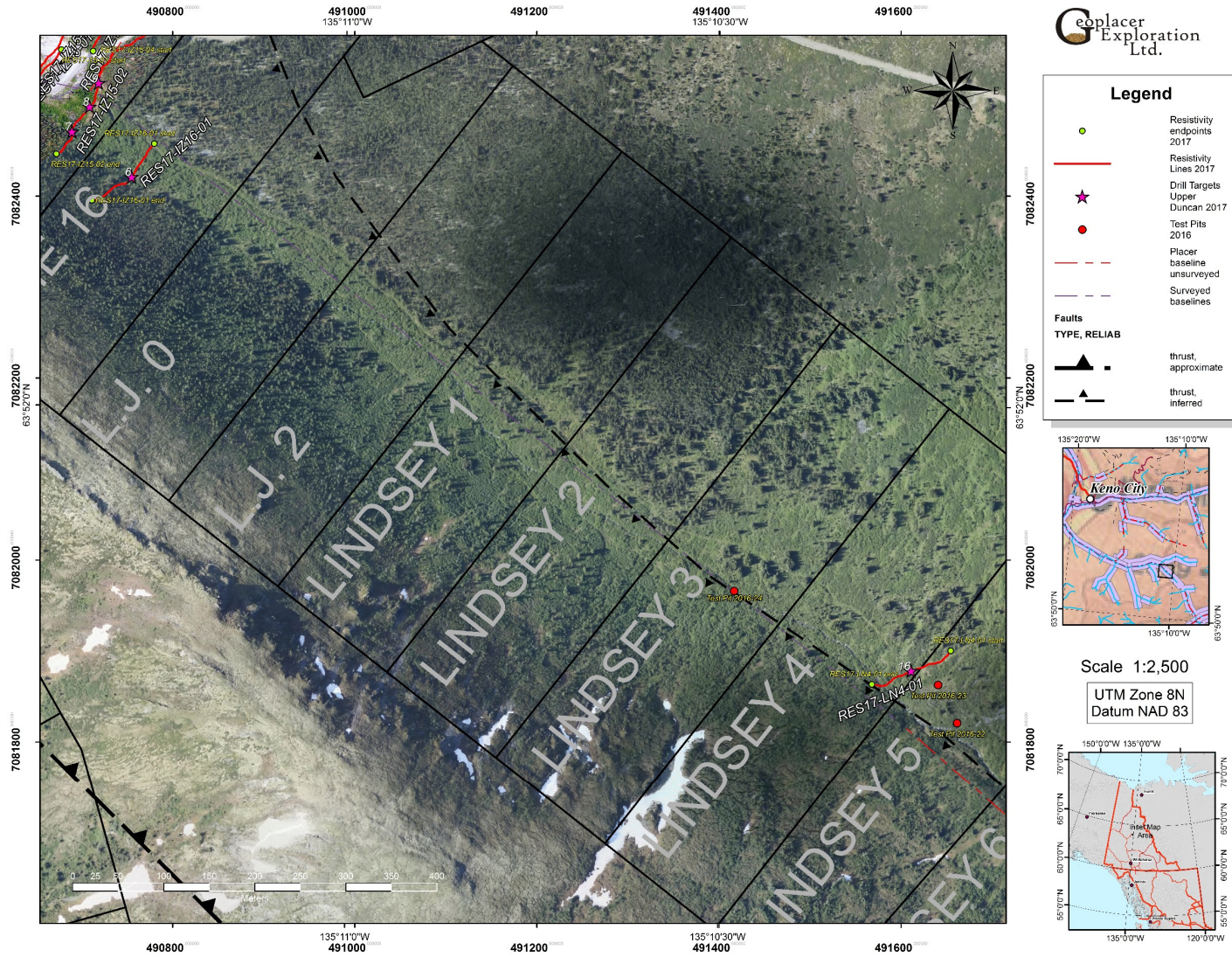


Figure 30 – Map showing 2017 resistivity lines on the Lindsey claims, with local bedrock faults and potential drill targets.



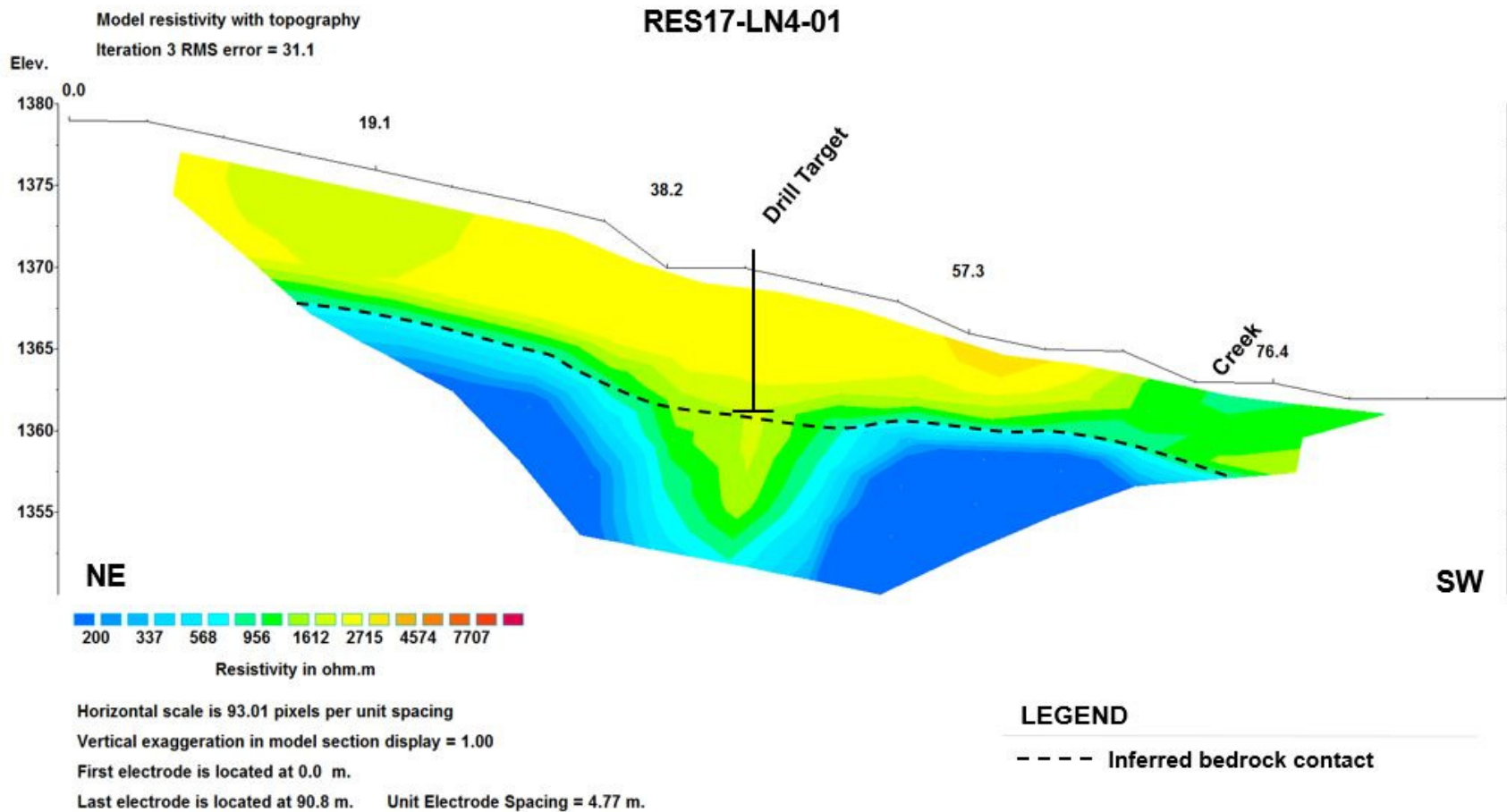


Figure 31 - RES17-LN4-01 is located upstream of the IZZIE pit. This survey appears to have a depression in the centre that is a candidate for further drill testing to confirm bedrock depths and test gold values in the Lindsay claims.



### *Gray Claims*

The Gray claims tributary originates in a steep cirque, and is a relatively narrow valley. A glacial moraine, which has been mapped as McConnell age (Bond, 1998), forms much of the landscape in the lower reaches of the valley where it joins the main Upper Duncan valley. Bedrock includes both Keno Hill quartzite and Hyland Group phyllite, and two major thrust fault contacts transect this tributary (Roots, 1997a, 1997b). These contacts have a high potential to be mineralized and thus the Gray claims tributary is highly prospective for placer gold.

A total of six resistivity surveys were conducted in the Gray Claims area, including the mouth. These are shown on Figure 32.

Although there is evidence of small hand pits and old sluiceboxes, there are no known historic or recent excavator test pits or drill holes. Profiles RES17-GRAY1-01 and RES17-GRAY2-01 both transect the moraine in its mid-reaches, while RES17-IZ12-01, RES17-IZ12-02 and RES17-IZ8-02 cross the moraine at its farthest downstream extent. Profile RES17-IZ8-01 crosses the main upper Duncan valley downstream of the termination of the moraine.

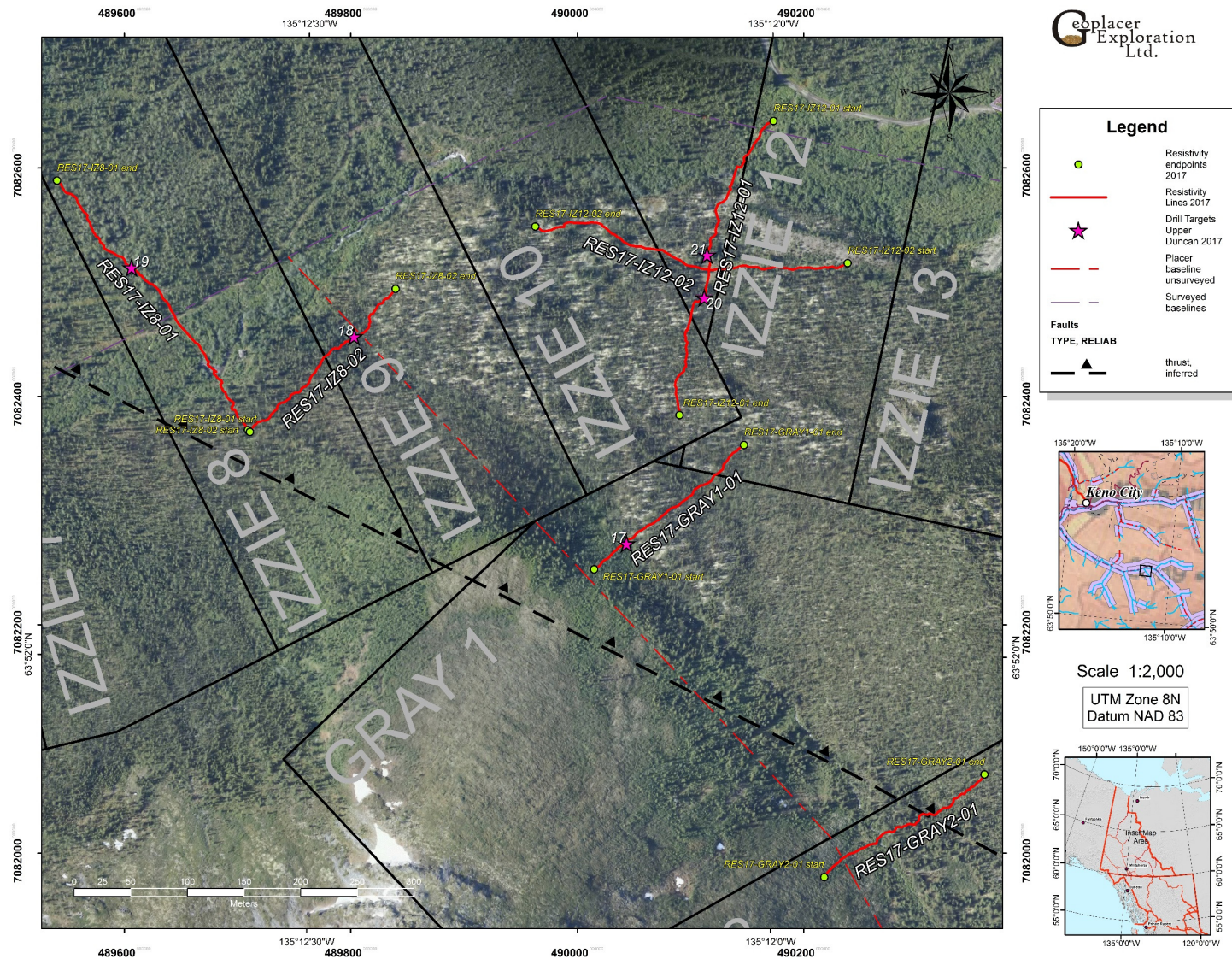


Figure 32 – Map showing the left limit tributary with the Gray claims and the location of 2017 resistivity lines.

