

**2014 Assessment Report for  
Geophysics, Geology and Geochemistry  
November-December 2013 and June 2014**

**On the**

**Iron Ross Property**

**Nanaimo Mining Division**

**BCGS 092K021,-031  
NTS 092K05W**

**UTM Zone 10N 5577250N 287500E**

**For**

**Canadian Dehua International Mines Group Inc.**

**Report written by  
Jacques Houle, P.Eng.  
Victor Zhou, Geologist**

**November 12, 2014**



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## Introduction

### Property location, access and physiography

The Iron Ross Property is located in the Nanaimo Mining Division, 10 km. south of the community of Sayward, or 50 km. northwest of the community of Campbell River, near the east coast of Vancouver Island, BC, Canada. The property is centred at UTM Zone 10N, 5577250N 287500E on BCGS map sheets 092K.021 and 092K.031 and NTS map sheet 092K05W. The Iron Ross Property is held by Canadian Dehua International Mines Group Inc. (“Dehua”) (FMC 276634), and Pioneer Exploration Corporation (“Pioneer”) provides services for Dehua. The property consists of 1 cell mineral claim covering approximately 867 hectares.

Paved provincial Highway 19 and the all-weather Elk Creek Main Logging Road provide access year round to the north side of the property, and old and new mining and logging roads provide truck or foot access to most of the property. The Iron Ross Property is a 60 minute drive from Campbell River, B.C. a full service community serving two nearby major operating mines, the Myra Falls base metal operation and the Quinsam coal mine.

The topography of the Iron Ross Property consists of northeast facing, rolling mountain slopes up to 600 metres in elevation. Small northeast-flowing creeks and their tributaries drain the property into Elk Creek which crosses the northeast corner of the property, and drains into the Salmon River 2 km. east of the property. The Iron Ross Property is covered by mainly second growth forest of several ages of regeneration, and logging roads at different stages of degeneration. The area of the claims is coastal rainforest typical of eastern Vancouver Island, with heavy rain and snow in the fall to spring period, and warm dry summers.

### Property definition, owner, operator, geology and history

The property owner and operator is Canadian Dehua International Mines Group Inc., a private Canadian corporation, who began acquiring cell mineral claims on Vancouver Island in 2012 and coal licenses elsewhere in BC and Canada since 2004. Pioneer Exploration Corporation is an independent private company providing services for Canadian Dehua International Mines Group Inc. The cell mineral claim of the Iron Ross Property was purchased from Jo Shearer in 2012, who staked legacy mineral claims in 2001 to cover the locations of favourable geology and aeromagnetic anomalies surrounding the Fe skarn past producer Iron Mike 092K043, and then converted them to a cell claim in 2005. See Figure 1 for the mineral tenure map from Mineral Titles Online, and Figure 2 for the infrastructure map of the property, both at 1:100,000 scale, including locations of BC MINFILE occurrences and ARIS reports, taken from BC MapPlace. The claim covers approximately 867 hectares and consists of 1 cell mineral claim, with details and status listed in Table 1:

**Table 1 – Cell Mineral Claim Status as of November 12, 2014:**

Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
503831		276634 (100%)	Mineral	092K	2005/jan/15	2016/jan/15	GOOD	866.928

The Iron Ross Property is situated along the northeast flank of an elongate NW-SE trending aeromagnetic high feature, which is coincident with a granodiorite dike of the Jurassic Island intrusive suite. The dike intrudes the northwest end of an extensional graben containing a preserved Triassic to Jurassic volcano-sedimentary sequence, including multiple limestone-bearing units. This geological setting is ideal for porphyry copper-molybdenum and related skarn magnetite-copper-gold mineralization both within the intrusion and along the contacts between the intrusion and the limestone units.

The Iron Ross Property is underlain primarily by a southwest-dipping layered sequence of Upper Triassic Vancouver Group rocks, with Jurassic Island intrusives in the southwest corner. The layered rocks consisting of Karmutsen Formation mafic volcanic flows (uTrVK) in the northeast, overlain by undivided marine sedimentary and volcanic rocks (muTrVsV) in the centre, and Parson Bay limestone, shale, siltstone and argillite rocks (uTrVP) in the south. These units have all been intruded by the northwest-striking granodiorite dike of the Early-Middle Jurassic Island Plutonic Suite (EMJgd).

See Figure 3 for the geological map for the area of the Iron Ross Property at 1:100,000 scale. The following geology legend lists rocks underlying the Iron Ross Property, taken from the BCGS 2005 Geology layer in BC MapPlace, which applies to Figure 3:

#### **EARLY TO MIDDLE JURASSIC**

##### ***Island Plutonic Suite***

EMJgd granodioritic to dioritic intrusive rocks

#### **UPPER TRIASSIC**

##### ***Vancouver Group***

##### **Undivided**

muTRVsV marine sedimentary and volcanic rocks

##### **Parson Bay Formation**

uTrVP undivided (clastic and carbonate) sedimentary rocks

##### **Quatsino Formation**

uTrVQ limestone

##### **Karmutsen Formation**

uTrVK mafic volcanic flows (minor carbonate interflow sediments)

See Figure 4 for the residual total field aeromagnetic map for the area of the Iron Ross Property at 1:100,000 scale, taken from BC MapPlace.

Figure 6 shows the 1973 aeromagnetic survey of the Sayward Area for Texada Mines Ltd. (not to scale taken from BC Property File ID 16470) with the approximate location of the Iron Ross Property cell claim 503831 outlined and total field aeromagnetic high anomalies selectively highlighted by the authors.

Figure 7 shows the 1983 aeromagnetic survey of the area of the Pete and White claims for Dickenson Mines Ltd. (not to scale taken from ARIS report 12102C) with the approximate location of the Iron Ross Property cell claim 503831 outlined and total field aeromagnetic high anomalies selectively highlighted by the authors.

The different aeromagnetic surveys show highly variable aeromagnetic responses in the area of the Iron Ross Property, and indicate several magnetic high anomalies both on and around the property. Some of these magnetic highs are known to be related to

massive magnetite mineralization. Figure 5 shows a sketch map of the original 2-post legacy mineral claims of the 1960 Iron Mike Group (not to scale taken from BC Property File ID 34418), from which magnetite occurrences were named, with the approximate location of the Iron Ross Property cell claim 503831 drawn by the authors. However, historic ground magnetic data for the property area is absent in the public database.

One of the occurrences (092K 043 – Iron Mike) was explored and developed, and according to H. L. Hill & Associates Ltd. in 1965 (from Property File ID 34423) contained proven ore reserves of 688,281 tonnes and indicated ore reserves of 266,985 tonnes both averaging 43.5% Fe. An additional 1 million tonnes was inferred down-dip of the reserves at the Iron Mike deposit based on drilling, plus two other untested magnetic anomalies were known on the property. These resource estimates are historical and do not conform to the modern industry standard guidelines of NI43-101 or the CIM.

In 1966 according to BC MINFILE 168,736 tonnes of ore were mined from two open pits (Main Pit and West Pit) at the Iron Mike deposit by Orecan Mines Ltd., and 82,863,185 kg. of concentrate were shipped in 1966, and a further 29,937,000 kg. in 1969.

The Iron Ross Property covers only one BC MINFILE occurrence as follows:

**Table 2 – BC MINFILE Occurrence on the Iron Ross Property:**

Name	MINFILE #	Status	Deposit Type	Commodities	On Claim
Iron Mike	092K043	Past Producer	Fe Skarn	Iron, Magnetite, Copper	503831

Historic exploration work on or immediately around the area of the Iron Ross Property dates from 1960, and includes information documented in BC Minister of Mines Annual Reports between 1960 and 1969, BC Property Files (mainly mine data) dating from the 1960's and 1970's, listed in Table 3 below, and six assessment reports documenting work between 1983 and 2013, listed in Table 4 with key portions summarized below:

**Table 3 – BC Property File Data for the Iron Ross Property:**

File ID #	Year	Author	Description
16470	1973	Scintrex Surveys Ltd.	Airborne Magnetic Survey Map – Sayward Sheet
34414	1965	Orecan Mines Ltd.	Surface Diamond Drilling Map – Iron Mike, Iron Dan
34415	1961	Marwell Const. Co. Ltd.	Upper Bench Map – Iron Dick, Iron John
34416	1961	unauthored	Lower Bench Map – Iron Mike, Iron Dan
34418	1960	unauthored	Iron Mike Claim Group Sketch Map
34419	1965	Orecan Mines Ltd.	Drill Hole Location Map – Iron Mike and area
34421	1965	Orecan Mines Ltd.	Drill Hole Location Map – Iron Mike and area
34422	none	unauthored	Open Pit Cross Section 1050 – Iron Mike
34423	1965	H.L. Hill & Assoc. Ltd.	Letter of ore reserve estimates – Hartt Iron
34425	1963	Inter-Can Development	Open Pit Cross Section 950 – Hartt Group
34426	1963	Inter-Can Development	Open Pit Cross Section 2050 – Hartt Group
34427	1964	Inter-Can Development	Open Pit Cross Section 1750 – Hartt Group
34428	1964	Inter-Can Development	Open Pit Cross Section 1950 – Hartt Group
34431	none	unauthored	Structural contours hanging wall magnetite zone
34434	1966	Orecan Mines Ltd.	Surface contour plan with drill holes – Iron Mike
34435	none	unauthored	Iron Mike Cross Section Sketch with drill holes

**Table 4 – BC ARIS Reports for the Iron Ross Property as of November 12, 2014:**

Report#	Year	Authors	Owner/Operator	Work Program / MINFILE #
12102	1983	Atherton, P.G., Sheldrake, R.F.	Dickenson Mines Ltd.	Geological, Geochemical, Geophysical / 092K043
26874	2002	Shearer, J.T.	Homegold Resources Ltd.	Geological, Physical / 092K043
27438	2003	Shearer, J.T.	Hillsborough Resources Ltd.	Geological, Geophysical, Drilling / 092K043
29186	2006	Shearer, J.T.	Eagle Industrial Minerals	Geological, Metallurgical / 092K043
32309	2010	Shearer, J.T.	Homegold Resources Ltd.	Geological / 092K043
33999	2012	Shearer, J.T.	Canadian Dehua International Mines Group Inc.	Geological, Metallurgical / 092K043

In 1973, Texada Mines Ltd. completed an airborne magnetometer survey over the Sayward Area (Property File ID 16470 shown edited in Figure 6) as part of a larger program covering parts of Vancouver Island, Texada Island and the South Coast. The survey yielded four areas of high magnetic response (anomalies) in the area of the Iron Ross Property, including one in the property centre, one at the southeast corner and two to the southwest of the property.

In 1983, Dickenson Mines Ltd. completed extensive exploration work, both focused ground and regional airborne, on their Pete Claim Group staked to cover the four aeromagnetic anomalies from the 1973 aeromagnetic survey (Atherton, P.G. and Sheldrake, R.F., 1983 - ARIS 12102). The regional work consisted of helicopter borne aeromagnetics covering the area around the four aeromagnetic anomalies, which confirmed and refined those anomalies (see Figure 7 edited from ARIS 12012), but Sheldrake regard them as being “not convincingly anomalous”. Conclusions and recommendations by Atherton from the focused ground work is quoted as follows: “The sampling and mapping of the former open pit areas showed that very little of the original magnetite that was amenable to open pit mining methods remained after the mine and mill ceased operation. The geological survey and sampling located four deposits that show similar grades and characteristics. The ground magnetic survey was useful in determining the location and extent of the four magnetite occurrences. There is no reason to believe that the quality of these occurrences is less than the two Pit areas for producing high grade magnetite concentrate. Work that should be done in the future should include bulk sampling of the untouched occurrences to give a more reliable grade estimate. This will necessitate stripping and blasting. Diamond drilling is recommended for outlining the extent of the occurrences. The significant widths were encountered on the open pit areas. When these are combined with the Iron Dick (on former Iron Jim Claim), Mac (on former Iron Ken Claim), Herb 1 & 2 occurrences (on former Iron Dick Claim) a large amount of magnetite ore still remains for producing a high grade magnetite concentrate.” Note that these four ground occurrences are all contained within one of the airborne anomalies, and that the other three anomalies were not followed up.

From 1997 to 2001 the area of the property was held by J. Paquet but no work was filed for assessment and the claims covering the area allowed to lapse. A new magnetite occurrence (Iron Steve on former Iron Mac Claim) located 500 m. northwest of the Iron Ross (formerly called Iron Dick on former Iron Jim Claim) magnetite occurrence was channel sampled in 1997 (Shearer, J.T., 2002 – ARIS 26874).

In 2002, Homegold Resources Ltd. completed trenching and rock geochemistry, whole rock and environmental sampling of magnetite and limestone at the Iron Ross (formerly Iron Dick), Iron Bethea (formerly Iron Mac on former Iron Milly Claim) and Iron Herb 1 & 2 (on former Iron Dick Claim) magnetite occurrences. Trenching at Iron Ross exposed massive magnetite over an area of 60 m. by 4 m. Three magnetite samples yielded averages of 91% Fe<sub>2</sub>O<sub>3</sub>, 0.01% S, 2813 ppm As, 355 ppm Co, 271 ppm Zn and specific gravity of 5.1 g/cc. (Shearer, J.T., 2002 – ARIS 26874). Note that this work lacked GPS locations, and that reconciliation with 1960 claim and 1983 target names is problematic.

In 2003, Hillsborough Resources Ltd. completed geological mapping, ground magnetics, bulk sampling and percussion drilling at the Iron Ross, Iron Bethea, Iron Herb, Iron Steve and Iron Mike magnetite occurrences. Strong magnetic anomalies were obtained in the Iron Ross, Iron Steve and Iron Mike areas, based on 12 km of targeted ground magnetic survey along cut lines (Shearer, J.T., 2003 – ARIS 27438). A 150 tonne bulk sample was excavated from the Iron Ross occurrence, and tested for various industrial purposes. Percussion drilling at the Iron Ross occurrence totaled 296 m. in 17 holes, and at the Iron Steve occurrence totaled 426 m. in 31 holes. As in 2002, the 2003 work lacked GPS locations, and reconciliation with previous work remains problematic.

In 2006 and 2007, Eagle Industrial Minerals completed metallurgy on several bulk samples and drill core from the Iron Ross and Iron Steve magnetite occurrences, and on concentrate from the Iron Mike occurrence (Shearer, J.T., 2007 – ARIS 19186).

In 2012, Canadian Dehua International Mines Group Inc. completed metallurgy and specific gravity on unspecified magnetite samples (Shearer, J.T., 2013 – ARIS 33999).

## **List of claims and work completed**

From November 28, 2013 to December 5, 2013 V. Zhou visited and worked on the Iron Ross Property for 8 days, accompanied by R.Xie, G. Li and C. Fan. A GPS-controlled, systematic ground magnetic survey was conducted over and between the Iron Steve and Iron Ross areas; and a road-based traverse crossing the Iron Mike and Iron Herb areas and the western portion of the property. These locations are shown in Figure 8 at 1:20,000 scale. The ground magnetic surveys were conducted by V. Zhou using two GEM GSM-19T proton precession magnetometers with onboard GPS systems, one as a base station unit and one as a roving unit. Magnetic response and GPS readings were taken approximately every 25 metres along roughly parallel lines approximately 50 metres apart. The ground magnetic survey consisted of 765 readings along approximately 1.9 line km. and 1 sq. km., with all survey data in Appendix 1.

On June 8, 2014, J. Houle and V. Zhou visited the Iron Ross Property for 1 day. J. Houle took 3 random outcrop grab samples of the exposed magnetite mineralization at the Iron Steve, Iron Ross and Iron Mike Main Pit occurrences, with rock sample locations shown in Figure 10 at 1:20,000 scale. All rock samples were taken in duplicate, with one from each sample pair retained as a reference sample, cut into slabs with a rock saw, and described in detail by J. Houle using a binocular microscope. The other sample pair was kept in secure custody by J. Houle and delivered by truck to AGAT Lab's Burnaby BC facility by V. Zhou on June 24, 2014. Rock sample and geochemistry data appears in Appendix 2.

