



MINE DEVELOPMENT ASSOCIATES
MINE ENGINEERING SERVICES

**Technical Report, Titan Project
Ontario, Canada**

Prepared for



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1.0 SUMMARY

1.1 Introduction

Prophecy Development Corp. (“Prophecy”) requested that Mine Development Associates (“MDA”) prepare a Technical Report including a mineral resource estimate and recommendations for future work on their Titan vanadium-iron-titanium property in Ontario, Canada. MDA had previously prepared a Technical Report on the property during 2006, which was updated in 2007, and again during January 2010 when Randsburg International Gold Corp. (“Randsburg”) sold 80% of the property to Prophecy Resource Corp. (Prophecy). The Technical Reports completed in 2007 and 2010 are no longer valid for the project, as the requirements for the calculation of resources has been updated over time.

Prophecy Resource Corp. changed its name to Prophecy Development Corp. effective January 7, 2015. Prophecy purchased the remaining 20% of the Titan property that it did not own from Randsburg during January, 2017.

The Titan project is located in eastern Ontario, straddling the boundary between Angus and Flett townships. It is approximately 120 km east-northeast of Sudbury, Ontario. The Titan property consists of 263.6 contiguous hectares that include 17 patented claims of which Prophecy is 100% owner.

Although the mineralization associated with mafic and ultramafic complexes in this region was identified as early as the 1890s and the Titan occurrence was mapped in the 1930s, the Titan property has only had three periods of significant exploration. Titan Iron Mines Limited (“Titan Iron”) conducted trenching, sampling, and drilling in the 1940s. Sampling and airborne and ground magnetic surveying were done in the 1960s. Between 2004 and 2010, Randsburg carried out airborne magnetometer and electromagnetic (“EM”) surveying as well as drilling. Prophecy has completed a GPS survey of the claims, a mineralogical investigation of the iron, ilmenite, vanadium occurrence, and a geologic investigation of the property.

1.2 Geology and Mineralization

The Titan property is located in the Precambrian Grenville Province of the Canadian Shield. Country rocks are predominantly Mesoproterozoic granodiorite to monzogranitic gneisses that represent metamorphosed felsic intrusions. There are also less common exposures of layered mafic gneiss and biotite-hornblende diorite gneiss that appear to be older than the felsic gneisses. Two large, layered mafic to ultramafic complexes (Fall Lake and Fanny Lake complexes) that have been dated as 1238-1235 Ma intrude the gneisses.



Magnetite, ilmenite, titanium dioxide, and vanadium mineralization at Titan occurs in a southeast-plunging body in gabbro to leucotroctolite in the northeastern corner of the Fall Lake complex. Titaniferous magnetite is intermingled with altered gabbro as a hydrothermal replacement and is also present as streaks, patches, veinlets, and lenses of solid magnetite ranging from less than a centimeter to a maximum of about 30 meters in width.

The Titan deposit is located at the northern end of an aeromagnetic anomaly that is 1,200 by 800 m in area.

1.3 Mineral Processing and Metallurgical Testing

Randsburg completed preliminary metallurgical testwork on material from one core hole at Altairnano's facilities in Reno, Nevada. Altairnano used a proprietary "Altair Hydrochloride Pigment Process" ("AHPP") dissolution test on the composites. This process uses hydrochloric acid and hydrochloride gas to dissolve iron, titanium and vanadium metals. The test concluded that 88% of the iron, 96% of the titanium and 80% of the vanadium could be dissolved after 4 hours using this process.

Altairnano then sent 5 kg of composite sample to Hazen Research in Golden, Colorado for wet magnetic testing, primarily to increase the grade of material for the AHPP process. Hazen obtained a high-grade concentrate by wet magnetic separation but the overall recovery was poor. Hazen suggested additional testing using magnetic separation, gravity and flotation. Altairnano concluded that additional testing is required at finer grind size in the 5-20-micron range.

Prophecy engaged Hazen Research to complete a mineralogical characterization from a 150 kg sample of the vanadium bearing magnetite-ilmenite material. The objective of the study was to determine whether the titanium occurs as a discrete phase, or as fine ilmenite or ulvöspinel lamellae, to establish if physical separation from the magnetite is viable. In general, the study showed that the titanium occurs as distinct granular ilmenite particles usually intergrown with the magnetite. The preliminary conclusion derived from the results is that an ilmenite concentrate could probably be produced by wet low-intensity magnetic separation. However, the strongly magnetic, i.e., magnetite, fraction will likely be high in titanium. This means that the recovery of titanium as ilmenite from the total titanium in the feed may be lower than normal.

Over the past 5 years or so, a number of vanadium, iron, and titanium properties have seen increased interest due mainly to the use of vanadium in energy storage batteries. As a result, new methods have been developed to recover vanadium, iron, and ilmenite from the deposits. Although most operating properties use magnetic separation of the magnetite from ilmenite, followed by roasting and leaching to produce a ferrovandium product, some processes have been developed to leach and precipitate vanadium from an iron concentrate without roasting. Although considerable metallurgical testwork is required to evaluate the feasibility of the project, new processes should be considered in completing the testwork.



1.4 Mineral Resource Estimate

The mineral resources at the Titan project were estimated by determining statistical and geological criteria to aid in modeling of iron and titanium mineralized zones, interpreting iron and titanium mineralized zone polygons on east-west cross sections, rectifying mineral zone interpretations onto plan view zones. All modeling of the Titan project resources was performed using GEOVIA Surpac™ mining software.

Table 1.1 summarizes Randsburg's drilling on the property. A total of 4,898 assay intervals are contained in the database from 38 core holes drilled by Randsburg on the property. The drilling is approximately on a 50-meter grid. The drill hole coordinates were obtained by a handheld GPS with limited accuracy.

Table 1.1 Randsburg Drilling Summary

Year	Holes	Meters
2004	8	1,854.3
2005	22	6,595.0
2006	8	1,858.0
Totals	38	10,307.3

MDA collected three surface samples and three half-core samples from drill hole RA-04-06 (163.85 to 165.85). These samples were given to Kappes, Cassiday and Associates ("KCA") for density testing by coating the samples in wax and weighing the dry samples and determining the volume by water displacement (ASTM Method C914-95). The average density obtained for the six samples was 4.29 and density did not vary as much as expected.

Only inferred resources can be calculated for the project since the drill holes have not been properly surveyed and the metallurgical testing for recovery using conventional processes needs additional work. MDA plotted east/west cross sections on 50 m intervals with iron and titanium values with geology plotted on one side. The geologic unit logged as magnetite olivine gabbro contained most of the material in the highest-grade population, or above 40% Fe₂O₃ and 12% TiO₂. Mineralized zones were drawn on the cross sections using an approximate 40% Fe₂O₃ cutoff grade. The mineralized zones were digitized and assay intervals within the mineralized zones were coded. The sectional mineralized zones were transferred to plan view zones on 10 m intervals.

Grades for Fe₂O₃, TiO₂, and V were interpolated by ordinary kriging into blocks from 10 m composites from mineralized zones. These kriged block grades were compared to grades estimated by inverse distance methods and were essentially the same globally. A minimum of one composite and a maximum of nine composites were used to interpolate grades. The material above a 40% Fe₂O₃ cutoff grade and within the variogram range of 108 m from a composite is shown in Table 1.2.



Table 1.2 Titan Material above a 40% Fe₂O₃ Cutoff Grade

Elevation	Tonnes (000's)	% Fe ₂ O ₃	% TiO ₂	% V
-220	17.7	53.50	17.00	0.26
-210	53.6	54.10	17.21	0.26
-200	64.9	51.50	16.25	0.25
-190	89.0	46.50	14.46	0.23
-180	146.4	46.45	14.49	0.23
-170	216.1	45.89	14.23	0.23
-160	277.2	45.88	14.11	0.22
-150	350.2	46.13	14.25	0.23
-140	423.6	45.97	14.21	0.23
-130	479.9	44.91	13.78	0.22
-120	534.6	43.24	13.19	0.22
-110	564.1	44.67	13.82	0.22
-100	566.3	47.54	14.84	0.24
-90	557.7	48.39	15.05	0.24
-80	544.3	48.31	14.86	0.23
-70	508.4	48.17	14.77	0.24
-60	499.2	48.49	15.00	0.24
-50	536.3	48.85	15.25	0.24
-40	575.4	49.36	15.47	0.25
-30	632.8	50.20	15.79	0.25
-20	623.7	51.00	16.18	0.25
-10	570.0	52.40	16.89	0.26
0	563.6	52.80	17.09	0.26
10	638.7	51.24	16.37	0.25
20	840.3	50.80	16.06	0.25
30	1,004.4	49.86	15.53	0.25
40	1,147.6	48.47	14.84	0.23
50	1,279.5	47.80	14.48	0.23
60	1,346.5	48.16	14.66	0.24
70	1,366.9	48.57	14.90	0.24
80	1,357.2	48.75	15.00	0.25
90	1,392.1	50.34	15.67	0.26
100	1,429.1	50.53	15.68	0.26
110	1,415.2	50.07	15.44	0.25
120	1,422.7	49.61	15.31	0.25
130	1,485.9	47.04	14.27	0.23
140	1,484.3	46.40	13.93	0.22
150	1,366.4	47.49	14.41	0.24
160	1,219.4	48.18	14.71	0.24
170	1,090.7	49.24	15.09	0.25
180	1,038.2	49.62	15.29	0.25
190	1,163.1	49.03	15.08	0.25
200	1,361.0	47.83	14.63	0.24
210	1,341.7	47.13	14.42	0.23
220	1,221.6	47.22	14.47	0.23
230	1,297.7	47.00	14.37	0.23
240	1,434.5	46.72	14.22	0.23
250	1,483.8	46.98	14.37	0.23
260	1,550.3	47.26	14.52	0.23
270	1,391.6	47.76	14.78	0.24
280	1,351.9	46.89	14.44	0.23
290	1,577.6	45.83	13.96	0.23
300	1,450.0	46.18	14.11	0.23
310	638.1	46.42	14.16	0.24
Totals	48,983.2	48.09	14.82	0.24



An equivalent vanadium grade was used to optimize a pit. The commodity prices and recoveries used to determine the equivalent vanadium relationship to calculate the material inside an optimized pit is shown in Table 1.3. Note that all dollars are in \$U.S. unless otherwise noted.

Table 1.3 Equivalent Vanadium Calculation

Material	Price \$/22.046 lbs	Basis	Concentrate Grade	Recovery	Recovered Value	Equivalent V
V	\$176.37	\$ 8/lb V		75.0%	\$132.28	1
FeO2	\$1.56	\$100/t Fe ₂ O ₃	64% Fe ₂ O ₃	65.0%	\$1.02	0.0077
TiO2	\$3.70	\$200/t TiO ₂	54% TiO ₂	65.0%	\$2.41	0.0182

The following parameters were used to determine material inside an optimized pit:

- 40% Fe₂O₃ Cutoff Grade
- 50-degree pit slope
- Material processed density 4.29 tonnes/cu meter; Waste density 3.00 tonnes/cu meter
- Mining cost \$2.10 per tonne mined
- Processing cost \$50 per tonne processed
- G & A cost \$2.00 per tonne processed
- Price of \$8/lb (\$17.6/kg) vanadium recovered

Based on the parameters used for pit optimization, the pits shown in Table 1.4 were obtained.

Table 1.4 Pit Optimization Results

Pit	Vanadium Price \$/lb V	Total Tonnes 000's	Waste Tonnes 000's	"Ore" Tonnes 000's	Strip Ratio t waste/t ore	Max Bench	Min Bench	Fe ₂ O ₃ Units 000's	Fe ₂ O ₃ Grade %	TiO ₂ Units 000's	TiO ₂ Grade %	V Units 000's	V Grade %	EQ V Grade %
1	\$3.68	1,407.4	497.9	909.5	0.55	58	52	46,767.7	51.42	14,791.3	16.26	221.0	0.24	0.92
3	\$4.00	25,074.1	12,015.4	13,058.8	0.92	59	38	634,503.0	48.59	195,576.1	14.98	3,151.3	0.24	0.88
4	\$4.16	50,571.9	29,412.6	21,159.4	1.39	59	33	1,027,174.5	48.55	316,240.7	14.95	5,117.1	0.24	0.88
6	\$4.48	70,631.6	44,211.6	26,420.0	1.67	59	29	1,273,862.3	48.22	391,729.2	14.83	6,333.5	0.24	0.87
9	\$4.96	159,652.8	120,777.9	38,874.9	3.11	59	20	1,874,513.0	48.22	576,634.9	14.83	9,305.1	0.24	0.87
13	\$5.60	209,237.5	166,294.6	42,942.9	3.87	59	14	2,075,481.5	48.33	639,146.0	14.88	10,305.7	0.24	0.87
16	\$6.08	227,140.4	183,036.0	44,104.4	4.15	59	13	2,132,120.8	48.34	656,624.0	14.89	10,590.2	0.24	0.87
22	\$7.04	241,787.9	196,957.4	44,830.5	4.39	59	12	2,167,062.0	48.34	667,400.0	14.89	10,765.8	0.24	0.87
28	\$8.00	272,111.5	226,115.2	45,996.3	4.92	59	10	2,222,403.9	48.32	684,589.1	14.88	11,042.1	0.24	0.87
34	\$9.12	299,812.2	252,898.9	46,913.3	5.39	59	9	2,264,066.5	48.26	697,416.6	14.87	11,251.2	0.24	0.87
40	\$10.08	320,630.0	273,125.8	47,504.2	5.75	59	8	2,290,447.5	48.22	705,478.7	14.85	11,383.7	0.24	0.87
51	\$12.00	353,443.6	305,162.8	48,280.7	6.32	59	7	2,324,216.6	48.14	715,739.5	14.83	11,549.8	0.24	0.87
64	\$16.00	370,453.4	321,879.9	48,573.5	6.63	59	7	2,337,066.8	48.11	719,648.5	14.82	11,612.7	0.24	0.87

The deposit resources based on the grade model at a 40% Fe₂O₃ cutoff grade and the results of pit optimization based on the parameters shown above is tabulated in Table 1.5.

Table 1.5 Titan Resource Summary

Tonnes 000's	% Fe ₂ O ₃	% TiO ₂	% V
45,996.3	48.32	14.88	0.24



1.5 Conclusions and Recommendations

MDA believes that the next phase of work should concentrate on the metallurgy of the deposit, with additional surface drilling in open areas of the deposit. It is very important to complete a survey of the project area and drill holes. If the already drilled holes cannot be located advanced studies that require measured and indicated materials may require re-drilling of the original holes. Metallurgical testing utilizing new technology and conventional technology should be completed. The metallurgical program should be designed by an independent metallurgist after reviewing the data, and should be made up of composites that are representative of the deposit. The past drill holes and project area should be surveyed to obtain more accurate drill hole coordinates and site topography. A surface geologic map should be completed utilizing methods to clear the soil and till to expose the surface geology where required. This work should lead to a preliminary assessment of the project.

The following tasks to complete the assessment are estimated and recommended:

▪ Metallurgist Review:	\$ 20,000
▪ Metallurgical Testing	\$ 150,000
▪ Market Study	\$ 15,000
▪ Magnetometer Survey	\$ 30,000
▪ Drill Hole and Topographic Survey	\$ 30,000
▪ Surface Geologic Mapping	\$ 45,000
▪ Surface Drilling	\$ 750,000
▪ Preliminary Assessment	<u>\$ 60,000</u>
▪ Totals	\$ 1,100,000



2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Introduction

Prophecy Development Corp. (“Prophecy”) engaged Mine Development Associates (“MDA”) to provide a report summarizing the general setting, geology, project history, historic exploration activities and results, historic estimates of mineral resources, methodology, quality assurance, interpretations, metallurgy, mineral resource estimate, and recommendations for further work on its Titan iron-titanium-vanadium property in eastern Ontario.

The work done for this job entailed review of published and unpublished reports of previous work conducted on the property to the extent available as described below, including a database of drill holes and assays of drill samples. The work culminated in the preparation of this Technical Report as defined in NI 43-101 and in compliance with disclosure and reporting requirements set forth in the Canadian Venture Exchange (“CDNX”) Corporate Finance Manual, National Instrument 43-101, and Companion Policy 43-101CP, and Form 43-101F1. The original Technical Report by MDA on the property was prepared by Neil Prenn, P. Eng., of MDA, who visited the Titan property on September 28, 2006. This updated report is based on a site visit by Neil Pettigrew P. Geo. on October 13, 2017, and the original site visit by Neil Prenn. This Technical Report was prepared in October, 2017 to update prior Technical reports on the property. The effective date of this report is October 23, 2017.