# RES17-GRAY2-01

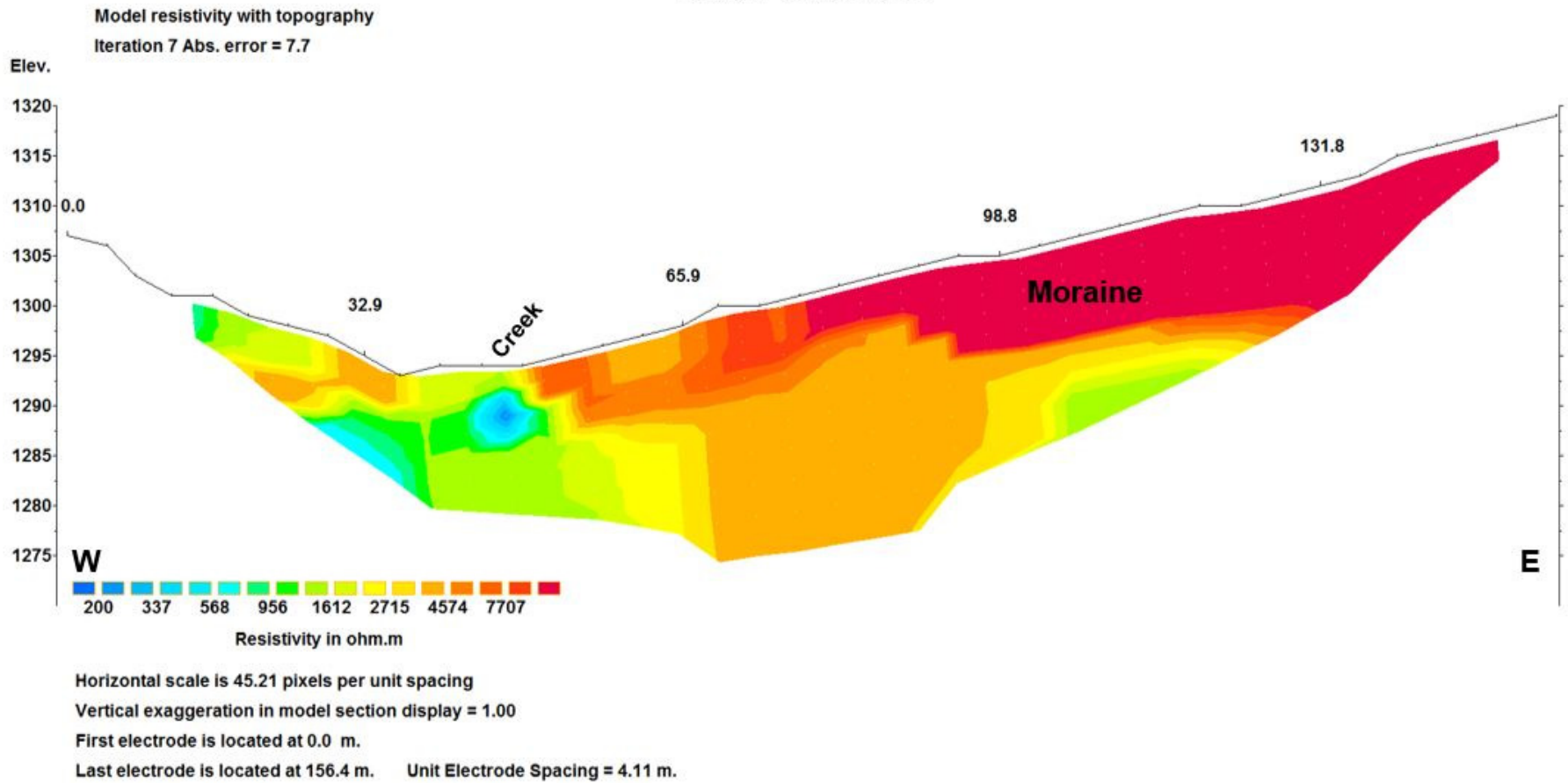


Figure 33 - RES17-GRAY2-01 was surveyed across a moraine composed of rocky glacial till, which displays high resistivity. No clear bedrock contact is evident in this section.



## RES17-GRAY1-01

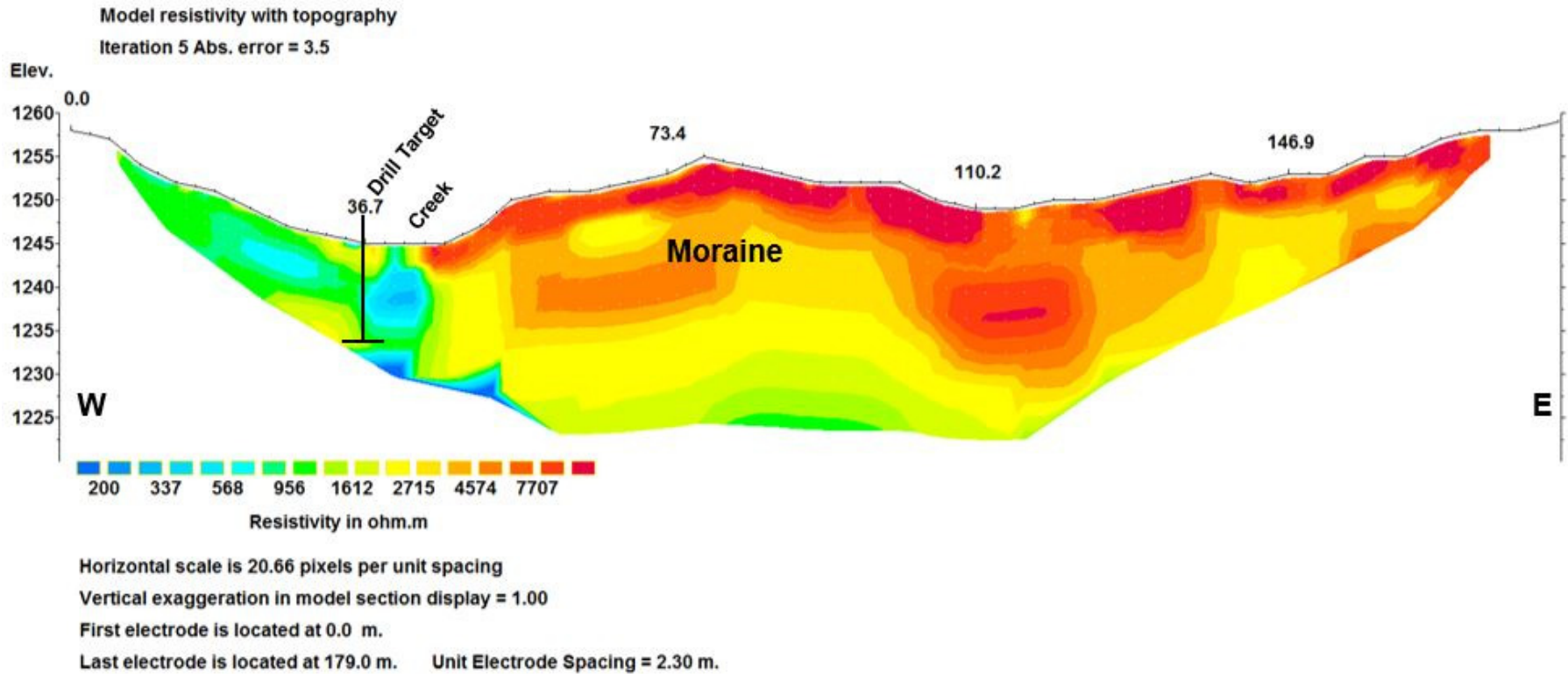


Figure 34 - RES17-GRAY1-01 was surveyed across a moraine composed of rocky till, which displays as high resistivity. A drill target is proposed to calibrate bedrock depth and test placer gold values.



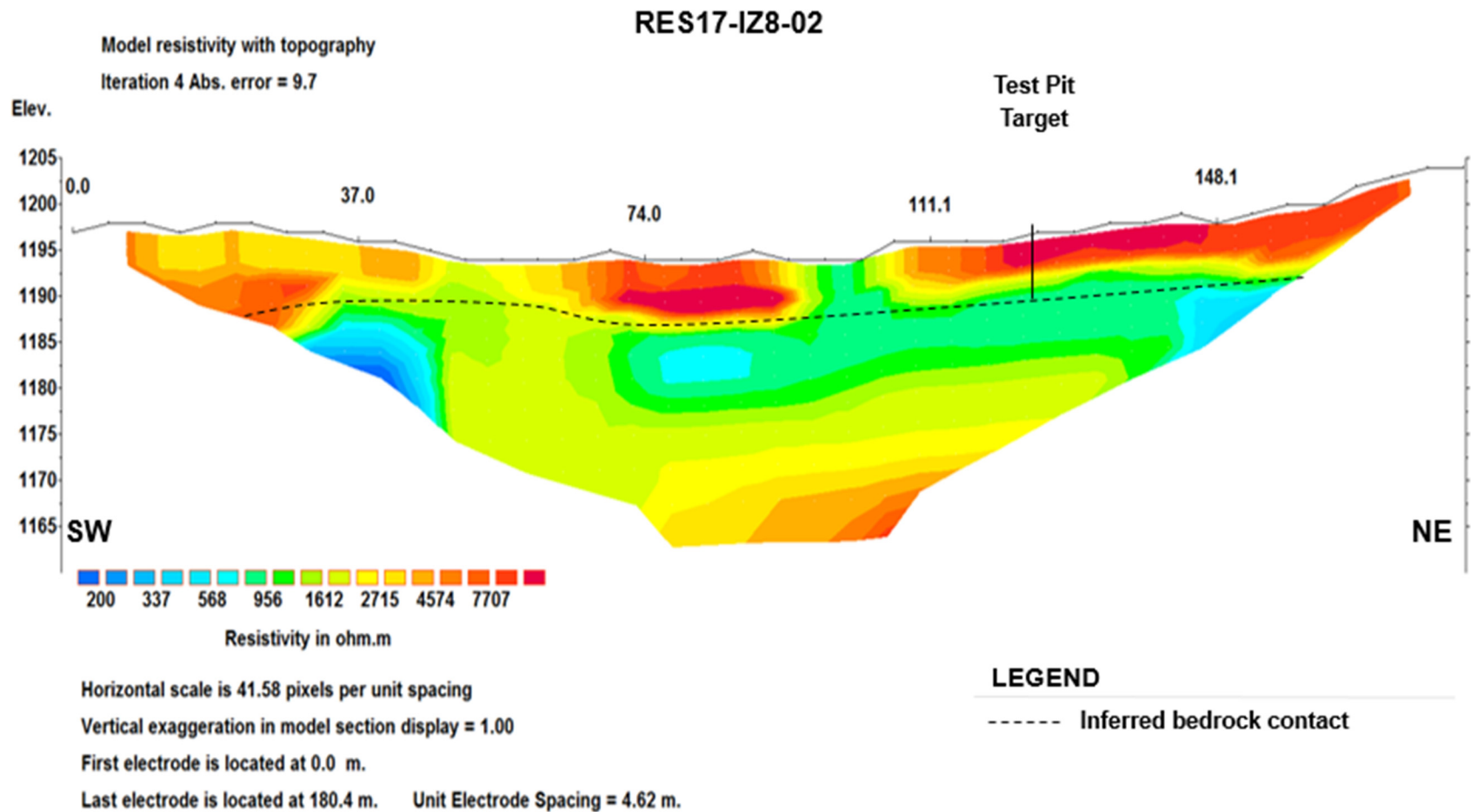


Figure 35 - RES17-IZ8-02 is oriented perpendicular to the creek of Gray tributary and is located in the area of confluence with the creek in the Izzie claims. The section shows a relatively flat bedrock contact, but a target has been identified on the survey line to calibrate bedrock depth. Discovering the depth in the area will allow for calibration in the surrounding areas.

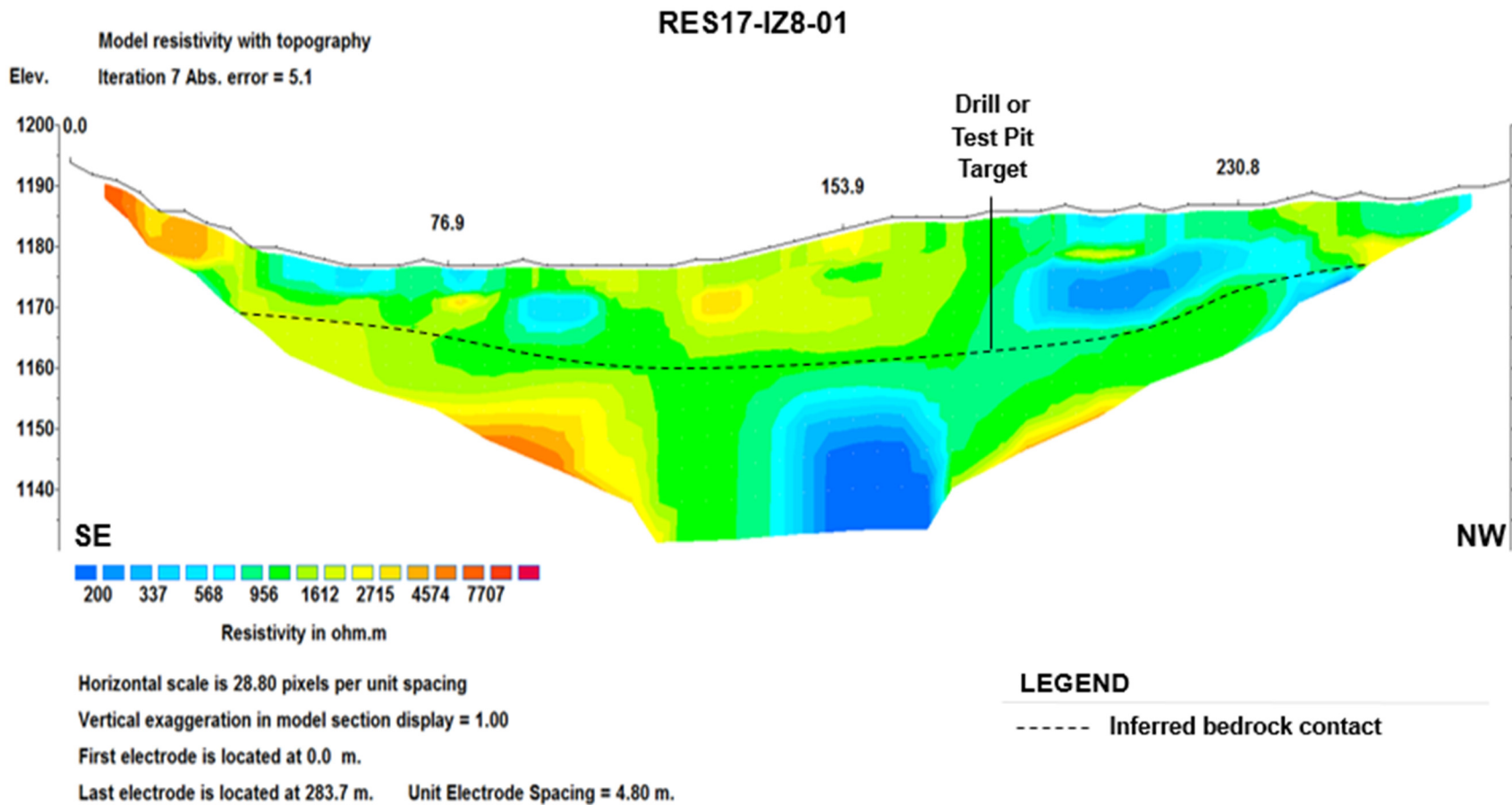


Figure 36 - RES17-IZ8-01 is oriented across the Upper Duncan valley just downstream of the confluence with the Gray claims tributary. The section shows a relatively flat potential bedrock contact. A large area of thawed, wet ground can be seen as the light blue low resistivity zone near the surface. A target is proposed to calibrate bedrock depth and test gold values.