For each day of the ground magnetic survey, the base station magnetometer was installed at a fixed secure location near the survey area, and removed at the end of the day. The magnetic response and GPS co-ordinates were recorded for each station within the roving magnetometer, and uploaded and saved at the end of each day.

At each rock sample site, site characteristics were recorded on a pre-printed, waterproof, loose-leaf sample record form in a field notebook, and the sample number was recorded in triplicate: on the form, on a metal tag tied near the sample site and marked with flagging tape, and as a waypoint number in a hand-held Garmin Map 64ST GPS. The GPS location for each sample was recorded using the UTM NAD83 co-ordinate system. Sample data was recorded in MS Excel and saved at the end of the day.

On June 24, 2014 3 rock samples were delivered to AGAT's sample preparation laboratory facility in Burnaby, B.C., and geochemistry results from AGAT's analytical laboratory in Mississauga, Ont. were received by Pioneer Exploration Corporation on July 10, 2014 in Report 14V857173. At their Burnaby facility AGAT prepared the rock samples using package 226001, and then transferred the pulps to their laboratory in Mississauga, Ont. where they utilized 4-acid digestion and multi-element metals package 201071, trace gold package 202052 for analysis of all the samples, and Davis Tube magnetic separation method 201249 on all 3 samples. Rock sample locations and details, descriptions, geochemistry highlights, geochemistry report and sample chain of custody form from AGAT Labs appear in Appendix 3.

All ground magnetic data was gridded and plotted along with selected rock geochemistry results using Geosoft Geochemistry software by J. Houle. Iron target magnetic (Figure 9), and selected rock geochemistry highlight (Figure 11) maps were plotted at 1:10,000 scale for the area of the Property where the data was collected.

## Technical Data, Interpretation and Conclusions

The ground magnetic results show 5 areas of very high magnetic response, shown with black perimeter lines in Figure 9, and labeled **Iron Steve, Iron Ross, Iron Mike Main, Iron Mike West and Iron Herb**. The names for these targets areas are those used for the corresponding magnetite occurrences described in recent assessment reports.

The **Iron Steve Target** is centred at 5577250 N 287350 E 520 m. elevation, surrounds the test pit excavated in the early 2000's, is about 300 x 50 m. in area, oriented about 135° Azimuth, and well defined by six parallel survey lines crossing the target. It was sampled in E5125474 where a 6 m. thick Fe Skarn body oriented at 145/20 cut by 20% intrusive dikes oriented at 270/50 is exposed in the test pit floor. The sample contained 95% magnetite and 3% garnets, and yielded 98% magnetic minerals and 237 ppm zinc.

The **Iron Ross Target** is centred at 5576950 N 287600 E 540 m. elevation, surrounds the outcrop trenched in the early 2000's, is about 200 x 75 m. in area, oriented about 45° Azimuth, and well defined by three survey lines parallel to and two survey lines crossing the target. It was sampled in E5125475, where a +3 m. thick Fe Skarn body oriented at 155/30 is exposed in the trench. The sample contained 95% magnetite and 5% garnets, and yielded 95% magnetic minerals and 353 ppm zinc.



The **Iron Mike Main Target** is centred at 5577500 N 288150 E 370 m. elevation, extends southwest from the open pit excavated in the mid 1960's, is about 200 x 150 m. in area, oriented about 100° Azimuth, and poorly defined by one survey line along the road east of the target. It was sampled in E5125476, where a 15 m. thick Fe Skarn body oriented 290/05 (almost flat-lying) is exposed in the north pit face. The sample contained 85% magnetite and 10% garnets, and yielded 88.4% magnetic minerals.

The **Iron Mike West Target** is centred at 5577750 N 287950 E 380 m. elevation, is about 200 x 50 m. in area, oriented about 075° Azimuth, and poorly defined by one survey line along the road crossing the target.

The **Iron Herb Target** is centred at 5577750 N 287350 E 360 m. elevation, is about 300 x 100 m. in area, with an unknown orientation, and poorly defined by one survey line along the road crossing the target twice, or possibly crossing two separate sub-targets as suggested in ground survey from the early 2000's which defined the Herb 1 and Herb 2 targets.

Additional and longer GPS-grid based ground magnetic survey lines are required through and around the areas of the five anomalies, in conjunction with systematic GPS-grid based geological mapping and rock sampling. The new magnetic data should then be re-contoured along with the current data to produce new anomaly maps. Mechanized trenching and phased diamond drilling of these refined anomalies would be appropriate and effective in testing them.

Based on the 1973 and 1983 airborne geophysical surveys shown in Figures 6 and 7 respectively, three other previously untested high intensity magnetic anomalies occur adjacent to (north of Santa Maria Lake) and southwest of (north of Tlowlis Lake) the Iron Ross Property. Additional contiguous mineral tenures should be acquired to cover these anomalies and the favourable geology surrounding them, and those three anomalies should be tested initially by prospecting and ground magnetic traverses.

The Iron Ross Property hosts excellent potential for the discovery of multiple Fe Skarn deposits in at least two clusters, around the Iron Mike past producer and surrounding occurrences, and in the Tlowlis Lake area. The selection of additional cell claims is recommended to cover the full extent of the aeromagnetic anomalies, which would more than double the size of the property. Continued systematic and phased exploration work is also recommended.

**Table 4 – Proposed Acquisition and Work Program for the Iron Ross Property:**

<b>Item</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Program Cost</b>
Acquire cell claims	55 mineral claim cell units	estimate	\$ 27,500
Ground Geophysics	10 days – 1 geophysicist, 1 asst.	\$2,000 per day	\$ 20,000
Geological Mapping	10 days – 2 geologists (1Sr, 1Jr)	\$2,000 per day	\$ 20,000
Geochemistry	50 rock samples	\$50 per sample	\$ 2,500
Mechanized trenching	5 days – 1 backhoe & operator	\$2,000 per day	\$ 10,000
Diamond drilling	2,000 m. – all inclusive	\$200 per metre	\$ 400,000
Technical Reports	20 days - 1 geologist	\$750 per day	\$ 15,000
Contingency			\$ 5,000
<b>Totals</b>			<b>\$ 500,000</b>

Additional work programs may be recommended conditional upon results.

Respectfully submitted by:



Jacques Houle, P.Eng.

November 12, 2014



Victor Zhou, M.Sc.

November 12, 2014

### **Co-author's Qualifications**

I, Ji Hong Zhou (Victor), Geologist. Do hereby certify that:

I am currently employed as a geologist by: Pioneer Exploration Corporation.  
PO Box 17535 The Ritz PO, Vancouver, British Columbia, Canada V6E 0B2

I graduated with a Master's degree of geology Specialized in geological engineering from Northeastern University in Shenyang, China in 1991, and with Bachelor's degree of geology specialized in geological prospecting and exploring from Central South University in Changsha, China in 1986.

I have worked as a geologist for 20 years since graduating from university, including 5 years as a geologist in nonferrous prospecting and exploring of lead, zinc, gold, silver, etc., 5 years as a Geologist and 5 years as a Senior Geologist in Prospecting and exploring of uranium and gold mines in China, and 5 years as a coal and iron mine exploration geologist in British Columbia, Canada.

I have taken part in coal mine exploration in Murray River, Bullmoose and Wapiti River project in British Columbia as geology department manager, and have compiled Preliminary Technical Report of Pacific Iron Project in Vancouver Island.

## Co-author's Qualifications

I, Jacques Houle, P.Eng. Do hereby certify that:

I am currently self-employed as a consulting geologist by:  
Jacques Houle, P.Eng. Mineral Exploration Consulting  
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I graduated with a Bachelor's of Applied Science degree in Geological Engineering with specialization in Mineral Exploration from the University of Toronto in 1978.

I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia, the Society of Economic Geologists, the Association for Mineral Exploration British Columbia, and the Vancouver Island Exploration Group; I am also a member of the Technical Advisory Committee for Geoscience B.C., and of the advisory committee for the Earth Science Department of Vancouver Island University.

I have worked as a geologist for 36 years since graduating from university, including 5 years as a mine geologist in underground gold and silver mines, 15 years as an exploration manager, 3 years as a government geologist and 11 years as a mineral exploration consultant.

I am independent of Canadian Dehua International Mines Group Inc. and Pioneer Exploration Corporation, and hold no interest in the subject property of this report.

## References

### B. C. Ministry of Energy and Mines websites:

Assessment Reports  
<http://www.empr.gov.bc.ca/Mining/Geoscience/ARIS/Pages/default.aspx>

MapPlace  
<http://www.empr.gov.bc.ca/Mining/Geoscience/MapPlace/Pages/default.aspx>

Mineral Deposit Profiles  
<http://www.empr.gov.bc.ca/Mining/Geoscience/MineralDepositProfiles/Pages/default.aspx>

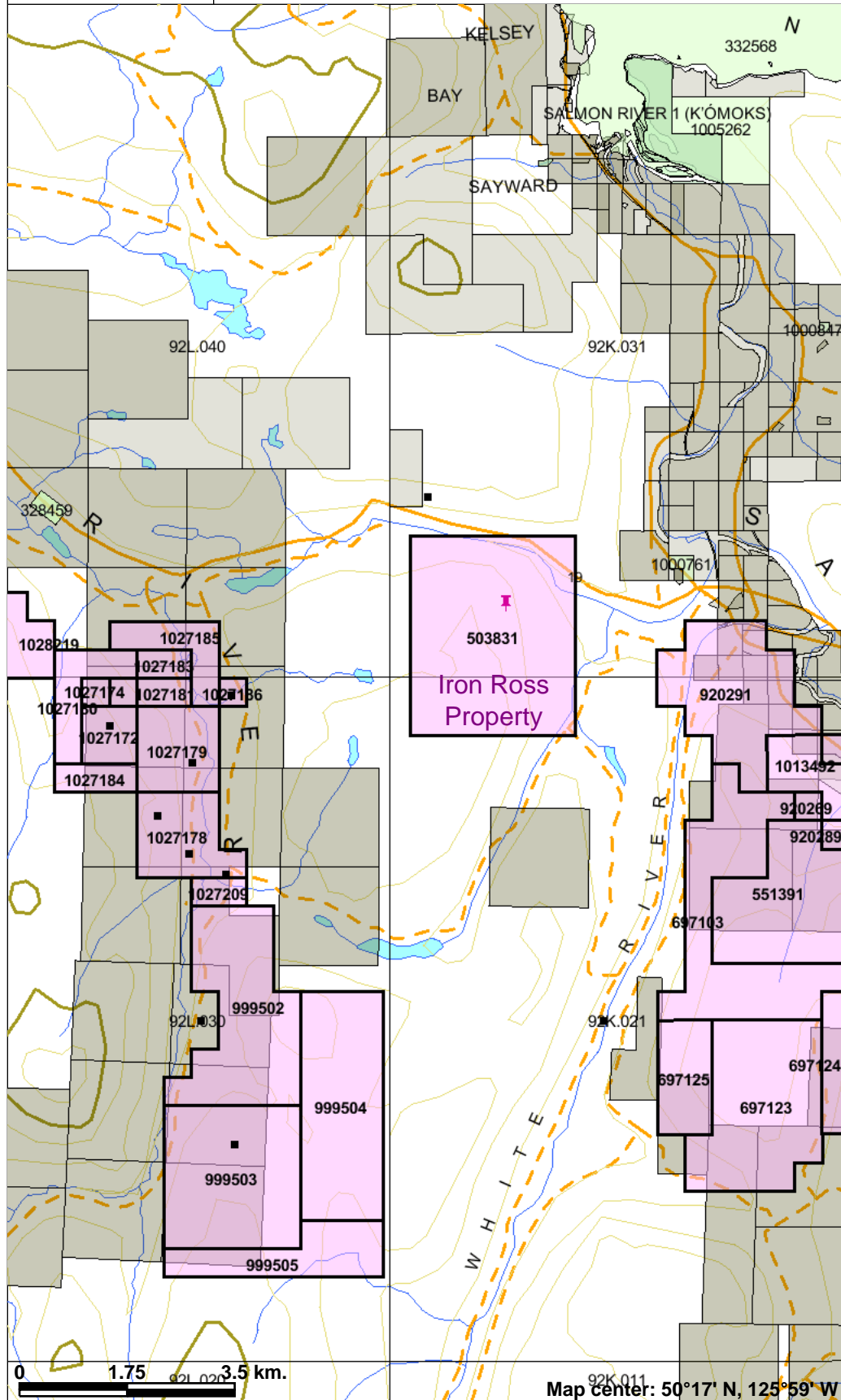
MINFILE  
<http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile/>

Property File  
<http://www.empr.gov.bc.ca/mining/geoscience/propertyFile/Pages/default.aspx>

Ministry Publications  
<http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/Pages/default.aspx>

Mineral Titles Online  
<https://www.mtonline.gov.bc.ca/mtov/home.do>

# Iron Ross Property



### Legend

**MINFILE Status**

- ✚ Producer
- ✚ Past Producer
- ✚ Developed Prospect
- All others

**Land Tenure**

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Survey Parcels
- BCGS Grid

**Contours (1:250K)**

- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours

**Annotation (1:250K)**

**Transportation - Points (1:250K)**

- ✚ Airfield
- ✚ Anchorage - Seaplane
- ✚ Ferry Route
- ✚ Heliport
- ✚ Seaplane Base
- ✚ Air Field
- ✚ Airport
- ✚ Air Feature - Condition Unknown
- ✚ Airport.Abandoned

**Transportation - Lines (1:250K)**

- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes

0 1.75 3.5 km.

Map center: 50°17' N, 125°59' W

Scale: 1:100,000

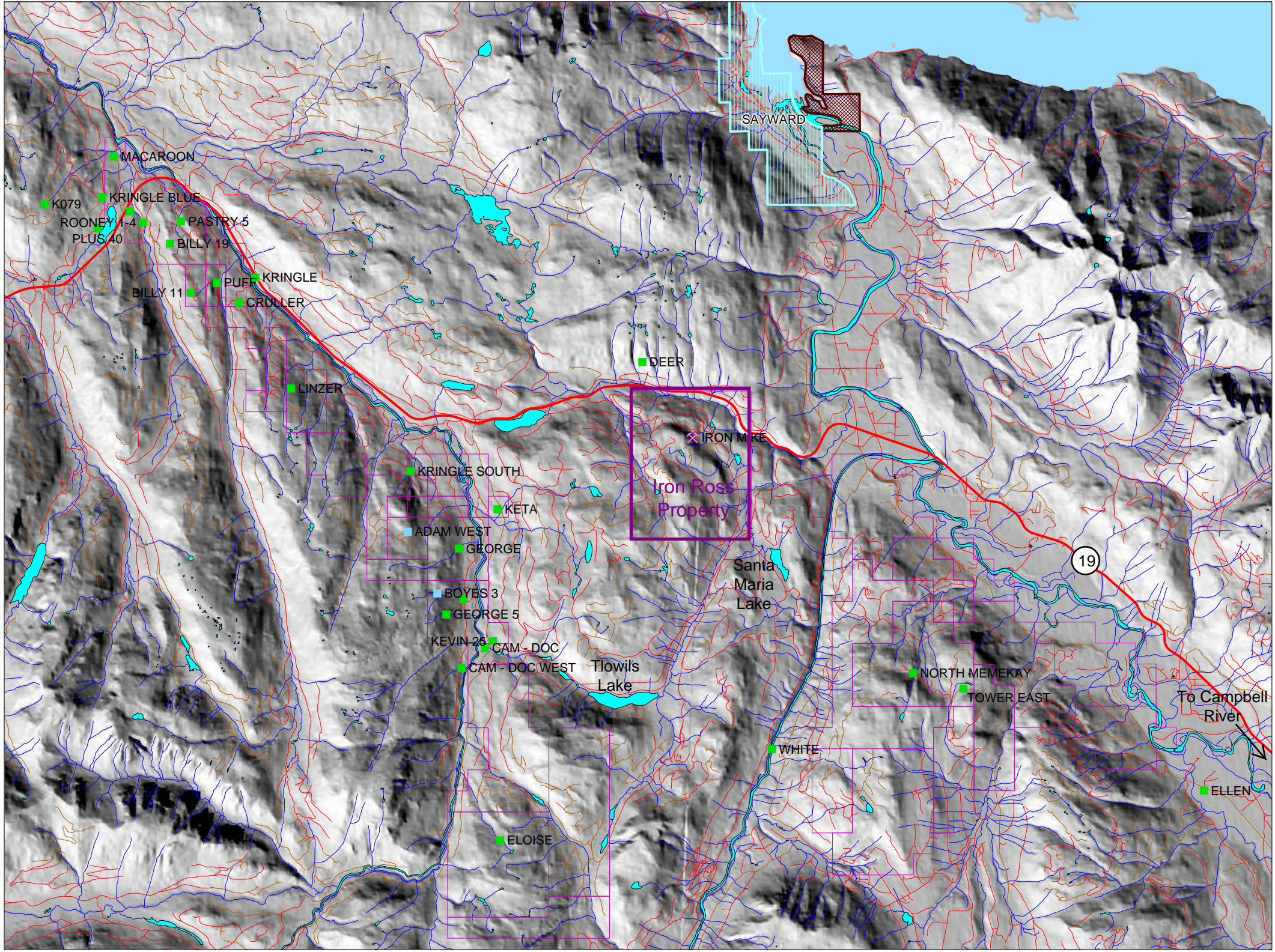
This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Mineral Tenures