The purpose of this report is to provide Prophecy a summary of the Titan project, an independent opinion as to the technical merits of the project, a mineral resource estimate, and a guide to further exploration through recommendations and a budget. It is intended that this report may be submitted to those Canadian stock exchanges and regulatory agencies that may require it. This is a technical report, and the use of some technical terms is unavoidable.

2.2 Terms of Reference

This report draws on information provided in other geological and technical reports listed in the References section of this report. The writers have carefully reviewed all of the information provided by Prophecy and believes the information to be reliable.

2.3 Definitions

Frequently used acronyms and abbreviations.

Currency Unless otherwise indicated, all references to dollars (\$) in this report refer to currency of the United States

AA	atomic absorption spectrometry
Ag	silver
Au	gold
Cu	copper
dst	dry short tons



Fe	iron
Fe ₂ O ₃	iron oxide
ft	feet
gpm	gallons per minute
g/t	grams per tonne
HP	horsepower
in.	inches
km	kilometer
lb	pound (2000 lbs to 1 ton, 2204.6 lbs to 1 tonne)
m	meters
mph	miles per hour
oz	troy ounce (12 oz to 1 pound)
RC	reverse circulation drilling method
st	short (imperial) ton
TiO ₂	titanium dioxide
ton	short (imperial) ton
tonne	metric ton
tpd	(short) tons per day
tph stph	(short) tons per hour
V	vanadium

2.4 Details of the Personal Inspection on the Property

The second author Neil Pettigrew, M.Sc., P.Geo., visited the Titan drill core and property on October 13th 2017. The Titan drill core, which consists solely of Ransburg's 2004-2006 drill programs, is currently stored in Temagami First Nations storage yard, located, ~6 kilometers south of the town of Temagami on highway 11. A total of 5 check samples were collected from the Ransburg drill core, which are fairly close to the original assays as shown in section 12. The Titan property was also visited, several old overgrown drill pads were observed as well as several magnetite-mineralized gabbroic outcrops, from which 2 samples were collected for analysis. Assay results are shown in section 12. Assays certificates for all check samples are included in Appendix B



3.0 RELIANCE ON OTHER EXPERTS

MDA has not personally reviewed the land tenure or environmental issues, are not Qualified Persons with regard to land tenure or environmental issues, and have not independently verified the legal status or ownership of the property, lease agreements, or environmental issues.

The authors have fully relied on information provided by Prophecy as to the current legal title of the mining concessions comprising the Titan project, the terms of property agreements, the existence of applicable royalty obligations, and information concerning environmental issues and permitting.



4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 Location

The Titan project is located in Angus and Flett townships, Ontario, approximately 120 km east-northeast of Sudbury, Ontario, and approximately 50 km north of the city of North Bay (NTS 31L and 14) (Figure 4.1). The center of the mineralization at Titan is at approximate UTM coordinates of 615000E and 5190200N in zone 17 (NAD 83 datum). The approximate geographic coordinates of the property are 46° 50' North latitude and 79° 30' West longitude. The Titan vanadium-iron-titanium occurrence on the property has also been referred to in the literature as the O'Connor occurrence.

4.2 Land Area and Mining Property Description

The Titan property consists of 263.62 contiguous hectares (651.42 acres) that include 17 patented claims in the Angus and Flett Townships (Figure 4.2) (Appendix A). The Titan deposit is located on patented claims, which are patented both as to surface and mineral rights. Title to these patented claims is valid in perpetuity upon annual payment of a nominal acreage tax. Annual assessment work is required to continue to hold the unpatented claims. Three of the six original unpatented claims noted in the 2007 Technical Report were dropped in the period between 2007 and 2010. The remaining three unpatented claims were dropped in January, 2017.

Prophecy purchased 80% of the interest in the property in an agreement with Randsburg dated January 14, 2010. The agreement calls for Prophecy to make payments totaling \$500,000 to Randsburg by January 1, 2011 to complete the 80% purchase of the property.

Prophecy purchased Randsburg's remaining 20% interest in Titan property for 20,000 Prophecy shares during January, 2017, to become the 100% owner of the property.

Annual taxes on the patented claims are about \$1050 Canadian.

4.3 Agreements and Encumbrances

The 17 patented claims were purchased by Randsburg from Northoka Holdings Limited ("Northoka") through an agreement dated February 24, 2004. MDA has reviewed a copy of this agreement. As part of the purchase agreement, Northoka retained a Net Smelter Return Royalty in the amount of three percent (3%). Randsburg can purchase the Royalty for \$1,500,000 Canadian.

The three unpatented claims staked by Randsburg in 2004, were dropped by Prophecy in January 2017.

The agreement between Prophecy and Randsburg for Prophecy to purchase 80% of the property was completed on January 14, 2010. The remaining 20% interest was purchased by Prophecy from Randsburg in January, 2017.



4.4 Environmental Liability

According to Docherty and Germundson (2006), the Titan property is within five kilometers of lakes used for recreational fishing. MDA is not aware of any environmental liabilities on the property. The deposit is exposed at the surface or covered with only one to three meters of soil and gravel derived from the deposit.

4.5 Permitting Requirements

To develop the property Prophecy must follow the federal and provincial permitting requirements and regulations. Exploration involving drilling will require permit(s) to complete the drilling.

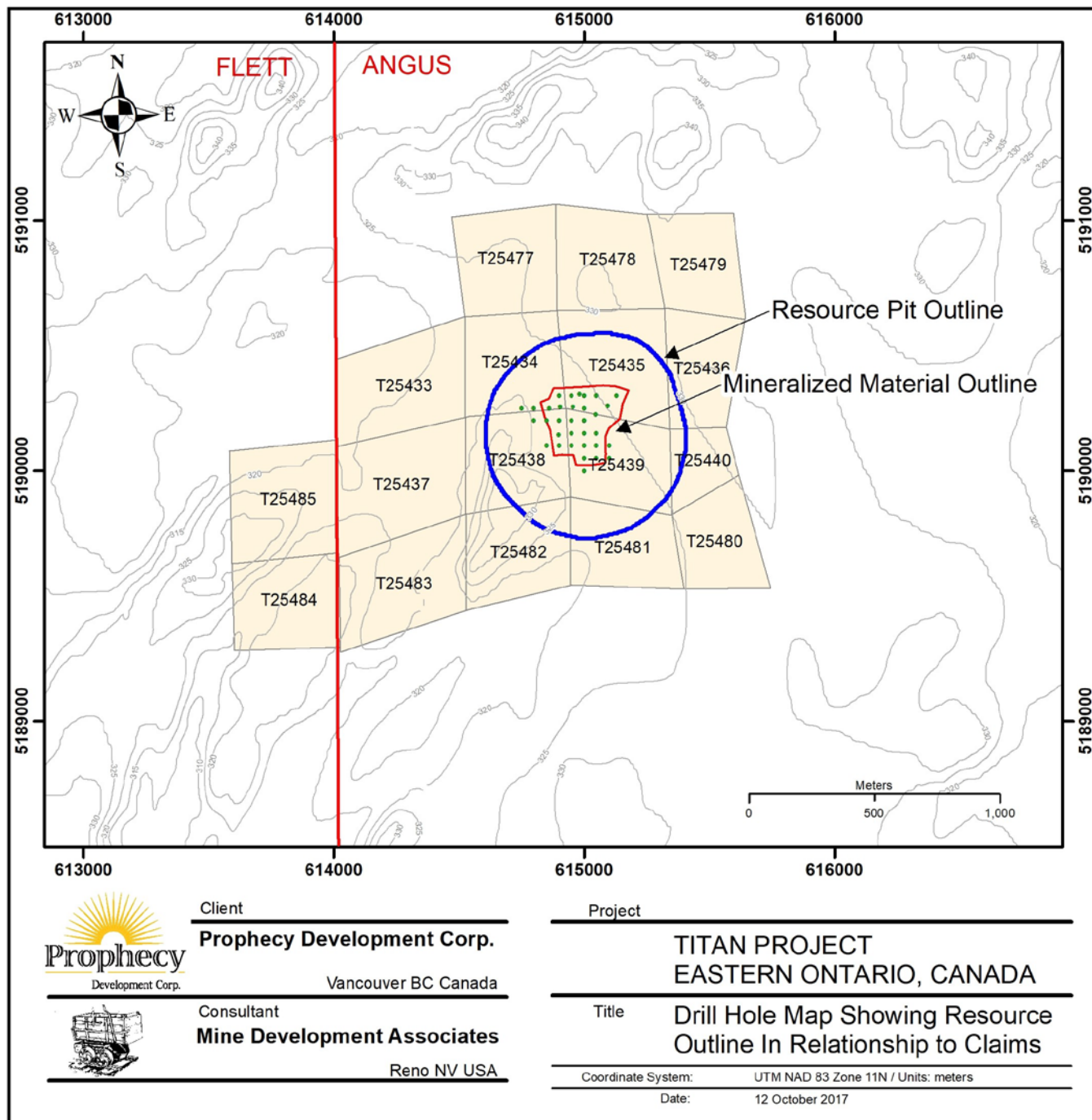


Figure 4.1 Location of the Titan Project





Figure 4.2 Claims of the Titan Property with Location of Inferred Resource





5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Access

Access to the Titan property is via Highway 11 south from Temangami for 20 km to Gramps Place, then east on the Rabbit Lake Road for 18 km, then south on a bush trail that is accessible with 4x4 vehicles in the summer for 8 km to a parking area. From the parking area, the remaining 16 km of bush trail can be accessed in the summer with all-terrain vehicles or tracked vehicles and in the winter with a 4x4 vehicle or snow equipment.

5.2 Climate

According to Docherty and Germundson (2006), winter temperatures are commonly -15° to -25° C but can be as low as -40° C with snow accumulations from November into April and occasionally into early May. Summer temperatures can exceed 30° C briefly, accompanied by high humidity.

5.3 Local Resources and Infrastructure

The city of North Bay, Ontario, lies approximately 50 km south of the property and can provide lodging, supplies, and labor. The 2001 population of North Bay was 52,771. Transportation access to Titan includes the main line of the Ontario Northland Railway, which crosses the property; the mineralized area is about five miles northeast of Bushnell, a flag station on the railroad. Highway 11, a main provincial highway which links northern and southern Ontario, is 18 km west of Titan.

A major high voltage transmission line (about 230-kv) lies one to two miles east of the property and the Northern Ontario Natural Gas pipeline lies 15 miles west of the property (Bayne, 1967b).

5.4 Physiography

The property is characterized by the gently rolling topography of a dissected plateau with less than 100 m of relief. Several lakes are present, surrounded by marshy areas. Fall Lake, located south of the property, is 300 m above sea level. Vegetation is northern boreal, with both hard and softwood forest and abundant white pine. There are minor stands of timber and abundant scrub brush. The Fall Lake intrusion is topographically higher than the country rocks and is characterized by a distinctive fern-alder-birch flora (Easton, 2002). Within the patented claims there are few minor stands of timber and abundant scrub vegetation.



6.0 HISTORY

The following information on past activity is largely taken from Docherty and Germundson (2006).

Titaniferous magnetite mineralization associated with the mafic and ultramafic rocks of this part of Ontario was identified as early as the 1890s and mapped in the 1930s. Hurst (1932) mapped and described what is now the Titan magnetite occurrence but was then called the O'Connor occurrence, noting that the deposit had not been developed because of a lack of demand for iron ore containing titanium. From the 1930s through the early 1970s, there was exploration in the region seeking iron and titanium.

Exploration activity specifically directed at what is now the Titan property dates from 1942 when Titan Iron Mines Limited ("Titan Iron") conducted trenching, surface pitting, and sampling. However, at that time the presence of titanium was a detriment to the potential value of the iron mineralization. In 1947 Titan Iron refurbished and extended the old trenches and drilled 11 diamond drill core holes. In 1948 120 samples collected from the trenches were analyzed for titanium and iron by the Ontario Department of Mines and Swastika Laboratories. By 1953 Titan Iron had ceased exploration on the property, although tax payments were made to maintain the property in good standing. In that same year, samples were submitted to the Cranmet Corporation in Chicago for analysis with the conclusion that the ore is mainly a mixture of magnetite and ilmenite with only about 5% as spinel-type intergrowths of magnetite and ilmenite, which seemed favorable for separation (Bayne, 1967b).

The property was sampled by Watts, Griffiths and McOuat Ltd. for Southfield Mines Limited in 1964 (Docherty and Germundson, 2006; Bayne, 1967b). In 1966, Lockwood Survey Corporation Ltd. ("Lockwood") flew an airborne magnetic survey over the area for Titan Iron. A. S. Bayne prepared a report in 1967 to use in seeking capital to develop the Titan property. Lake Ontario Steel Company Ltd. optioned the property from Titan Iron in July, 1968, and conducted a ground magnetic survey (Mead, 1969).

Between 1973 and 1996, Flett and northwestern Angus townships were among a number of townships withdrawn from mineral staking and exploration activities due to the Temagami Land Caution. However, according to Easton (2002), Candol Developments Ltd. undertook a bulk sampling program that included the O'Connor magnetite occurrence (now Titan) in 1988; no results were available to MDA.

In 2004, Randsburg acquired the Titan property. They have conducted airborne magnetometer and electromagnetic ("EM") surveys over mafic/ultramafic complexes in Flett and Angus townships and ave drilled at Titan. In 2010 Prophecy purchased an 80% interest in the property, and in January, 2017 purchased the remaining 20% interest from Randsburg. No production has been recorded from the property.



6.1 Historic Resource Estimates

Early resource estimates pre-dated the criteria of NI 43-101. In 2006, MDA estimated a then NI 43-101 compliant resource to contain 49.0 million tonnes of material grading 48.09% Fe₂O₃, 14.82% TiO₂, and 0.24% V. The 2006 estimate is no longer considered current as it is an open pit resource that is not contained within an open pit.



7.0 GEOLOGIC SETTING AND MINERALIZATION

The following description of the regional and property geology is largely taken from Easton (2001, 2002), Docherty and Germundson (2006) and Germundson (2010).

7.1 Regional Geology

The Titan property is located in the Grenville Province of the Canadian Shield, just east of the Grenville Front (Figure 7.1). The Grenville Front is made up of a series of faults separating the Archean and Paleoproterozoic rocks of the Superior and Southern provinces on the northwest from the Archean and Mesoproterozoic rocks of the Grenville Province to the southeast. Immediately southeast of the Grenville Front is the Grenville Front tectonic zone, which consists of Archean rocks that were reworked during the Grenville Orogeny. Southeast of the Grenville Front tectonic zone is the Tomiko sub-province of the Grenville Province made up of Archean and Mesoproterozoic rocks. The Titan property lies in the Tomiko sub-province just east of the Grenville Front tectonic zone.

The country rocks of the Tomiko sub-province along the boundary between Flett and Angus townships are dominated by Mesoproterozoic felsic intrusions represented by granodiorite to monzogranitic gneiss. These gneisses appear to be younger than layered mafic gneiss exposed east and south of the Fall Lake intrusion, to be discussed shortly, and also younger than biotite-hornblende diorite gneiss.

Two large, layered mafic to ultramafic complexes intrude the gneisses of the Tomiko sub-province – the Fall Lake and Fanny Lake complexes. When these complexes were mapped in 1931 (Hurst, 1932), they were thought to be a single diabase mass. The Fall Lake intrusion straddles the boundary between Flett and Angus townships, while the larger Fanny Lake complex lies to the west in Flett Township. Anorthosite, troctolite, feldspathic dunite, and ultramafic rocks make up these complexes. Both intrusions are slightly alkalic in composition (Easton, 2002). Leucotroctolite from the northeast part of the Fall Lake intrusion yielded a $^{207}\text{Pb}/^{206}\text{Pb}$ age of 1235 ± 2 Ma, while leucotroctolite from north-central Fanny Lake in the Fanny Lake intrusion yielded an age of 1238 ± 2 Ma (Easton, 2002). These slightly different ages are consistent with field observations that suggest the Fanny Lake intrusion experienced greater metamorphism than the Fall Lake intrusion. These ages also suggest that the Fall Lake and Fanny Lake intrusions are similar in age to the Sudbury diabase dike swarm but are younger than the East Bull Lake intrusion near Sudbury which contains significant amounts of platinum group metals and was emplaced 2475 Ma (Easton, 2002).

7.2 Property Geology

The Falls Lake intrusions strikes toward the northeast, which is parallel to the regional foliation. The intrusion is close to 3 kilometres in length and maintains an average width of 750 meters, but narrows toward the northeastern end where the Titan deposit is located (Germundson 2010). Magnetite and titanium dioxide mineralization in the Titan deposit is hosted by gabbro to leucotroctolite (p.c. Germundson). The southwestern portion of the Fall Lake intrusion, southwest of the Titan property, is made up of a variety of lithologies, but gabbro predominates. The northeastern portion of the intrusion is made up of leucocratic olivine gabbro to leucotroctolite. The leucocratic olivine gabbro to



leucotroctolite appears to be fresh in thin section with little evidence of metamorphism. Contacts of the intrusion with mafic gneiss and granite gneiss, thought to be older than the Fall Lake complex, are poorly exposed.