# RES17-IZ12-01

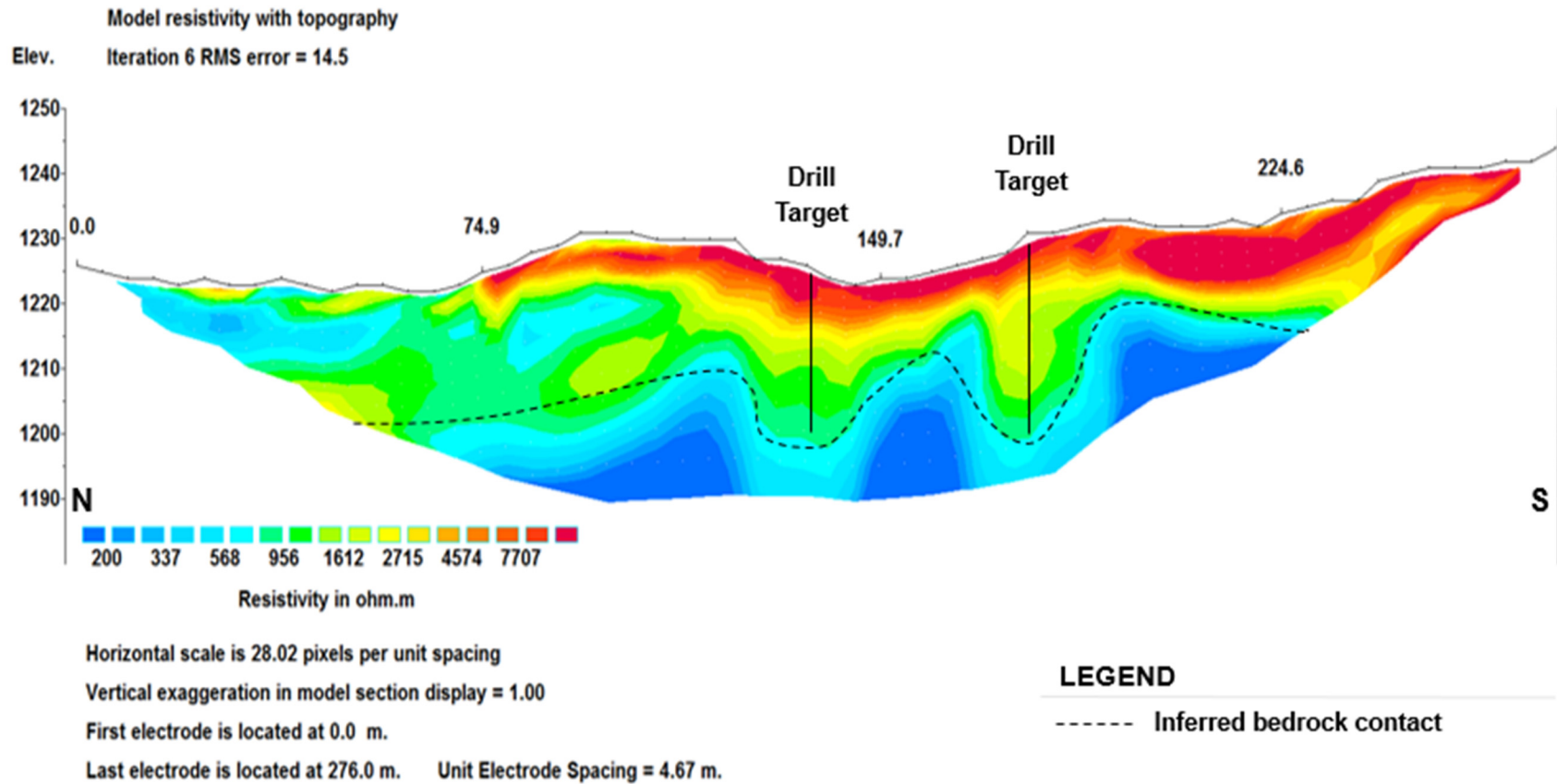


Figure 37 - RES17-IZ12-01 was surveyed across a moraine and appears to display large undulations in the bedrock contact. The large undulations are drilling targets for depth calibration and to examine possible gold values.

## RES17-IZ12-02

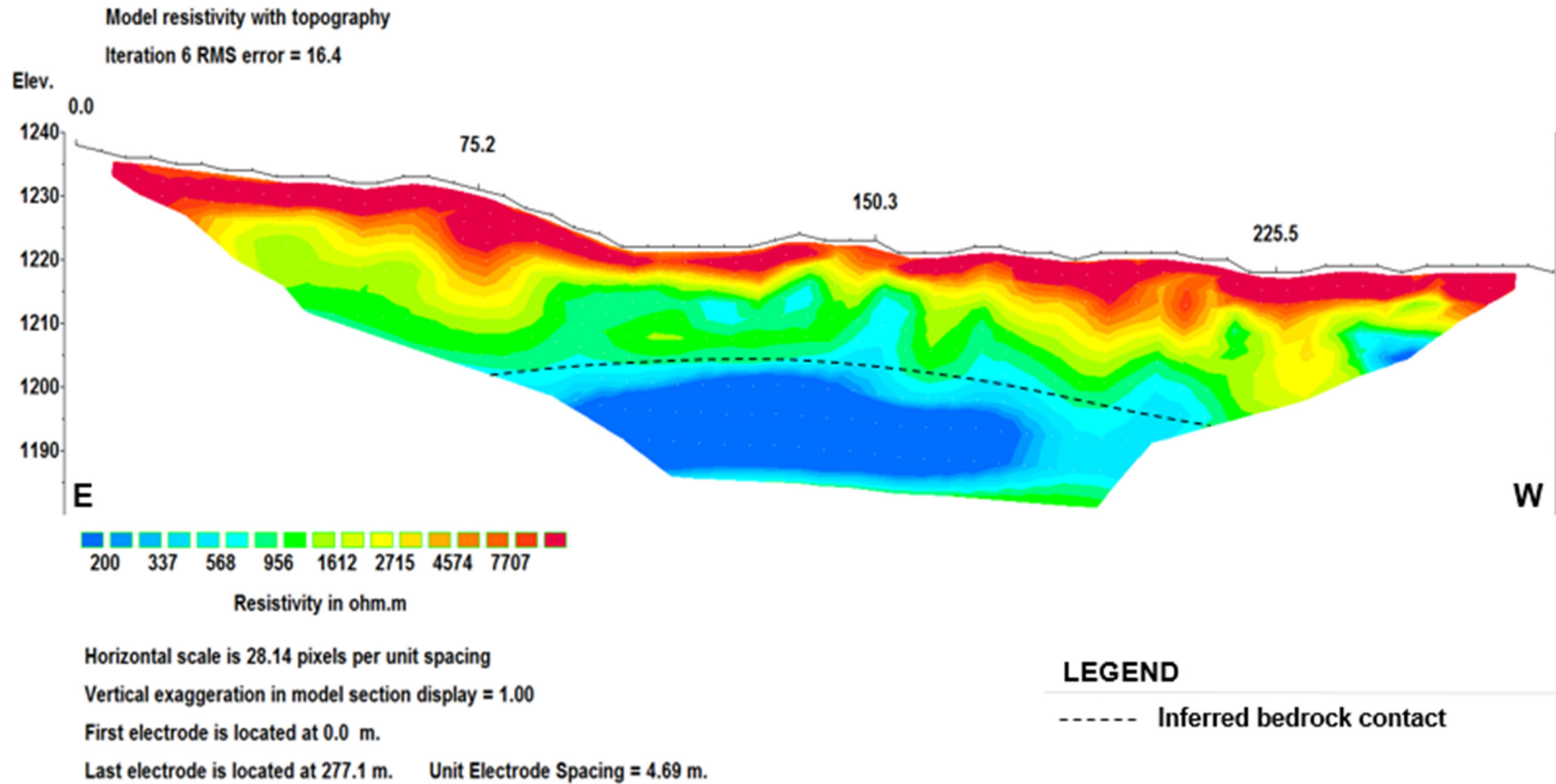


Figure 38- RES17-IZ12-02 was surveyed perpendicularly across the same terminal moraine as RES17-IZ12-01, and does not display the same undulations in the inferred bedrock contact. The lack of undulations could indicate that they primarily occur in a direction oblique to this profile.



### *Stuart Tributary (including Sam Claims at mouth)*

The Stuart claims tributary lies within the mapped extent of the Proterozoic Hyland Group (Roots 1997a, 1997b) and observed bedrock in the area mainly consists of phyllite and shale. The Stuart claims tributary lies outside of the McConnell glacial limit as mapped by Bond (1998).

Seven resistivity lines were surveyed in the Stuart claims tributary and mouth area. These are shown in Figure 39, and include RES17-ST14-01, RES17-ST13-01, RES17ST9-01, RES17ST4-01, RES17ST2-01, RES17-SM216-01 and RES17-SM217-01. Since this drainage was not glaciated during the McConnell glaciation, it has significant potential for older placer-gold bearing glacial and interglacial sediments and paleochannels. In fact, test pitting in 2016 recovered placer gold in several locations, and these pits were also used to calibrate depths to bedrock during the 2017 geophysical program.

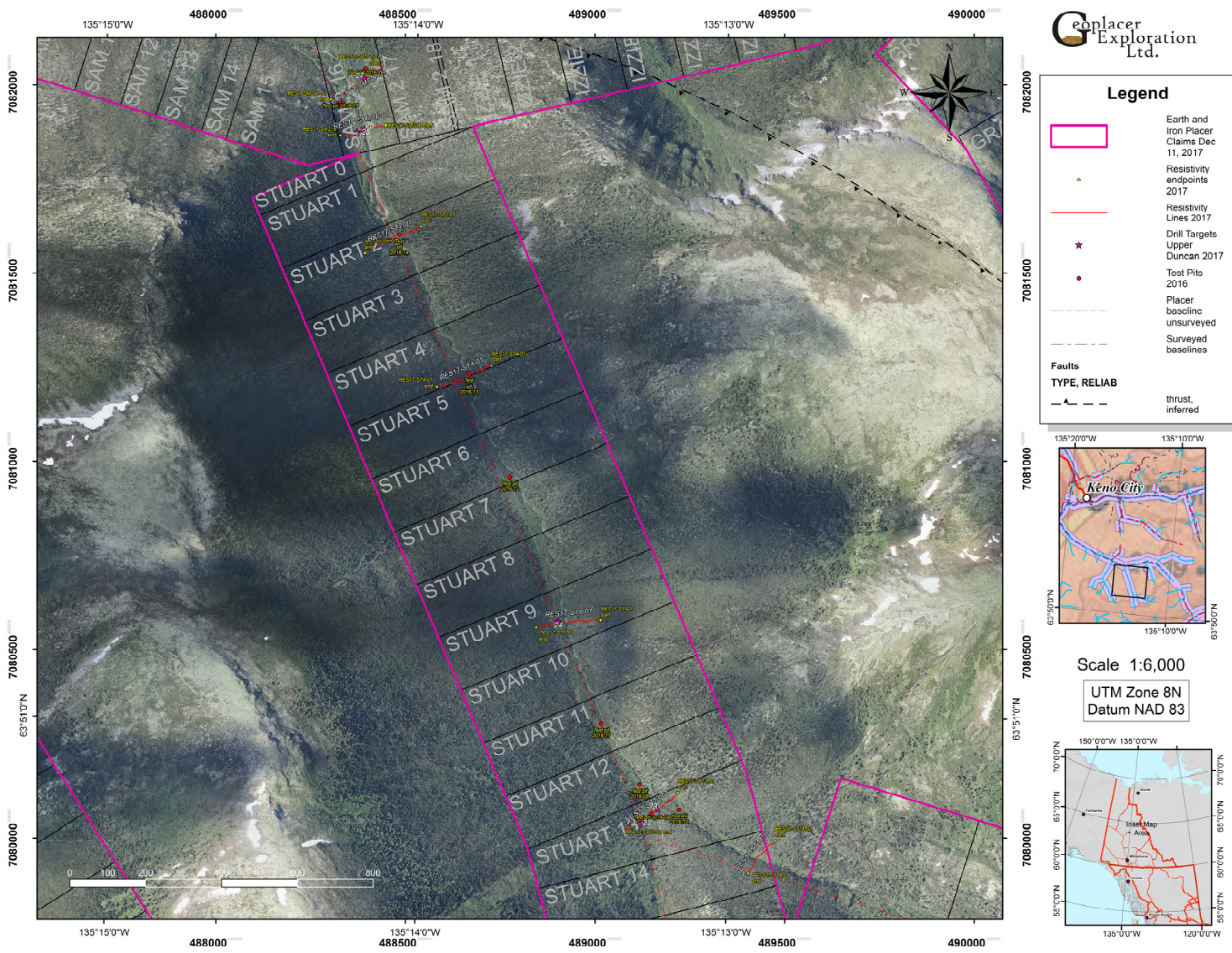


Figure 39 – Map showing 2017 resistivity surveys on the Stuart claims tributary. Also shown is the location of the 2016 test pits.

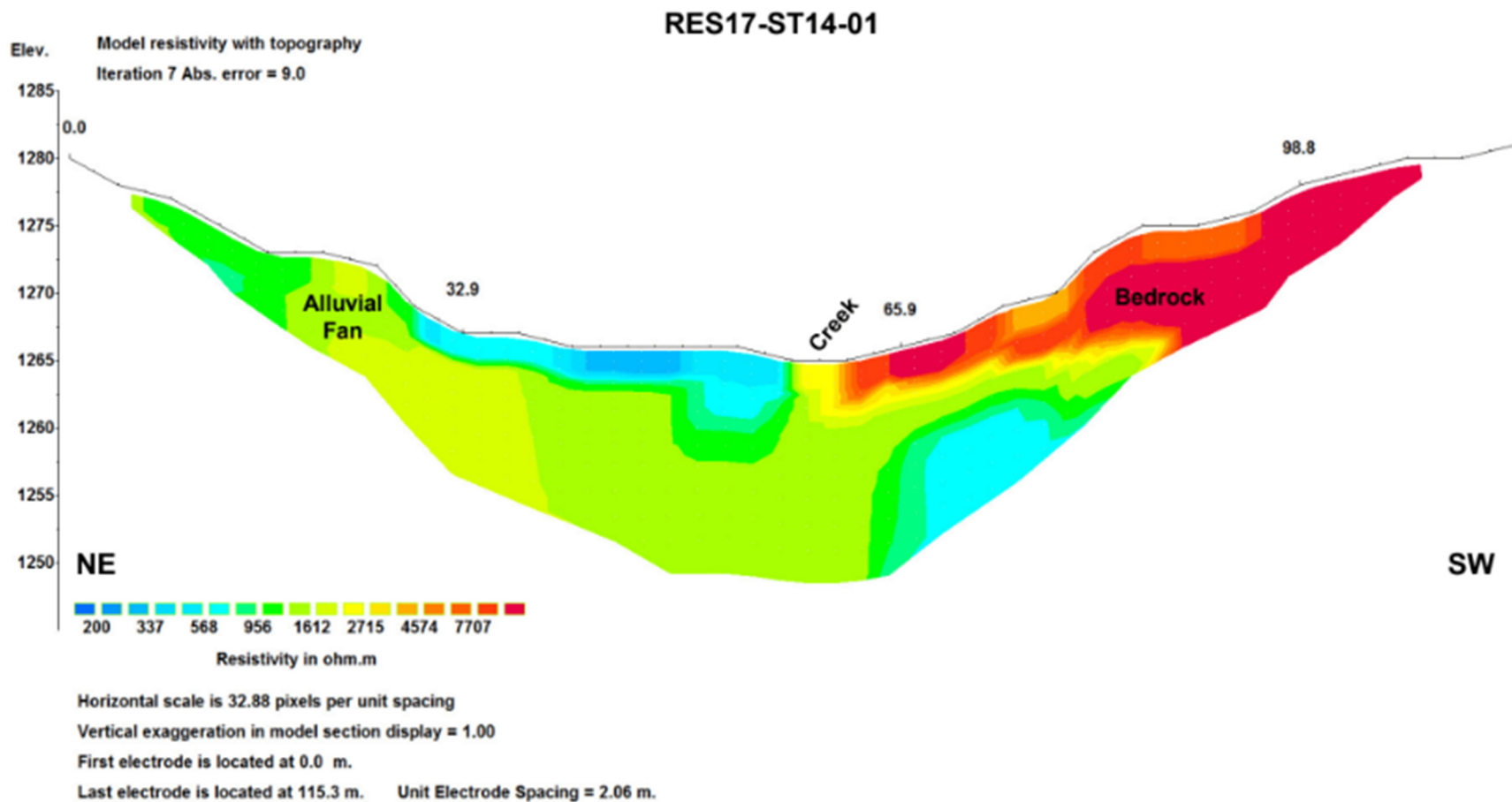


Figure 40 - RES17-ST14-01 displays bedrock/colluvium on surface as a high resistivity zone on the southwest side of the profile. Bedrock outcrop was observed in this location in the field. An alluvial fan overlies the surface on the NE side of the profile.