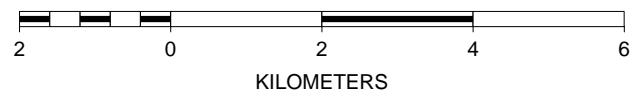
Figure 1



- BC Administrative Area Layers**
- BC Municipalities
  - BC Municipality labels
- First Nations Layers**
- Indian Reserves
- Mineral Inventory Layers**
- MINFILE name label
  - Developed Prospect
  - Past Producer
  - Producer
  - Prospect
  - Showing
  - All Others
- Mineral Titles Layers**
- MTO Mineral Titles Online Polygons
  - Coal
  - Placer
  - Mineral
  - Other
- Topographic Layers**
- Digital Road Atlas (<250K)
    - Freeway
    - Highway
    - Ramp
    - Arterial
    - Collector
    - Local
    - Lane
    - Strata
    - Recreation
    - Trail
    - Resource
    - Restricted
    - Ferry
  - Lake 1:20k
  - Large Rivers (< 100)
  - Rivers 1:20K (<100K)
  - BC Ocean
- Raster Layers**
- DEM image hillshade (<300K)



SCALE 1 : 100,000

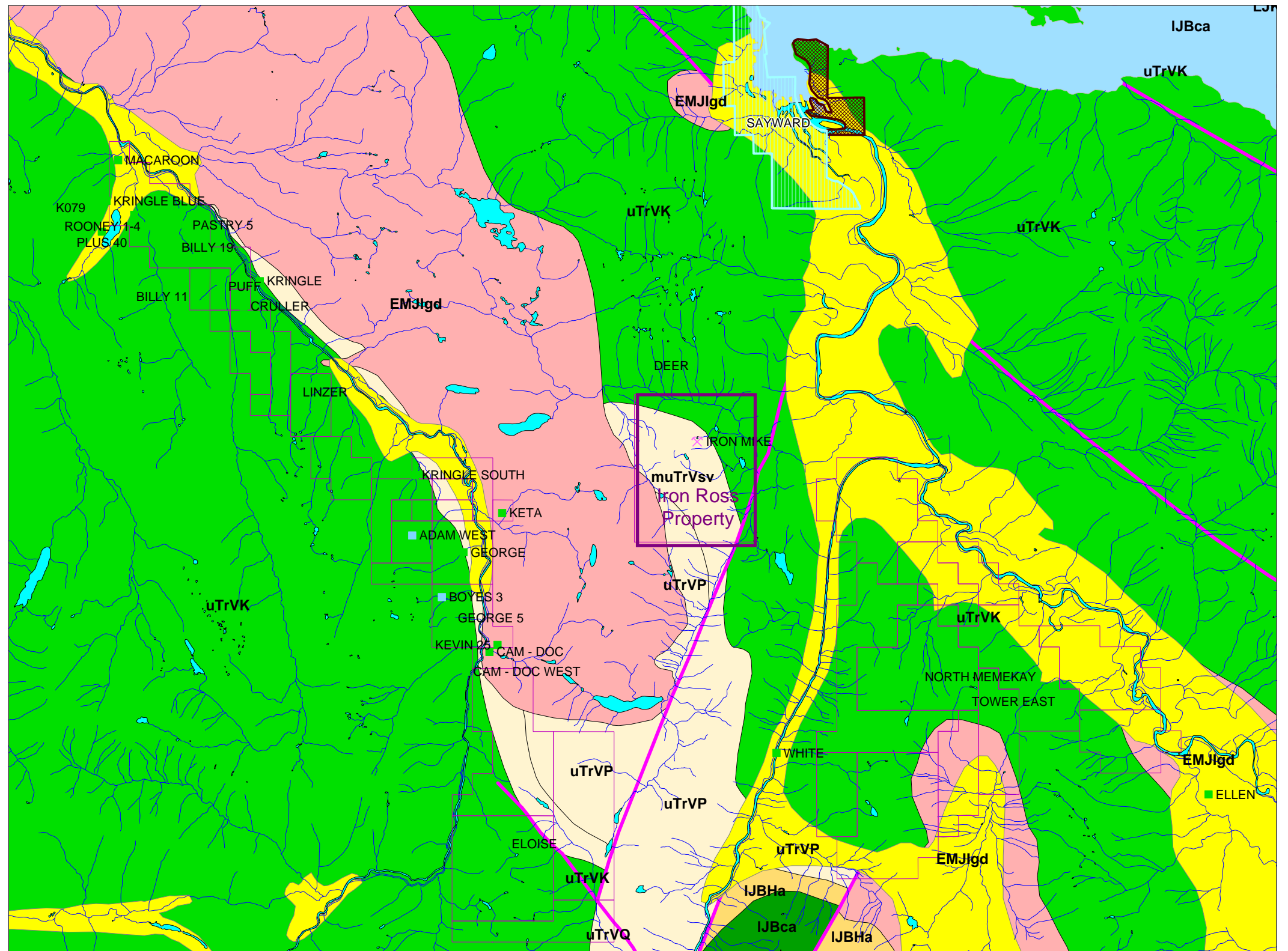
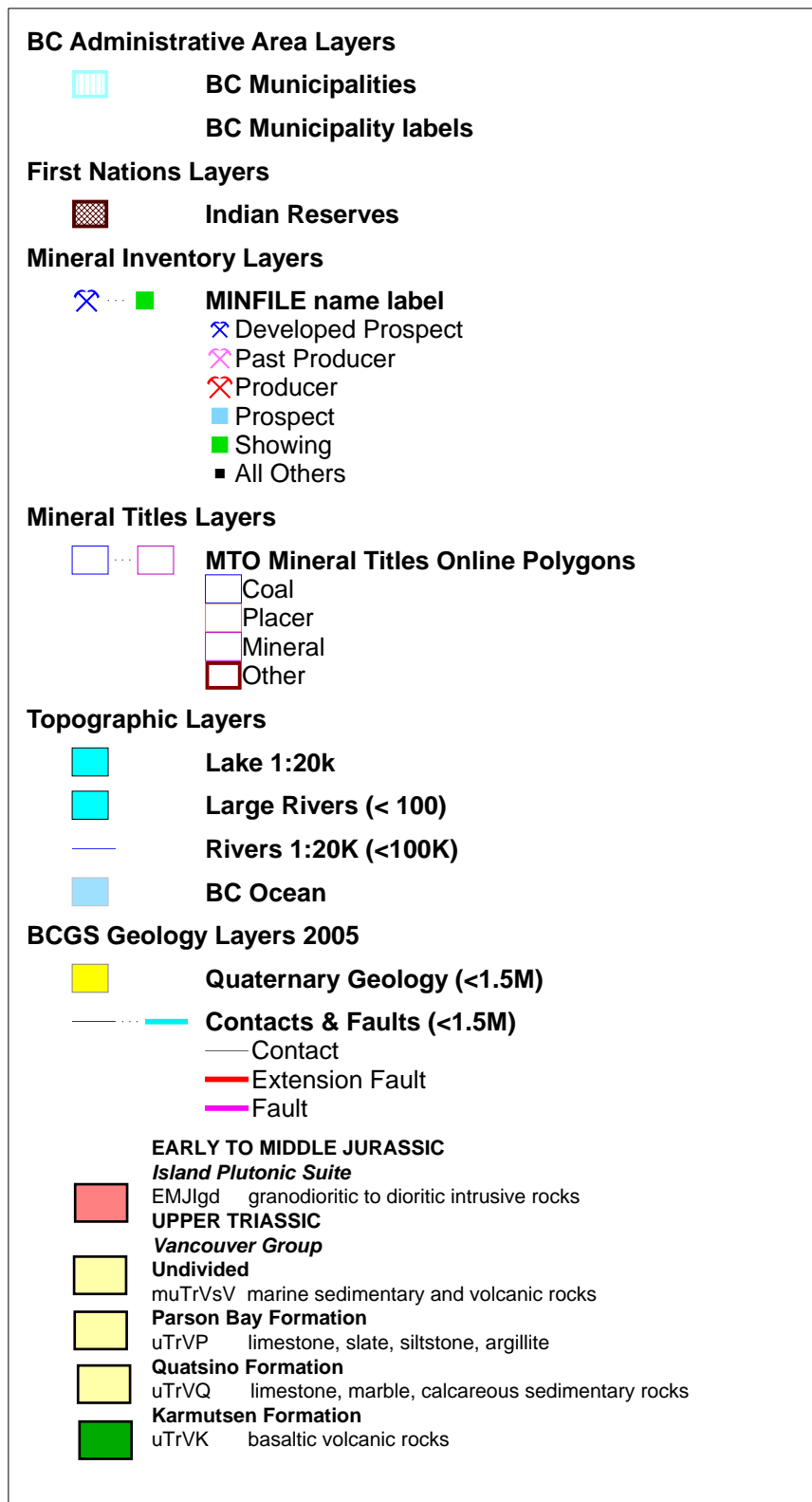


**Iron Ross Area Infrastructure**

**Figure 2**







SCALE 1 : 100,000

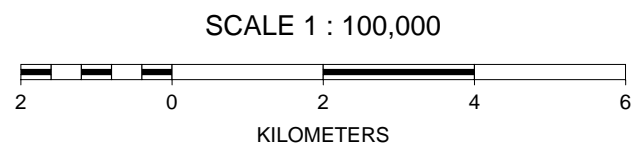
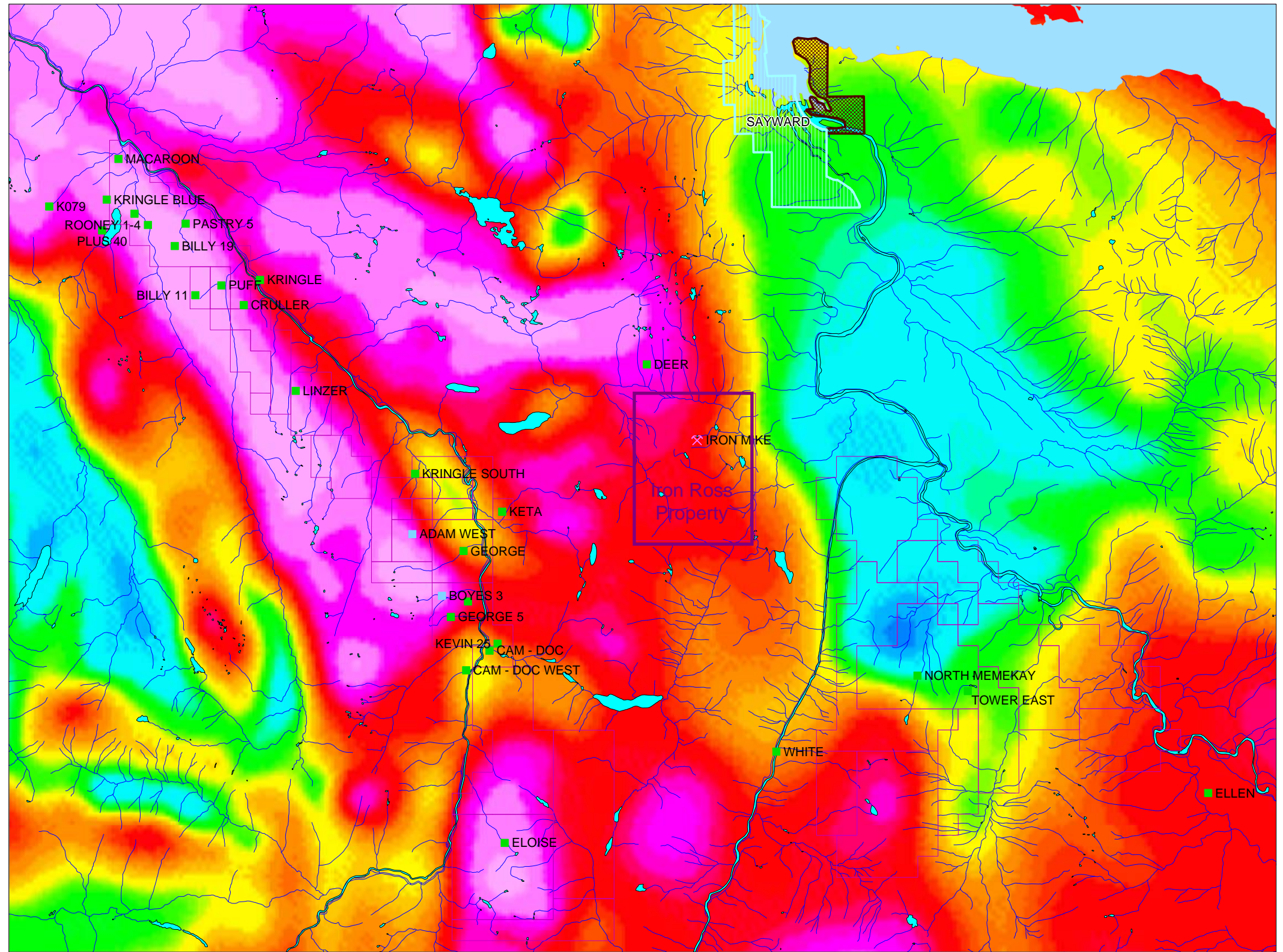
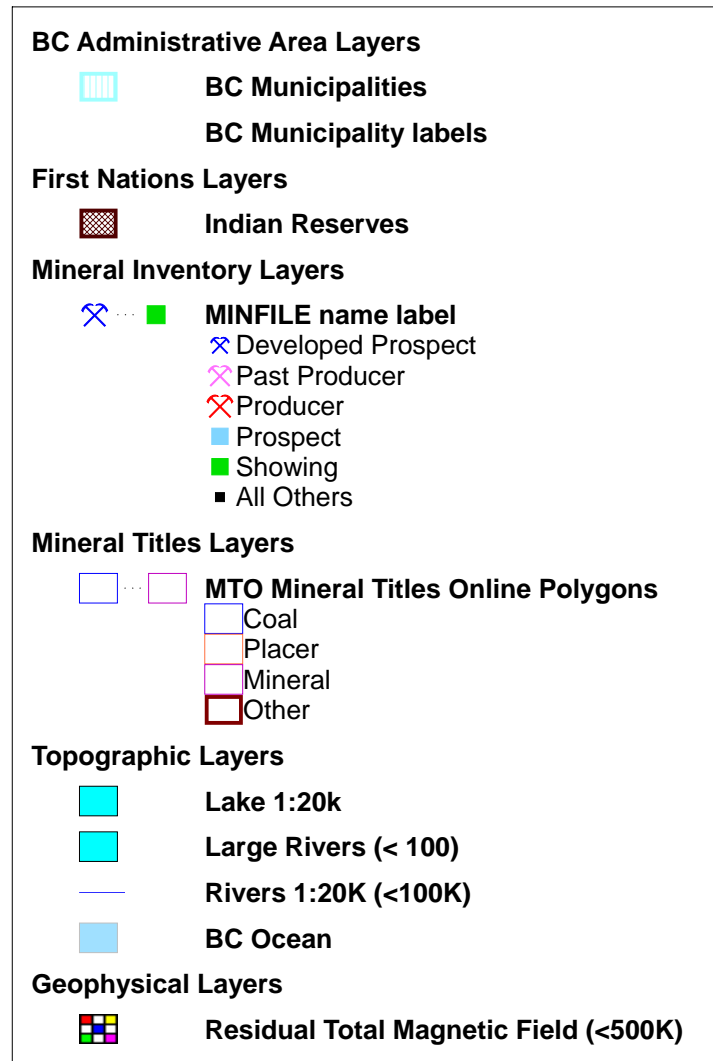