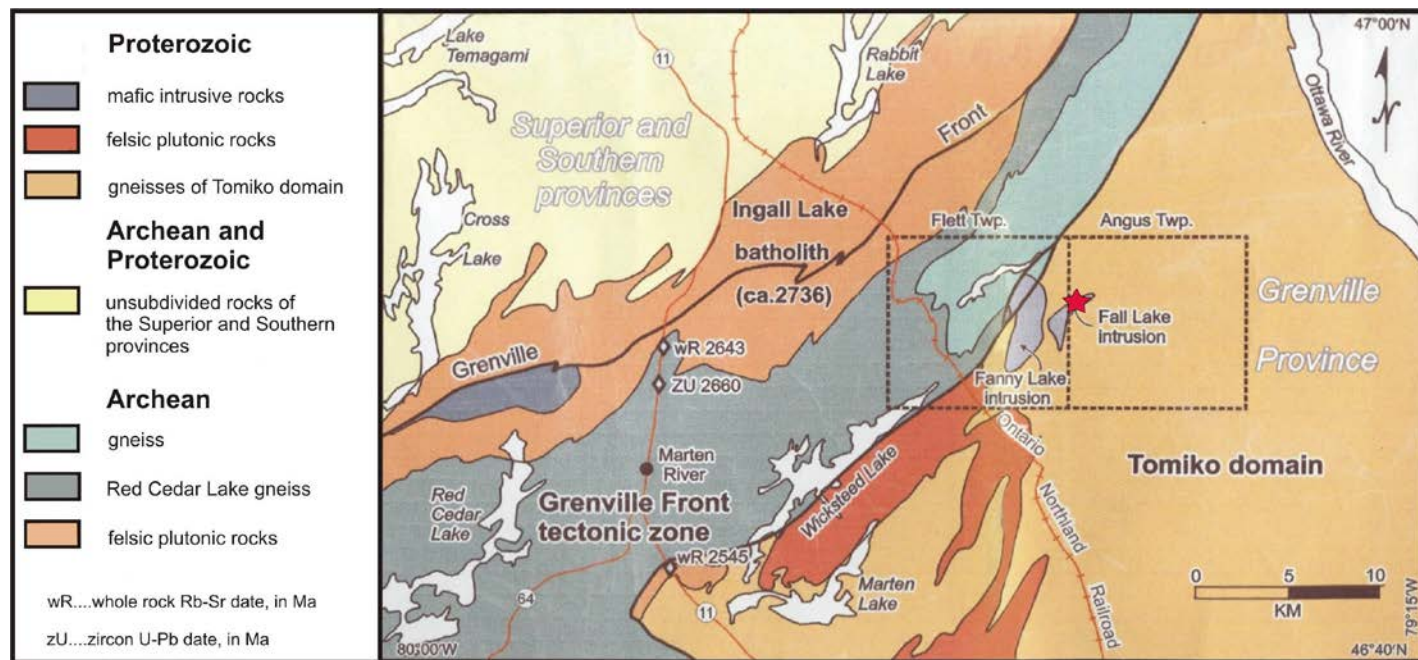
The gabbro to leucotroctolite is almost black, coarse grained, and composed of a dark-colored feldspar, pyroxene, and lesser amounts of magnetite (Ginn, 1947). The granite gneiss country rock is medium grained and pink with quartz, pink feldspar, and accessory biotite (Ginn, 1947).

While the host rocks of the Fall Lake Intrusion are apparently of the same composition as the country rock, the mineralized units are altered and finer grained.

Both the northwest and the southeast contacts of the Fall Lake intrusion are displaced by en echelon faulting that apparently acted at right angles to the contacts with a maximum offset of ~200 meters. The Fall Lake intrusion is also bisected longitudinally by faulting as evidenced by the linear drainage pattern, mafic gneiss and schist exposures and other evidence of shearing (Germundson 2010)

Pleistocene and Recent gravel, sand, clay, and muskeg cover part of the deposit but to shallow depths.

Figure 7.1 Geology of the Titan Property





7.3 Mineralization

The following information is largely taken from Germundson (2010), Docherty and Germundson (2006) and Easton (2002).

The Mineralization at the Titan deposit consists of hydrothermal replacement (metasomatism) by titaniferous magnetite and ilmenite which resulted in varying degrees, from minor to near total digestion of the host rocks (Germundson 2010).

Magnetite, ilmenite, and titanium dioxide are found within the Fall Lake mafic-ultramafic complex at Titan. Titaniferous magnetite formed as a hydrothermal replacement of fine-grained olivine gabbro with magnetite and titanium minerals comprising up to 90% or more of the volume over two- to four-m wide core intersections. Magnetite and altered gabbro are intermingled, although there are also streaks, patches and veinlets of solid magnetite. The ore is composed largely of plagioclase feldspar and granular magnetite with ilmenite, intergrown with a titanium mineral that is probably ulvoespinel (Owens, 1968). Also present are olivine, pyroxene, and hercynite; minor hematite, goethite, anatase (?), chalcopryrite, pyrite, pyrrhotite, talc, apatite, chlorite, biotite, graphite, and actinolite; with traces of bornite and violarite and local garnet and hornblende (Hurst, 1932; Owens, 1968; Sinclair, 2004). Lenses of magnetite range in width from narrow stringers less than an inch wide to a maximum of about 100 ft (Ginn, 1947).

Vanadium is present according to Hurst (1932) who examined the property prior to any drilling, there are two belts of magnetite-bearing rocks defined by aligned but discontinuous outcrops. A northwest-striking "A-zone" was exposed at that time at the shore of a small lake that in some references had been referred to as Cribbage Lake. Both the magnetite bodies and the host mafic rocks of the A-zone are schistose. A north-striking "B-zone," located about 100 m west of "A-zone," was more extensive, and was about 100 to 150 m long.

Electron microprobe analysis of two samples of drill core described by Docherty and Germundson (2006) indicated that the average titanium dioxide content of the magnetite in the samples was 6.8%, while that in the ilmenite was 54.2% (Sinclair, 2004). About 60% of the titanium is contained in the ilmenite and 40% is in magnetite. There was negligible titanium dioxide in the subordinate amount of silicate minerals in the samples. According to Bayne (1967a, b, c, d) and Everard (1965), a bulk sample of 2,200 pounds collected from surface exposures and trenches in 1964 contained 32.7% iron and 16.9% titanium dioxide. According to Docherty and Germundson (2006) and based on 2004-2005 drill results for Section 5190200N, "*The average titanium dioxide content for the most hydrothermally replaced part of the host gabbro/troctolite ranges between 11.42% and 14.60% (DDH's RA-05-05, 07, 08, 09, and 10 and RA-04-01).*" There is a close direct relationship between iron and titanium values.

In addition to minor amounts of chalcopryrite, the Titan mineralization includes locally anomalous amounts of platinum, palladium, and gold (Docherty and Germundson, 2006).

The Titan deposit is located at the northern end of an aeromagnetic anomaly that is 1,200 by 800 m in area. To date drilling has tested only about the northernmost 300 m of the anomaly (R. K. Germundson,



October 5, 2006, personal communication). The deposit plunges to the southeast at over 60° and is open towards Cribbage Lake.



8.0 DEPOSIT TYPES

The Titan deposit is interpreted to be a layered mafic-ultramafic complex which has been metamorphosed and deformed during the Grenville Orogeny. Layered mafic-ultramafic complexes often have associated iron, iron-titanium, or platinum group metals mineralization. Iron-titanium mineralization in layered intrusions is typically associated with higher stratigraphic levels within the mafic-ultramafic complex where more evolved Fe-rich magmas accumulate due to the fractionation of Mg-rich minerals such as olivine and pyroxene. This fractionation can progress further to form Fe-rich deuteric fluids (hydrothermal fluids sourced from the intrusion itself) which can metasomatise (replace) the silicate rocks of the intrusion with Fe oxides, such as magnetite and ilmenite.

The Titan mineralization consists of iron and titanium with vanadium and anomalous platinum, palladium, and gold associated with a Proterozoic layered mafic-ultramafic complex in the Grenville Province of the Canadian Shield. Mineralization is related to hydrothermal replacement (metasomatism) of these mafic to ultramafic rocks (Docherty and Germundson, 2006, Germundson 2010).



9.0 EXPLORATION

9.1 Historic Exploration

The following discussion is largely taken from Docherty and Germundson (2006) and Ginn (1947).

Other than mapping by Hurst (1932) in the 1930s, the earliest exploration known to MDA of what is now called the Titan property was that of Titan Iron beginning in 1942. That company completed trenching, surface pitting, and sampling in 1942 and 1943, but no records from this work are available (Bayne, 1967b). They reconditioned and extended the trenches for a total of about 2,100 feet of trenching in 1947. According to Bayne (1967a) who used the trench data to make a resource estimate, the trenching exposed the Titan deposit “*at more or less regular intervals along 900 feet of strike, intermittently cross-sectioning a width of from 300 to 800 feet, but with continuous exposure for sampling across from 120 to 400 feet on all sections.*” In 1947 Titan Iron also drilled 11 diamond drill holes for a total of 1,795 ft. These holes, drilled at -30° to -45° angles, were drilled to depths of 147 to 203 ft with two holes lost at depths of 31 and 74 ft. About half of the core in selected samples from the nine completed holes was analyzed. According to Bayne (1967d), these 20 core samples totaling 670.5 ft were assayed by Swastika Laboratories and the Ontario Department of Mines and averaged 41.10% iron and 19.69% titanium dioxide. As described in Section 6.0, The Ontario Department of Mines and Swastika Laboratories sampled the old trenches in 1948 and analyzed the samples for iron and titanium, with assays running 10.2% to 45.8% iron and 2.9% to 20.1% titanium dioxide. The average of these 120 samples was 32.56% iron and 14.80% titanium dioxide (Bayne, 1967c, d). MDA has seen no data from Titan Iron’s drilling program in 1947 other than brief geologic logs with hand-written assays from the 20 samples taken (Bayne, 1967d); the resource estimate in Section 14.0 does not include the Titan Iron data and is based entirely on Randsburg’s drill program.

The property was again sampled in 1964 by Watts, Griffiths and McOuat Limited for Southfield Mines Limited with assays performed by Technical Service Laboratories of Toronto. Twelve composite bulk samples of chips across seven representative trenches and outcrops averaged 42.20% total iron, 37.27% acid soluble iron, and 18.53% titanium dioxide (Bayne, 1967d; Watts, 1964). Also in 1964, a 2,200 lb bulk sample from 16 trenches was assayed by the Ontario Research Foundation and yielded 32.7% iron and 16.9% titanium dioxide (Bayne, 1967d).

In 1966, Lockwood flew an airborne magnetic survey over the Fanny Lake-Fall Lake area at the request of Titan Iron. The survey covered 20 sq mi and was flown at 500 ft mean ground clearance (Bayne, 1967b). E. R. Mead (1969) conducted a ground magnetic survey of the Titan property for Lake Ontario Steel Company Ltd. in 1968. A Sharpe MF 1 fluxgate magnetometer was used for this survey, which covered 74 line miles. Stations were read at 100-, 50-, or 25-ft intervals based on variations in magnetic intensity. Based on this survey, Mead (1969) concluded that the titaniferous magnetite that crops out near Cribbage Lake is on the nose of a southeast-plunging syncline and that material similar to outcrop samples with a grade of about 35% iron and 15% titanium dioxide might compose half of the rock underlying an area of about 1,200 ft by 700 ft.



MDA is unaware of any exploration work other than that described above prior to Randsburg's involvement with the Titan property.

9.2 Randsburg's Exploration

In 2004, Randsburg conducted regional airborne magnetometer and EM surveys over a portion of eastern Flett Township east of the railroad and continuing over the Fall Lake intrusion into Angus Township. During 2004 and 2005, Randsburg drilled 29 diamond drill holes to test a magnetic and electromagnetic anomaly that coincides with magnetite-ilmenite bearing rocks in Angus Township. Seven holes drilled in 2004 totaled 1,798 m; 22 drilled in 2005 totaled 6,377 m. Based on the results of this drilling, Docherty and Germundson (2006) summarized:

The best indications are that the southern and northern limits have been defined but step out tests for the east and southwest are recommended; and

- *The magnetite-ilmenite mineralization is present as a body that plunges steeply towards the southeast. Its character south of 5190100N is little known due to relatively widespread wet ground. Winter drilling is planned in order to continue the evaluation. Relatively strong magnetism extends southeasterly for 700 to 800 metres.*
- *Titanium and vanadium are present in the intrusive complex away from the areas of pronounced magnetite content although in lower amounts.*
- *Susceptibility and assay data generally correlate directly.*
- *At present the deposit is open, in part, towards the north, east, and the west, and, in several holes, to depth. The extent towards the south is under evaluated.*
- *The greatest intersection to date is from hole RA-05-11, which is continuously mineralized for its entire length, 440 metres of 14.2 % titanium dioxide, 45.6% iron oxide and 0.22% vanadium.*

In 2006 Randsburg drilled eight vertical holes for a total of 1,858 m.

9.3 Prophecy Exploration

Prophecy exploration has been limited to a geologic investigation in 2010, and a GPS survey of the claims in 2014.



10.0 DRILLING

Titan Iron drilled the Titan mineralization in 1947. Brief geologic logs of Titan Iron's 11 core holes were reviewed by MDA, but the exact locations of these holes are uncertain. The logs included handwritten assays for the 20 samples taken that were added much later than the original drilling (Bayne, 1967d). The core was EXT-size or 7/8 inch in diameter, which was thought to have been too small for full recovery of the mineralization (Bayne, 1967d).

Randsburg's program from 2004 through 2006 is the only drilling for which MDA has detailed information (Figure 10.1). All of Randsburg's holes were diamond drill core holes. The holes drilled in 2004 were NQ holes, while those drilled in 2005 and 2006 were BQ holes (personal communication, 2006, Randsburg). Heath & Sherwood of Kirkland Lake drilled the 2004 holes; RonKor of Sudbury drilled the 2005 and 2006 holes. The seven holes drilled in 2004 (RA-04-1 through RA-04-7) totaled 1,798 m. Six of the seven were angle holes. The 22 holes drilled in 2005 (RA-05-1 through RA-05-22) totaled 6,377 m. All but two of the 2005 holes were vertical holes. Eight vertical holes were drilled in 2006 (RA-06-01 through RA-06-08) for a total of 1,858 m. Randsburg's holes are the only ones for which MDA has detailed assay information.

Table 10.1 summarizes Randsburg's drilling on the property. A total of 4,898 assay intervals are contained in the database. Table 10.2 shows the extent of the drilling on the property. Table 10.3 shows the list of drill holes completed on the property. Note that the drill hole coordinates were obtained by a handheld GPS with limited accuracy. All values are metric and in terms of UTM coordinates (NAD 83 datum).