## RES17-ST13-01

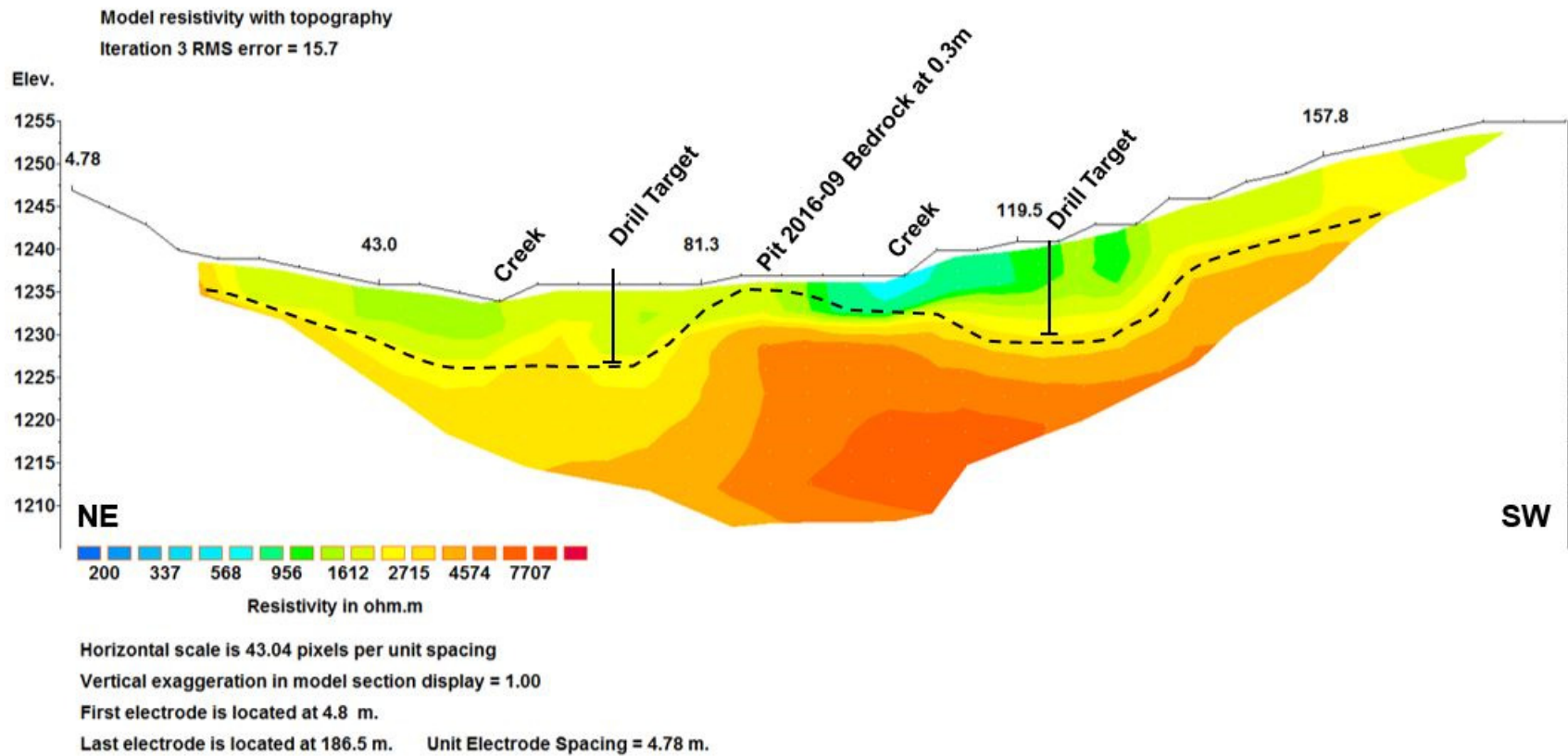


Figure 41 - RES17-ST13-01 is at the confluence of two upper valleys, and crosses an existing test pit excavated in 2016 (2016-09) which found bedrock to be only 0.3 metres below surface. However, two possible channels lie on each side of the profile, which may represent paleochannels from each respective valley.



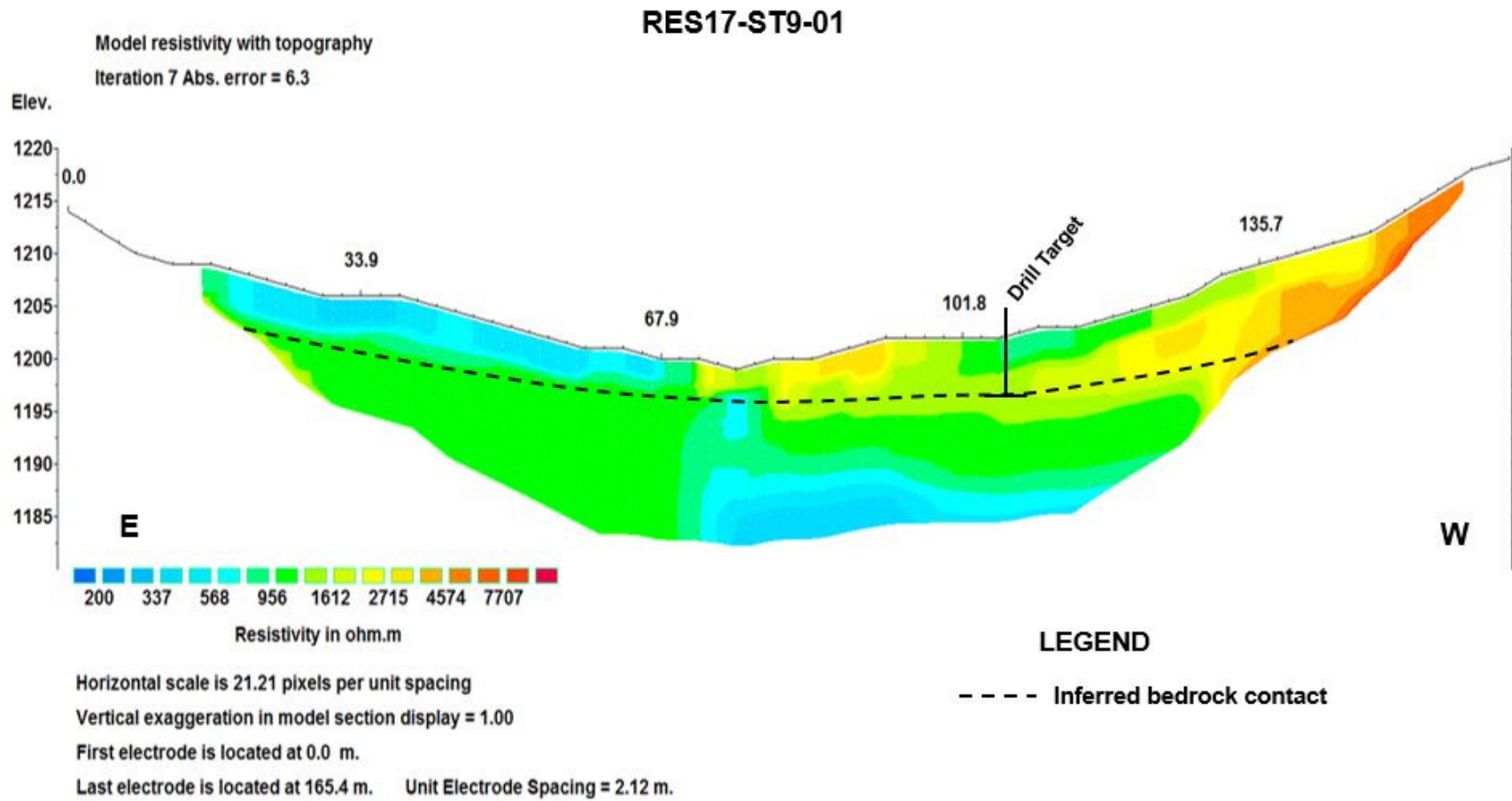


Figure 42 - RES17-ST9-01 was surveyed downstream of Test pit 2016-11, which recovered significant amounts of placer gold. A bedrock contact is inferred from downstream and upstream pits, and a proposed drill target is shown on the profile.

## RES17-ST4-01

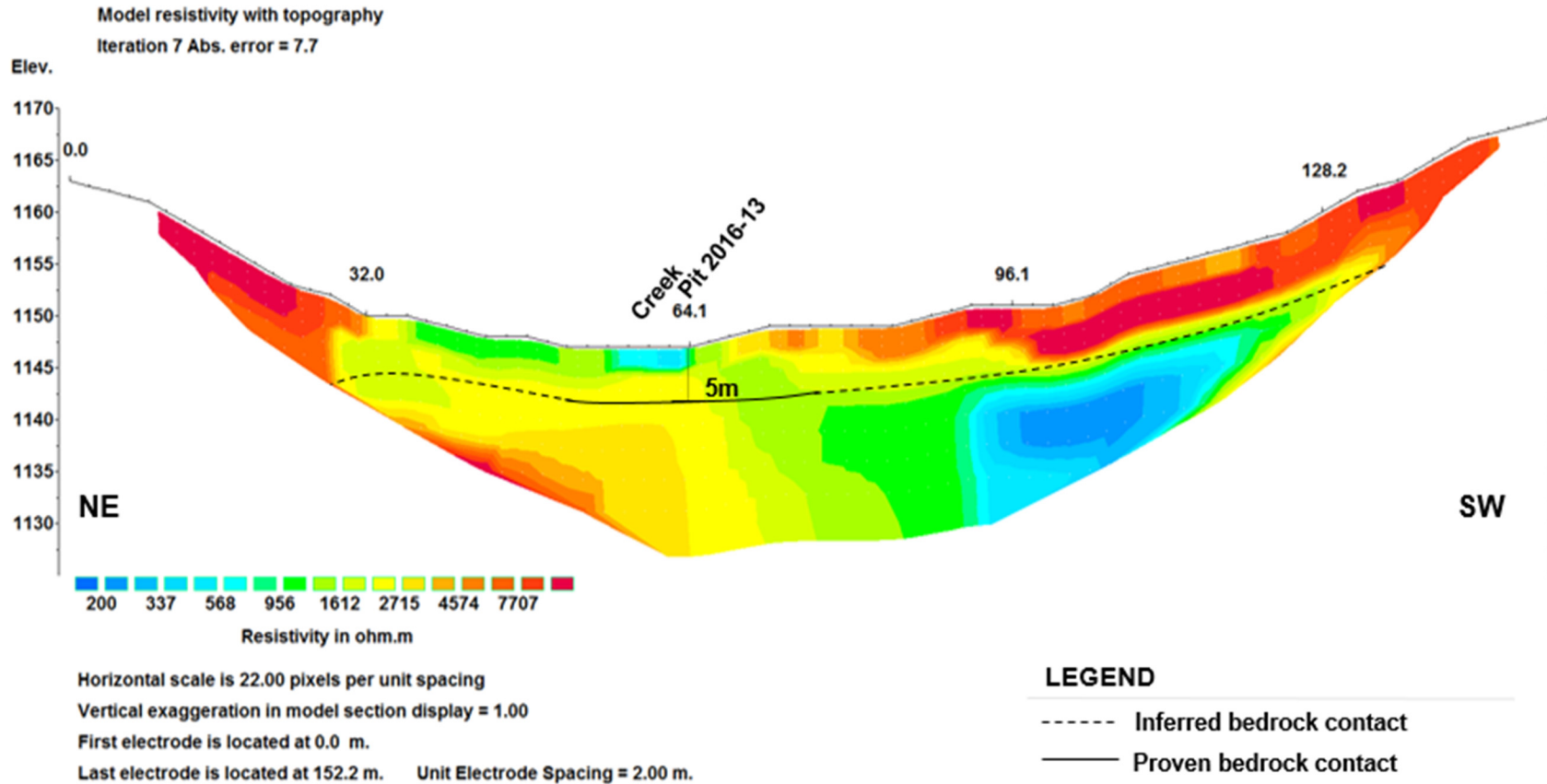


Figure 43 - RES17-ST4-01 intercepts Test Pit 2016-13, which reached bedrock at 5 metres. The bedrock contact has been interpreted as gently sloping at approximately 5 metres below the surface.