**Iron Ross Area Geology**

**Figure 3**





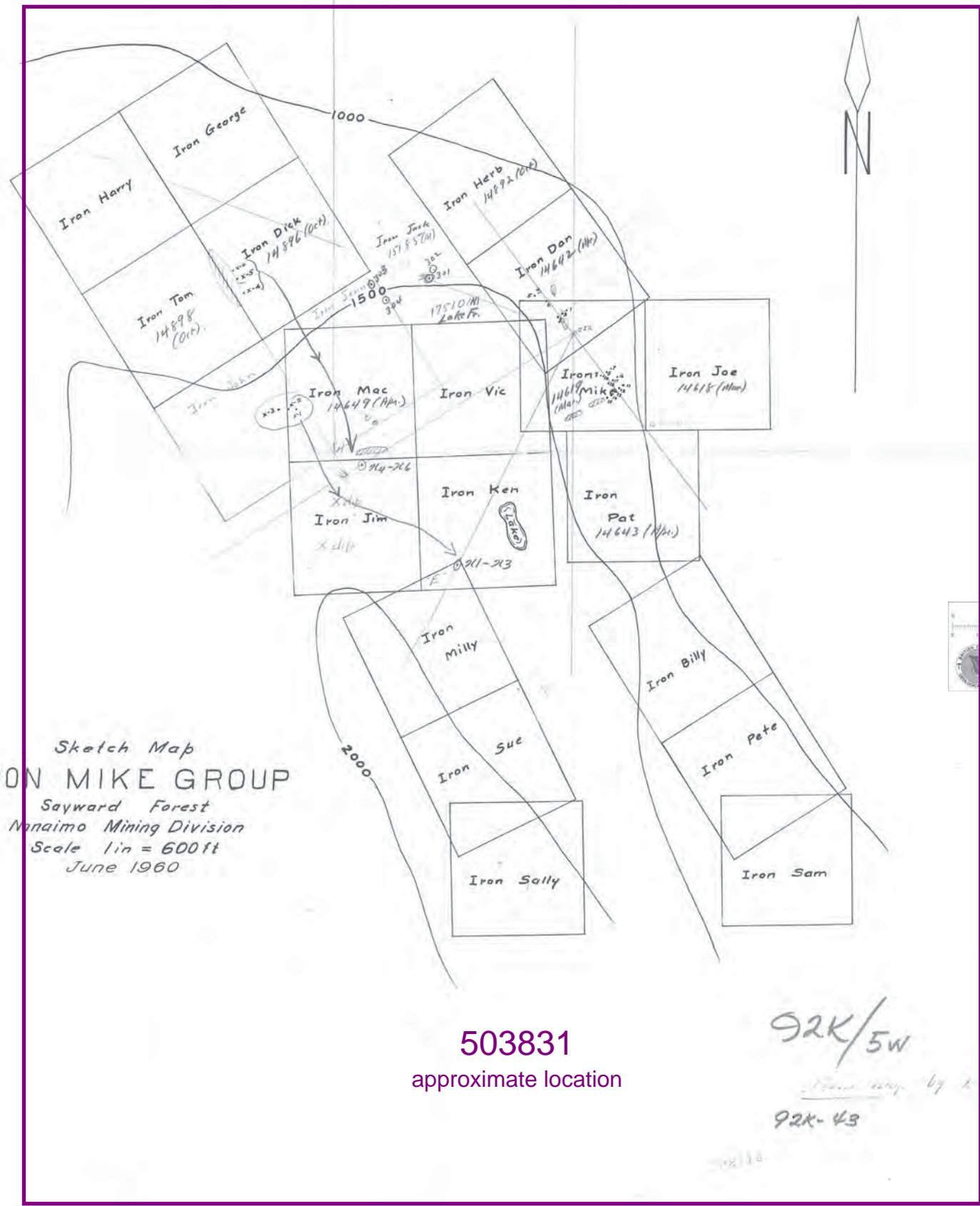


**Iron Ross Area Aeromagnetics**

**Figure 4**



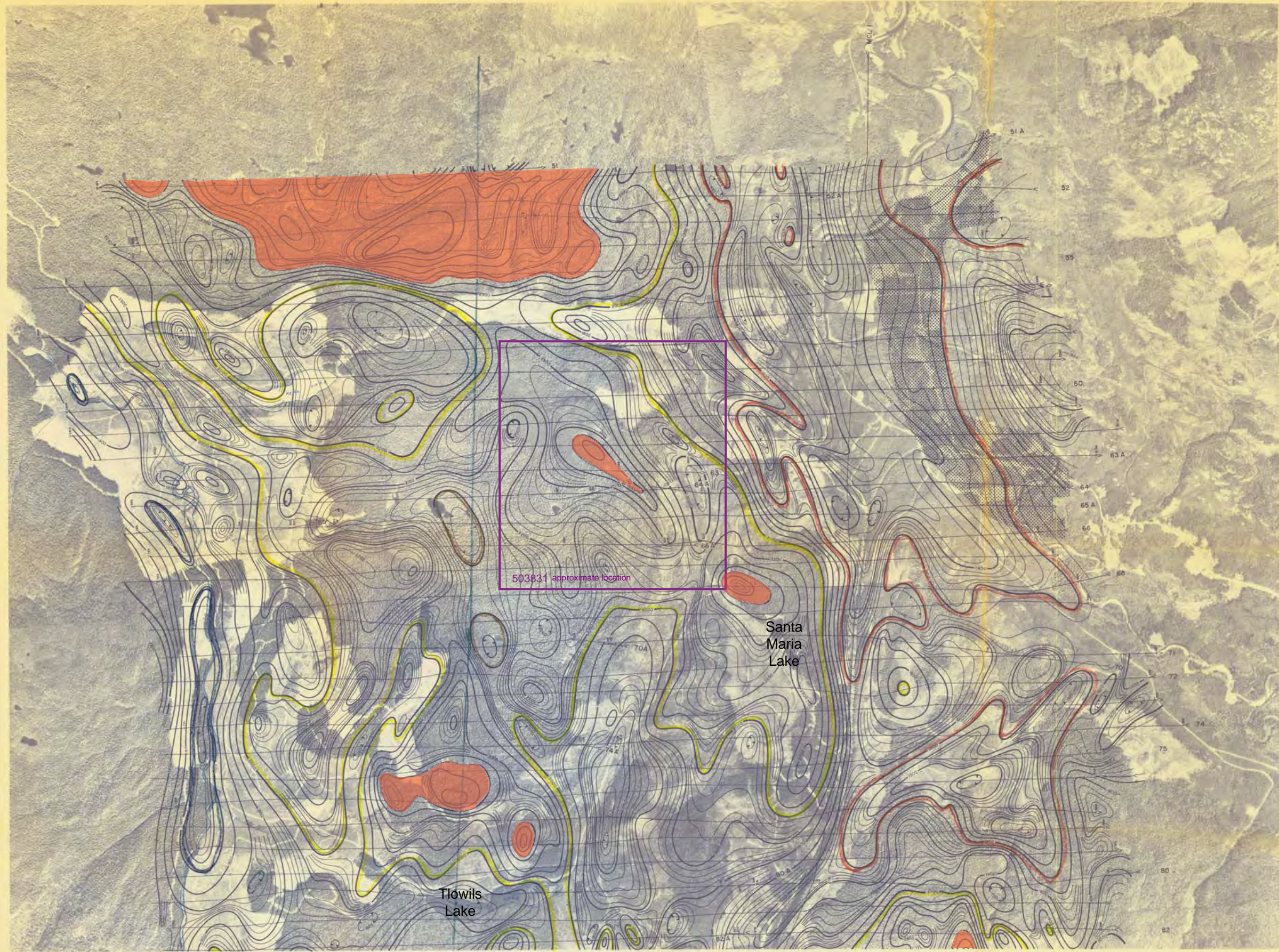




503831  
 approximate location

**Figure 5**  
 Property File  
 ID 34418





**LEGEND**

FLIGHT LINE NUMBER AND DIRECTION: ———→ 20

CONTROL POINT: \* 2434

MEAN FLIGHT LINE SPACING: 1000 FEET

MEAN FLIGHT ALTITUDE: 300 FEET

CONTOUR INTERVAL: 10 GAMMAS

500 GAMMA CONTOUR: ———


100 GAMMA CONTOUR: ———

50 GAMMA CONTOUR: ———

MAGNETIC LOW: ———

BASE VALUE: 55,000 GAMMAS

AREA WITH STRONG MAN-MADE ELECTROMAGNETIC EFFECTS: [wavy line symbol]

 +57500 gamma magnetic high anomalies



**Figure 6**

Property File ID 16470



**PLATE 10**  
**TEXADA MINES LTD.**  
 SAYWARD AREA, VANCOUVER ISLAND - B.C.  
**AIRBORNE GEOPHYSICAL SURVEY**  
 SCINTREX MAP - 2 MAGNETOMETER

SCALE - 1320 feet to 1 inch

Flown and Compiled 1973  
 by  
 SCINTREX SURVEYS LTD.







# Figure 7

ARIS 12102C P.17

LEGEND



DESCRIPTIVE NOTES

THE BELL AIRBORNE SYSTEM HELICOPTER IS EQUIPPED WITH A  
DETECTONIC 8000, BELL ENGINEERING SYSTEM AND AN 8000 1000  
100 DIGITAL RESOLUTION SYSTEM, A ROTATING BEAM ALTIMETER  
AND GEODOLITE CAMERA ARE USED FOR POSITIONING.

INTERPRETATION REFERENCES

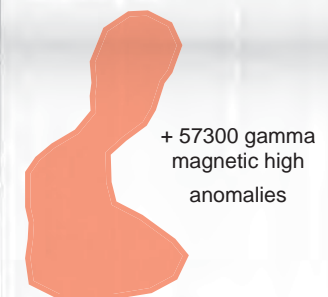
DRURY, F. A. AND WEST, G. F. 1968. INTERPRETATION THEORY IN  
APPLIED GEOPHYSICS-NEW YORK, McGRAW-HILL BOOKS, INC.,  
P. 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Scale: 1:15000

1 200 400 600 800 1000 1200 1400 1600 1800 2000

MAGNETIC DECLINATION: 12° 00' W

MAGNETIC INCLINATION: 72° 00' N



SYSTEM CONFIGURATION



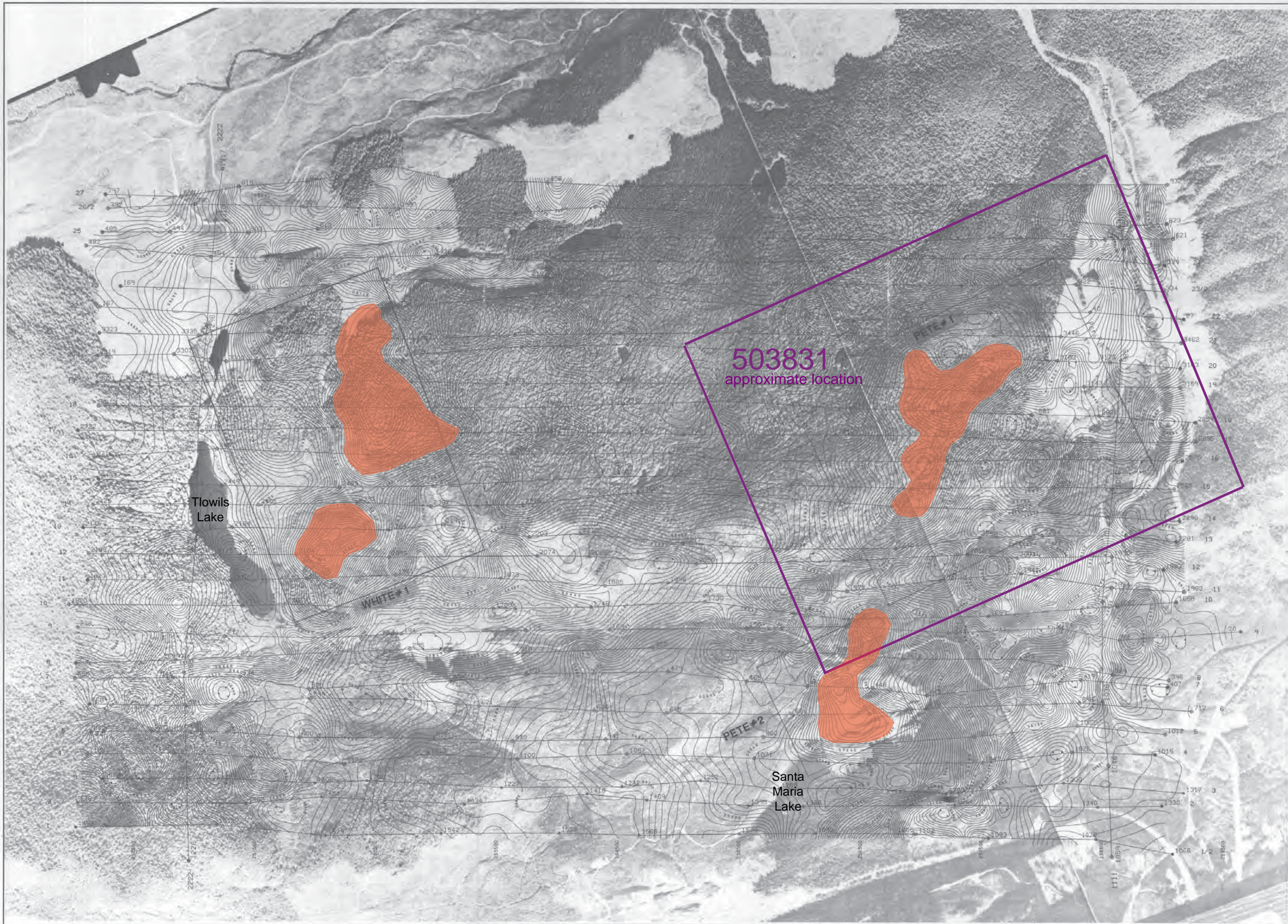
TO ACCOMPANY A REPORT BY A.P. SHELORAKE, DATED APRIL 23, 1969

Surveyed by: APEX AIRBORNE SURVEYS LTD.