Table 10.1 Randsburg Drilling Summary

Year	Holes	Meters
2004	8	1,854.3
2005	22	6,595.0
2006	8	1,858.0
Totals	38	10,307.3

Table 10.2 Extent of Drilling

Item	Hole Id	Northing	Easting	Elevation	Depth
Northing - Minimum	RA-04-08	5,187,100	614,500	320	53.1
Northing - Maximum	RA-05-21	5,190,306	614,982	320	200.0
Easting - Minimum	RA-04-08	5,187,100	614,500	320	53.1
Easting - Maximum	RA-06-05	5,190,300	615,130	320	257.0
Elevation - Minimum*	RA-04-01	5,190,200	615,000	320	169.2
Elevation - Maximum*	RA-04-01	5,190,200	615,000	320	169.2
Depth - Minimum	RA-04-08	5,187,100	614,500	320	53.1
Depth - Maximum	RA-05-14	5,190,050	615,050	320	605.0

*Estimated-MDA believes that the actual elevations may vary by ± 15 meters

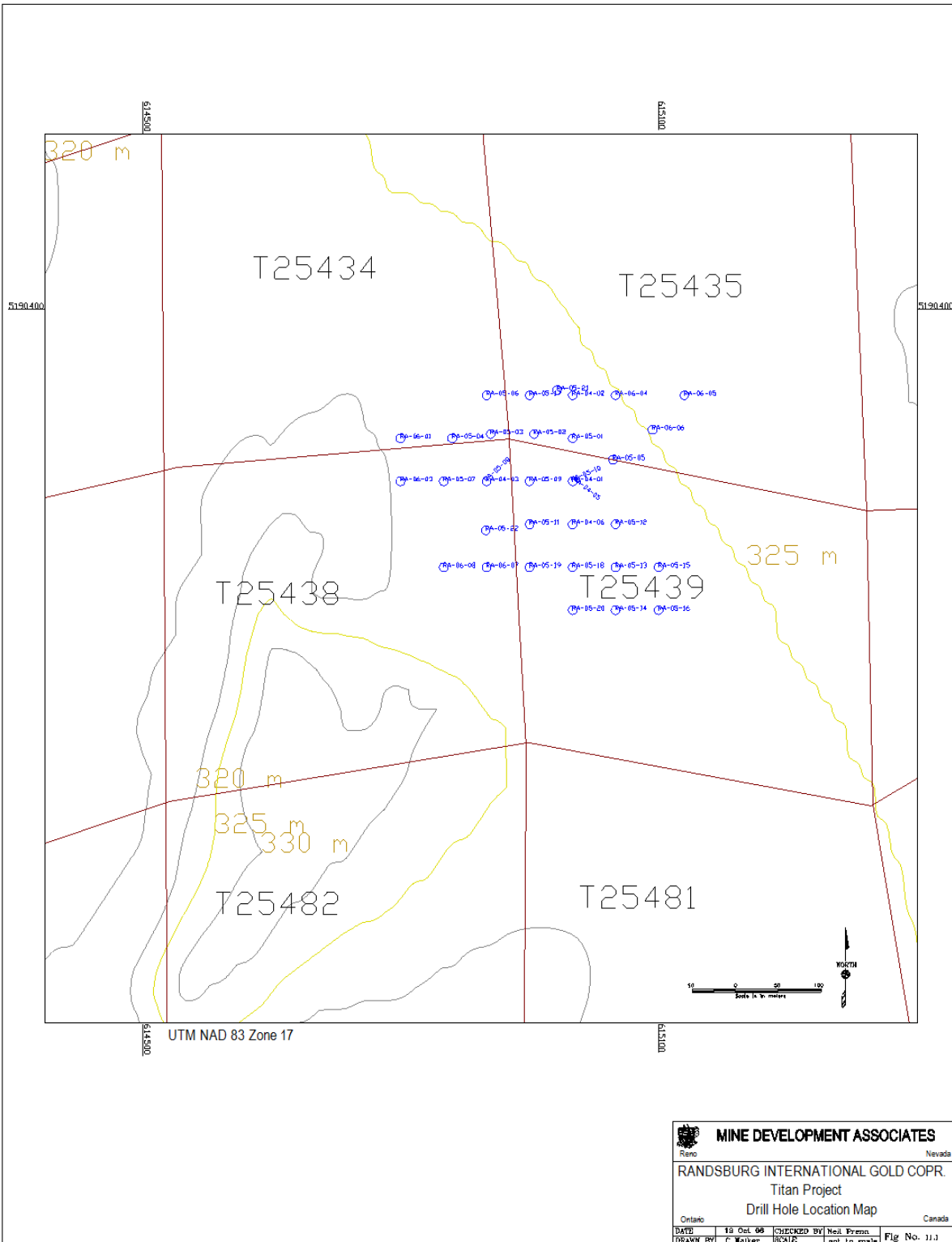


Table 10.3 Drill Hole Coordinates

Hole	North	East	Elevation	Dip	Azmuth	Depth
RA-04-01	5190200	615000	320	-45	270	169.2
RA-04-02	5190300	615000	320	-45	90	260.6
RA-04-03	5190200	614900	320	-45	270	254.4
RA-04-04	5190000	615000	320	-45	270	240.0
RA-04-05	5190200	615000	320	-45	270	238.0
RA-04-06	5190150	615000	320	-90	0	387.0
RA-04-07	5190300	615000	320	-45	270	252.0
RA-04-08	5187100	614500	320	-80	135	53.1
RA-05-01	5190250	615000	320	-90	0	200.0
RA-05-02	5190255	614955	320	-90	0	200.0
RA-05-03	5190255	614905	320	-90	0	200.0
RA-05-04	5190250	614860	320	-90	0	200.0
RA-05-05	5190225	615047	320	-90	0	200.0
RA-05-06	5190300	614900	320	-90	0	200.0
RA-05-07	5190200	614850	320	-90	0	200.0
RA-05-08	5190200	614900	320	-90	0	202.0
RA-05-09	5190200	614950	320	-90	0	402.0
RA-05-10	5190200	615000	320	-90	0	414.0
RA-05-11	5190150	614950	320	-90	0	440.0
RA-05-12	5190150	615050	320	-90	0	416.0
RA-05-13	5190100	615050	320	-90	0	535.0
RA-05-14	5190050	615050	320	-90	0	605.0
RA-05-15	5190100	615100	320	-90	0	200.0
RA-05-16	5190050	615100	320	-90	0	401.0
RA-05-17	5190300	614950	320	-90	0	200.0
RA-05-18	5190100	615000	320	-80	90	300.0
RA-05-19	5190100	614950	320	-90	0	300.0
RA-06-01	5190250	614800	320	-90	0	253.0
RA-06-02	5190250	614750	320	-90	0	198.0
RA-06-03	5190200	614800	320	-90	0	200.0
RA-06-04	5190300	615050	320	-90	0	275.0
RA-06-05	5190300	615130	320	-90	0	257.0
RA-06-06	5190260	615093	320	-90	0	275.0
RA-06-07	5190100	614900	320	-90	0	200.0
RA-06-08	5190100	614850	320	-90	0	200.0
RA-05-22	5190143	614899	320	-90	0	302.0
RA-05-21	5190306	614982	320	-90	0	200.0
RA-05-20	5190050	615000	320	-80	90	278.0



Figure 10.1 Randsburg's Drill Holes





10.1 Sample Preparation

MDA has no information on sampling or any other aspect of Titan Iron's drill program in the 1940s.

The only sampling information available to MDA was from Randsburg's drill program. The 38 drill holes completed by Randsburg are spaced on approximately 50-meter centers. According to Docherty and Germundson (2006), Randsburg's core in the 2004 through 2006 drill programs was cut longitudinally with a diamond saw and sampled in six-foot or two-meter lengths. Core recovery was not recorded on the logs, however, was reported to be good. Half of the sawed core was shipped to Chemex Labs for sample preparation and analysis.



10.2 Significant Drill Hole Intercepts

Table 10.4 summarizes the mineralized intervals above 35% Fe₂O₃.

Table 10.4 Mineralized Intervals

Hole	North	East	Elevation	From	To	Interval	% Fe ₂ O ₃	% TiO ₂	% V
	(top of zone)								
RA-04-01	5,190,200	614,998	318	2.1	13.1	11.0	40.65	11.89	
RA-04-01	5,190,200	614,974	294	36.9	57.0	20.1	47.80	14.50	
RA-04-01	5,190,200	614,956	276	62.5	102.7	40.2	49.47	15.48	
RA-04-01	5,190,200	614,922	242	110.0	169.2	59.1	49.42	15.77	
RA-04-02	5,190,300	615,001	319	1.2	141.1	139.9	42.97	12.68	
RA-04-02	5,190,300	615,159	161	225.2	254.5	29.3	39.88	11.03	
RA-04-03	5,190,200	614,899	319	1.3	35.3	34.0	47.53	15.25	0.18
RA-04-03	5,190,200	614,867	287	47.3	69.3	22.0	53.86	16.99	0.18
RA-04-05	5,190,200	615,003	317	4.8	8.8	4.0	52.90	16.28	0.28
RA-04-06	5,190,150	615,000	318	1.9	7.9	6.0	48.20	14.02	0.24
RA-04-06	5,190,150	615,000	260	59.9	63.9	4.0	51.80	15.48	0.27
RA-04-06	5,190,150	615,000	250	69.9	87.9	18.0	42.46	12.18	0.21
RA-04-06	5,190,150	615,000	212	107.9	115.9	8.0	53.18	16.58	0.28
RA-04-06	5,190,150	615,000	166	153.9	181.9	28.0	54.91	16.73	0.30
RA-04-06	5,190,150	615,000	112	207.9	239.9	32.0	50.74	15.52	0.25
RA-04-06	5,190,150	615,000	76	243.9	291.9	48.0	53.93	17.55	0.28
RA-04-06	5,190,150	615,000	-4	323.9	331.9	8.0	45.38	14.33	0.21
RA-04-06	5,190,150	615,000	-38	357.9	369.9	12.0	44.35	13.46	0.21
RA-04-06	5,190,150	615,000	-60	379.9	387.0	7.2	45.09	13.44	0.21
RA-04-07	5,190,300	614,998	318	3.2	109.2	106.0	44.61	13.29	0.22
RA-04-07	5,190,300	614,889	209	157.2	177.2	20.0	50.94	16.09	0.26
RA-05-01	5,190,250	615,000	318	2.0	60.0	58.0	47.69	14.59	0.23
RA-05-01	5,190,250	615,000	256	64.0	104.0	40.0	48.40	14.11	0.23
RA-05-01	5,190,250	615,000	212	108.0	192.0	84.0	49.07	14.61	0.25
RA-05-02	5,190,255	614,955	318	2.0	30.0	28.0	45.76	14.02	0.23
RA-05-02	5,190,255	614,955	280	40.0	166.0	126.0	47.75	15.22	0.24
RA-05-03	5,190,255	614,905	314	6.0	40.0	34.0	52.03	16.34	0.26
RA-05-03	5,190,255	614,905	240	80.0	100.0	20.0	45.57	14.53	0.21
RA-05-03	5,190,255	614,905	194	126.0	132.0	6.0	41.57	12.38	0.18
RA-05-04	5,190,250	614,860	278	42.0	76.0	34.0	37.76	12.05	0.16
RA-05-04	5,190,250	614,860	206	114.0	120.0	6.0	41.97	13.15	0.15
RA-05-04	5,190,250	614,860	180	140.0	148.0	8.0	41.58	12.34	0.19
RA-05-04	5,190,250	614,860	162	158.0	198.0	40.0	49.11	16.01	0.24
RA-05-06	5,190,300	614,900	312	8.0	18.0	10.0	37.12	11.54	0.17
RA-05-06	5,190,300	614,900	156	164.0	172.0	8.0	39.03	12.08	0.19
RA-05-06	5,190,300	614,900	136	184.0	200.0	16.0	41.99	12.43	0.18
RA-05-08	5,190,200	614,900	319	1.0	63.0	62.0	49.92	15.34	0.24
RA-05-08	5,190,200	614,900	251	69.0	169.0	100.0	52.45	16.69	0.25
RA-05-09	5,190,200	614,950	316	4.0	34.0	30.0	49.27	15.60	0.25
RA-05-09	5,190,200	614,950	276	44.0	76.0	32.0	46.74	14.87	0.23
RA-05-09	5,190,200	614,950	238	82.0	270.0	188.0	46.91	14.39	0.21
RA-05-09	5,190,200	614,950	-10	330.0	336.0	6.0	52.87	16.30	0.26
RA-05-10	5,190,200	615,000	314	6.0	10.0	4.0	31.45	9.09	0.15
RA-05-10	5,190,200	615,000	278	42.0	64.0	22.0	52.42	16.34	0.28
RA-05-10	5,190,200	615,000	252	68.0	80.0	12.0	50.83	15.39	0.25
RA-05-10	5,190,200	615,000	218	102.0	276.0	174.0	50.97	15.68	0.26
RA-05-10	5,190,200	615,000	-16	336.0	346.0	10.0	50.46	15.95	0.25
RA-05-10	5,190,200	615,000	-32	352.0	414.0	62.0	57.16	18.67	0.28



Table 10.4 Mineralized Intervals (Continued)

Hole	North	East	Elevation	From	To	Interval	% Fe ₂ O ₃	% TiO ₂	% V
	(top of zone)								
RA-05-11	5,190,150	614,950	316	4.0	8.0	4.0	49.60	15.45	0.26
RA-05-11	5,190,150	614,950	304	16.0	40.0	24.0	47.93	14.92	0.23
RA-05-11	5,190,150	614,950	272	48.0	70.0	22.0	39.39	11.38	0.17
RA-05-11	5,190,150	614,950	226	94.0	114.0	20.0	38.13	11.50	0.17
RA-05-11	5,190,150	614,950	190	130.0	136.0	6.0	41.97	13.12	0.21
RA-05-11	5,190,150	614,950	174	146.0	236.0	90.0	53.75	16.74	0.27
RA-05-11	5,190,150	614,950	76	244.0	254.0	10.0	55.30	18.16	0.28
RA-05-11	5,190,150	614,950	64	256.0	358.0	102.0	56.76	18.81	0.28
RA-05-11	5,190,150	614,950	-48	368.0	384.0	16.0	47.83	15.68	0.23
RA-05-11	5,190,150	614,950	-80	400.0	440.0	40.0	51.23	16.87	0.25
RA-05-12	5,190,150	615,050	52	268.0	290.0	22.0	49.12	15.04	0.20
RA-05-12	5,190,150	615,050	6	314.0	354.0	40.0	46.53	14.11	0.22
RA-05-12	5,190,150	615,050	-54	374.0	380.0	6.0	51.83	15.62	0.26
RA-05-12	5,190,150	615,050	-70	390.0	410.0	20.0	51.20	15.52	0.26
RA-05-13	5,190,100	615,050	96	224.0	248.0	24.0	44.94	13.47	0.22
RA-05-13	5,190,100	615,050	68	252.0	302.0	50.0	43.55	12.86	0.21
RA-05-13	5,190,100	615,050	12	308.0	390.0	82.0	51.35	15.84	0.27
RA-05-13	5,190,100	615,050	-78	398.0	462.0	64.0	45.63	14.83	0.25
RA-05-13	5,190,100	615,050	-150	470.0	508.0	38.0	47.65	15.23	0.24
RA-05-14	5,190,050	615,050	-91	411.0	427.0	16.0	37.11	10.27	0.17
RA-05-14	5,190,050	615,050	-115	435.0	455.0	20.0	37.33	10.43	0.17
RA-05-14	5,190,050	615,050	-141	461.0	477.0	16.0	39.21	11.31	0.18
RA-05-14	5,190,050	615,050	-167	487.0	503.0	16.0	43.06	12.84	0.21
RA-05-14	5,190,050	615,050	-193	513.0	539.0	26.0	54.76	17.32	0.26
RA-05-17	5,190,300	614,950	312	8.0	84.0	76.0	46.72	14.50	0.24
RA-05-18	5,190,100	615,019	212	110.0	134.0	24.0	41.39	12.16	0.19
RA-05-18	5,190,100	615,036	117	206.0	240.0	34.0	51.74	16.56	0.27
RA-05-18	5,190,100	615,043	78	246.0	300.0	54.0	49.45	16.09	0.24
RA-05-19	5,190,100	614,950	290	30.0	40.0	10.0	42.70	13.86	0.20
RA-05-19	5,190,100	614,950	272	48.0	66.0	18.0	44.20	13.10	0.20
RA-05-19	5,190,100	614,950	228	92.0	98.0	6.0	41.70	12.17	0.18
RA-05-19	5,190,100	614,950	128	192.0	216.0	24.0	43.40	13.07	0.20
RA-05-19	5,190,100	614,950	94	226.0	252.0	26.0	47.78	14.80	0.22
RA-05-19	5,190,100	614,950	60	260.0	300.0	40.0	49.78	15.24	0.23
RA-05-21	5,190,306	614,982	317	3.0	145.0	142.0	51.22	16.01	0.27
RA-05-22	5,190,143	614,899	317	3.0	11.0	8.0	53.25	17.36	0.27
RA-05-22	5,190,143	614,899	303	17.0	49.0	32.0	58.59	19.09	0.29
RA-05-22	5,190,143	614,899	259	61.0	77.0	16.0	47.59	15.17	0.23
RA-05-22	5,190,143	614,899	209	111.0	129.0	18.0	52.94	17.77	0.27
RA-05-22	5,190,143	614,899	171	149.0	267.0	118.0	56.78	19.02	0.29
RA-05-22	5,190,143	614,899	41	279.0	287.0	8.0	46.60	17.15	0.27
RA-06-04	5,190,300	615,050	312	8.0	36.0	28.0	47.59	13.99	0.25
RA-06-04	5,190,300	615,050	278	42.0	76.0	34.0	45.89	13.28	0.23
RA-06-04	5,190,300	615,050	234	86.0	106.0	20.0	54.21	16.80	0.29
RA-06-04	5,190,300	615,050	202	118.0	126.0	8.0	45.85	13.81	0.31
RA-06-04	5,190,300	615,050	166	154.0	200.0	46.0	42.61	11.84	0.20
RA-06-04	5,190,300	615,050	108	212.0	230.0	18.0	42.42	12.65	0.23
RA-06-04	5,190,300	615,050	80	240.0	264.0	24.0	49.66	15.25	0.26
RA-06-05	5,190,300	615,130	318	2.0	30.0	28.0	42.39	12.22	0.23
RA-06-05	5,190,300	615,130	278	42.0	56.0	14.0	43.11	12.75	0.24
RA-06-05	5,190,300	615,130	248	72.0	84.0	12.0	41.12	11.50	0.21
RA-06-05	5,190,300	615,130	186	134.0	146.0	12.0	37.73	11.06	0.20
RA-06-05	5,190,300	615,130	144	176.0	254.0	78.0	44.44	12.94	0.23
RA-06-06	5,190,260	615,093	312	8.0	12.0	4.0	53.10	17.10	0.33
RA-06-06	5,190,260	615,093	304	16.0	32.0	16.0	40.59	11.67	0.22
RA-06-06	5,190,260	615,093	284	36.0	50.0	14.0	42.66	12.43	0.24
RA-06-06	5,190,260	615,093	264	56.0	84.0	28.0	47.06	13.90	0.27
RA-06-06	5,190,260	615,093	232	88.0	122.0	34.0	42.71	12.45	0.23
RA-06-06	5,190,260	615,093	166	154.0	275.0	121.0	46.96	13.94	0.24
RA-06-07	5,190,100	614,900	306	14.0	44.0	30.0	47.03	15.53	0.23
RA-06-07	5,190,100	614,900	268	52.0	72.0	20.0	42.39	14.27	0.20
RA-06-07	5,190,100	614,900	166	154.0	178.0	24.0	46.83	16.30	0.23



11.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

For Randsburg's 2004 and 2005 drilling, Docherty and Gemundson (2006) summarized sample preparation, analyses, and security as follows:

Either R. Ken Germundson or bonded carrier, Manitoulin Transport, transported the samples from Temagami to the ALS Chemex facility in Mississauga. From here the security system used by Chemex was put in place. The samples were crushed and a fraction of the pulp was airlifted to Vancouver for analyses.