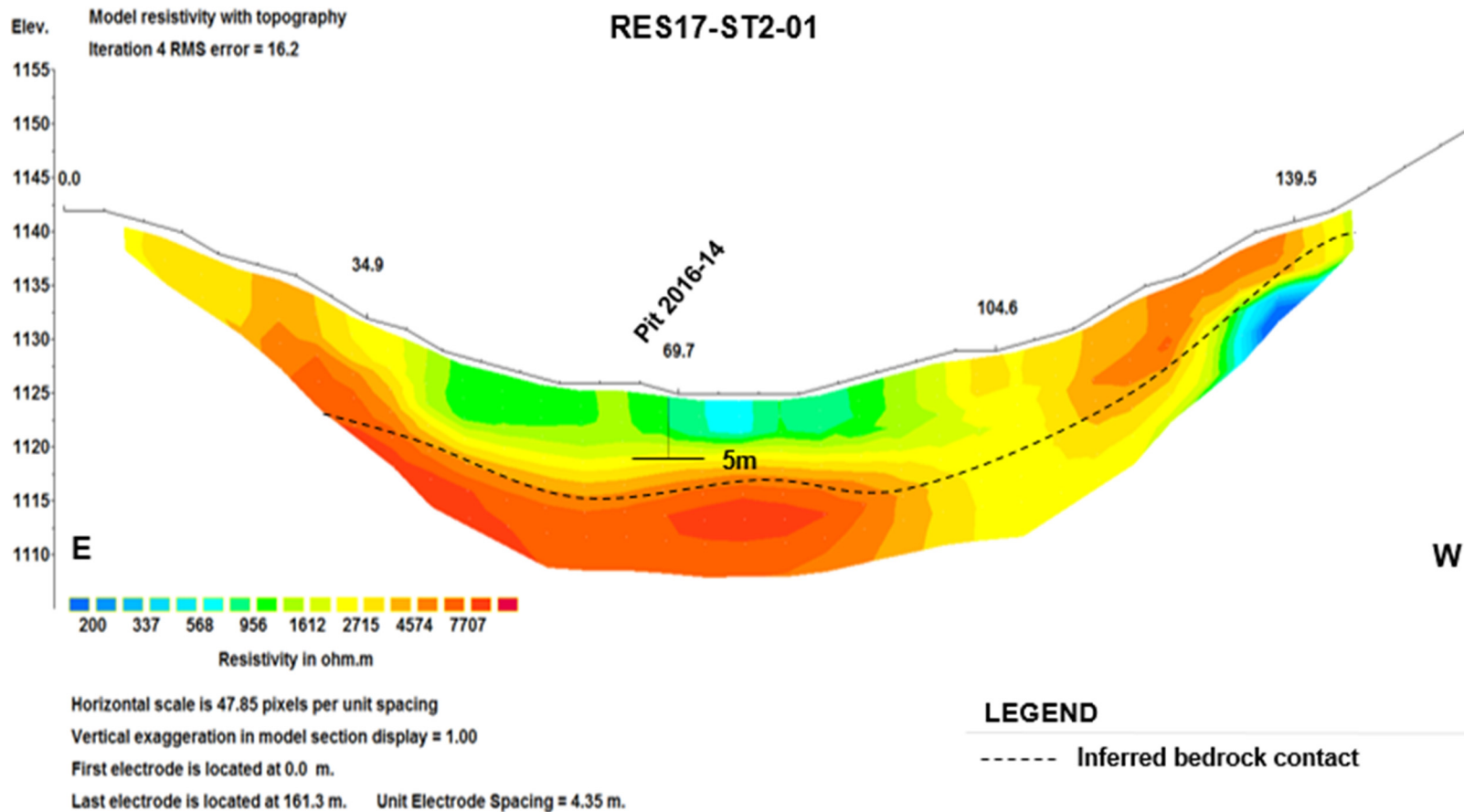


Figure 44 - RES17-ST2-01 is located in the lower Stuart tributary and intercepts Test pit 2016-14. The existing test pit did not reach bedrock, but a bedrock contact has been interpreted as just below this pit.

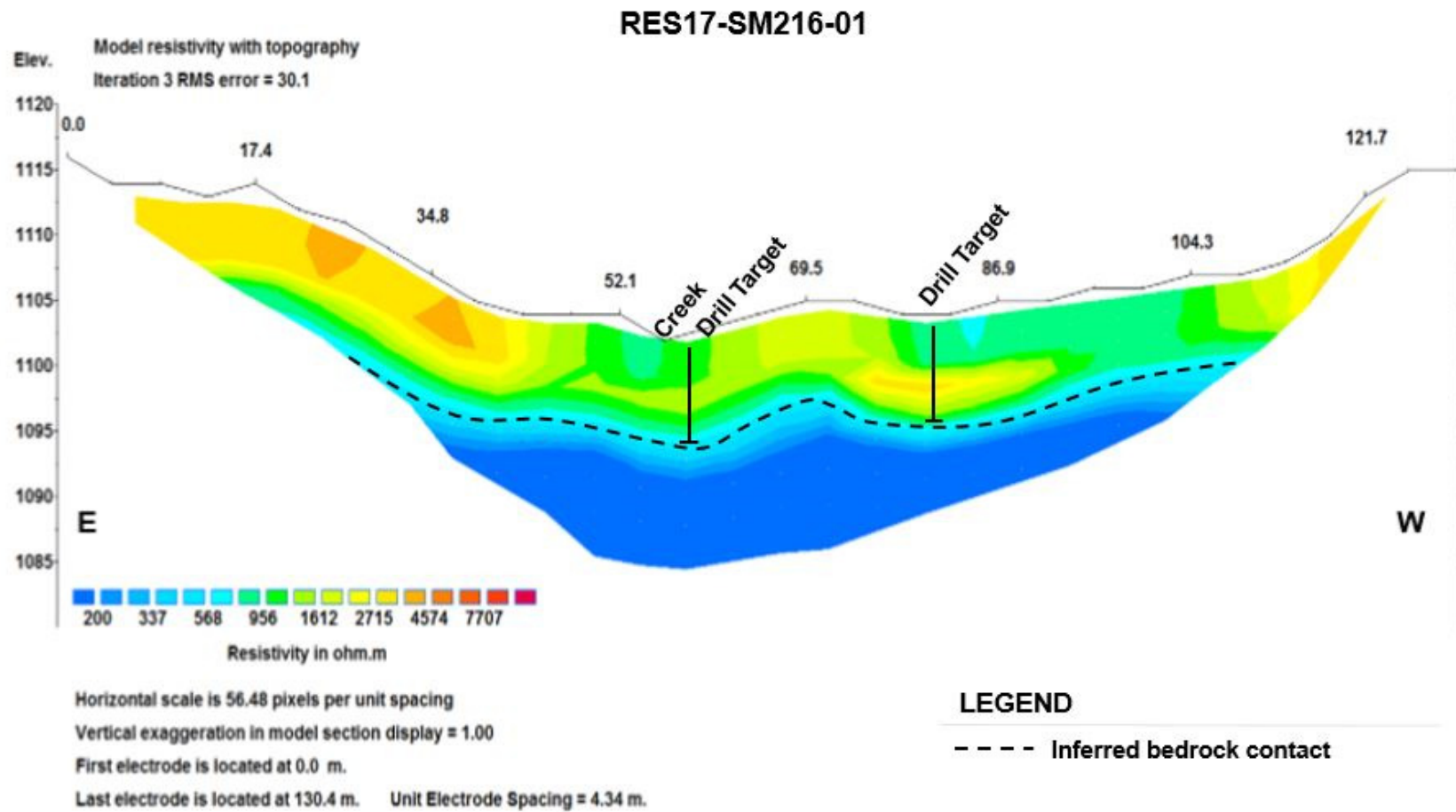


Figure 45 - RES17-SM216-01 is located upstream of RES17-SM217-01 and in the same general orientation. The pseudosection has an interpreted undulating bedrock contact with two possible paleochannels for investigation.



## RES17-SM217-01

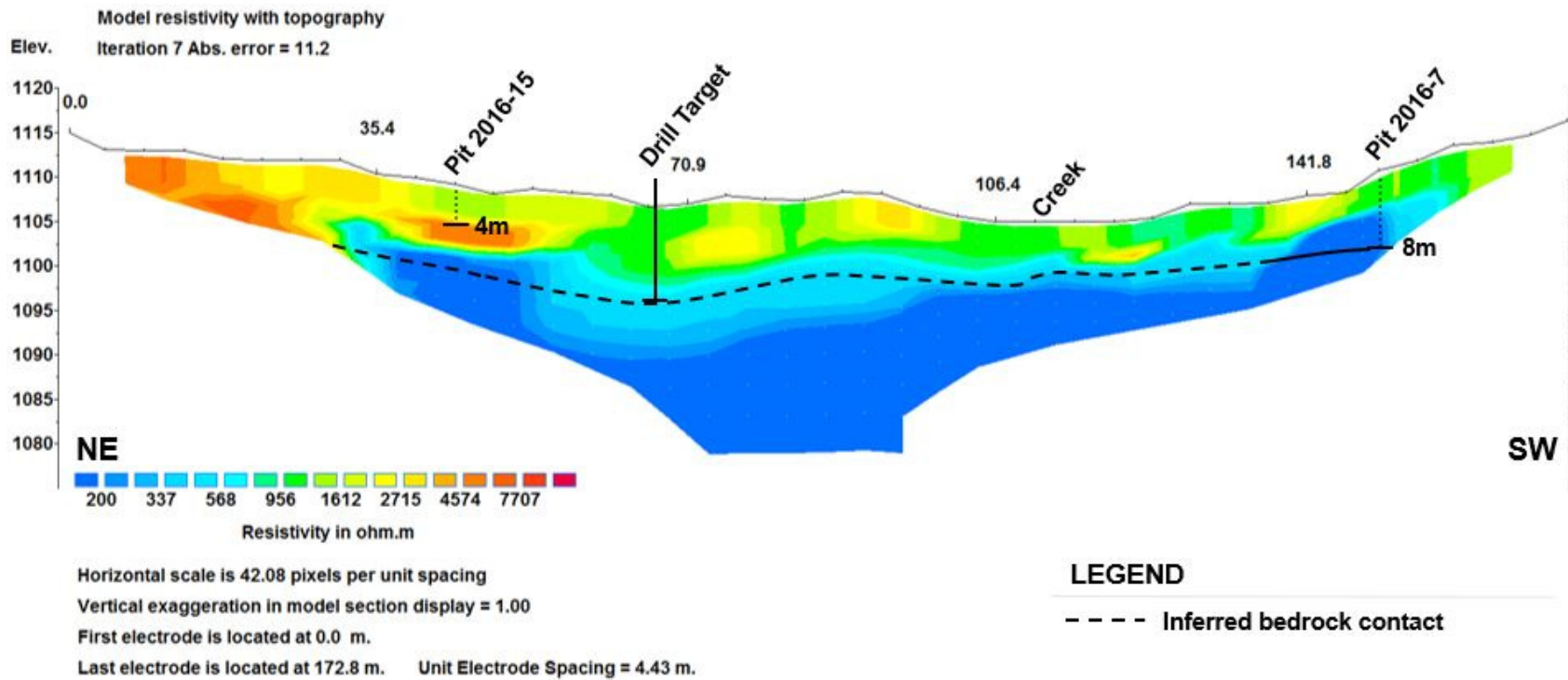


Figure 46 - RES17-SM217-01 was located perpendicular to the mouth of the Stuart claims tributary and crosses near two test pits: 2016-15 and 2016-7. Pit 2016-7 reached bedrock at 8m and pit 2016-15 did not reach bedrock, however it ended in gravel just below sand at 4 m. This may be the high resistivity zone (orange) just below the pit location in the profile. A drill target is shown in the location of the deepest interpreted bedrock.

## Excavator Test Pitting

Excavator test pitting was conducted in the Izzie and James claim areas to investigate the depth to bedrock based on resistivity profiles. The depths were used to calibrate the images and to predict bedrock profiles within the pseudosections. In addition, a large test pit was excavated on the IZZIE 14 placer claim and several resistivity profiles were located through and adjacent to the pit.

## IZZIE Test Pit

Figure 47 is a compilation diagram showing the excavator test pit on placer claim IZZIE 14. Overlain on this figure are resistivity profile RES17-IZ14-02 and a stratigraphic section which describes the sedimentology of the units overlying the pit on the north side. Profile RES17-IZ14-02 is also shown in a previous section of this report as Figure 21.

The stratigraphy is described as follows:

Bedrock consisting of Hyland Group schist, overlain by 4 metres of subrounded to subangular, boulder cobble gravel (Unit 1), a thin layer (1 metre) of clay-altered yellow pebble cobble diamict (Unit 2), 5 metres of silty, massive to crudely-stratified boulder cobble diamict (Unit 3), followed by 4 metres of blocky, matrix-poor angular boulder cobble diamict (Unit 4) and finally 8 metres of black, silty, boulder cobble diamict (Unit 5).

Units 1 and 2 may be an older glacial till, possibly Reid age, which is remnant and preserved in the bedrock depression in the centre of the test pit and evident in resistivity profile RES17-IZ14-02. Unit 3 is either proximal glaciofluvial outwash gravel (McConnell age) or glacial till (McConnell age). Units 4 and 5 are McConnell age glacial till, which forms most of the landform above the test pit due east towards the upper cirques at Mt. Hinton.

Several bulk samples were processed at the IZZIE pit. Angular grains of gold were recovered but values were deemed uneconomic (S. Gray, pers. comm.). However, the pit was located at the mouth of the Lindsay tributary, and any placer gold values would originate only from that drainage to the south. Any placer gold values originating from the James claims tributary (to the east) would not have been intersected in the IZZIE pit, and therefore this area remains a prospective placer exploration target.