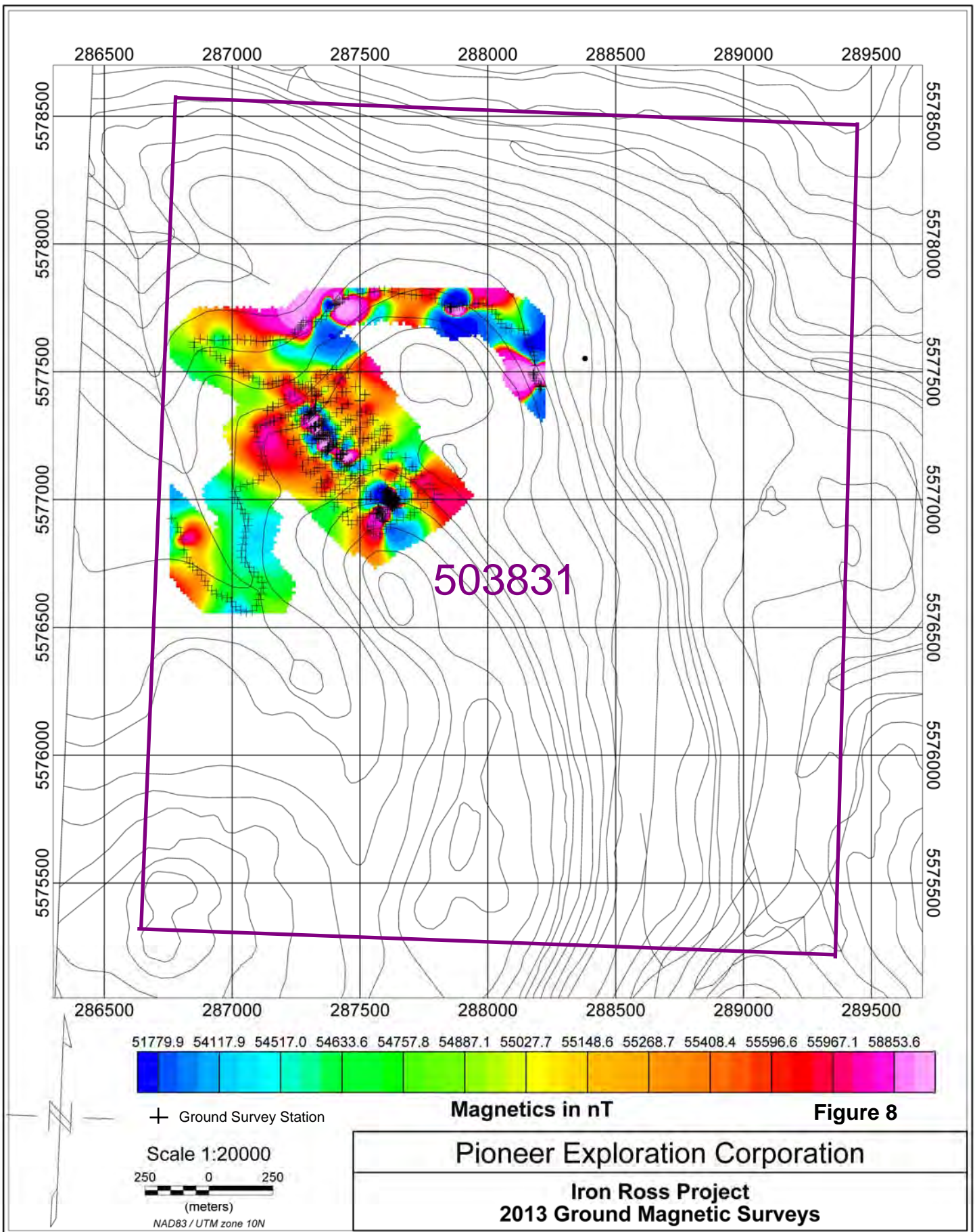
Compilation by: H. A. SIMONS / INTERNATIONAL LTD.

CAD INTERGRAPH

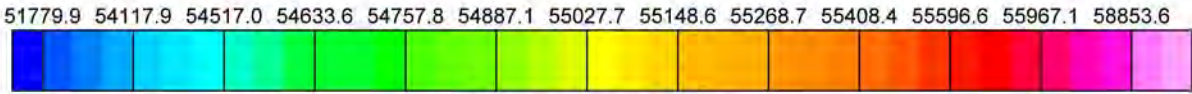
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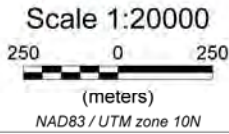




503831

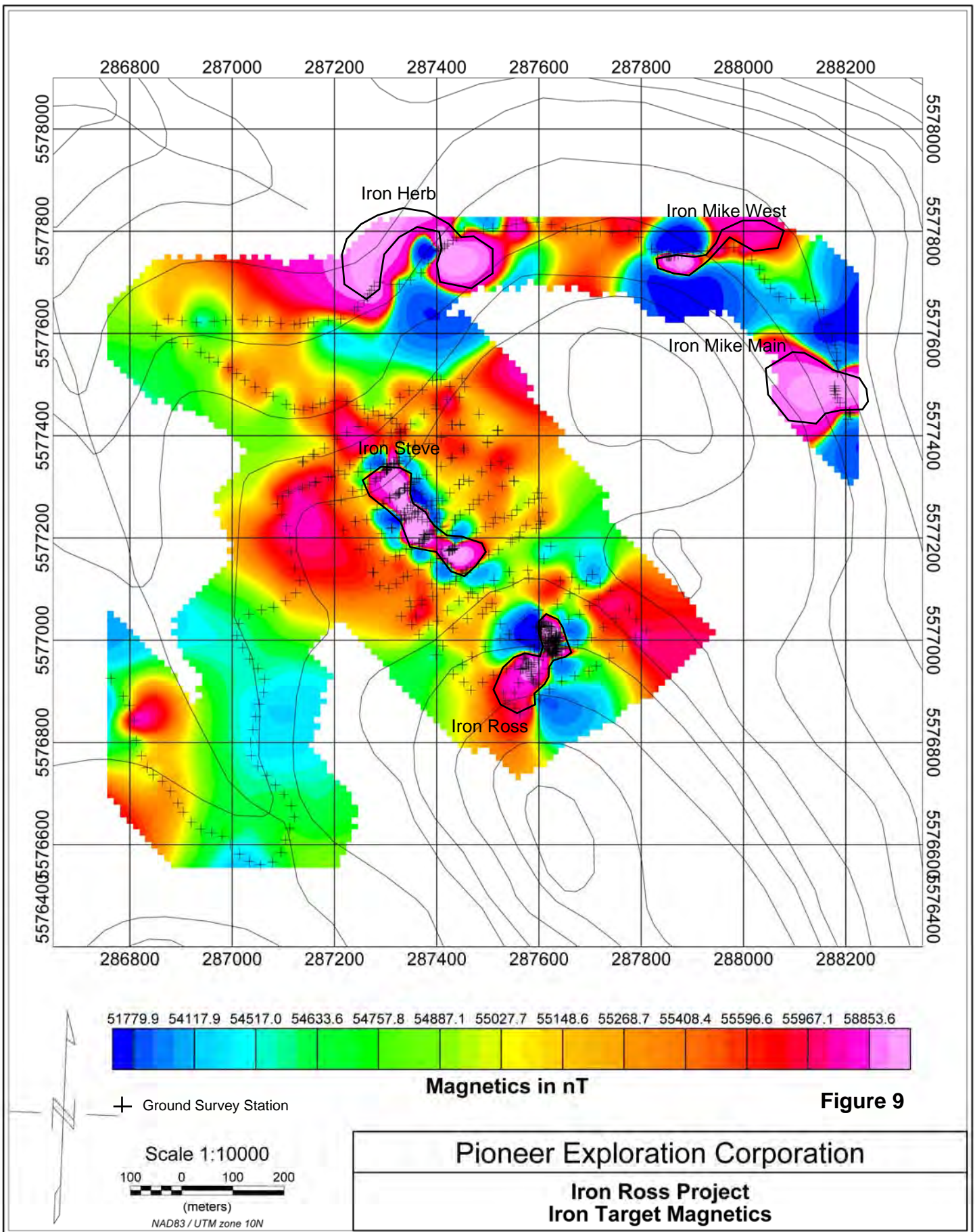


+ Ground Survey Station

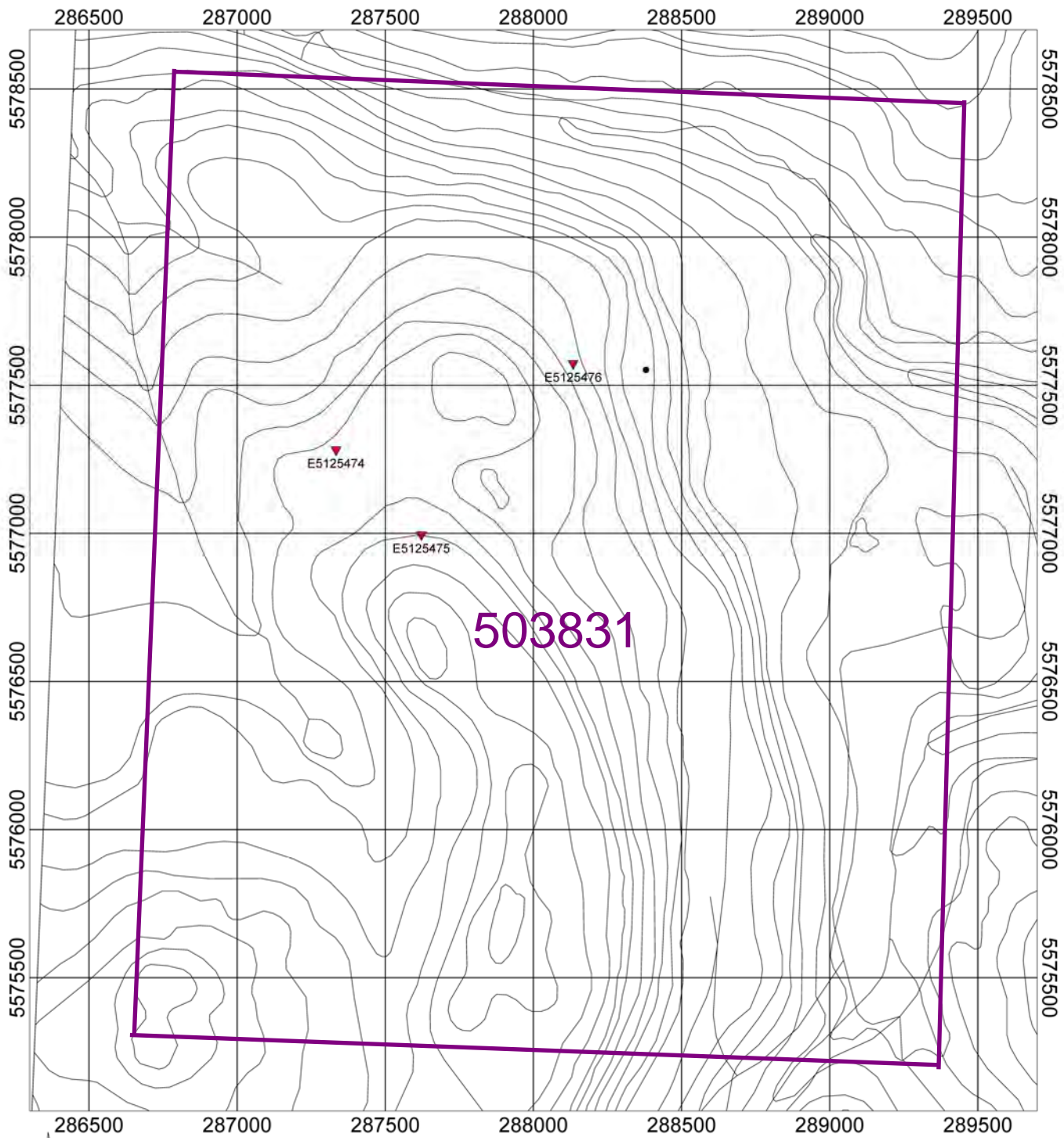


**Magnetics in nT** **Figure 8**

**Pioneer Exploration Corporation**  
**Iron Ross Project**  
**2013 Ground Magnetic Surveys**







Rock Sample Location



**Figure 10**

Scale 1:20000

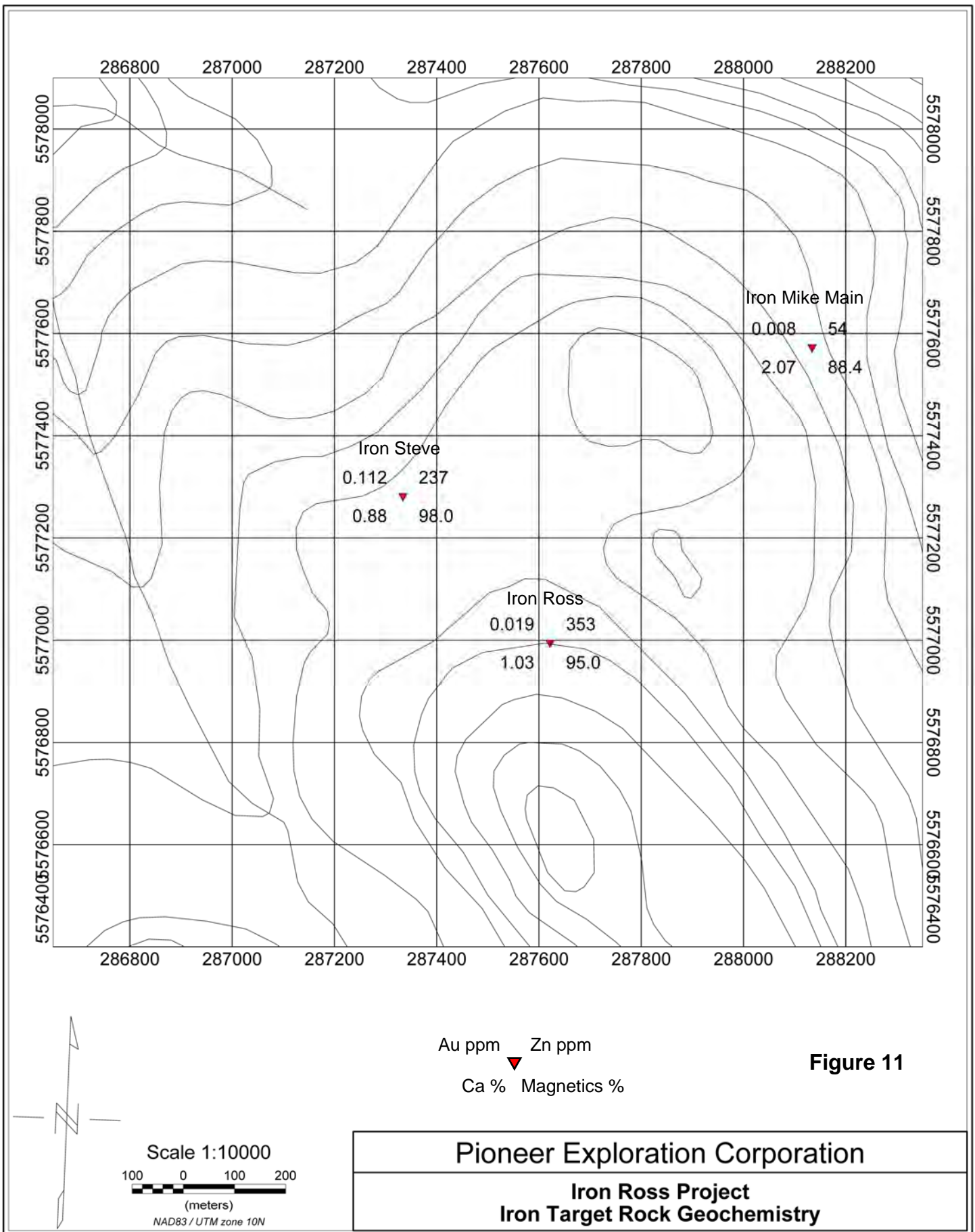


(meters)