The analytical lab manager at Chemex has indicated that the high magnetite content of the samples can cause a problem with the fusion. One common solution is to reduce the sample to flux ratio, such that the nominal sample weight may be considerably less than 30 grams.

The ME-ICP 81 package, which involves a sodium peroxide fusion, acid dissolution and ICP AES finish, was the preferred analytical choice as it gives a more accurate representation of titanium. The 17-element package includes nickel and copper.

Vanadium was assayed via atomic absorption.

For Au, Pt and Pd, a fire assay PGM-ICP23 method was used, which includes an ICP AES finish.

11.1 Check Assays

There was no check assaying conducted for any of Randsburg's drilling. There is one metallurgical test for which the composite from 38 meters of core from drill hole RA-04-06 was made and chemically assayed by Altairnano. The comparison of drill core ICP analysis to the Altairnano chemical analysis is shown in Table 11.1, which shows the chemical analysis somewhat lower than the ICP analysis of the core.

Table 11.1 Metallurgical Test Composite vs Drill Hole Analysis

Source	Weight (kg)	% Fe ₂ O ₃	% Fe	% TiO ₂	% V	% V ₂ O ₅	% Nb ₂ O ₅
Total Combined Composite (Drill Hole Assay)	72.74	57.01	39.87	18.34	0.30	0.56*	NA
Altairnano Chemical Assay	NA	53.51	NA	18.24	0.27**	0.50	0.14

* Calculated from % V

** Calculated from % V₂O₅



11.2 Sample Statistics

Table 11.2 summarizes the descriptive statistics of the drill hole data. A histogram shown in Figure 11.1, was plotted for Fe₂O₃ values which appeared to indicate two normally distributed populations. The scatterplot of Fe₂O₃ and TiO₂ values shown in Figure 11.2 indicates that, as iron content increases, so does titanium.

Table 11.2 Drill Hole Statistics

Item	Number	Mean	Minimum	Maximum	Std.Dev.	C.V.
Al ₂ O ₃	3,597	12.67	4.58	23.00	3.75	0.30
CaO	3,597	4.54	0.00	20.10	2.30	0.51
Co	2,674	0.01	0.00	0.03	0.01	0.38
Fe	3,597	23.79	1.32	45.80	9.84	0.41
Fe ₂ O ₃	4,762	34.17	1.90	67.70	14.51	0.42
MgO	3,597	6.22	0.55	20.70	1.89	0.30
MnO	2,674	0.27	0.02	0.45	0.07	0.25
Ni	2,674	0.03	0.00	0.07	0.01	0.43
SiO ₂	3,597	28.67	3.31	71.60	11.81	0.41
TiO ₂	4,762	9.82	0.23	22.80	5.38	0.55
V	4,583	0.15	0.00	0.52	0.09	0.62

MDA believes that the sample preparation, security, and analytical methods are adequate to determine resources for the area of the project defined by drilling.



Figure 11.1 Histogram of Fe₂O₃ Values

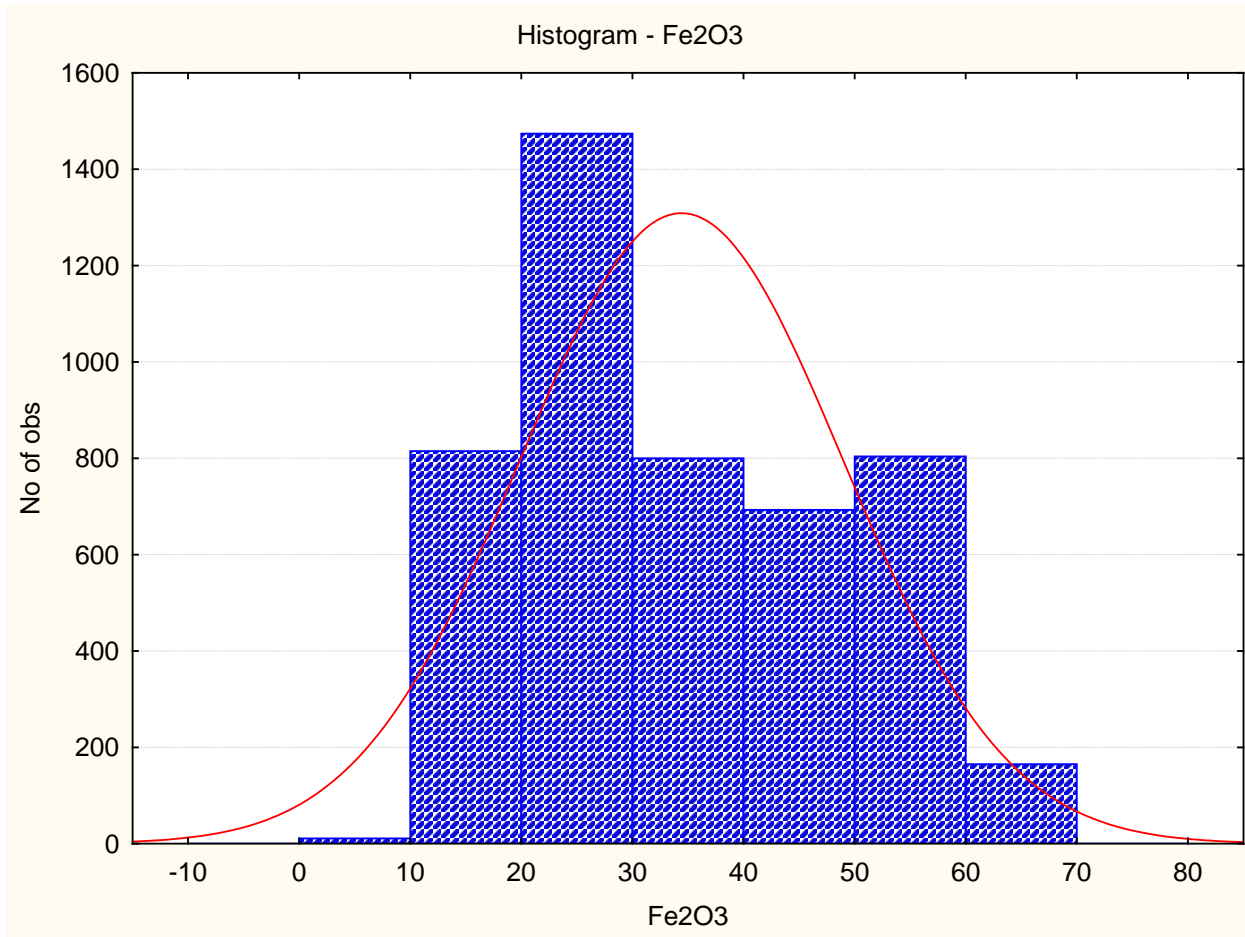
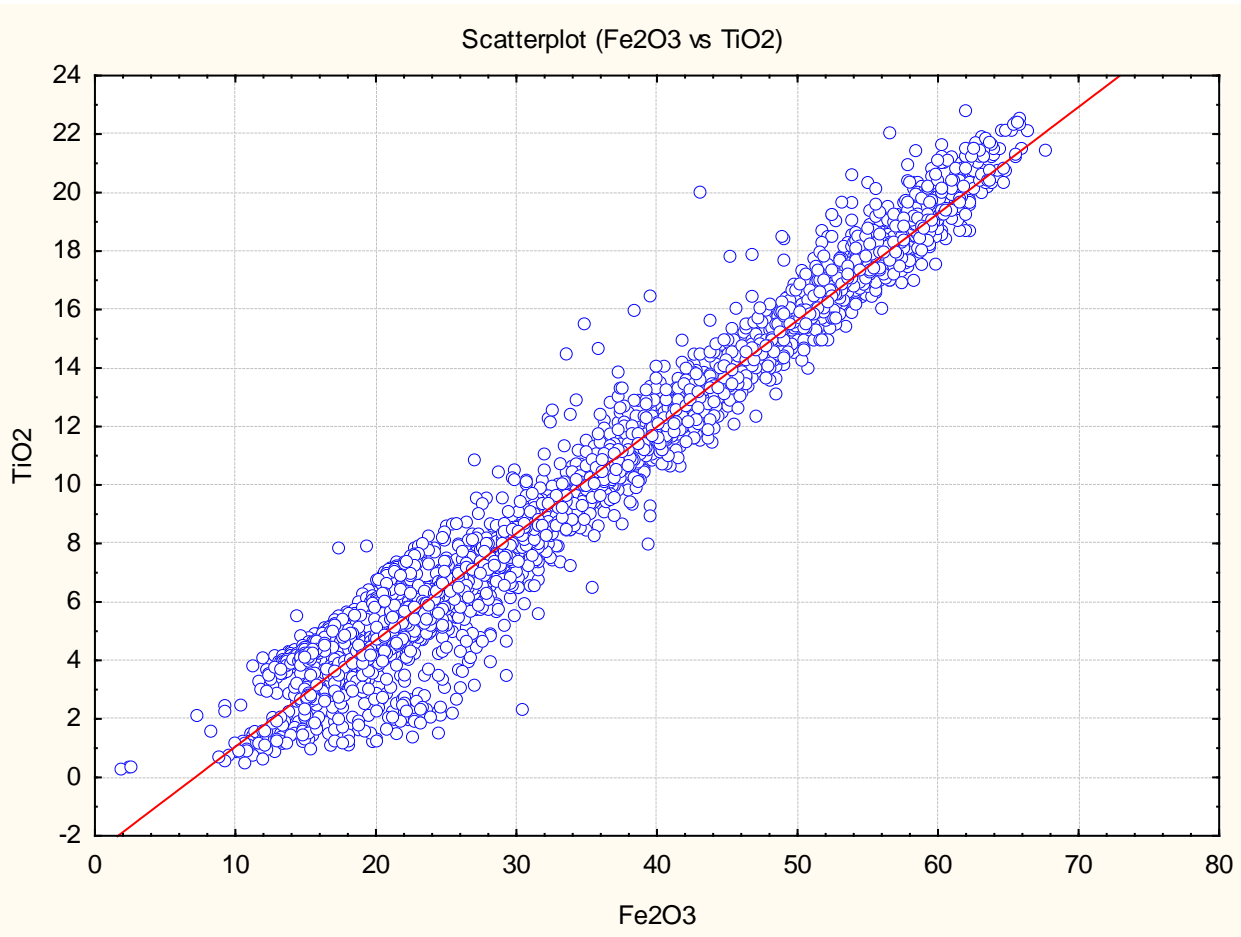




Figure 11.2 Scatterplot of Fe₂O₃ and TiO₂ Values



MDA Investigated the distribution of iron and titanium in the deposit by making qq plots for Fe₂O₃ and TiO₂ values contained in the database. These plots are shown in Figures 11.3 and 11.4 for Fe₂O₃ and TiO₂ respectively. Figure 11.3 indicates several inflections at 15.5, 20, 25, and around 40-45% Fe₂O₃. The qq plot for TiO₂ shows changes in slope around 4, 7, and 12% TiO₂.



Figure 11.3 QQ Plot of Fe₂O₃

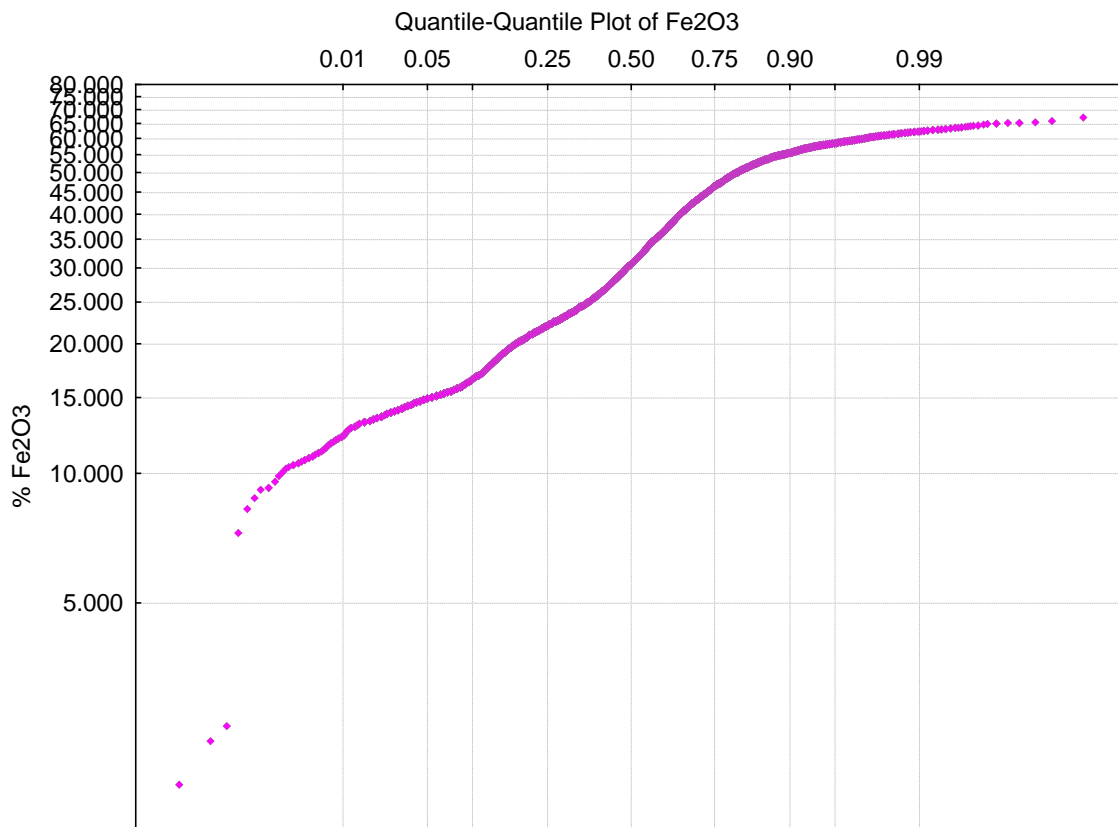
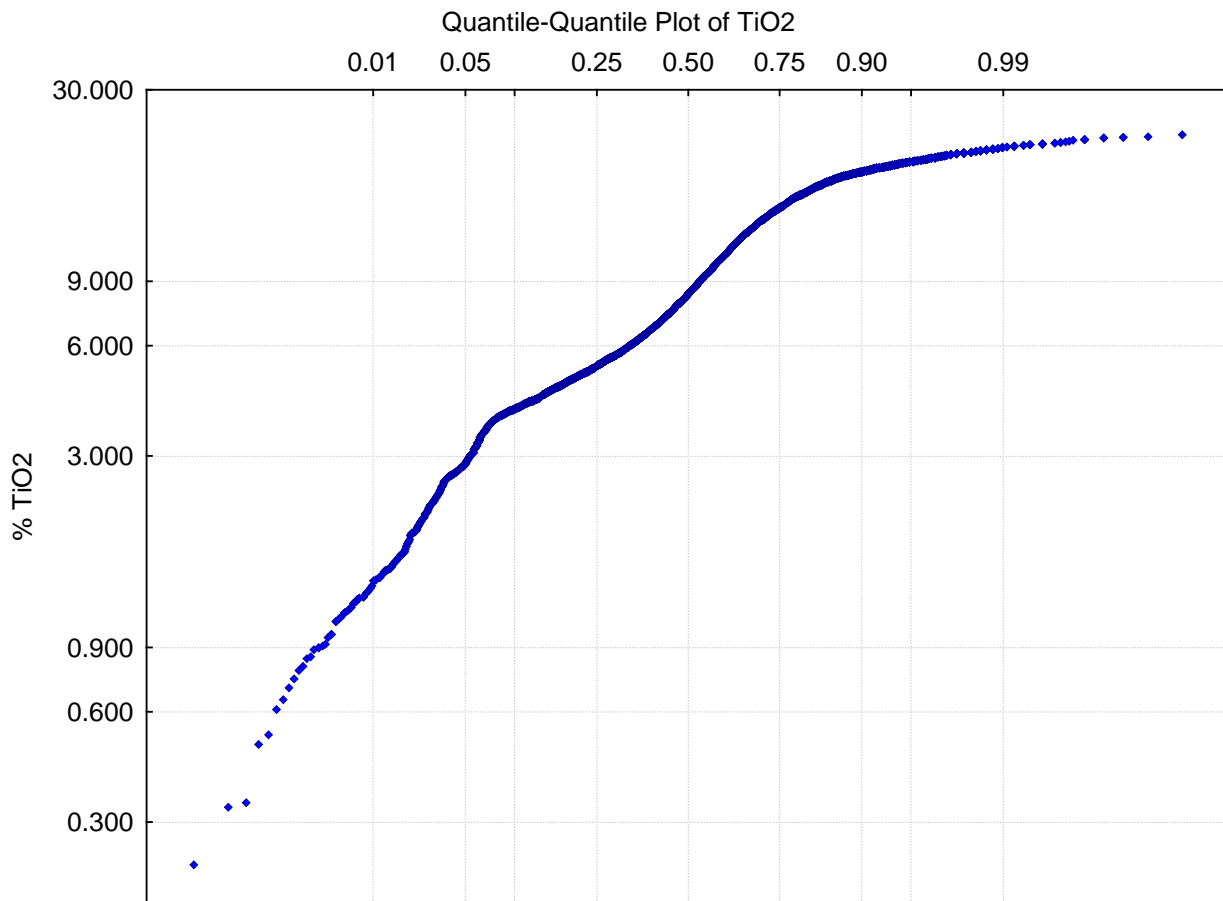