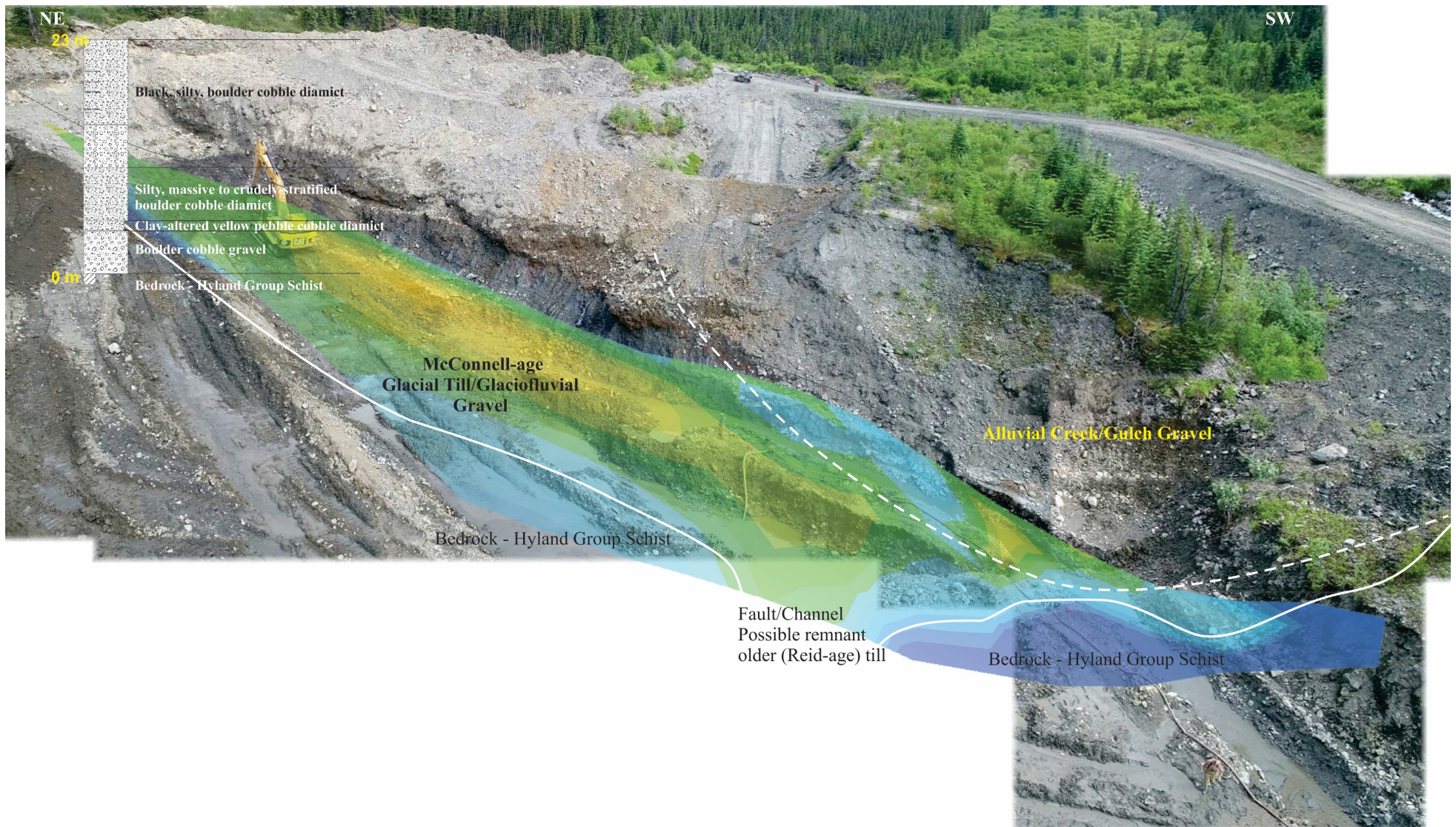


Figure 47 – View looking east of IZZIE test pit, showing interpreted contacts, stratigraphy and resistivity profile RES17-IZ14-02. The resistivity profile is reversed from the original surveyed direction to match the orientation of this view of the pit. A bedrock bench is discernable on the right side of the profile.

## Discussion

The resistivity surveys were successful in identifying contrasting zones of high, moderate and low resistivity, which were attributable in varying degrees to permafrost, alluvial gravel, glacial till and bedrock units. Limited test pitting assisted in the bedrock profile interpretations. The resistivity geophysical surveys were also able to define contacts including potential paleochannels that were traceable from one profile to the next, up and down-valley. This was especially evident in the area of the IZZIE pit on claim IZZIE 14, where bedrock was exposed and was used to calibrate the bedrock contacts in adjacent and overlapping resistivity surveys. Discontinuous permafrost and variable groundwater saturation complicated interpretation of the geophysical results.

Several drill and test pit targets were chosen in each area for further exploration. These are to examine potential interpreted paleochannels and to calibrate bedrock contacts, as well as to evaluate placer gold values. The geographic coordinates of these exploration targets are shown in Table 6. The targets are shown on Figure 48 as well as plotted on the maps accompanying each target area.



Table 6 - Coordinates, resistivity line numbers and claim location of drill targets, Upper Duncan Creek.

Target Number	Number on maps	Resistivity Line	Claim Location	Latitude DD	Longitude DD	UTM_N	UTM_E	Zone
2017-01	1	RES17-JM11-01	James 11	63.876917	-135.161734	7083309	492054	8
2017-02	2	RES17-JM11-01	James 11	63.877284	-135.162219	7083350	492031	8
2017-03	3	RES17-JM14-01	James 14	63.875229	-135.173343	7083122	491484	8
2017-04	4	RES17-JM15-01	James 15	63.875259	-135.176694	7083126	491319	8
2017-05	5	RES17-JM16-01	James 16	63.874084	-135.178634	7082995	491223	8
2017-06	6	RES17-IZ16-01	Izzie 16	63.868919	-135.188131	7082421	490755	8
2017-07	7	RES17-IZ15-02	Izzie 15	63.869364	-135.189467	7082471	490690	8
2017-08	8	RES17-IZ15-02	Izzie 15	63.869611	-135.189073	7082498	490709	8
2017-09	9	RES17-IZ15-02	Izzie 15	63.869844	-135.188875	7082524	490719	8
2017-10	10	RES17-IZ13-01	Izzie 14	63.871053	-135.193852	7082660	490475	8
2017-11	11	RES17-IZ13-01	Izzie 14	63.871772	-135.193382	7082740	490498	8
2017-12	12	RES17-IZ15-04	Izzie 15	63.871097	-135.18806	7082664	490759	8
2017-13	13	RES17-IZ14-01	Izzie 14	63.872008	-135.192424	7082766	490545	8
2017-14	14	RES17-IZ15-03	Izzie 15	63.870679	-135.188265	7082617	490749	8
2017-15	15	RES17-IZ14-05	Izzie 13	63.871867	-135.194286	7082751	490454	8
2017-16	16	RES17-LN4-01	Lindsey 4	63.864069	-135.170685	7081878	491611	8
2017-17	17	RES17-GRAY1-01	Gray 1	63.867552	-135.2026	7082271	490044	8
2017-18	18	RES17-IZ8-02	Izzie 8	63.869173	-135.207509	7082452	489803	8
2017-19	19	RES17-IZ8-01	Izzie 8	63.869708	-135.211513	7082513	489606	8
2017-20	20	RES17-IZ12-01	Izzie 11	63.869487	-135.201215	7082486	490112	8
2017-21	21	RES17-IZ12-01	Izzie 11	63.869822	-135.201169	7082524	490115	8
2017-22	22	RES17-ST13-01	Stuart 13	63.847576	-135.221148	7080048	489124	8
2017-23	23	RES17-ST13-01	Stuart 13	63.847812	-135.220312	7080074	489166	8
2017-24	24	RES17-ST9-01	Stuart 9	63.852278	-135.22569	7080573	488903	8
2017-25	25	RES17-SM216-01	Sam 2_16	63.864026	-135.236172	7081884	488392	8
2017-26	26	RES17-SM216-01	Sam 2_16	63.863947	-135.236568	7081875	488373	8
2017-27	27	RES17-SM217-01	Sam 2_16	63.865215	-135.236185	7082016	488392	8

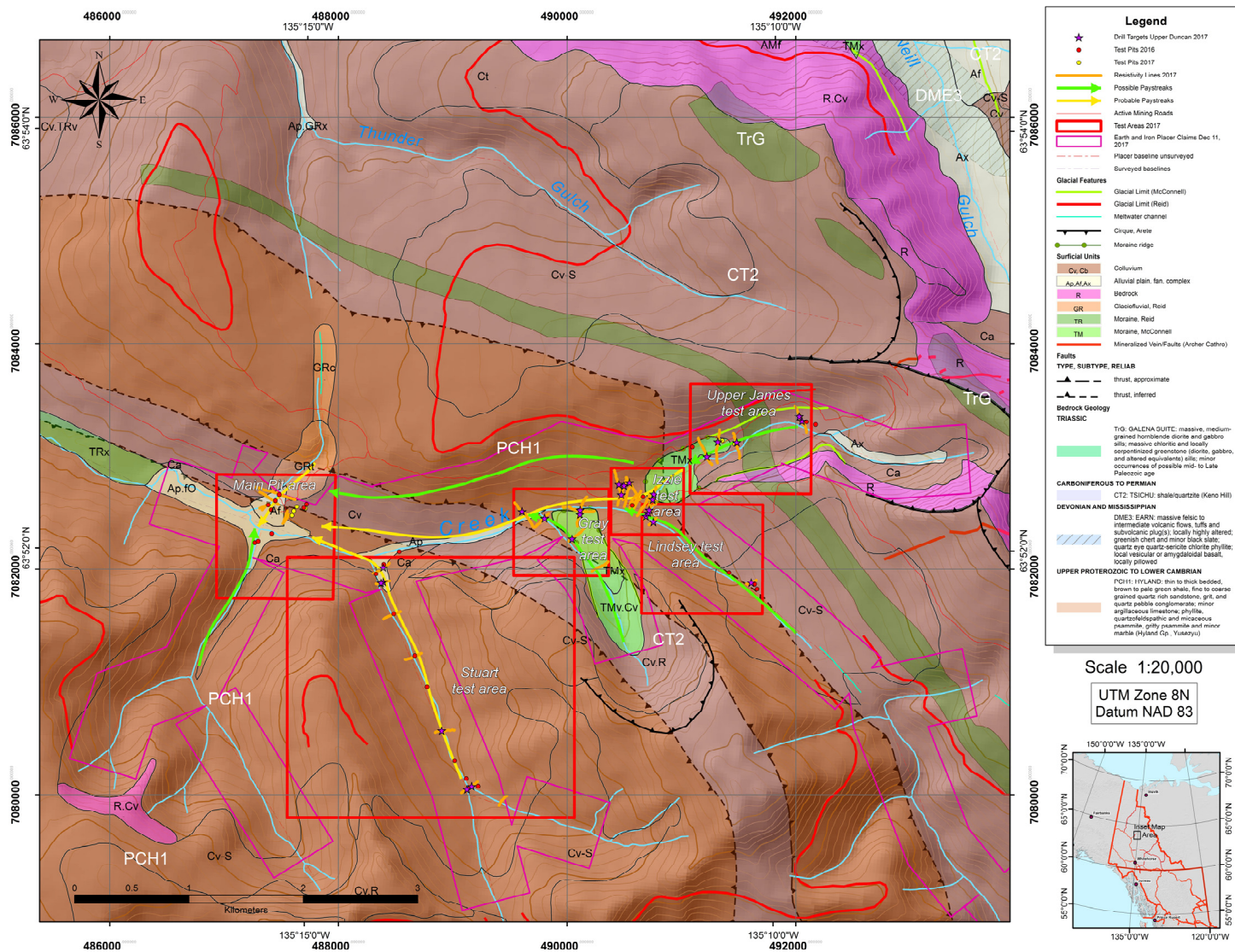


Figure 48 - Compilation geology map of the Upper Duncan Creek area, showing probably and possible paystreaks, 2017 resistivity lines and placer exploration targets proposed for further evaluation.

## Conclusions and Recommendations

Resistivity geophysical surveys are an effective, extremely low-impact method of placer exploration which is highly portable, fast and relatively cost-effective. Bedrock depths and potential thicknesses of overburden materials are often discernable, however, the methodology may reflect permafrost and groundwater conditions which do not directly correlate to lithological contacts. In this respect, results are dramatically improved if other data such as drill holes, test pits or bedrock outcrops are used to corroborate interpreted results.

Throughout the surveys, low resistivity values often corresponded with thawed, water-saturated sediments in valley bottoms (including matrix-rich gravel), while high resistivity values corresponded with either permafrost zones near the ground surface, rocky till or colluvium near the surface, boulder zones and associated areas with poor contact resistance, or frozen sandy gravel bodies in the subsurface. Many of the interpreted bedrock zones (including those confirmed by test pits) also displayed lower resistivity values in the deeper parts of several profiles.

A follow-up program of drilling and test-pitting is recommended. Shallower targets may be evaluated using excavator test-pits, while deeper targets should be drilled using either a RAB (rotary air-blast) drill or R/C (reverse circulation) drill. Materials obtained should be carefully sampled for placer gold content, and bedrock depths and lithological contacts as confirmed by drilling should be used to recalibrate the 2017 resistivity profile interpretations wherever possible.

## Statement of Costs - 2017 Exploration Program

Table 7 – Statement of Costs, 2017 Exploration Program, Upper Duncan Creek

2017 Placer Exploration Program	Rate	Amount	Subtotal	GST	Total
Caterpillar 320 excavator	\$180/hr	48	\$8,640.00	\$432.00	\$9,072.00
Caterpillar D10N bulldozer	\$495/hr	120	\$59,400.00	\$2,970.00	\$62,370.00
Caterpillar 365 excavator	\$425/hr	120	\$51,000.00	\$2,550.00	\$53,550.00
Caterpillar 740 rock truck	\$280/hr	70	\$19,600.00	\$980.00	\$20,580.00
Caterpillar 740 rock truck	\$280/hr	70	\$19,600.00	\$980.00	\$20,580.00
Resistivity geophysical surveys – industry rate	\$5500/line km	6.405	\$35,227.50	\$1761.38	\$36,988.88
Geoplacer Exploration Ltd.- Geological mapping, targeting and supervision of geophysical program	\$500/day	20	\$10,000.00	\$500.00	\$10,500.00
Geoplacer Exploration Ltd. – Final Report	\$500/day	6	\$3000	\$150.00	\$3,150.00
<b>Grand Total</b>			\$206,467.50	\$10,323.38	\$216,790.88



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## Statements of Qualifications

### William LeBarge

I, William LeBarge, of 13 Tigereye Crescent, Whitehorse, Yukon, Canada, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist with current address at 13 Tigereye Crescent, Whitehorse, Yukon, Canada, Y1A 6G6.
2. I am a graduate of the University of Alberta (B.Sc., 1985, Geology) and the University of Calgary (M.Sc., 1993, Geology – Sedimentology)
3. I am a Practicing Member in Good Standing (#37932) of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).
4. I have practiced my Profession as a Geologist continuously since 1985.

Dated this 27<sup>th</sup> day of December, 2017

William LeBarge, P. Geo.



### Selena Magel

I, Selena Magel of 2590 Golf View Crescent, Blind Bay, British Columbia, Canada, DO HEREBY CERTIFY THAT:

1. I am a Geologist in Training with current address at 2590 Golf View Crescent, Blind Bay, British Columbia, Canada, V1E 1H2
2. I am a graduate of the University of Calgary (B.Sc., 2017, Geology).
3. I have practiced Geology since May 2017.
4. I have conducted and interpreted over 20km of resistivity lines in the summer of 2017.