NAD83 / UTM zone 10N

**Pioneer Exploration Corporation**

**Iron Ross Project  
2014 Rock Sample Locations**



**Appendix 1**  
**Geophysical Data**

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
28	287420.9	5577149	536	54684.36
28	287421.4	5577151	537	54681.5
28	287411.4	5577161	535	57083.25
28	287410.8	5577159	535	57021.95
28	287409.9	5577178	535	57050.98
28	287408.8	5577202	537	55783.33
28	287407	5577221	534	55500.42
28	287395.6	5577231	534	53689.43
28	287381.5	5577232	532	52483.26
28	287371.6	5577236	532	80000
28	287363.1	5577241	533	80000
28	287353.1	5577253	534	80000
28	287342.7	5577258	534	80000
28	287337.7	5577249	532	80000
28	287337.4	5577250	532	80000
28	287329.6	5577245	533	57804.59
28	287321.7	5577253	533	55619.81
28	287335.5	5577246	533	58754.08
28	287349.6	5577263	534	80000
28	287355.2	5577270	534	45889.82
28	287372.4	5577256	537	53201.08
28	287384	5577248	536	53468.71
28	287405.7	5577238	535	54293.7
28	287404.5	5577257	533	56257.31
28	287390.9	5577273	532	54333.35
28	287370.4	5577285	532	53358
28	287357.5	5577290	529	52851.64
28	287347.9	5577292	530	50069.18
28	287342.6	5577293	531	80000
28	287352.8	5577309	525	53774.8
28	287340.2	5577331	524	54574.44
28	287324.7	5577346	521	53686
28	287315.5	5577346	519	51750.39
28	287307.5	5577344	519	80000
28	287294.4	5577340	518	52065.32
28	287270.9	5577335	518	53528.58
28	287246.7	5577329	517	54893.14
28	287220.1	5577324	518	55066.93
28	287193.1	5577319	520	56389.53
28	287162.2	5577308	518	56119.75
28	287137.6	5577299	517	55645.38
28	287110.6	5577292	515	55853.63
28	287420.9	5577149	536	54684.36
28	287421.4	5577151	537	54681.5
28	287411.4	5577161	535	57083.25
28	287410.8	5577159	535	57021.95
28	287409.9	5577178	535	57050.98
28	287408.8	5577202	537	55783.33
28	287407	5577221	534	55500.42
28	287395.6	5577231	534	53689.43
28	287381.5	5577232	532	52483.26
28	287371.6	5577236	532	80000
28	287363.1	5577241	533	80000
28	287353.1	5577253	534	80000
28	287342.7	5577258	534	80000
28	287337.7	5577249	532	80000
28	287337.4	5577250	532	80000
28	287329.6	5577245	533	57804.59
28	287321.7	5577253	533	55619.81
28	287335.5	5577246	533	58754.08
28	287349.6	5577263	534	80000
28	287355.2	5577270	534	45889.82
28	287372.4	5577256	537	53201.08
28	287384	5577248	536	53468.71



Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
28	287405.7	5577238	535	54293.7
28	287404.5	5577257	533	56257.31
28	287390.9	5577273	532	54333.35
28	287370.4	5577285	532	53358
28	287357.5	5577290	529	52851.64
28	287347.9	5577292	530	50069.18
28	287342.6	5577293	531	80000
28	287352.8	5577309	525	53774.8
28	287340.2	5577331	524	54574.44
28	287324.7	5577346	521	53686
28	287315.5	5577346	519	51750.39
28	287307.5	5577344	519	80000
28	287294.4	5577340	518	52065.32
28	287270.9	5577335	518	53528.58
28	287246.7	5577329	517	54893.14
28	287220.1	5577324	518	55066.93
28	287193.1	5577319	520	56389.53
28	287162.2	5577308	518	56119.75
28	287137.6	5577299	517	55645.38
28	287110.6	5577292	515	55853.63
28	287139.1	5577351	512	55161.45
28	287138.2	5577348	503	55170.53
28	287158.4	5577363	507	55133.27
28	287160.5	5577364	508	55168.38
28	287180.6	5577376	504	55024.35
29	287205.3	5577393	495	55719.84
29	287224.3	5577406	504	56659.24
29	287246.8	5577418	500	55922.16
29	287265.5	5577434	506	55336.28
29	287286.7	5577439	500	55342.17
29	287308.9	5577462	509	54937.66
29	287312.8	5577434	507	55303.35
29	287327.3	5577412	514	55554.12
29	287327.2	5577386	519	55185.22
29	287323.1	5577357	519	54364.43
29	287328.2	5577475	517	55639.33
29	287346.1	5577488	523	55346.17
29	287372	5577490	529	55408.53
29	287372	5577490	529	55408.83
29	287392.1	5577508	523	54877.05
29	287408	5577510	538	54664.72
29	287425.9	5577496	530	55519.33
29	287444.2	5577475	539	55088.63
29	287419.7	5577471	536	56344.3
29	287398.8	5577460	536	55778.67
29	287399.2	5577453	530	55267.11
29	287375.6	5577443	527	55197.86
29	287349.2	5577423	543	54757.46
29	287338	5577412	514	55794.3
29	287329.8	5577405	510	56110.59
29	287311.1	5577406	510	55361.15
29	287295.6	5577382	508	55383.89
29	287278.8	5577366	506	55360.35
29	287254.1	5577357	505	55216.54
29	287230	5577343	516	55472.19
29	287207.8	5577331	512	55291.67
29	287188	5577320	516	55016.57
29	287164.6	5577310	525	55465.02
29	287192.4	5577266	535	55451.26
29	287213.1	5577273	543	55386.55
29	287235.9	5577291	538	55455.75
29	287253.8	5577294	526	54886.96
29	287265.4	5577305	527	54768.67
29	287279.7	5577311	524	59533.97

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
29	287281.5	5577316	528	59567.26
29	287290.2	5577319	519	57665.89
29	287297.9	5577328	520	51393.29
29	287301.3	5577331	519	45362.15
29	287302.9	5577332	518	46784.73
29	287302.1	5577334	517	46974.32
29	287304.6	5577336	517	80000
29	287303.7	5577335	517	80000
29	287309	5577338	517	80000
29	287311.2	5577341	518	80000
29	287316.9	5577344	518	51655.55
29	287320.2	5577347	518	53134.05
29	287327.4	5577351	519	54270.89
29	287302.3	5577345	518	52759.82
29	287296.8	5577344	517	53366.95
29	287317.1	5577344	519	51767.57
29	287326.4	5577350	518	54111.28
29	287348.2	5577359	530	55242.57
29	287347.6	5577359	532	55242.62
29	287357.6	5577378	534	55406.68
29	287357	5577382	539	55411.86
29	287357.5	5577381	540	55411.88
29	287385.4	5577384	537	55383.34
29	287385.5	5577384	537	55376.44
29	287408.8	5577397	545	55580.79
29	287408.8	5577397	546	55567.41
29	287429.6	5577421	539	55438.96
29	287430.4	5577421	539	55438.11
29	287445.9	5577422	549	55344.43
29	287446.3	5577421	549	55347.46
29	287454.5	5577496	598	55377.08
29	287449.7	5577512	618	55377.93
29	287519	5577410	547	55109.64
29	287519.9	5577411	547	55102.72
29	287499.4	5577387	542	55170.21
29	287499.5	5577386	543	55170.48
29	287482.6	5577442	700	55150.08
29	287453.6	5577372	546	55651.57
29	287452.7	5577376	552	55642.53
29	287428.1	5577355	542	55561.03
29	287430.3	5577357	544	55560.11
29	287408.6	5577340	538	55137.37
29	287380.2	5577323	537	54958.91
29	287365.4	5577315	526	54315.26
29	287360.8	5577317	529	54359.58
29	287355.5	5577309	528	53605.76
29	287349.2	5577305	533	50982.69
29	287348.9	5577305	534	51008.9
29	287342.3	5577298	531	43885.67
29	287338.5	5577298	531	43295.56
29	287337.4	5577297	530	43065.78
29	287336.6	5577297	530	80000
29	287328.2	5577289	531	80000
29	287327	5577287	532	80000
29	287325.7	5577287	531	80000
29	287324.4	5577286	530	80000
29	287321.7	5577285	530	43530.15
29	287319.6	5577283	531	58996.32
29	287308.6	5577278	529	54893.85
29	287307.5	5577279	530	54893.17
29	287294.7	5577267	532	55380.09
29	287296.4	5577267	533	55369.58
29	287283.4	5577255	540	55225.01
29	287263.3	5577236	546	55293.53

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
29	287240.9	5577232	544	55471.26
29	287240.6	5577232	543	55472.44
29	287217.8	5577216	540	55666.99
29	287250.2	5577178	544	55626.61
29	287267.2	5577187	547	55387.76
29	287291.9	5577208	545	55051.56
29	287311.7	5577219	545	54344.51
29	287312.6	5577220	547	54338.79
29	287331.6	5577235	533	51952.08
29	287331	5577235	532	51921.48
29	287341	5577236	531	80000
29	287338.4	5577239	534	43807.23
29	287338	5577236	534	45433.25
29	287346.1	5577238	532	80000
29	287350.8	5577241	533	80000
29	287356.5	5577246	535	80000
29	287358.4	5577249	535	80000
29	287364.8	5577253	536	55205.9
29	287363.4	5577251	534	58001.82
29	287372.4	5577258	537	52968.65
29	287379.6	5577261	537	53179.12
29	287390.6	5577264	544	53422.91
29	287403.2	5577278	539	54355.19
29	287410.8	5577273	540	54440.42
29	287425.7	5577288	541	55143.62
29	287444.3	5577304	546	55050.08
29	287443.8	5577305	546	55047.56
29	287452.7	5577315	545	55082.9
29	287463.3	5577311	549	55102.24
29	287463.5	5577311	549	55100.88
29	287488.3	5577329	549	55390.89
29	287505.8	5577342	551	55581.17
29	287525.6	5577350	552	55977.87
29	287540.9	5577336	546	55566.19
29	287550.9	5577312	542	54919.17
29	287551.7	5577311	541	54916.53
29	287528.1	5577301	548	55592.46
29	287501.5	5577283	547	55379.2
29	287482.8	5577275	544	55388.25
29	287471.5	5577266	542	55182.6
29	287464.2	5577255	541	55091.92
29	287445.7	5577245	543	54908.11
29	287436.4	5577235	534	54818.07
29	287435.6	5577235	536	54805.89
29	287430.6	5577214	540	54917.65
29	287419.6	5577205	539	55362.05
29	287410.9	5577223	537	54867.68
29	287397.5	5577216	539	54924.91
29	287394.2	5577214	539	54910.44
29	287390.7	5577212	538	55197.84
29	287385.7	5577208	539	56374.5
29	287385.4	5577208	540	56407.38
29	287382.5	5577208	538	59472.64
29	287376.5	5577206	540	80000
29	287374.5	5577206	542	80000
29	287380	5577206	539	80000
29	287382.5	5577206	535	63039.37
29	287377.5	5577203	543	80000
29	287375.4	5577197	544	80000
29	287375.7	5577196	540	73023.99
29	287376.1	5577196	539	73595.11
29	287373.2	5577193	539	64654.32
29	287371.5	5577190	538	59560.84
29	287371.4	5577183	541	57141.66

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
29	287366.2	5577190	539	57278.22
29	287365	5577191	542	57309.36
29	287352.4	5577186	543	55344.35
29	287350.5	5577178	546	55218.75
29	287340.2	5577179	544	55081.25
29	287327.7	5577166	551	55409.33
29	287319.6	5577164	546	55265.07
29	287297.7	5577155	548	55413.02
29	287276	5577133	544	55541.61
29	287275.5	5577132	544	55545.98
29	287288.9	5577106	546	55496.02
29	287306.1	5577101	548	55428.85
29	287321.2	5577110	556	55554.44
29	287335	5577123	553	55386.07
29	287342.8	5577126	553	55402.18
29	287364.4	5577138	547	55307.76
29	287388.1	5577152	541	55350.69
29	287407.6	5577159	539	55337.45
29	287407.5	5577165	539	55559.87
29	287430.2	5577178	538	80000
29	287430.7	5577179	538	54952.93
29	287431.2	5577178	538	80000
29	287431.4	5577177	538	80000
29	287430.1	5577176	538	80000
29	287427.8	5577176	541	80000
29	287425.2	5577175	543	61613.59
29	287422.9	5577175	542	61746.29
29	287422.9	5577175	542	61777.28
29	287424.3	5577175	542	80000
29	287430.5	5577178	539	80000
29	287435.6	5577180	545	54007.62
29	287434.3	5577180	544	53046.66
29	287436	5577183	541	55156.01
29	287449.4	5577192	545	55017.79
29	287477.6	5577210	540	54932.62
29	287495.2	5577222	541	55268.93
29	287510.8	5577229	541	55188.03
29	287514.9	5577240	541	55658.84
29	287532.1	5577239	540	55251.04
29	287546.7	5577244	538	55067.68
29	287556.8	5577255	538	54912
29	287579.8	5577269	529	55029.59
29	287591.2	5577276	529	54980.33
29	287597	5577288	529	55078.29
29	287605.1	5577278	526	55180.28
29	287606.9	5577250	523	55359.27
29	287603.2	5577232	524	55436.99
29	287603.4	5577227	523	55286.38
29	287594.8	5577219	526	55101.59
29	287575.2	5577225	526	55272.35
29	287563.2	5577212	529	54992.85
29	287560.9	5577202	537	54972.55
29	287547.8	5577197	530	55071.36
29	287544.4	5577192	535	55030.81
29	287520.7	5577177	530	54998.48
29	287502.1	5577167	534	55233.49
29	287482	5577150	539	54994.62
29	287466.2	5577142	538	55194.47
29	287459.8	5577137	540	55035.81
29	287459.4	5577132	536	55052.5
29	287456.7	5577134	534	55021.43
29	287450.3	5577131	536	54901.15
29	287447.3	5577130	537	54905.71
29	287437.3	5577115	535	54877.16

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
29	287425.8	5577110	543	55037.07
29	287415.2	5577100	545	55186.56
29	287392.2	5577086	536	55194.15
29	287371.3	5577078	538	55694.57
29	287347.3	5577077	541	55318.76
29	287349.8	5577065	541	55350.76
29	287330.9	5577047	538	55393.96
29	287351.4	5577030	544	55521.78
29	287360.2	5577046	540	56044.06
29	287371.8	5577070	541	56035.93
29	287390.5	5577110	540	55347.05
3	287480.5	5577082	539	54982.16
3	287491.5	5577103	535	55109.99
3	287512.1	5577117	528	54307.59
3	287542	5577134	521	54878.4
3	287578.1	5577137	520	55125.17
3	287609.6	5577159	515	54462.67
3	287622.7	5577184	513	54508.51
3	287679.9	5577164	516	54525.19
3	287664.5	5577123	519	54857.96
3	287641.8	5577116	519	55762.09
3	287580.1	5577122	521	55049.53
3	287549.8	5577113	524	55010.38
3	287515.1	5577095	533	54911.56
3	287508.1	5577072	536	55457.21
3	287515.6	5577056	538	55011.74
3	287489.7	5577051	538	55231.4
3	287460	5577042	550	55054.67
3	287431.7	5577023	559	55303.69
3	287412.3	5576989	568	55016.82
3	287399.3	5576971	561	54544.7
3	287365.3	5577011	555	55105.03
3	287383.9	5577029	558	54967.48
3	287402.4	5577037	557	55266.93
3	287420.8	5577058	553	54914.68
3	287443.4	5577077	551	54950.47
3	287461.7	5577083	539	55207.89
3	287469.7	5577091	538	54900.34
3	287542.6	5577011	543	53023.74
3	287571.5	5577041	528	52288.57
3	287599.1	5577059	527	54788.31
3	287636.1	5577070	522	55280.58
3	287660.2	5577091	522	54748.11
3	287678.7	5577101	524	55050.59
3	287693.1	5577116	523	54419.93
3	287704.7	5577129	521	53619.91
3	287719.7	5577112	525	54446.48
3	287740.2	5577096	523	55783.06
3	287716.9	5577080	530	55791.08
3	287699.1	5577067	532	55732.94
3	287679.7	5577050	529	54821.04
3	287658.3	5577041	521	55160.04
3	287642.8	5577015	529	54957.85
3	287638.9	5577013	532	55429.73
3	287633.4	5577011	533	60607.95
3	287632.2	5577007	533	80000
3	287634.2	5577009	532	80000
3	287634.4	5577009	533	58918.37
3	287635.4	5577005	530	58004.26
3	287633	5577004	532	80000
3	287629.2	5577002	532	80000
3	287627.1	5577001	534	80000
3	287627.4	5577000	534	80000
3	287625.1	5576999	535	80000