Figure 11.4 QQ Plot of TiO₂





12.0 DATA VERIFICATION

MDA has visited the Titan property. MDA reviewed all the project data generated to date, including drill logs and several of the assay certificates. MDA found no errors within the database compared to the assay certificates. MDA also examined drill core and can state that geological and mineralogical data documented and presented by Randsburg was found in the core and surface exposures. MDA found that in general, the geologic documentation and interpretation fairly represent the Titan deposit.

MDA has reviewed and checked original assays, QA/QC procedures and results, and the digital assay files, examined geologic data and interpretations. Check assaying is limited to one composite used for metallurgical testing. MDA believes that check assaying procedures need to be developed for the project. In addition, the surface locations of the drill holes need to be surveyed by an accurate (± 1 cm) gps receiver or transit. For these reasons, only inferred resources can be calculated for the deposit.

12.1 Site Visit

A site visit was conducted on October 13th 2017 by the second author (Mr. Neil Pettigrew).

The Property was accessed via the Rabbit Lake road (17 kilometers) off Highway 11 then via a network of old logging roads (15 kilometers) by 4x4 truck followed by a hike on foot via old drill trails (7.5 kilometers). The property is crisscrossed by a network of old drill trails and several overgrown drill pads were observed. Only one BQ vertical casing (NAD83 Zone 17 UTM Co. 614,949E, 5,190,206N) was found and it appears that majority of the casings were pulled. An old exploration camp consisting of a plywood cabin and outbuildings in various states of decay were observed (NAD Zone 17 UTM Co. 614,987E, 5,190,288N). No exploration activity since the Randsburg drill programs was observed. Several magnetite mineralized outcrops were observed consisting of gabbroic rocks with highly deformed bands of massive magnetite. A total of 2 samples were collected from these outcrops for analysis the result of which are tabulated in Table 12.1, assay certificates are located in Appendix B.

Table 12.1 Check Samples Collected From Outcrop on the Titan Property

Sample No.	Easting	Northing	Fe ₂ O ₃ wt%	TiO ₂ wt%	V ₂ O ₅ wt%
NP-Ti-17-006	614,907	5,190,299	56.12	18.62	0.528
NP-Ti-17-007	614,976	5,190,113	34.57	9.19	0.265

Mr. Neil Pettigrew also visited and sampled the Randsburg drill core which is currently stored at the Temagami First Nations storage yard located ~6km south of the town of Temagami on Highway 11 (NAD 83 Zone 17 TUM Coordinates 590,364E, 5,207,958N). The drill core is currently stored outside on pallets and held together with steel strapping. The core has been out in the weather for ~10 years and several of the steel straps have let go resulting in some spillage of the core. The upper boxes on the pallets have also started to rot, however, the majority of the core is intact. Further complicating matters is the fact that the core is not in order and only half of the boxes have metal tags the rest have magic marker labels which have faded. However, the sample tags which were inserted at the end of each sample are in good shape. Therefore, with some effort the core can be put back in order, metal tags



placed on the boxes, and placed in racks with roofs which would greatly extend the life of the drill core boxes. A total of 5 samples were collected consisting of the remaining half of the split drill core. The check sample results with corresponding Randsburg assays are tabulated in Table 12.2. Check sample assay certificates are located in Appendix B.

Table 12.2 Check Sample Collected From Ransburg Diamond Drill Core.

Hole No.	From	To	Randsburg Sample No.	Fe ₂ O ₃ wt%	TiO ₂ wt%	V wt%	Pettigrew Sample No.	Fe ₂ O ₃ wt%	TiO ₂ wt%	V wt%	V ₂ O ₅ wt%
RA-05-05	117m	119m	B058003	38.1	10.85	0.18	NP-Ti-17-001	39.57	11.65	0.19	0.343
RA-05-13	44m	45m	B059858	20.1	4.64	0.05	NP-Ti-17-002	20.66	4.84	0.04	0.079
RA-05-14	529m	531m	B422793	55.4	17.85	0.26	NP-Ti-17-003	55.61	18.56	0.29	0.509
RA-05-04	156m	158m	B046375	33.7	9.76	0.14	NP-Ti-17-004	38.64	11.8	0.21	0.375
RA-05-21	33m	35m	B059448	55.9	18.55	0.32	NP-Ti-17-005	60.63	20.32	0.34	0.61

All check samples were shipped via Manitoulin Transport to Activation Laboratories Ltd. facility in Timmins Ontario for analysis. Samples were analyzed by roasting (loss on ignition (LOI) followed by fusion in a platinum crucible with lithium metaborate and lithium tetraborate which were then analyzed on a Panalytical Axios Advanced wavelength dispersive XRF. Detection limits for Fe₂O₃ were 0.01 wt%, TiO₂ 0.01 wt%, and V₂O₅ 0.003 wt%.

In MDA's opinion, the drill hole data is suitable to be used in an inferred resource estimate. If a more accurate survey is completed of drill hole locations, with more definitive metallurgical testing, MDA believes that the data is suitable to estimate higher resource categories.



13.0 MINERAL PROCESSING AND METALLURGICAL TESTING

13.1 Randsburg Metallurgical Testing

Preliminary metallurgical tests have been completed on mineralized samples from hole RA-04-06. These samples were shipped to Altairnano for testing with a proprietary hydrochloride pigment process. Table 13.1 summarizes the two sample composites used for the testwork.

Table 13.1 Altairnano Metallurgical Test Composites

Hole	Sample	From	To	Weight (kg)	% Fe ₂ O ₃	% Fe	% TiO ₂	% V
RA-04-06	B045638	155.85	157.85	3.41	57.20	40.00	18.00	0.30
RA-04-06	B045639	157.85	159.85	4.02	55.70	39.00	17.30	0.31
RA-04-06	B045640	159.85	161.85	3.68	56.10	39.20	17.20	0.29
RA-04-06	B045641	161.85	163.85	3.77	58.70	41.00	17.95	0.30
RA-04-06	B045642	163.85	165.85	4.17	57.40	40.10	17.70	0.30
RA-04-06	B045643	165.85	167.85	4.21	58.50	40.90	18.05	0.30
RA-04-06	B045644	167.85	169.85	3.89	56.90	39.80	17.45	0.30
RA-04-06	B045645	169.85	171.85	4.05	58.80	41.10	18.00	0.31
RA-04-06	B045646	171.85	173.85	3.79	56.90	39.80	17.20	0.30
Composite 1		155.85	173.85	34.99	57.37	40.11	17.65	0.30
RA-04-06	B045690	259.85	261.85	3.56	57.40	40.10	18.85	0.33
RA-04-06	B045691	261.85	263.85	3.81	54.30	38.00	18.45	0.28
RA-04-06	B045692	263.85	265.85	3.30	51.60	36.10	16.95	0.25
RA-04-06	B045693	265.85	267.85	3.51	53.80	37.60	17.60	0.28
RA-04-06	B045694	267.85	269.85	3.66	54.70	38.30	18.10	0.31
RA-04-06	B045695	269.85	271.85	3.55	55.60	38.90	18.00	0.31
RA-04-06	B045696	271.85	273.85	4.25	62.60	43.80	21.50	0.34
RA-04-06	B045697	273.85	275.85	4.36	58.50	40.90	19.95	0.22
RA-04-06	B045698	275.85	277.85	3.73	59.60	41.70	20.50	0.32
RA-04-06	B045699	277.85	279.85	4.02	56.80	39.70	19.05	0.32
Composite 2		259.85	279.85	37.75	56.68	39.64	18.98	0.30

In addition, Altairnano indicated the average Niobium content of the composites to be about 0.1% Nb.

Altairnano investigated the core and concluded that the mineralization was mainly in the form of magnetite intergrown with ilmenite (60%), ilmenite (10%), and 30% non-titanium bearing gangue minerals. Based on Randsburg petrographic and microprobe studies, Altairnano estimated that 60% of the contained titanium was in the form of ilmenite and the remaining 40% contained in the magnetite. Altairnano completed an SEM-EDX examination and concluded that the intergrown magnetite/ilmenite mineralization may need to be crushed to less than 75 microns (200 mesh) for effective liberation of the minerals.



Altairnano completed a proprietary “Altair Hydrochloride Pigment Process” (“AHPP”) dissolution test on the composites. This process uses hydrochloric acid and hydrochloride gas to dissolve iron, titanium and vanadium metals. The test concluded that 88% of the iron, 96% of the titanium and 80% of the vanadium could be dissolved after 4 hours using this process. The AHPP test only tested dissolution, so overall product recovery in saleable products is unknown using this process.

Altairnano suggested pre-treatment of the material in order to improve dissolution kinetics. Dry magnetic separation was tried with poor results. Altairnano then sent 5 kg of composite sample to Hazen Research in Golden, Colorado for wet magnetic testing. Hazen obtained a high-grade concentrate by wet magnetic separation but the overall recovery was poor. Hazen suggested additional testing using magnetic separation, gravity and flotation.

Altairnano concluded that additional testing is required at finer grind size in the 5-20-micron range.

13.2 Prophecy Metallurgical Testing

Hazen Research Inc was requested in 2011 to determine the mineralogical characterization of a vanadium-bearing ilmenite-magnetite sample from the Titan Deposit. Hazen concluded that in general, the study showed that the titanium occurs as distinct granular ilmenite particles usually intergrown with the magnetite, as a fine network of ilmenite and/or ulvöspinel lamellae in the magnetite matrix, and as an ultrafine (micron-sized) uniform admixture of magnetite with ulvöspinel, which has the appearance of homogeneous magnetite under the microscope. Ordinary titanium-free magnetite is evidently absent. Vanadium is associated with both the magnetite–ulvöspinel component and the discrete ilmenite.

The preliminary conclusion derived from the results is that an ilmenite concentrate could probably be produced by wet low-intensity magnetic separation. However, the strongly magnetic, i.e., magnetite, fraction will likely be high in titanium. This means that the recovery of titanium as ilmenite from the total titanium in the feed may be lower than normal.

MDA concludes that additional testwork is required to determine product recoveries and the costs to obtain the products to complete a preliminary economic assessment for the deposit, however, the testwork does indicate that recoveries in the range of other similar operating properties may be possible, however, titanium recovery may be lower than normal. The additional work should include both continued testing with the new and present conventional processing methods for iron, ilmenite, and vanadium deposits. The initial Altairnano testwork indicated good leaching recoveries.



14.0 MINERAL RESOURCE ESTIMATE

14.1 Specific Gravity

MDA collected three surface samples and three half-core samples from drill hole RA-04-06 (163.85 to 165.85). These samples were given to Kappes, Cassidy and Associates (“KCA”) for density testing by coating the samples in wax and weighing the dry samples and determining the volume by water displacement (ASTM Method C914-95). KCA needed to break the pieces of core to fit the density testing apparatus. The results of the density tests are shown in Table 14.1

Table 14.1 Density Testing of Mineralized Materials

KCA Sample No.	Received Weight, grams	Weight + Wax, grams	Weight in Water, grams	Density, grams /cm3
36113 A-Core	355.18	360.29	272.71	4.34
36113 A-Core	266.92	270.86	203.16	4.21
36113 A-Core	218.16	221.06	167.59	4.34
36113 B-Core	414.34	420.03	317.12	4.29
36113 B-Core	305.09	308.97	233.99	4.32
36113 C-Core	310.69	315.06	236.55	4.22
36113 C-Core	376.10	381.44	288.27	4.31
36113 D-Sample	1261.75	1276.93	966.29	4.29
36113 E-Sample	263.76	267.07	201.14	4.24
36113 F-Sample	133.42	135.33	102.58	4.35
			Average:	4.29

MDA believes that additional testing is warranted for both mineralized and non-mineralized materials. A relationship may be developed between density and iron content.

14.2 Resource Estimate

Only inferred resources can be calculated for the project since there has been limited check assaying and the drill hole survey has only been completed by a hand held GPS system. Similar Vanadium-Iron-Titanium deposits have recently gone into production in Brazil and Australia. A number of other deposits are in the early exploration and preliminary economic assessment stage. Metallurgical processes have been developed to recover metals from these deposits, based on magnetic separation and leaching to produce iron and titanium concentrates and vanadium pentoxide, or roasting concentrates to produce ferro-vanadinite.

To complete the mineralized deposit shape, MDA plotted east/west cross sections on 50 m intervals with iron and titanium values with geology plotted on one side. The geologic unit logged as magnetite olivine gabbro contained most of the material in the highest-grade population, or above 40% Fe₂O₃ and 12% TiO₂. Mineralized zones were drawn on the cross sections using an approximate 40% Fe₂O₃ cutoff grade. A typical cross section is shown in Figure 14.1.

The mineralized zones were digitized and assay intervals within the mineralized zones were coded. Basic statistics are shown in Table 14.2 for materials inside and outside the mineralized zones.