Dated this 27<sup>th</sup> day of December, 2017

Selena Magel



## Appendix 1 – Placer Claim and Prospecting Lease Status, Earth & Iron Inc. and affiliates.

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524010	Pending	Dean 1	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524011	Pending	Dean 2	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524012	Pending	Dean 3	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524013	Pending	Dean 4	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524014	Pending	Dean 5	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524015	Pending	Dean 6	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524016	Pending	Dean 7	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524017	Pending	Dean 8	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524018	Pending	Dean 9	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524019	Pending	Dean 10	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524020	Pending	Dean 11	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524021	Pending	Dean 12	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524022	Pending	Dean 13	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524023	Pending	Dean 14	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	7/24/2018	Mayo
P 524024	Pending	Dean 15	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524025	Pending	Dean 16	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524026	Pending	Dean 17	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524027	Pending	Dean 18	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524028	Pending	Dean 19	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524029	Pending	Dean 20	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524030	Pending	Dean 21	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524031	Pending	Dean 22	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524032	Pending	Dean 23	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo



Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524033	Pending	Dean 24	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524034	Pending	Dean 25	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524035	Pending	Dean 26	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	7/24/2018	Mayo
P 524187	Pending	Gold 1	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524188	Pending	Gold 2	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524189	Pending	Gold 3	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524190	Pending	Gold 4	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524191	Pending	Gold 5	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524192	Pending	Gold 6	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524193	Pending	Gold 7	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524194	Pending	Gold 8	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524195	Pending	Gold 9	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524196	Pending	Gold 10	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524197	Pending	Gold 11	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524198	Pending	Gold 12	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524199	Pending	Gold 13	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524200	Pending	Gold 14	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524201	Pending	Gold 15	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524202	Pending	Gold 16	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524203	Pending	Gold 17	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524204	Pending	Gold 18	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524205	Pending	Gold 19	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524206	Pending	Gold 20	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524207	Pending	Gold 21	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524208	Pending	Gold 22	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524209	Pending	Gold 23	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524210	Pending	Gold 24	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524211	Pending	Gold 25	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524212	Pending	Gold 26	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	8/30/2018	Mayo
P 524213	Pending	Gold 27	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524214	Pending	Gold 28	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524215	Pending	Gold 29	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524216	Pending	Gold 30	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524217	Pending	Gold 31	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524218	Pending	Gold 32	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524219	Pending	Gold 33	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524220	Pending	Gold 34	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524221	Pending	Gold 35	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524222	Pending	Gold 36	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524223	Pending	Gold 37	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524224	Pending	Gold 38	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524225	Pending	Gold 39	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524226	Pending	Gold 40	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524227	Pending	Gold 41	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524228	Pending	Gold 42	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524229	Pending	Gold 43	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524230	Pending	Gold 44	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524231	Pending	Gold 45	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524232	Pending	Gold 46	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524233	Pending	Gold 47	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524234	Pending	Gold 48	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524235	Pending	Gold 49	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524236	Pending	Gold 50	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524237	Pending	Gold 51	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524238	Pending	Gold 52	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo
P 524239	Pending	Gold 53	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	8/30/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 514765	Active	Gray 1	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514766	Active	Gray 2	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514767	Active	Gray 3	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514768	Active	Gray 4	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514769	Active	Gray 5	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514770	Active	Gray 6	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514771	Active	Gray 7	Earth & Iron Inc. - 100%	4/22/2016	4/22/2016	11/30/2019	Mayo
P 514748	Active	Izzie 1	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514749	Active	Izzie 2	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514750	Active	Izzie 3	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514751	Active	Izzie 4	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514752	Active	Izzie 5	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514753	Active	Izzie 6	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514754	Active	Izzie 7	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514755	Active	Izzie 8	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514756	Active	Izzie 9	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514757	Active	Izzie 10	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514758	Active	Izzie 11	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514759	Active	Izzie 12	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514760	Active	Izzie 13	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514761	Active	Izzie 14	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514762	Active	Izzie 15	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 514763	Active	Izzie 16	Earth & Iron Inc. - 100%	4/4/2016	4/5/2016	11/30/2019	Mayo
P 513512	Active	James 1	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513513	Active	James 2	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513514	Active	James 3	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513515	Active	James 4	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513516	Active	James 5	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513517	Active	James 6	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513518	Active	James 7	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513519	Active	James 8	Earth & Iron Inc. - 100%	7/10/2016	7/13/2016	11/30/2019	Mayo
P 513520	Active	James 9	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513521	Active	James 10	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513522	Active	James 11	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513523	Active	James 12	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513524	Active	James 13	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513525	Active	James 14	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513526	Active	James 15	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513527	Active	James 16	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513528	Active	James 17	Earth & Iron Inc. - 100%	7/11/2016	7/13/2016	11/30/2019	Mayo
P 513540	Active	James 18	Earth & Iron Inc. - 100%	7/13/2016	7/15/2016	11/30/2019	Mayo
P 513724	Pending	James 19	Earth & Iron Inc. - 100%	9/11/2016	9/12/2016	11/30/2019	Mayo
P 513728	Active	Jillian 1	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513729	Active	Jillian 2	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513730	Active	Jillian 3	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513731	Active	Jillian 4	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513732	Active	Jillian 5	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513733	Active	Jillian 6	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513734	Active	Jillian 7	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513735	Active	Jillian 8	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513736	Active	Jillian 9	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513737	Active	Jillian 10	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513738	Active	Jillian 11	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513739	Active	Jillian 12	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513740	Active	Jillian 13	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513741	Active	Jillian 14	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo



Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513742	Active	Jillian 15	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513743	Active	Jillian 16	Earth & Iron Inc. - 100%	9/14/2016	9/15/2016	11/30/2019	Mayo
P 513635	Pending	Jimmy	Earth & Iron Inc. - 100%	8/11/2016	8/22/2016	11/30/2019	Mayo
P 513541	Active	JLSJ 1	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513542	Active	JLSJ 2	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513543	Active	JLSJ 3	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513544	Active	JLSJ 4	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513545	Active	JLSJ 5	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513546	Active	JLSJ 6	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513547	Active	JLSJ 7	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513548	Active	JLSJ 8	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513549	Active	JLSJ 9	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513550	Active	JLSJ 10	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513551	Active	JLSJ 11	Earth & Iron Inc. - 100%	7/14/2016	7/15/2016	11/30/2019	Mayo
P 513632	Active	L.J. 0	Earth & Iron Inc. - 100%	8/5/2016	8/5/2016	11/30/2019	Mayo
P 513633	Active	L.J. 2	Earth & Iron Inc. - 100%	8/5/2016	8/5/2016	11/30/2019	Mayo
P 524241	Pending	Lew 1	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524242	Pending	Lew 2	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524243	Pending	Lew 3	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524244	Pending	Lew 4	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524245	Pending	Lew 5	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524246	Pending	Lew 6	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524247	Pending	Lew 7	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524248	Pending	Lew 8	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524249	Pending	Lew 9	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524250	Pending	Lew 10	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524251	Pending	Lew 11	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524252	Pending	Lew 12	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524253	Pending	Lew 13	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524254	Pending	Lew 14	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524255	Pending	Lew 15	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524256	Pending	Lew 16	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524257	Pending	Lew 17	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524258	Pending	Lew 18	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524259	Pending	Lew 19	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524260	Pending	Lew 20	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524261	Pending	Lew 21	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 524262	Pending	Lew 22	Earth & Iron Inc. - 100%	9/6/2017	9/8/2017	11/30/2019	Mayo
P 513786	Pending	Lindsay 12	Earth & Iron Inc. - 100%	12/5/2016	12/6/2016	11/30/2019	Mayo
P 513787	Pending	Lindsay 13	Earth & Iron Inc. - 100%	12/5/2016	12/6/2016	11/30/2019	Mayo
P 513529	Active	Lindsey 1	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513530	Active	Lindsey 2	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513531	Active	Lindsey 3	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513532	Active	Lindsey 4	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513533	Active	Lindsey 5	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513534	Active	Lindsey 6	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513535	Active	Lindsey 7	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513536	Active	Lindsey 8	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513537	Active	Lindsey 9	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513538	Active	Lindsey 10	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 513539	Active	Lindsey 11	Earth & Iron Inc. - 100%	7/13/2016	7/13/2016	11/30/2019	Mayo
P 514448	Active	Sam 1	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514449	Active	Sam 2	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514450	Active	Sam 3	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514451	Active	Sam 4	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514452	Active	Sam 5	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 514453	Active	Sam 6	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514454	Active	Sam 7	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514455	Active	Sam 8	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514456	Active	Sam 9	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514457	Active	Sam 10	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514458	Active	Sam 11	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514459	Active	Sam 12	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514460	Active	Sam 13	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514461	Active	Sam 14	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 514462	Active	Sam 15	Earth & Iron Inc. - 100%	7/10/2015	7/13/2015	11/30/2019	Mayo
P 513725	Active	Sam 2 16	Earth & Iron Inc. - 100%	8/28/2016	9/12/2016	11/30/2019	Mayo
P 513726	Active	Sam 2 17	Earth & Iron Inc. - 100%	8/28/2016	9/12/2016	11/30/2019	Mayo
P 513727	Active	Sam 2 18	Earth & Iron Inc. - 100%	8/28/2016	9/12/2016	11/30/2019	Mayo
P 513580	Active	Stuart 1	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513581	Active	Stuart 2	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513582	Active	Stuart 3	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513583	Active	Stuart 4	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513584	Active	Stuart 5	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513585	Active	Stuart 6	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513586	Active	Stuart 7	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513587	Active	Stuart 8	Earth & Iron Inc. - 100%	7/12/2016	7/22/2016	11/30/2019	Mayo
P 513588	Active	Stuart 9	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513589	Active	Stuart 10	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513590	Active	Stuart 11	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513591	Active	Stuart 12	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513592	Active	Stuart 13	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513593	Active	Stuart 14	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513594	Active	Stuart 15	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513595	Active	Stuart 16	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513596	Active	Stuart 17	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513597	Active	Stuart 18	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513598	Active	Stuart 19	Earth & Iron Inc. - 100%	7/14/2016	7/22/2016	11/30/2019	Mayo
P 513723	Pending	Stuart 0 0	Earth & Iron Inc. - 100%	9/11/2016	9/12/2016	11/30/2019	Mayo
P 513954	Pending	CoDisc 1	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513955	Pending	CoDisc 2	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513745	Pending	DG	Earth & Iron Mines Inc. - 100%	9/16/2016	9/19/2016	9/19/2017	Mayo
P 513956	Pending	Earth 1	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513957	Pending	Earth 2	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513958	Pending	Earth 3	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513959	Pending	Earth 4	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513960	Pending	Earth 5	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513961	Pending	Earth 6	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513962	Pending	Earth 7	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513963	Pending	Earth 8	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513964	Pending	Earth 9	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513965	Pending	Earth 10	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	7/24/2018	Mayo
P 513744	Pending	EI	Earth & Iron Mines Inc. - 100%	9/16/2016	9/19/2016	9/19/2017	Mayo
P 513776	Pending	Key 1	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513777	Pending	Key 2	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513778	Pending	Key 3	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513779	Pending	Key 4	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513780	Pending	Key 5	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513781	Pending	Key 6	Earth & Iron Mines Inc. - 100%	11/1/2016	11/4/2016	11/30/2019	Mayo
P 513966	Pending	Key Left 1	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513967	Pending	Key Left 2	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513968	Pending	Key Left 3	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo



Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513969	Pending	Key Left 4	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513970	Pending	Key Left 5	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513971	Pending	Key Left 6	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513972	Pending	Key Left 7	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513973	Pending	Key Left 8	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513974	Pending	Key Left 9	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513975	Pending	Key Left 10	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513976	Pending	Key Left 11	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513977	Pending	Key Left 12	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513978	Pending	Key Left 13	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513979	Pending	Key Left 14	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513980	Pending	Key Left 15	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513981	Pending	Key Left 16	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513982	Pending	Key Left 17	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513983	Pending	Key Left 18	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513984	Pending	Key Left 19	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513985	Pending	Key Left 20	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513986	Pending	Key Left 21	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513987	Pending	Key Left 22	Earth & Iron Mines Inc. - 100%	7/20/2017	7/24/2017	11/30/2019	Mayo
P 513988	Pending	Key Right 1	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513989	Pending	Key Right 2	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513990	Pending	Key Right 3	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513991	Pending	Key Right 4	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513992	Pending	Key Right 5	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513993	Pending	Key Right 6	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513994	Pending	Key Right 7	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513995	Pending	Key Right 8	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513996	Pending	Key Right 9	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513997	Pending	Key Right 10	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513998	Pending	Key Right 11	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 513999	Pending	Key Right 12	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 514000	Pending	Key Right 13	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524001	Pending	Key Right 14	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524002	Pending	Key Right 15	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524003	Pending	Key Right 16	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524004	Pending	Key Right 17	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524005	Pending	Key Right 18	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524006	Pending	Key Right 19	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524007	Pending	Key Right 20	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524008	Pending	Key Right 21	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 524009	Pending	Key Right 22	Earth & Iron Mines Inc. - 100%	7/21/2017	7/24/2017	11/30/2019	Mayo
P 514863	Active	Keystone 1	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514864	Active	Keystone 2	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514865	Active	Keystone 3	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514866	Active	Keystone 4	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514867	Active	Keystone 5	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514868	Active	Keystone 6	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514869	Active	Keystone 7	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514870	Active	Keystone 8	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514871	Active	Keystone 9	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514872	Active	Keystone 10	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514873	Active	Keystone 11	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514874	Active	Keystone 12	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514875	Active	Keystone 13	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514876	Active	Keystone 14	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514877	Active	Keystone 15	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo

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P 514878	Active	Keystone 16	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514879	Active	Keystone 17	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514880	Active	Keystone 18	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514881	Active	Keystone 19	Earth & Iron Mines Inc. - 100%	6/8/2016	6/10/2016	11/30/2019	Mayo
P 514882	Active	Keystone 20	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514883	Active	Keystone 21	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514884	Active	Keystone 22	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514885	Active	Keystone 23	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514886	Active	Keystone 24	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514887	Active	Keystone 25	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514888	Active	Keystone 26	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514889	Active	Keystone 27	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514890	Active	Keystone 28	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514891	Active	Keystone 29	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514892	Active	Keystone 30	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514893	Active	Keystone 31	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 514894	Active	Keystone 32	Earth & Iron Mines Inc. - 100%	6/9/2016	6/10/2016	11/30/2019	Mayo
P 524088	Pending	T 1	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524089	Pending	T 2	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524090	Pending	T 3	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524091	Pending	T 4	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524092	Pending	T 5	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524093	Pending	T 6	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524094	Pending	T 7	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524095	Pending	T 8	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524096	Pending	T 9	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524097	Pending	T 10	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524098	Pending	T 11	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524099	Pending	T 12	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524100	Pending	T 13	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524101	Pending	T 14	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524102	Pending	T 15	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524103	Pending	T 16	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524104	Pending	T 17	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524105	Pending	T 18	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	11/30/2019	Mayo
P 524106	Pending	Vander 1	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524107	Pending	Vander 2	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524108	Pending	Vander 3	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524109	Pending	Vander 4	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524110	Pending	Vander 5	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524111	Pending	Vander 6	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524112	Pending	Vander 7	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524113	Pending	Vander 8	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524114	Pending	Vander 9	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524115	Pending	Vander 10	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524116	Pending	Vander 11	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524117	Pending	Vander 12	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524118	Pending	Vander 13	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524119	Pending	Vander 14	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524120	Pending	Vander 15	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524121	Pending	Vander 16	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524122	Pending	Vander 17	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524123	Pending	Vander 18	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524124	Pending	Vander 19	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524125	Pending	Vander 20	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524126	Pending	Vander 21	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo



Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524127	Pending	Vander 22	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524128	Pending	Vander 23	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524129	Pending	Vander 24	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524130	Pending	Vander 25	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524131	Pending	Vander 26	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524132	Pending	Vander 27	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524133	Pending	Vander 28	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524134	Pending	Vander 29	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524135	Pending	Vander 30	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524136	Pending	Vander 31	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524137	Pending	Vander 32	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524138	Pending	Vander 33	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524139	Pending	Vander 34	Earth & Iron Mines Inc. - 100%	8/12/2017	8/18/2017	8/18/2018	Mayo
P 524264	Pending	Roady 1	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524265	Pending	Roady 2	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524266	Pending	Roady 3	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524267	Pending	Roady 4	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524268	Pending	Roady 5	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524269	Pending	Roady 6	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524270	Pending	Roady 7	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524271	Pending	Roady 8	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524272	Pending	Roady 9	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524273	Pending	Roady 10	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524274	Pending	Roady 11	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524275	Pending	Roady 12	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524276	Pending	Roady 13	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524277	Pending	Roady 14	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524278	Pending	Roady 15	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524279	Pending	Roady 16	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524280	Pending	Roady 17	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524281	Pending	Roady 18	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524282	Pending	Roady 19	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524283	Pending	Roady 20	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524284	Pending	Roady 21	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524285	Pending	Roady 22	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524286	Pending	Roady 23	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524287	Pending	Roady 24	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524288	Pending	Roady 25	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	8/30/2018	Mayo
P 524289	Pending	Roady 26	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524290	Pending	Roady 27	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524291	Pending	Roady 28	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524292	Pending	Roady 29	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524293	Pending	Roady 30	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524294	Pending	Roady 31	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524295	Pending	Roady 32	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524296	Pending	Roady 33	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524297	Pending	Roady 34	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524298	Pending	Roady 35	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524299	Pending	Roady 36	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524300	Pending	Roady 37	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524301	Pending	Roady 38	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524302	Pending	Roady 39	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524303	Pending	Roady 40	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524304	Pending	Roady 41	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524305	Pending	Roady 42	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524306	Pending	Roady 43	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524307	Pending	Roady 44	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524308	Pending	Roady 45	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524309	Pending	Roady 46	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524310	Pending	Roady 47	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524311	Pending	Roady 48	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524312	Pending	Roady 49	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524313	Pending	Roady 50	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524314	Pending	Roady 51	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524315	Pending	Roady 52	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524316	Pending	Roady 53	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 524317	Pending	Roady 54	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	8/30/2018	Mayo
P 509041	Active	BRODIE 1	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509042	Active	BRODIE 2	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509043	Active	BRODIE 3	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509044	Active	BRODIE 4	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509045	Active	BRODIE 5	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509046	Active	BRODIE 6	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021	Mayo
P 509047	Active	BRODIE 7	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2020	Mayo
P 509048	Active	BRODIE 8	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2020	Mayo
P 524049	Pending	Chris	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/2/2017	8/2/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524053	Pending	Mike	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/3/2017	8/3/2018	Mayo
P 524052	Pending	Pilkey	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/3/2017	8/3/2018	Mayo
P 513842	Pending	Ayla 1	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513843	Pending	Ayla 2	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513844	Pending	Ayla 3	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513845	Pending	Ayla 4	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513846	Pending	Ayla 5	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513847	Pending	Ayla 6	Stuart Gray - 100%	7/6/2017	7/10/2017	7/10/2018	Mayo
P 513848	Pending	Ayla 7	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513849	Pending	Ayla 8	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513850	Pending	Ayla 9	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513851	Pending	Ayla 10	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513852	Pending	Ayla 11	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513853	Pending	Ayla 12	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513854	Pending	Ayla 13	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513855	Pending	Ayla 14	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513856	Pending	Ayla 15	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513857	Pending	Ayla 16	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513858	Pending	Ayla 17	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513859	Pending	Ayla 18	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513860	Pending	Ayla 19	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513861	Pending	Ayla 20	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513862	Pending	Ayla 21	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513863	Pending	Ayla 22	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513864	Pending	Ayla 23	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513865	Pending	Ayla 24	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo



Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 513866	Pending	Ayla 25	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513867	Pending	Ayla 26	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513868	Pending	Ayla 27	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513869	Pending	Ayla 28	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513870	Pending	Ayla 29	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513871	Pending	Ayla 30	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513872	Pending	Ayla 31	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513873	Pending	Ayla 32	Stuart Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
P 513874	Pending	Ayla 33	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513875	Pending	Ayla 34	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513876	Pending	Ayla 35	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513877	Pending	Ayla 36	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513878	Pending	Ayla 37	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513879	Pending	Ayla 38	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513880	Pending	Ayla 39	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513881	Pending	Ayla 40	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513882	Pending	Ayla 41	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513883	Pending	Ayla 42	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513884	Pending	Ayla 43	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513885	Pending	Ayla 44	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513886	Pending	Ayla 45	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513887	Pending	Ayla 46	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513888	Pending	Ayla 47	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513889	Pending	Ayla 48	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513890	Pending	Ayla 49	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513891	Pending	Ayla 50	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513892	Pending	Ayla 51	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo
P 513893	Pending	Ayla 52	Stuart Gray - 100%	7/8/2017	7/10/2017	7/10/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
P 524054	Pending	Auliv	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524055	Pending	Auliv 1	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524056	Pending	Auliv 2	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524057	Pending	Auliv 3	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524058	Pending	Auliv 4	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524059	Pending	Auliv 5	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524060	Pending	Auliv 6	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524061	Pending	Auliv 7	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524062	Pending	Auliv 8	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524063	Pending	Auliv 9	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524064	Pending	Auliv 10	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524065	Pending	Auliv 11	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524066	Pending	Auliv 12	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524067	Pending	Auliv 13	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524068	Pending	Auliv 14	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524069	Pending	Auliv 15	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524070	Pending	Auliv 16	Western Heavy Haul Inc. - 100%	6/25/2017	7/10/2017	7/10/2018	Mayo
P 524071	Pending	Auliv 17	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524072	Pending	Auliv 18	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524073	Pending	Auliv 19	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524074	Pending	Auliv 20	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524075	Pending	Auliv 21	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524076	Pending	Auliv 22	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524077	Pending	Auliv 23	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524078	Pending	Auliv 24	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524079	Pending	Auliv 25	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524080	Pending	Auliv 26	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
P 524081	Pending	Auliv 27	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo

Grant Number	Tenure Status	Claim Name	Owner Name	Staking Date	Recorded Date	Expiry Date	District
<b>P 524082</b>	Pending	Auliv 28	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
<b>P 524083</b>	Pending	Auliv 29	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
<b>P 524084</b>	Pending	Auliv 30	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
<b>P 524085</b>	Pending	Auliv 31	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
<b>P 524086</b>	Pending	Auliv 32	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo
<b>P 524087</b>	Pending	Auliv 33	Western Heavy Haul Inc. - 100%	6/26/2017	7/10/2017	7/10/2018	Mayo

Grant number	Tenure	Status	Length	Owner	Staking Date	Recorded Date	Expiry Date	District
<b>IM00355</b>	Prospecting lease	Active	2 MILES	Ashliegh Gray - 100%	7/9/2017	7/10/2017	7/10/2018	Mayo
<b>IM00364</b>	Prospecting lease	Pending	3 MILES	Earth & Iron Mines Inc. - 100%	7/14/2017	7/18/2017	7/18/2018	Mayo
<b>IM00373</b>	Prospecting lease	Pending	5 MILES	Stuart Gray - 100%	9/20/2017	9/22/2017	9/22/2018	Mayo
<b>IM00374</b>	Prospecting lease	Pending	2 MILES	Western Heavy Haul Inc. - 100%	9/23/2017	9/27/2017	9/27/2018	Mayo

# YMEP Expense Claim Form - Client Copy



YMEP no: 16-17-027	project name: Upper Duncan	applicant name: Earth and Iron Inc.		
expense claim no: 2	program type: placer	program module: target evaluation		
date submitted: 30-Dec-17	phone: 780-900-2306	email: deang@earthiron.com		
address: Box 5395 Drayton Valley, Alberta T7A 1R5				
start/end dates of fieldwork for this claim:	30-May-17 <small>start</small>	31-Aug-17 <small>end</small>		
		no. of field days/this claim: n/a		
<b>eligible expenses</b> <i>Please refer to rate guidelines. Provide photocopy of receipts.</i>				
item	unit/days	rate	total	
daily field expenses	no persons:	\$100/day		
personnel	Name (supply statement of qualifications)			
equipment (rental)	private or commercial	unit/days	rate	total
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
other	<i>Please provide details.</i>			
Resistivity Surveys industry rates		550 m	\$5500/km	\$3,025.00
Final YMEP Report by Geoplacer Exploration				\$3,150.00
<b>Total this claim:</b>				<b>\$6,175.00</b>



# Invoice

13 Tigereye Crescent, Whitehorse, Yukon Y1A 6G6

Date: December 30, 2017  
 Invoice #: 2017-021  
 Customer ID: Earth and Iron Inc.

To: Earth and Iron Inc.  
 Box 5395  
 Drayton Valley, Alberta  
 Canada T7A 1R5  
 T: (780) 542-5622

Payment Terms	Date
Amount due on receipt: interest after 30 days	2% <b>December 30, 2017</b>

Description	Item type	Amount	Rate Per Item	Subtotal	GST	Totals
Final YMEP report, Upper Duncan Creek YMEP17-027	Days	6.0	\$ 500.00	\$ 3,000.00	\$ 150.00	\$ 3,150.00
Subtotal						\$ 3,150.00
Total due						\$ 3,150.00

Please pay in Canadian Funds to Geoplacer Exploration Ltd.  
 13 Tigereye Crescent, Whitehorse, YK Y1A 6G6 (867) 334-1461 wlebarge@gmail.com  
 GST #829278712RT0001  
**Bank Wiring Information:**  
 Bank customer: Geoplacer Exploration Ltd.  
 Account number 99010-310-99015003619  
 Swift Code CUCXCATTAL  
 First Nations Bank of Canada  
 103-9016 Quartz Road  
 Whitehorse, Yukon Y1A 2Z5  
 bank email: fnbcservice@fnbc.ca



# YMEP Final Submission Form



		Date submitted:													
Submit by January 31 <sup>st</sup> to: (winter placer projects may submit at pre-approved date)		YMEP - EMR/YG Street address: 102-300 Main Street ymep@gov.yk.ca Mailing address: Box 2703, K-102 phone: 867-456-3828 Whitehorse, YT, Y1A 2B5 fax: 867-667-3198													
<b>CONTACT INFO</b> Earth & Iron INC.		<b>PROJECT INFO</b>													
Name:	Stuart Gray	YMEP no:	YMEP17-027												
Address:	5741 49 Ave Drayton Valley Alberta	Project name:	Upper Duncan Creek												
	T7A 1R5	Project type:	Target Evaluation												
Email:	stuartg@earthiron.com	Project module:	Placer												
Phone:	780-898-4944														
Is the final report enclosed? <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>hard copy</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>no</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>pdf copy</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>digital spreadsheet of station location data</td> </tr> </table>				<input type="checkbox"/>	yes	<input type="checkbox"/>	hard copy	<input type="checkbox"/>	no	<input type="checkbox"/>	pdf copy			<input type="checkbox"/>	digital spreadsheet of station location data
<input type="checkbox"/>	yes	<input type="checkbox"/>	hard copy												
<input type="checkbox"/>	no	<input type="checkbox"/>	pdf copy												
		<input type="checkbox"/>	digital spreadsheet of station location data												
Comment:															
<b>PROJECT SUMMARY</b>															
Total project expenditures:	\$216,790.88														
Number of new claims since March 31 <sup>st</sup> :	staked lease to claims (22 claims)														
Has an option resulted since March 31 <sup>st</sup> ?	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> in negotiation												
Number of calendar field days:	20														
Number of person-days of employment:	100	paid	_____ days of unpaid work												
Total no. of samples:	_____ rocks	_____ silts	_____ soils _____ other												
Total length/volume of trenching/shafting:	_____														
Total number of line-km of geophysics:	6.405														
Total metres drilled:	_____ diamond drill	_____ RC drill	_____ auger/percussion drill												
Other products (provide details): _____															
<i>This is not an expense claim form. To request reimbursement of expenses, please submit a separate detailed expense claim form.</i>															
<b>FINANCIAL SUMMARY</b>															
Total daily field allowance:	10,000.00	Total contractor costs:	10,000.00												
Total field air transportation costs (helicopter/plane):	_____	Total excavating/heavy equipment costs:	134,240.00												
Total truck/mileage costs:	_____	Total assay/analyses costs:	_____												
Total wages paid:	30,977.00	Total reclamation costs:	24,000.00												
Total light equipment rental costs:	_____	Total report writing cost:	_____												
Other (please specify): _____	Total staking costs:		_____												
Other (please specify): _____															

# YMEP Final Submission Form



Your feedback on any aspect of the program:

The Department of Energy, Mines and Resources may verify all statements related to, and made on this form, in any previously submitted reports, interim claims and in the Summary or Technical Report which accompanies it.

I certify that;

1. I am the person, or the representative of the company or partnership, named in the Application for Funding and in the Contribution Agreement under the Yukon Mineral Exploration Program.
2. I am a person who is nineteen years of age or older, and I have complied with all the requirements of the said program.
3. I hereby apply for the final payment of a contribution under the Yukon Mineral Exploration Program (YMEP) and declare the information contained within the Summary or Technical Report and this form to be true and accurate.

Date Jan 8<sup>th</sup> 2018

Signature of Applicant

[Handwritten Signature]

Name (print)

Stuart Gray