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
3	287622.2	5576997	536	80000
3	287618.5	5576994	537	80000
3	287615.5	5576988	537	55069.51
3	287610.3	5576984	538	54236.68
3	287605	5576984	538	56339.83
3	287610.9	5576982	537	55037.08
3	287615.9	5576980	537	56898.34
3	287620.8	5576978	536	57800.45
3	287625.1	5576975	536	62536.05
3	287628.7	5576973	536	61450.66
3	287632.8	5576972	536	55610.38
3	287636.7	5576969	536	54716.8
3	287621.5	5576981	537	56189.98
3	287619.8	5576982	537	57077.61
3	287618.3	5576985	537	56965.94
3	287619.6	5576989	536	80000
3	287619.6	5576987	536	59342.25
3	287621.4	5576992	536	80000
3	287624.3	5576995	535	80000
3	287626.4	5576999	535	80000
3	287632.8	5577001	531	80000
3	287638.3	5577004	528	80000
3	287640.9	5577006	531	54967.16
3	287639.6	5577007	531	55702.73
3	287639.2	5577003	529	54362.38
3	287637.7	5577000	529	80000
3	287639.5	5577000	529	53500.06
3	287637.9	5576996	531	51433.63
3	287636.7	5576998	530	52575.88
3	287632.3	5576998	534	50129.07
3	287632.2	5576998	534	80000
3	287632.8	5576995	532	46958.73
3	287632.8	5576996	530	44484.78
3	287632.2	5576996	531	41182.26
3	287634.7	5576995	531	42586.75
3	287633.7	5576992	531	42724.65
3	287631.3	5576992	532	47686.78
3	287630	5576990	531	48266.6
3	287631.1	5576988	534	49898.74
3	287629.7	5576985	533	50675.09
3	287628.4	5576984	534	80000
3	287627.4	5576984	534	52718.24
3	287627.7	5576982	534	80000
3	287627.3	5576979	535	80000
3	287627.1	5576976	536	80000
3	287627.1	5576974	536	80000
3	287626.8	5576974	536	65134.02
3	287627.2	5576977	536	80000
3	287625.9	5576973	536	60118.56
3	287626.5	5576972	537	58045.02
3	287625.7	5576970	538	55474.86
3	287623.8	5576969	539	55764.1
3	287615.7	5576993	536	54818.99
3	287617.3	5576997	537	60050.67
3	287617.4	5576999	538	65567.63
3	287617.2	5577001	538	80000
3	287617.8	5577003	539	80000
3	287619.4	5577005	539	80000
3	287622	5577006	539	80000
3	287620.3	5577011	539	80000
3	287623.6	5577013	537	80000
3	287624.5	5577017	535	80000
3	287624.7	5577019	536	80000
3	287624.4	5577022	535	52473.21

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
3	287625.1	5577024	535	80000
3	287624.1	5577026	535	52165.9
3	287621.1	5577027	533	52603.04
3	287618.9	5577028	535	52189.83
3	287617.4	5577026	535	52993.5
3	287615.2	5577025	535	80000
3	287612.7	5577028	537	80000
3	287612.8	5577030	537	51268.34
3	287610.4	5577032	535	80000
3	287609	5577035	535	53827.91
3	287608.2	5577037	534	55177.91
3	287606	5577037	536	55024.16
3	287605.3	5577034	537	52887.59
3	287606	5577031	537	80000
3	287605.1	5577031	538	80000
3	287604.1	5577029	539	80000
3	287602.7	5577027	535	80000
3	287601.2	5577027	534	80000
3	287597.5	5577026	535	46277.41
3	287594.5	5577026	536	47654.51
3	287599.7	5577026	537	46894
3	287601.5	5577025	538	46972.4
3	287604.8	5577024	539	80000
3	287604.9	5577020	540	80000
3	287603.5	5577019	539	80000
3	287602.6	5577017	537	47017.28
3	287602.1	5577015	541	46893.49
3	287603.5	5577012	538	80000
3	287604	5577008	538	55398.22
3	287605.3	5577006	540	62985.1
3	287608.3	5577005	540	57196.55
3	287611.6	5577003	541	58146.61
3	287613.1	5577000	540	59580.94
3	287612.6	5576995	540	53855.56
3	287613.3	5576989	540	53639.51
4	287582.2	5576987	540	51985.26
4	287540.8	5577011	540	53392.06
4	287524.1	5577003	559	54119.98
4	287495	5576988	563	54836.08
4	287468.8	5576968	573	55237.05
4	287450.5	5576952	579	54815.29
4	287432.4	5576933	586	55065.39
4	287453.4	5576918	593	55084.05
4	287467	5576902	594	55082.05
4	287489.8	5576917	590	55409.55
4	287511	5576931	585	55463.49
4	287536.8	5576944	570	55568.92
4	287552.5	5576948	557	55485.76
4	287571.5	5576969	546	57262.19
4	287591.3	5576987	540	45109.38
4	287616.4	5576977	540	57123.11
4	287608.1	5576968	539	58407
4	287598.9	5576961	543	59491.54
4	287590.6	5576956	544	60795.3
4	287584.8	5576952	546	61936.17
4	287580	5576949	547	62645.85
4	287576	5576947	548	61685.33
4	287573.2	5576945	549	60815.01
4	287569.3	5576945	549	59867.42
4	287567.5	5576944	551	59054.78
4	287565.2	5576943	553	58864.62
4	287563.9	5576943	552	58754.23
4	287579.1	5576954	547	60917.3
4	287576.7	5576957	548	60155.55

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
4	287574.7	5576961	548	59450.96
4	287572.8	5576963	548	58660.39
4	287569.8	5576965	547	57329.82
4	287585.2	5576946	546	62036.62
4	287584.9	5576942	548	61056.24
4	287585.3	5576939	548	60640.86
4	287584.7	5576934	550	60520
4	287584.3	5576929	551	60259.83
4	287587.2	5576924	549	59799.29
4	287588.5	5576921	549	58304.11
4	287590	5576917	552	57641.21
4	287594.2	5576915	553	56521.23
4	287598.9	5576913	554	55418.5
4	287644.3	5576966	535	54487.81
4	287617.9	5576945	548	55425.18
4	287599.2	5576935	549	57543.35
4	287560.1	5576916	564	58167.69
4	287552.4	5576897	576	56674.08
4	287530.2	5576895	585	56156.47
4	287533.8	5576882	590	55979.84
4	287541.3	5576874	592	56018.89
4	287552.9	5576866	584	55651
4	287562.9	5576855	584	56305.92
4	287578.9	5576867	577	56430.28
4	287602.4	5576884	559	52585.63
4	287619.8	5576904	558	54064.28
4	287644.4	5576919	542	54904.61
4	287670.1	5576930	543	54599.69
4	287697.5	5576939	531	54920.23
4	287712.2	5576950	533	54502.67
4	287737.4	5576965	529	55333.17
4	287763.8	5576988	524	55154.88
4	287789.3	5577005	516	56405.49
4	287810.6	5577019	515	55920.02
4	287790	5577041	520	55783.83
4	287776.3	5577061	529	55886.04
4	287750.7	5577043	526	55831.84
4	287726.1	5577025	532	55579.61
4	287702.8	5577005	534	55246.21
4	287676.2	5576991	531	54544.65
4	287659.8	5576983	532	54795.54
4	287652.2	5576987	533	54516.85
4	287644.9	5576984	531	53588.84
4	287639.2	5576982	526	80000
4	287642	5576983	529	53256.22
4	287636.4	5576982	533	52429.81
4	287635.4	5576980	531	51868.31
4	287634.1	5576978	532	52938.14
4	287632.8	5576977	535	53984.32
4	287632.1	5576976	537	55176.28
4	287562.2	5577001	543	50288.72
4	287524.3	5577032	541	54254.35
4	287496.6	5577064	536	55196.89
4	287466.1	5577094	535	54876.54
4	287438.2	5577125	536	54737.43
4	287428.6	5577142	537	54502.04
4	287325.6	5577369	515	54821.87
4	287330.1	5577391	514	55589.06
4	287329.5	5577407	513	55737.12
4	287321.6	5577423	509	55334.56
4	287310	5577434	503	55317.4
4	287298.6	5577440	501	55101.75
4	287275.5	5577448	496	55180.54
4	287258.9	5577452	493	54830.64



Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
4	287243.6	5577459	491	55152.23
4	287224.8	5577467	488	55562.53
4	287200.3	5577468	484	55722.26
4	287181.6	5577465	480	55049.73
4	287172.6	5577462	480	55123.4
4	287157.6	5577455	477	55488.37
4	287140.2	5577450	476	55540.11
4	287122	5577452	475	55090.24
4	287106.2	5577461	473	54872.31
4	287080.3	5577477	469	54877.05
4	287066.4	5577484	466	55319.92
4	287045.1	5577496	463	55460.6
4	287025.1	5577509	460	55144.58
4	287009	5577522	458	55193.87
4	286992.1	5577534	456	55690.96
4	286972.7	5577544	454	54792.85
4	286955	5577553	451	55000.7
4	286938.7	5577563	450	54767.45
4	286913.1	5577580	446	55130.55
4	286881.9	5577582	442	54683.03
4	286850.7	5577595	435	54868.64
4	286852.5	5577616	434	54912.57
4	286875.2	5577629	432	55229.54
4	286902.1	5577625	430	55000.02
4	286930.4	5577622	427	54503.4
4	286965.1	5577624	424	54707.13
4	286987.9	5577626	424	54830.69
4	287020.5	5577627	424	55314.51
4	287049.1	5577624	423	55224.66
4	287073.4	5577623	421	55080.89
4	287095.4	5577619	419	55560.87
4	287121.4	5577617	416	55311.89
4	287133.2	5577620	415	55475.31
4	287148.7	5577621	415	55076.24
4	287159.7	5577623	415	54932.83
4	287188.2	5577625	416	54725.1
4	287212.5	5577628	413	55257.79
4	287238.9	5577646	410	56160.87
4	287245.6	5577652	410	57034.56
4	287258	5577665	410	59600.9
4	287264.6	5577670	410	61211.01
4	287268.8	5577678	411	63464.75
4	287272.5	5577685	412	66505.88
4	287277.8	5577693	412	61286.22
4	287289.3	5577700	413	59109.05
4	287310.4	5577696	414	55397.59
4	287326.8	5577696	417	54261.09
4	287348.8	5577705	420	54617.02
4	287369.2	5577719	420	54823.21
4	287384	5577737	422	54687.3
4	287400.2	5577761	425	51529.62
4	287415.6	5577771	425	80000
4	287410.7	5577768	423	80000
4	287407	5577765	424	80000
4	287403.5	5577763	424	51781.08
4	287421.3	5577775	426	64762.63
4	287431.8	5577782	426	55948.66
4	287439.1	5577788	427	55051.3
4	287453.9	5577800	427	55582.08
4	287491.4	5577804	426	54146.19
4	287510.1	5577806	427	54143.66
4	287537.6	5577811	426	55948.51
4	287555.8	5577814	428	58119.44
4	287575.5	5577817	429	54836.55

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
4	287596.3	5577818	432	54738.99
4	287624.8	5577813	428	55806.8
4	287652.3	5577806	426	55400.72
4	287674.9	5577804	426	55319.02
4	287701.5	5577802	424	55339.03
4	287719.9	5577800	425	55274.69
4	287743.2	5577798	423	55666.9
4	287776	5577802	420	55849.78
4	287795.1	5577788	419	55400.03
4	287820	5577765	418	54234.51
4	287831.9	5577759	419	51518.99
4	287841.2	5577755	420	52228.51
4	287853.7	5577752	420	80000
4	287849.2	5577751	420	56236.93
4	287851.5	5577751	420	59803.1
4	287853.4	5577751	419	64088.06
4	287855.4	5577751	419	65016.69
4	287857	5577751	419	62045.77
4	287859	5577752	419	57376.27
4	287864.7	5577753	419	40775.58
4	287871.8	5577755	419	80000
4	287879.6	5577757	418	43257.55
4	287889.2	5577760	417	49426.88
4	287901.3	5577760	416	50756.17
4	287917	5577761	414	52937.72
4	287929.2	5577761	413	55753.62
4	287948.4	5577765	410	56784.47
4	287963.7	5577768	410	55615.29
4	287981.4	5577769	405	54748.37
4	287999.7	5577759	404	56479.98
4	288015.9	5577744	405	54790.44
4	288031.1	5577725	406	54405.08
4	288040.9	5577706	402	55263.59
4	288052.4	5577688	398	54356.75
4	288069.6	5577672	396	53842.03
4	288092.7	5577669	393	54321.01
4	288121	5577669	390	54694.8
4	288140.6	5577663	386	54546.6
4	288157.3	5577647	387	54368.44
4	288164.5	5577617	386	48550.3
4	288173.5	5577595	380	49275.33
4	288179.3	5577578	379	52888.55
4	288182	5577562	376	53842.28
4	288182.1	5577546	374	53377.19
4	288182.4	5577546	375	53385.61
4	288184.1	5577524	369	53780.99
4	288178	5577497	370	80000
4	288178.5	5577492	371	80000
4	288180.5	5577487	373	80000
4	288177.2	5577488	373	80000
4	288179.1	5577481	373	60111.41
4	288183.6	5577474	375	58989.01
4	288188.6	5577465	377	60501.99
4	288199.4	5577450	384	59107.05
4	288209.6	5577441	384	55393.17
4	288200.8	5577443	371	54443.53
4	288204.5	5577432	369	54489.2
4	288208.2	5577444	383	55647.55
4	288208.1	5577444	386	55704.39
4	288206.8	5577445	383	55874.29
5	286763.3	5576925	501	54612.88
5	286787.1	5576891	503	54849.53
5	286798.5	5576872	504	54789.53
5	286808.9	5576843	503	56584.45

Iron Ross-Mike Survey Data

Area	X	Y	Elevation	nT
5	286812.6	5576804	499	54718.94
5	286822.8	5576774	499	55102.31
5	286834.1	5576751	498	55158.37
5	286845.8	5576737	499	54932.06
5	286863.7	5576724	498	55326.4
5	286879.4	5576705	498	55240.42
5	286894.2	5576681	498	55236.78
5	286904.7	5576663	496	55136.89
5	286920	5576644	495	54927.84
5	286939	5576630	493	54799.65
5	286960	5576623	490	54591.83
5	286981.1	5576616	491	54781.08
5	286996.5	5576600	490	54517.61
5	287014.6	5576581	490	54436.15
5	287034.1	5576567	490	54382.07
5	287055.5	5576561	491	54453.05
5	287078.9	5576566	492	54586.62
5	287096	5576585	492	54730.73
5	287104	5576609	494	54787.35
5	287112.6	5576631	495	54753.56
5	287122	5576654	494	54582.04
5	287116.5	5576676	494	54716.12
5	287101.2	5576698	496	54626.85
5	287084.8	5576716	496	54550.93
5	287067.5	5576735	497	54554.54
5	287050.5	5576753	497	54480.15
5	287037.4	5576774	499	54499.45
5	287036.3	5576800	499	54467.43
5	287040.5	5576825	500	54460.55
5	287046	5576850	499	54431.3
5	287053.2	5576875	499	54389
5	287061.7	5576898	498	54484.33
5	287063.4	5576924	497	54534.28
5	287050.4	5576945	498	54571.09
5	287034.6	5576963	499	54562.55
5	287020.6	5576985	501	54547.88
5	287009.3	5577009	503	54540.24
5	287013.1	5577032	505	54598.4
5	287032.8	5577051	505	54649.6
5	287057.5	5577059	505	54864.44
5	287081.1	5577064	507	54848
5	287104	5577077	509	55285.09
5	287124.3	5577093	511	55252.5
5	287132.5	5577116	510	55644.61
5	287122.6	5577142	513	55816.67
5	287114.7	5577172	515	55903.57
5	287112.6	5577201	518	56076.45
5	287105.7	5577223	521	56390.69
5	287097.6	5577245	521	55770.47
5	287088.5	5577267	520	55389.77
5	287098.2	5577282	517	56128.49
5	287111	5577288	517	56037.6
5	287130.8	5577295	518	56231.67
5	287150.8	5577303	519	56305.04
Steve	287313.7	5577309	532	ore point
Ross	287589.2	5576964	529	ore point
Bethea	287771	5576817	525	ore point
Herb I	287453.7	5577830	420	ore point
Herb II	287274.8	5577693	420	ore point
Main Pit	288130.1	5577573	380	ore point
West Pit	287926.8	5577725	380	ore point