Figure 14.1 Typical Cross Section

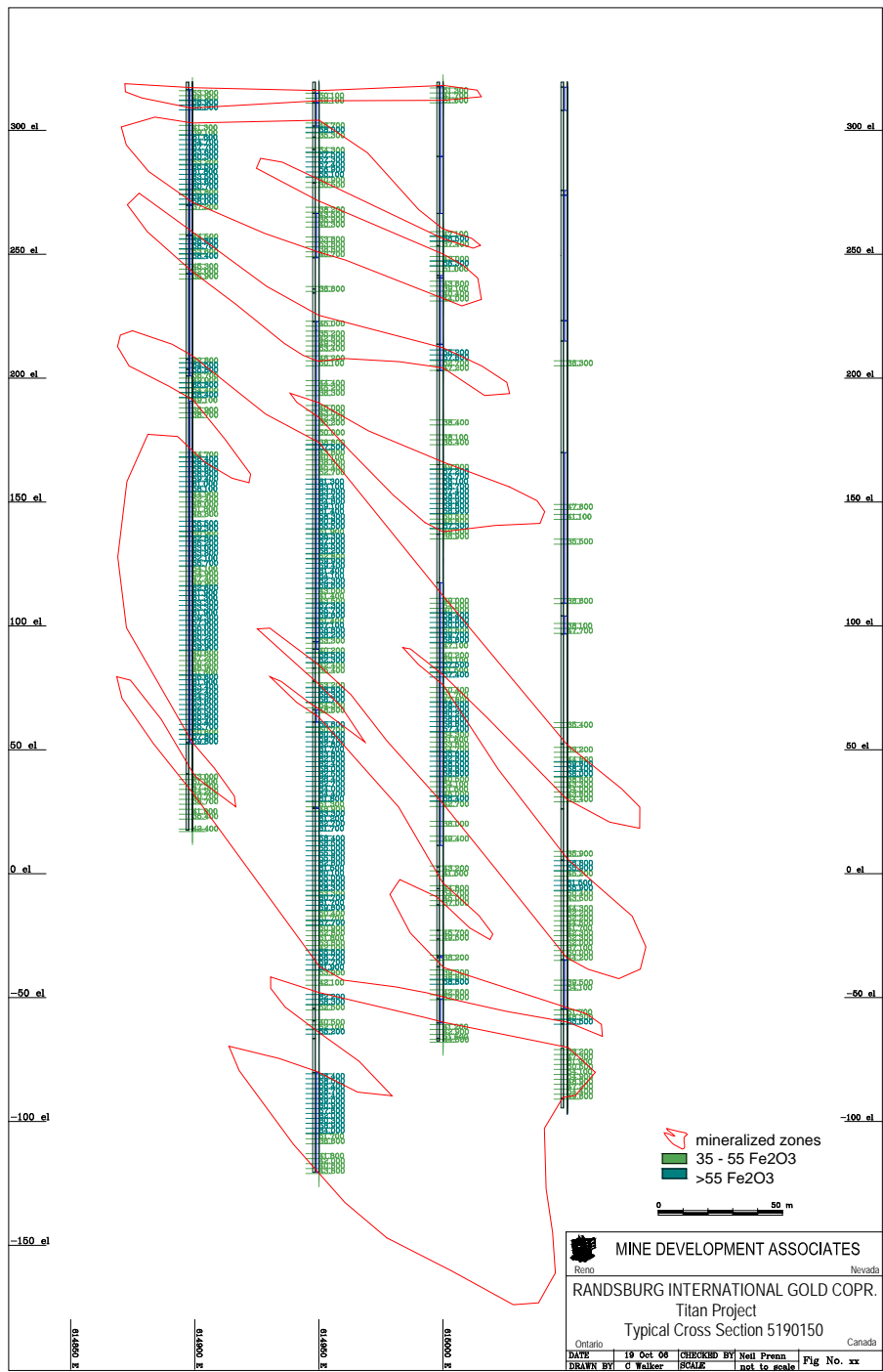




Table 14.2 Statistics of Materials Inside and Outside the Mineralized Zones

Zone	Item	Valid N	Mean	Minimum	Maximum	Std.Dev.	C.V.
Mineralized	Fe ₂ O ₃	1968	48.26	12.00	67.70	9.54	0.20
Mineralized	TiO ₂	1968	14.96	0.90	22.80	3.80	0.25
Mineralized	V	1811	0.24	0.01	0.52	0.06	0.26
Non-Mineralized	Fe ₂ O ₃	2929	24.94	1.90	57.40	8.15	0.33
Non-Mineralized	TiO ₂	2929	6.43	0.23	19.65	2.91	0.45
Non-Mineralized	V	2772	0.09	0.00	0.32	0.05	0.58

QQ plots of assays within the mineralized zone are shown in Figure 14.2 and Figure 14.3 for Fe₂O₃ and TiO₂ respectively. These plots indicate that for more detailed grade modeling two mineralized zones might be considered for both Fe₂O₃ (above and below 52%) and TiO₂ (above and below 15%).

Figure 14.2 QQ Plot of Fe₂O₃ Grades Inside Mineralized Zones

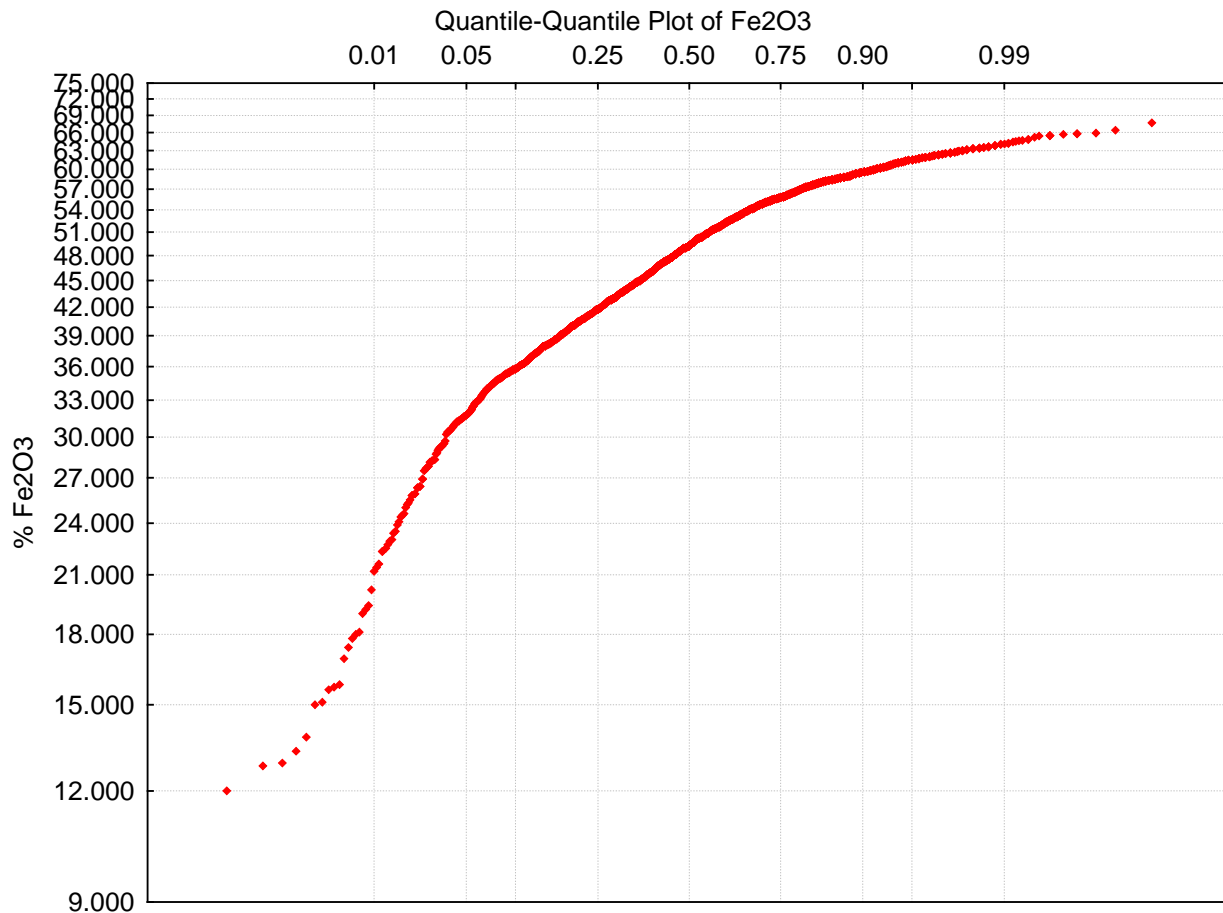
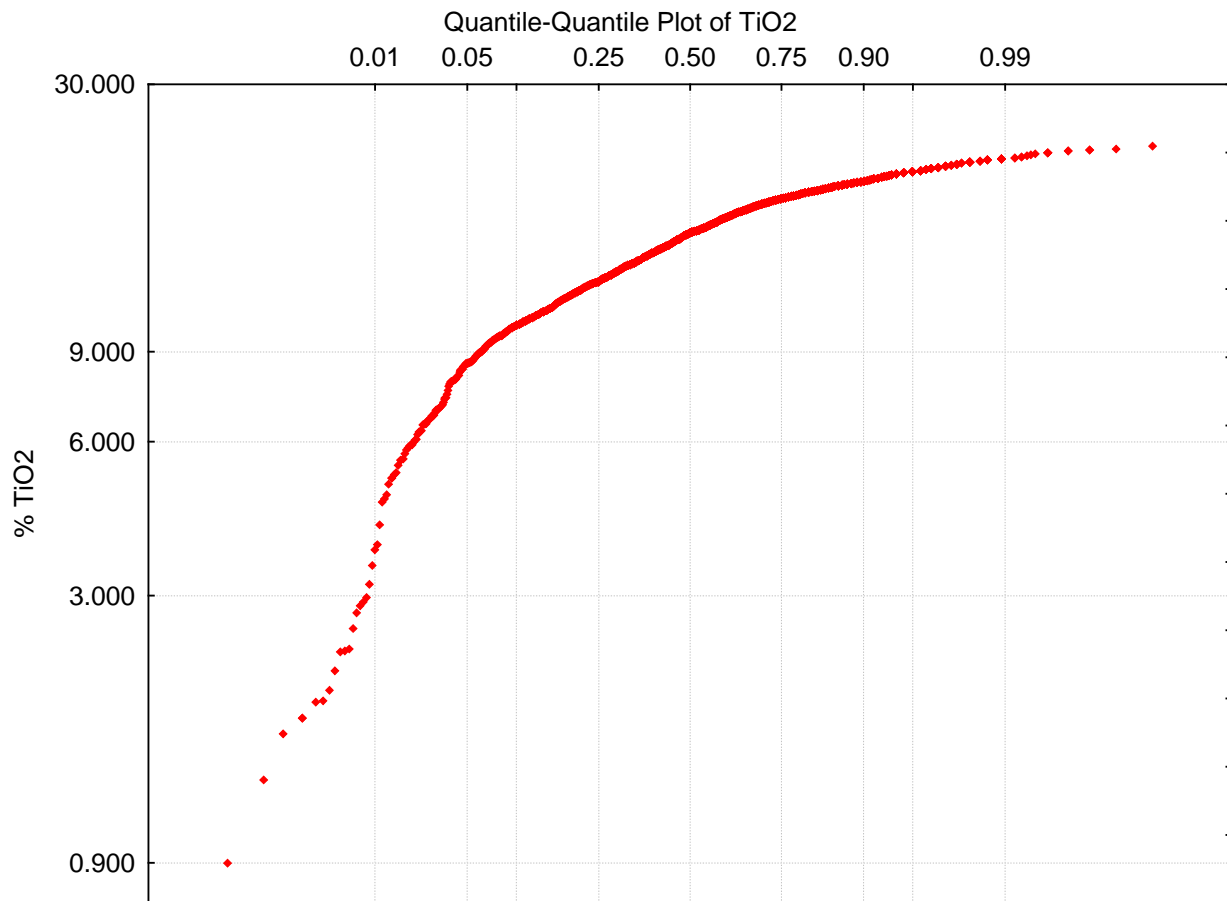




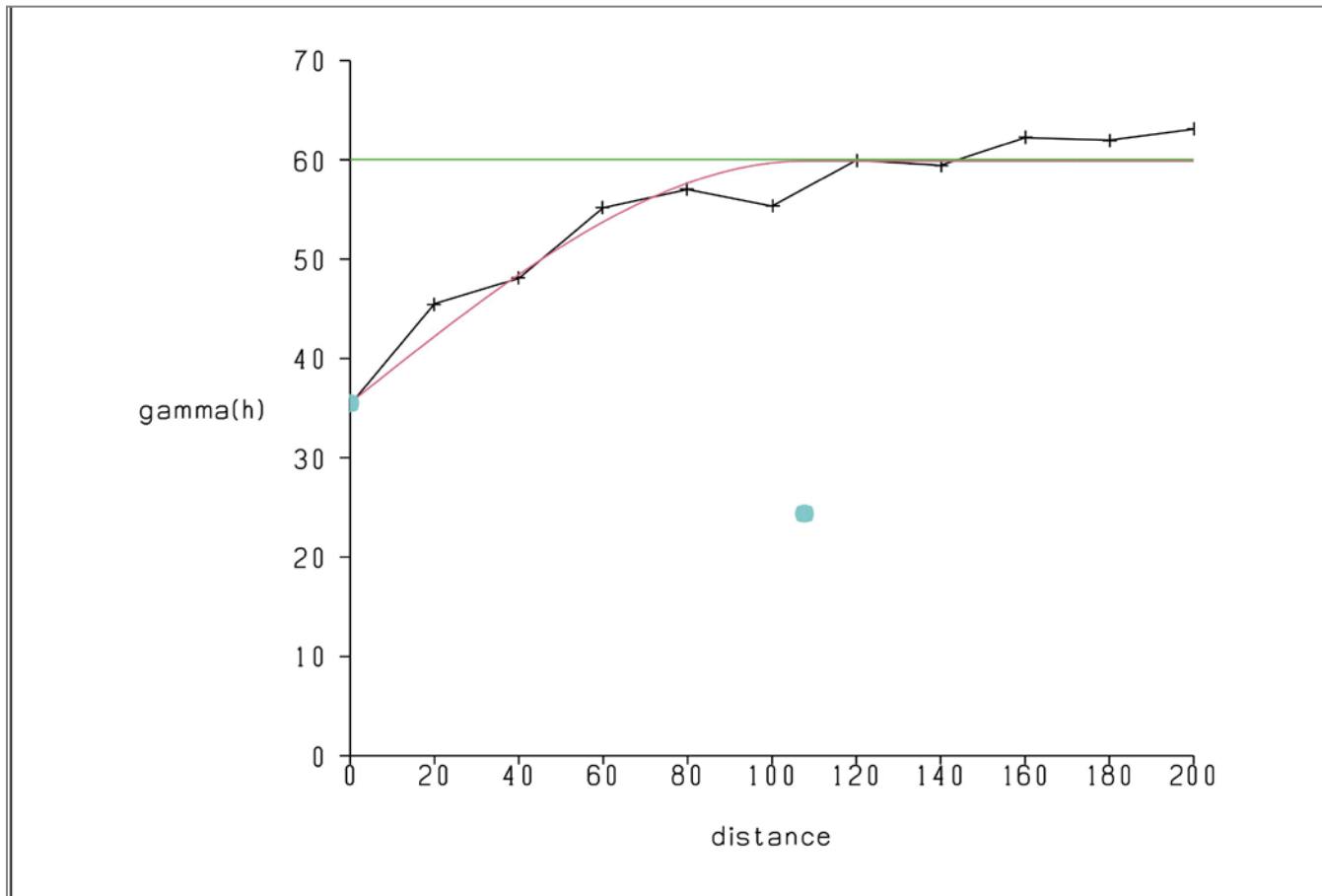
Figure 14.3 QQ Plot of TiO₂ Grades Inside Mineralized Zones



Omni-directional variograms were modeled for the deposit. The variogram for Fe₂O₃ indicated a range of about 108 meters as shown in Figure 14.4.



Figure 14.4 Omni-directional Fe₂O₃ variogram



Grades for Fe₂O₃, TiO₂, and V were interpolated by ordinary kriging into 5 x 5 x 10 m blocks from 10 m composites from mineralized zones. These kriged block grades were compared to grades estimated by inverse distance methods and were essentially the same globally. A minimum of one composite and a maximum of nine composites were used to interpolate grades. Since the economics and recoveries of the different materials contained in the mineralized zone have not been defined, all of the material estimated within the high-grade mineralization boundary (approximately a 40% Fe₂O₃ cutoff grade) and within the variogram range of 108 m from a composite has been defined as an inferred resource. A summary of mineralization above a 40% Fe₂O₃ cutoff grade is shown in Table 14.3.



Table 14.3 Titan Summary of Mineralized Material

Elevation	Tonnes (000's)	% Fe ₂ O ₃	% TiO ₂	% V
-220	17.7	53.50	17.00	0.26
-210	53.6	54.10	17.21	0.26
-200	64.9	51.50	16.25	0.25
-190	89.0	46.50	14.46	0.23
-180	146.4	46.45	14.49	0.23
-170	216.1	45.89	14.23	0.23
-160	277.2	45.88	14.11	0.22
-150	350.2	46.13	14.25	0.23
-140	423.6	45.97	14.21	0.23
-130	479.9	44.91	13.78	0.22
-120	534.6	43.24	13.19	0.22
-110	564.1	44.67	13.82	0.22
-100	566.3	47.54	14.84	0.24
-90	557.7	48.39	15.05	0.24
-80	544.3	48.31	14.86	0.23
-70	508.4	48.17	14.77	0.24
-60	499.2	48.49	15.00	0.24
-50	536.3	48.85	15.25	0.24
-40	575.4	49.36	15.47	0.25
-30	632.8	50.20	15.79	0.25
-20	623.7	51.00	16.18	0.25
-10	570.0	52.40	16.89	0.26
0	563.6	52.80	17.09	0.26
10	638.7	51.24	16.37	0.25
20	840.3	50.80	16.06	0.25
30	1,004.4	49.86	15.53	0.25
40	1,147.6	48.47	14.84	0.23
50	1,279.5	47.80	14.48	0.23
60	1,346.5	48.16	14.66	0.24
70	1,366.9	48.57	14.90	0.24
80	1,357.2	48.75	15.00	0.25
90	1,392.1	50.34	15.67	0.26
100	1,429.1	50.53	15.68	0.26
110	1,415.2	50.07	15.44	0.25
120	1,422.7	49.61	15.31	0.25
130	1,485.9	47.04	14.27	0.23
140	1,484.3	46.40	13.93	0.22
150	1,366.4	47.49	14.41	0.24
160	1,219.4	48.18	14.71	0.24
170	1,090.7	49.24	15.09	0.25
180	1,038.2	49.62	15.29	0.25
190	1,163.1	49.03	15.08	0.25
200	1,361.0	47.83	14.63	0.24
210	1,341.7	47.13	14.42	0.23
220	1,221.6	47.22	14.47	0.23
230	1,297.7	47.00	14.37	0.23
240	1,434.5	46.72	14.22	0.23
250	1,483.8	46.98	14.37	0.23
260	1,550.3	47.26	14.52	0.23
270	1,391.6	47.76	14.78	0.24
280	1,351.9	46.89	14.44	0.23
290	1,577.6	45.83	13.96	0.23
300	1,450.0	46.18	14.11	0.23
310	638.1	46.42	14.16	0.24
Totals	48,983.2	48.09	14.82	0.24



An equivalent vanadium recovered value was calculated and was used to optimize a pit. The commodity prices and recoveries used to determine the material inside an optimized pit is shown in Table 14.4.