## **Appendix 2**

### **Sample and Geochemistry Data**

Rock Sample Locations for Iron Ross Project									
Sample #	Date	Sampler	Property	Location	Details	UTM Zone	Easting	Northing	Elevation
E5125474	8-Jun-14	J. Houle	Iron Ross	Iron Steve deposit test pit floor - random outcrop grab	est. 6 m. thick Fe Skarn @ 145/20 cut by 20% dikes @ 270/50; 90% m.q.-c.q. Mt, 5% Calcite clusters, 5% FeOx	10N	287334	5577282	522
E5125475	8-Jun-14	J. Houle	Iron Ross	Iron Ross deposit trenched surface exposure - random outcrop grab	est. 3 m.+ thick Fe Skarn @ 155/30; 95% f.g.-m.g. Mt, 5% garnets	10N	287622	5576995	538
E5125476	8-Jun-14	J. Houle	Iron Ross	Iron Mike deposit old open pit north face - random outcrop grab	est. 15 m. thick Fe Skarn @ 290/05; 95% Mt, 5% garnets	10N	288134	5577573	370



<b>Rock Sample Geochemistry Highlights for Iron Ross Project</b>									
Sample #	Easting	Northing	Elevation	Au (ppm)	Zn (ppm)	Ca (%)	Fe (%)	Magnetic (%)	S (%)
E5125474	287334	5577282	522	0.112	237	0.88	>50	98.00	<0.01
E5125475	287622	5576995	538	0.019	353	1.03	>50	95.00	<0.01
E5125476	288134	5577573	370	0.008	53.5	2.07	>50	88.40	<0.01



## Chain of Custody Record - Mining

P: 905.501.9998 • F: 905.501.0589

**Report To**  
 Company: Pioneer Exploration Corporation  
 Contact: Vincent Li  
 Address: PO Box 17535 The Ritz PO  
 Vancouver BC V6E 0B2  
 Phone: 604-336-7666 Fax: 604-425-0776  
 AGAT Quote #: 48108KBa  
 Client Project #: Iron Ross

**Report Information**  
 Name: Vincent Li  
 Email: vincent.li@dehua.ca  
**Analysis Authorization**  
 Name: Jacques Houle  
 Email: jhoule06@shaw.ca

**Report Format**  
 Single Package per page  
 Multiple Packages per page  
 Excel Format Included

**Laboratory Use Only**  
 Arrival Condition:  Good  Poor (complete notes)  
 AGAT WO#: \_\_\_\_\_  
 Received: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Turnaround Time Required (TAT)**  
 Regular TAT  Rush TAT  
*Rush surcharges may apply*

**Material Matter**  
 Drill Core  Pulp  
 Rock  Water  
 Till/Soil/Silt  Other (specify below)  
 Concentrate \_\_\_\_\_

**Invoice To** Same Yes  / No   
 Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO#: \_\_\_\_\_

**AGAT Analysis Method**

Sample Sequence Number	Quantity	202-052	201-071	201-349	201-072 (if required)															
From	To																			
E5125474	E5125476	3	✓	✓	✓															
<b>Total</b>		<b>Samples</b>	<b>3</b>																	

**Grade**  Trace  Ore

**Sample Preparation**  
 No Prep Required - Run as Received  
 AGAT Sample Prep Code (specify below)  
 226-001  
 Other \_\_\_\_\_

**Sample Storage**  
*(Pulp and Reject Material Handling Upon Analysis Completion)*  
 Return to Client  
 Discard Material  
 Store Reject for 60 days (and return to client)  
 Store Pulp for 90 days (and return to client)  
 Store beyond 60/90 days (Storage fees apply)

**Courier**  
 Print Name \_\_\_\_\_  
 Date \_\_\_\_\_  
 Page 1 of 1

Samples Relinquished by (print name & sign):  
 Jacques Houle / Victor Zhou / Ricky Huang  
 Date/Time: 23-June-29014  
 Samples Received by (print name & sign):  
 Date/Time: \_\_\_\_\_

**Special Instruction**



CLIENT NAME: PIONEER EXPLORATION CORPORATION  
1450-1177 HASTINGS STREET  
VANCOUVER, BC V6E2K3  
(604) 336-7666

ATTENTION TO: Vincent Li

PROJECT NO: Iron Ross

AGAT WORK ORDER: 14V857173

SOLID ANALYSIS REVIEWED BY: Ron Cardinall, Certified Assayer - Director - Technical Services (Mining)

DATE REPORTED: Jul 10, 2014

PAGES (INCLUDING COVER): 9

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 14V857173

PROJECT NO: Iron Ross

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

### (201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Jun 27, 2014

DATE RECEIVED: Jun 25, 2014

DATE REPORTED: Jul 10, 2014

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5125474 (5521257)		0.07	0.25	20.3	<1	0.06	0.79	0.88	0.04	0.26	30.7	<0.5	0.04	<0.2	>50
E5125475 (5521258)		0.05	0.28	39.6	<1	0.14	0.07	1.03	0.13	0.19	45.2	<0.5	0.04	1.9	>50
E5125476 (5521259)		0.05	0.52	3.2	<1	0.36	0.02	2.07	0.07	0.05	48.9	<0.5	0.04	0.5	>50
Sample ID (AGAT ID)	Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5125474 (5521257)		6.71	0.47	<0.1	0.148	<0.01	<0.5	1.0	0.01	2050	0.63	0.01	0.4	<0.2	52
E5125475 (5521258)		10.7	0.46	<0.1	0.072	<0.01	<0.5	1.3	0.11	2440	0.51	0.01	0.3	<0.2	76
E5125476 (5521259)		21.5	0.42	<0.1	0.036	0.02	<0.5	0.9	0.39	1420	0.33	0.04	0.4	67.3	60
Sample ID (AGAT ID)	Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5125474 (5521257)		1.4	0.2	<0.002	<0.01	0.65	0.5	<0.5	0.5	10.3	<0.05	0.02	<0.1	0.01	<0.01
E5125475 (5521258)		1.1	0.1	<0.002	<0.01	1.02	0.3	<0.5	0.3	4.6	<0.05	<0.01	<0.1	<0.01	<0.01
E5125476 (5521259)		0.9	0.2	0.002	<0.01	0.31	0.2	<0.5	0.3	7.5	<0.05	<0.01	<0.1	<0.01	<0.01
Sample ID (AGAT ID)	Analyte:	U	V	W	Y	Zn	Zr								
	Unit:	ppm	ppm	ppm	ppm	ppm	ppm								
	RDL:	0.005	0.5	0.1	0.1	0.5	0.5								
E5125474 (5521257)		1.32	1.2	0.8	1.0	237	2.6								
E5125475 (5521258)		0.512	<0.5	0.3	0.2	353	2.5								
E5125476 (5521259)		0.421	2.9	0.3	1.7	53.5	1.7								

Comments: RDL - Reported Detection Limit

5521257-5521259 As, Sb values may be low due to digestion losses.

Certified By:

*Ron Cardinal*



# Certificate of Analysis

AGAT WORK ORDER: 14V857173

PROJECT NO: Iron Ross

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

## (201-249) Davis Tube (ADTRS) - Magnetic Separation

DATE SAMPLED: Jun 27, 2014

DATE RECEIVED: Jun 25, 2014

DATE REPORTED: Jul 10, 2014

SAMPLE TYPE: Rock

	Analyte:	Magnetics
	Unit:	%
Sample ID (AGAT ID)	RDL:	0.01
E5125474 (5521257)		98.0
E5125475 (5521258)		95.0
E5125476 (5521259)		88.4

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 14V857173

PROJECT NO: Iron Ross

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Jun 27, 2014

DATE RECEIVED: Jun 25, 2014

DATE REPORTED: Jul 10, 2014

SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID)	RDL:	0.01 0.001
E5125474 (5521257)	1.39	0.112
E5125475 (5521258)	0.87	0.019
E5125476 (5521259)	1.35	0.008

Comments: RDL - Reported Detection Limit

Certified By:

*Ron Cardinal*



CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

Parameter	REPLICATE #1			RPD															
	Sample ID	Original	Replicate																
Ag		0.03	0.05																
Al		0.447	0.420	6.2%															
As		5.0	4.9	2.0%															
Ba		< 1	< 1	0.0%															
Be		0.313	0.327	4.4%															
Bi		0.06	0.04																
Ca		2.55	2.48	2.8%															
Cd		0.953	0.998	4.6%															
Ce		0.454	0.460	1.3%															
Co		30.1	29.4	2.4%															
Cr		2.03	2.29	12.0%															
Cs		0.05	0.05	0.0%															
Cu		< 0.2	0.3																
Fe		57.5	57.4	0.2%															
Ga		5.98	5.90	1.3%															
Ge		0.38	0.39	2.6%															
Hf		0.2	0.2	0.0%															
In		0.0934	0.0905	3.2%															
K		< 0.01	< 0.01	0.0%															
La		< 0.5	< 0.5	0.0%															
Li		0.3	0.3	0.0%															
Mg		0.069	0.064	7.5%															
Mn		1410	1360	3.6%															
Mo		0.504	0.526	4.3%															
Na		0.02	0.02	0.0%															
Nb		0.6	0.6	0.0%															
Ni		< 0.2	< 0.2	0.0%															
P		119	78																
Pb		0.7	0.8	13.3%															
Rb		0.35	0.33	5.9%															
Re		0.002	0.002	0.0%															



CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

S		0.02	0.01																
Sb		0.271	0.280	3.3%															
Sc		1.2	1.1	8.7%															
Se		< 0.5	< 0.5	0.0%															
Sn		0.6	0.3																
Sr		17.4	17.5	0.6%															
Ta		0.06	0.06	0.0%															
Te		0.04	0.02																
Th		0.2	0.2	0.0%															
Ti		0.02	0.02	0.0%															
Tl		0.01	< 0.01																
U		0.790	0.761	3.7%															
V		4.8	5.4	11.8%															
W		0.71	0.62	13.5%															
Y		1.7	1.7	0.0%															
Zn		152	154	1.3%															
Zr		8.6	5.3																

(201-249) Davis Tube (ADTRS) - Magnetic Separation

		REPLICATE #1																	
Parameter	Sample ID	Original	Replicate	RPD															
Magnetics	5521257	98.0	98.0	0.0%															

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

		REPLICATE #1																	
Parameter	Sample ID	Original	Replicate	RPD															
Au	5521257	0.112	0.115	2.6%															



CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: Vincent Li

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

Parameter	CRM #1 (GTS-2a)														
	Expect	Actual	Recovery	Limits											
Al	6.96	6.45	93%	90% - 110%											
Ba	186	184	99%	90% - 110%											
Ca	4.01	3.93	98%	90% - 110%											
Cu	88.6	87.2	98%	90% - 110%											
Fe	7.56	7.58	100%	90% - 110%											
K	2.021	1.998	99%	90% - 110%											
Mg	2.412	2.344	97%	90% - 110%											
Mn	1510	1504	100%	90% - 110%											
Na	0.617	0.642	104%	90% - 110%											
Ni	77.1	71.5	93%	90% - 110%											
P	892	878	98%	90% - 110%											
S	0.348	0.362	104%	90% - 110%											
Zn	208	207	100%	90% - 110%											

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (1P5K)														
	Expect	Actual	Recovery	Limits											
Au	1.44	1.53	106%	90% - 110%											

## Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 14V857173

PROJECT NO: Iron Ross

ATTENTION TO: Vincent Li

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS
Magnetics	MIN-200-12041		DAVIS TUBE



## Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 14V857173

PROJECT NO: Iron Ross

ATTENTION TO: Vincent Li

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

## **Appendix 3**

### **Mineral Tenure Data**

<b>Iron Ross Property 2014 Assessment Cost Statement</b>					
<b>Exploration Work type</b>	<b>Comment</b>	<b>Days</b>			<b>Totals</b>
<b>Personnel (Name)* / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>	
Jacques Houle - Project manager		1.3	\$833.18	\$1,041.47	
Victor Zhou - Geologist of Pioneer Exploration Corp.	June 2014	2	\$577.50	\$1,155.00	
				\$2,196.47	<b>\$2,196.47</b>
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>				
General research	Tenures research & mapping - McElhanney Geomatics		\$0.00	\$2,336.25	
Report preparation	Jacques Houle - Project manager	3.9	\$637.56	\$2,470.55	
Report preparation	Michelle Ickringill - Jr.Geologist	0.3	289.8	\$72.45	
				\$4,879.25	<b>\$4,879.25</b>
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Rock	Ore sample - AGAT Lab	3.0	\$87.66	\$262.99	
				\$262.99	<b>\$262.99</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>				
Meals		2.00	\$57.75	\$115.50	
				\$115.50	<b>\$115.50</b>
<b>Equipment Rentals</b>					
Other (Specify)	Field equipment, tools, communications, supplies, etc.			\$1,155.00	
				\$1,155.00	<b>\$1,155.00</b>
	<b>TOTAL Expenditures</b>				<b>\$8,609.21</b>


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## Mineral Titles Online

### Mineral Claim Exploration and Development Work/Expiry Date Change

**Confirmation**

**Recorder:** CANADIAN DEHUA INTERNATIONAL MINES GROUP INC. (276634)    **Submitter:** CANADIAN DEHUA INTERNATIONAL MINES GROUP INC. (276634)  
**Recorded:** 2014/NOV/12    **Effective:** 2014/NOV/12  
**D/E Date:** 2014/NOV/12

#### Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

**Event Number:** 5530406  
**Work Type:** Technical Work  
**Technical Items:** Geochemical, Geological  
**Work Start Date:** 2014/JAN/19  
**Work Stop Date:** 2014/NOV/10  
**Total Value of Work:** \$ 8609.21  
**Mine Permit No:**

#### Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
503831		2005/jan/15	2015/jan/18	2016/jan/15	362	866.93	\$ 8598.03	\$ 0.00

#### Financial Summary:

**Total applied work value:** \$ 8598.03

**PAC name:** Canadian Dehua International Mines Group  
**Debited PAC amount:** \$ 0.0  
**Credited PAC amount:** \$ 11.18

**Total Submission Fees:** \$ 0.0  
**Total Paid:** \$ 0.0

Please print this page for your records.

The event was successfully saved.

Click [here](#) to return to the Main Menu.

**Ministry of Energy and Mines**  
BC Geological Survey

**Assessment Report**  
**Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Geophysical, Geological, Geochemical

TOTAL COST: \$ 8,609.21

AUTHOR(S): Jacques Houle, Victor Zhou SIGNATURE(S): \_\_\_\_\_

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): \_\_\_\_\_ YEAR OF WORK: 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5530406 / 2014/NOV/12

PROPERTY NAME: Iron Ross

CLAIM NAME(S) (on which the work was done): 503831

COMMODITIES SOUGHT: Iron, Magnetite

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092K 043

MINING DIVISION: Nanaimo NTS/BCGS: 092F13E/092F.083

LATITUDE: 50 ° 18 '33 " LONGITUDE: 125 ° 59 '04 " (at centre of work)

OWNER(S):

1) Canadian Dehua International Mines Group Inc. 2) \_\_\_\_\_

MAILING ADDRESS:

1450 - 1199 West Hastings Street

Vancouver, BC V6E 3T5

OPERATOR(S) [who paid for the work]:

1) Pioneer Exploration Corporation 2) \_\_\_\_\_

MAILING ADDRESS:

PO Box 17535 The Ritz PO

Vancouver, BC V6E 0B2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

granodiorite, mafic volcanic, limestone, Island Intrusive, Karmutsen, Quatsino, Parson Bay, Bonanza, Triassic, Jurassic, dike,

graben, dipping, faulting, folding, limestone, shale, siltstone, argillite, mafic volcanics, Fe skarn, Cu skarn, Porphyry Cu-Mo,

magnetite, garnetite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 12102, 26874, 27438, 28186, 32309, 33999

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic	1.9 line-km.	503831	\$2,367.75
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil			
Silt			
Rock	3 samples analyzed for Au, multi-elements, Mt	503831	\$ 262.99
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core			
Non-core			
<b>RELATED TECHNICAL</b>			
Sampling/assaying		503831	\$1,099.22
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	Technical Report	503831	\$4,879.25
<b>TOTAL COST:</b>			<b>\$8,609.21</b>