Table 14.4 Equivalent Vanadium Calculation

Material	Price \$/metric unit*	Basis	Concentrate Grade	Recovery	Recovered Value	Equivalent V
V	\$176.37	\$ 8/lb V		75.0%	\$132.28	1
FeO2	\$1.56	\$100/t Fe2O3	64% Fe2O3	65.0%	\$1.02	0.0077
TiO2	\$3.70	\$200/t tiO2	54% TiO2	65.0%	\$2.41	0.0182

Note: 1 % of a metric tonne is 22.046 lbs

The following parameters were used to determine material inside an optimized pit:

- 40% Fe2O3 Cutoff Grade
- 50 degree pit slope
- Material processed density 4.29 tonnes/cu meter; Waste density 3.00 tonnes/cu meter
- Mining cost \$2.10 per tonne mined
- Processing cost \$50 per tonne processed
- G & A cost \$2.00 per tonne processed
- Price of \$8/lb vanadium recovered

Based on the parameters used for pit optimization, the pits shown in Table 14.5 were obtained.

Table 14.5 Pit Optimization Results

Pit	Vanadium Price \$/lb	Total Tonnes 000's	Waste Tonnes 000's	"Ore" Tonnes 000's	Strip Ratio t waste/t ore	Max Bench	Min Bench	FE2O Units 000's	FE2O Grade %	TiO2 Units 000's	TiO2 Grade %	V Units 000's	V Grade %	EQ V Grade %
1	\$3.68	1,407.4	497.9	909.5	0.55	58	52	46,767.7	51.42	14,791.3	16.26	221.0	0.24	0.92
3	\$4.00	25,074.1	12,015.4	13,058.8	0.92	59	38	634,503.0	48.59	195,576.1	14.98	3,151.3	0.24	0.88
4	\$4.16	50,571.9	29,412.6	21,159.4	1.39	59	33	1,027,174.5	48.55	316,240.7	14.95	5,117.1	0.24	0.88
6	\$4.48	70,631.6	44,211.6	26,420.0	1.67	59	29	1,273,862.3	48.22	391,729.2	14.83	6,333.5	0.24	0.87
9	\$4.96	159,652.8	120,777.9	38,874.9	3.11	59	20	1,874,513.0	48.22	576,634.9	14.83	9,305.1	0.24	0.87
13	\$5.60	209,237.5	166,294.6	42,942.9	3.87	59	14	2,075,481.5	48.33	639,146.0	14.88	10,305.7	0.24	0.87
16	\$6.08	227,140.4	183,036.0	44,104.4	4.15	59	13	2,132,120.8	48.34	656,624.0	14.89	10,590.2	0.24	0.87
22	\$7.04	241,787.9	196,957.4	44,830.5	4.39	59	12	2,167,062.0	48.34	667,400.0	14.89	10,765.8	0.24	0.87
28	\$8.00	272,111.5	226,115.2	45,996.3	4.92	59	10	2,222,403.9	48.32	684,589.1	14.88	11,042.1	0.24	0.87
34	\$9.12	299,812.2	252,898.9	46,913.3	5.39	59	9	2,264,066.5	48.26	697,416.6	14.87	11,251.2	0.24	0.87
40	\$10.08	320,630.0	273,125.8	47,504.2	5.75	59	8	2,290,447.5	48.22	705,478.7	14.85	11,383.7	0.24	0.87
51	\$12.00	353,443.6	305,162.8	48,280.7	6.32	59	7	2,324,216.6	48.14	715,739.5	14.83	11,549.8	0.24	0.87
64	\$16.00	370,453.4	321,879.9	48,573.5	6.63	59	7	2,337,066.8	48.11	719,648.5	14.82	11,612.7	0.24	0.87

The deposit resources based on the grade model at a 40% Fe₂O₃ cutoff grade and the results of pit optimization based on the parameters shown above is tabulated in Table 14.6. MDA is not aware of any environmental, permitting, legal title, or other relevant factors that could material effect the resource estimate.



Table 14.6 Titan Resource Summary

Tonnes 000's	% Fe₂O₃	% TiO₂	% V
45,996.3	48.32	14.88	0.24



15.0 MINERAL RESERVES

16.0 MINING METHODS

17.0 RECOVERY METHODS

18.0 PROJECT INFRASTRUCTURE

19.0 MARKET STUDIES AND CONTRACTS

**20.0 ENVIRONMENTAL STUDIES, PERMITTING AND SOCIAL OR COMMUNITY
IMPACT**

21.0 CAPITAL AND OPERATING COSTS

22.0 ECONOMIC ANALYSIS

Sections 15 through 22 are for advanced properties and do not apply to the Titan Deposit. There are no Mineral Reserves for the Titan Deposit, and an economic study has not been completed for the property.



23.0 ADJACENT PROPERTIES

MDA is not aware of any pertinent information about adjacent properties.



24.0 OTHER RELEVANT DATA AND INFORMATION

MDA is not aware of other relevant data and information on the property.



25.0 INTERPRETATION AND CONCLUSIONS

The deposit occurs in a relatively wet and remote area located north of North Bay, Ontario. The access to the deposit is better during winter months when the ground is frozen. The deposit is open in several directions; however, wet conditions limit drilling in most of the open areas to winter months.

A total of 38 diamond drill holes have defined an inferred resource of 46.0 million tonnes of material grading 48.32% Fe₂O₃, 14.88% TiO₂, and 0.24% V contained in an optimized pit. Only inferred resources can be calculated for the project since the drill holes have not been properly surveyed and the recovery of saleable products and economics of the project have not been defined. In addition, additional density testing should be completed. The 50-meter grid pattern used for drilling the deposit appears to be adequate to define the mineralization.

The most important items to complete are a metallurgical testing program, obtain product recoveries and complete a market study to determine where the potential product markets are.



26.0 RECOMMENDATIONS

The Titan project contains significant iron, titanium, and vanadium mineralization. MDA believes that the next phase of work should concentrate on the metallurgy of the deposit. Testing utilizing both Altairnano's technology and conventional technology should be completed. The metallurgical program should be designed by an independent metallurgist after reviewing the data. The drill holes and project area should be surveyed to obtain more accurate drill hole coordinates and site topography. A surface geologic map should be completed utilizing methods to clear the soil and till to expose the surface geology where required. Additional surface drilling should be completed in open areas. The magnetometer survey should be extended to the northeast over Cribbage Lake and beyond to the north east. The potential to upgrade the deposit area infrastructure needs to be investigated. Any environmental or land restriction to development need to be identified. This work should lead to a preliminary assessment of the project.

The following tasks to complete the assessment are estimated and recommended:

▪ Metallurgist Review:	\$ 20,000
▪ Metallurgical Testing	\$ 150,000
▪ Market Study	\$ 15,000
▪ Magnetometer Survey	\$ 30,000
▪ Drill Hole and Topographic Survey	\$ 30,000
▪ Surface Geologic Mapping	\$ 45,000
▪ Surface Drilling	\$ 750,000
▪ Preliminary Assessment	<u>\$ 60,000</u>
▪ Totals	\$ 1,100,000



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28.0 CERTIFICATE OF AUTHOR

CERTIFICATE OF QUALIFIED PERSON NEIL B. PRENN, P. E.

- a) I, Neil B. Prenn, P.Eng., do hereby certify that I am currently employed as Principal Engineer at Mine Development Associates, whose address is 210 S. Rock Blvd., Reno, NV 89502.
- b) I am an author of this technical report, titled “*Technical Report, Titan Project, Ontario, Canada*” prepared for Prophecy Development Corp. with an effective date of **October 23, 2017**.
- c) That I am a graduate of the Colorado School of Mines with an Engineer of Mines Degree granted in 1967. I am a Registered Professional Engineer in the State of Nevada (#7844). I am a Member of SME and MMSA.

I have worked as a Mining Engineer for more than 50 years, providing mine designs, reserve estimates and economic analyses for dozens of base- and precious-metals deposits and industrial minerals deposits in the United States and various countries of the world. I have had extensive experience in the calculation of resources during the past 30 years as president of Mine Development Associates, and have been responsible for the calculation of titanium resources. The most recent was for the Titanium Resources Group for the re-start of the Sierra Rutile mine, which historically supplied about 25% of the world’s rutile. I have worked in layered mafic intrusions at the Lac Des Iles mine near Thunder Bay, Ontario

I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101

- d) I visited the Titan project most recently on September 28, 2006.
- e) I take responsibility for *all* sections of this report, subject to those issues discussed in Section 3, and sections 7 and 8 which were prepared by Neil Pettigrew, P. Geo.
- f) I am independent of Prophecy Development Corp. and all their subsidiaries as defined in Section 1.5 of NI 43-101.
- g) I have had prior involvement with the property and project since 2006 as an independent consultant. I am responsible for the preparation of the technical report titled *Technical Report, Titan Project, Ontario Canada* dated November 7, 2006 (the “*Technical Report*”) and revised on February 12, 2007, and on February 26, 2010.
- h) I have read National Instrument 43-101 and those portions of this report for which I am responsible has been prepared in compliance with that Instrument.
- i) As of the effective date of the technical report, to the best my knowledge, information, and belief, the technical report, or part that I am responsible for, contains all the scientific and technical information that is required to be disclosed to make the technical report not misleading.

SIGNATURE ON NEXT PAGE



Dated the 23 day of October, 2017



Neil B. Prenn, P.E.



**CERTIFICATE OF QUALIFIED PERSON
NEIL T. PETTIGREW, M.Sc., P.GEO.**

I, Neil Pettigrew, M.Sc., P. Geo., do hereby certify that I am currently employed as Vice President of Fladgate Exploration Consulting Corporation, located at 1158 Russell St. Unit D. Thunder Bay, Ontario, P7B 3J5.

b) I am an author of this technical report, titled “*Technical Report, Titan Project, Ontario, Canada*” prepared for Prophecy Development Corp. with an effective date of **October 23, 2017**.

c) I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO #1462). I am a graduate of the University of New Brunswick (B.Sc.) and the University of Ottawa (M.Sc.). I have practiced geology for 17 years in a variety of settings, mostly in Ontario, Canada. My experience includes the design and implementation of grassroots to advanced exploration programs in gold, PGEs, lithium, iron ore, and base metals. I have also served as an officer and a director of several public exploration companies on both the Toronto and TSX-Venture exchanges.

I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101

d) I visited the Titan project most recently on October 13th, 2017.

e) I take responsibility for sections 7, 8 and 12.1 of this report, subject to those issues discussed in Section 3.

f) I am independent of Prophecy Development Corp. and all their subsidiaries as defined in Section 1.5 of NI 43-101.

g) I have had no prior involvement with the property that is the subject of this report.

h) I have read National Instrument 43-101 and those portions of this report for which I am responsible has been prepared in compliance with that Instrument.

i) As of the effective date of the technical report, to the best my knowledge, information, and belief, the technical report, or part that I am responsible for, contains all the scientific and technical information that is required to be disclosed to make the technical report not misleading.

SIGNATURE ON NEXT PAGE



Dated the 23 day of October, 2017

“Neil Pettigrew” (signed by) / (sealed)
Neil Pettigrew, M.Sc., P. Geo.

APPENDIX A

List of Patented and Unpatented Claims

Patented Claims Located in Angus Township:

T25433 (Patent 8818)	T25438 (Patent 8823)	T25479 (Patent 8828)
T25434 (Patent 8819)	T25439 (Patent 8824)	T25480 (Patent 8829)
T25435 (Patent 8820)	T25440 (Patent 8825)	T25481 (Patent 8830)
T25436 (Patent 8821)	T25477 (Patent 8826)	T25482 (Patent 8831)
T25437 (Patent 8822)	T25478 (Patent 8827)	T25483 (Patent 8832)

Patented Claims Located in Flett Township:

T25484 (Patent 8833)	T25485 (Patent 8834)
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APPENDIX B

Site Visit Check Sample Assay Certificates



Date Submitted: 18-Oct-17
Invoice No.: A17-11568
Invoice Date: 20-Oct-17
Your Reference: Titan

Fladgate Exploration
195 Park Avenue
Thunder Bay ON P7B 1B9
Canada

ATTN: Neil Pettigrew

CERTIFICATE OF ANALYSIS

7 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code 8-Iron Ore Analysis XRF Fusion-XRF

REPORT A17-11568

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

CERTIFIED BY:

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end, positioned above a solid horizontal line.

Results

Activation Laboratories Ltd.

Report: A17-11568

Analyte Symbol	SiO2	TiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	P2O5	Cr2O3	LOI	V2O5	Total
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.003	0.01
Method Code	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF
NP-Ti-17-001	25.49	11.65	12.39	39.57	0.24	7.15	4.00	1.53	0.28	0.12	< 0.01	-1.98	0.343	100.8
NP-Ti-17-002	41.92	4.84	15.99	20.66	0.20	5.41	6.76	3.31	1.08	0.66	< 0.01	-0.27	0.079	100.6
NP-Ti-17-003	10.01	18.56	7.80	55.61	0.31	6.22	1.31	0.36	0.07	0.06	< 0.01	-0.67	0.509	100.2
NP-Ti-17-004	25.49	11.80	12.41	38.64	0.22	7.15	3.82	1.29	0.33	0.12	< 0.01	-1.12	0.375	100.5
NP-Ti-17-005	6.45	20.32	6.45	60.63	0.33	5.64	0.67	0.20	0.04	0.03	< 0.01	-1.46	0.610	99.91
NP-Ti-17-006	9.56	18.62	7.26	56.12	0.21	6.10	0.85	0.32	0.02	0.02	< 0.01	-0.09	0.528	99.51
NP-Ti-17-007	30.78	9.19	13.09	34.57	0.23	6.83	4.79	1.95	0.42	0.16	< 0.01	-1.47	0.265	100.8

QC

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Analyte Symbol	SiO2	TiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	P2O5	Cr2O3	LOI	V2O5	Total
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.003	0.01
Method Code	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF
BE-N Meas	38.71	2.71	10.16	13.13	0.20	13.21	14.12	3.32	1.37	1.05	0.05		0.040	
BE-N Cert	38.2	2.61	10.1	12.8	0.200	13.1	13.9	3.18	1.39	1.05	0.0500		0.042	
BIR-1a Meas	48.05	0.99	15.57	11.71	0.17	9.80	13.45	1.79	0.03	0.03				
BIR-1a Cert	47.96	0.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.021				
SCH-1 Meas	8.26	0.05	1.00	85.81	1.00			0.04	0.03	0.12				
SCH-1 Cert	8.09	0.052	0.962	86.84	1.003			0.026	0.031	0.124				
AMIS 0129 Meas	9.61	22.73	2.61	62.46	0.33	2.01	0.82						0.496	
AMIS 0129 Cert	9.57	22.94	2.75	62.31	0.36	2.07	0.80						0.48	
NCS DC19003a Meas	3.87	12.83	4.36	74.27	0.33	3.16	1.06						0.576	
NCS DC19003a Cert	3.96	12.96	4.40	75.45	0.364	3.17	1.05						0.559	
NP-Ti-17-006 Orig	9.52	18.57	7.18	55.97	0.21	6.08	0.84	0.32	0.02	0.03	< 0.01	-0.07	0.527	99.20
NP-Ti-17-006 Dup	9.59	18.67	7.33	56.27	0.21	6.12	0.85	0.33	0.02	0.02	< 0.01	-0.12	0.528	99.82
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.003	