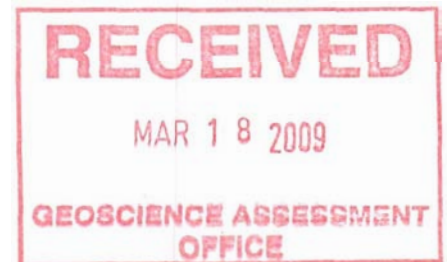


2.41124

**ASSESSMENT REPORT FOR CLAIM 1240157**  
**TRIGAN RESOURCES INC EAST GABBRO PROPERTY**  
**METHUEN TOWNSHIP**  
**SOUTHERN ONTARIO DISTRICT**



Don Phipps  
February 23, 2009

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## SUMMARY

Trigan Resources of Aurora, Ontario owns a block of Mining Leases in the southeast part of Methuen Township, covering most of a gabbroic body known as the East Gabbro. Claim 1240157 is contiguous with the Mining Leases and was staked in 2004 to cover a portion of the gabbro not covered by the Mining Leases. The Mining Leases cover a gabbro-hosted, pipe-like body of massive to semi-massive and disseminated ilmenite.

Since 2004, quarrying operations have been undertaken to exploit the gabbro surrounding the ilmenite mineralization for high quality aggregate. The quarry operation is advancing toward the ilmenite body and it has become necessary to define more precisely the boundary of the ilmenite mineralization so that the quarry does not encroach upon this resource.

Work was carried out in May 2008 on the Mining Leases contiguous with claim 1240157. The work consisted of drilling fifteen vertical, 58 ft, percussion drill holes to better define the eastern limits of the ilmenite mineralization. Samples were collected over 12 ft intervals; coarse fractions were recovered by sieving and examined to determine rock type of the sample interval. In the intervals where ilmenite mineralization was intersected, samples were submitted for TiO<sub>2</sub> analysis.

The work was successful in providing a better definition of the eastern extent of the ilmenite mineralization. The contact of the ilmenite mineralization with the host gabbro is a transitional one with massive to semi massive ilmenite grading through disseminated to weakly disseminated ilmenite over a distance of about 15 m.

## INTRODUCTION

Trigan Resources owns a block of Mining Leases in Methuen Township South, which cover ilmenite mineralization hosted by a gabbro body. Claim 1240157 was staked in January 2004 to cover a northern portion of the gabbro not covered by the mining leases. The claim is contiguous with the Mining Leases.

Previous work on the claim has consisted of geological mapping to determine the northern limit of the gabbro, and confirm the continuity of gabbro in the area of the claim.

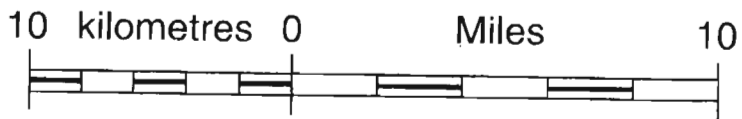
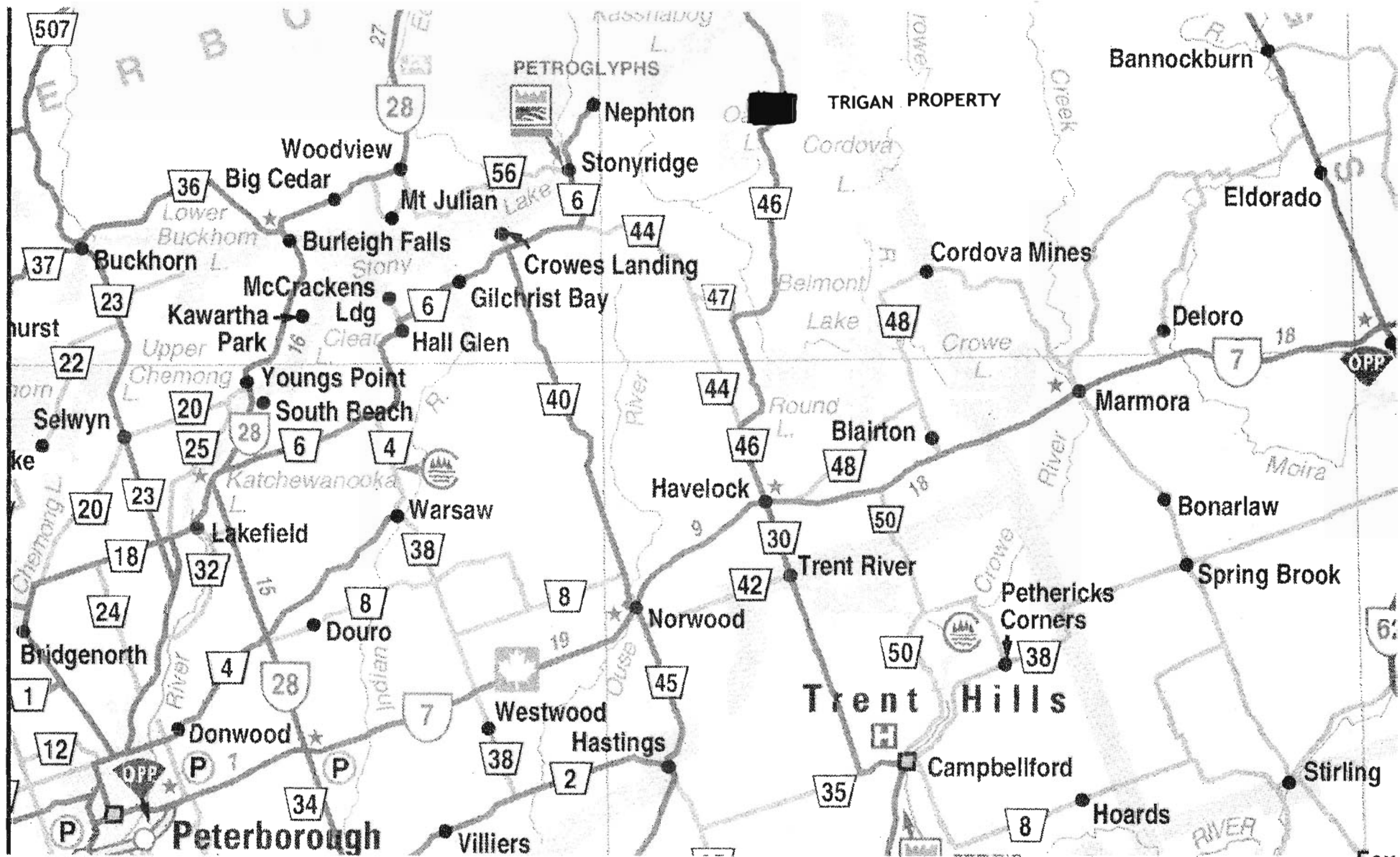
Quarrying operations southeast of the ilmenite deposit are approaching the ilmenite mineralization. To prevent encroachment of the quarry operation into this mineralization, a more accurate definition of the boundary between barren and oxide rich gabbro became necessary.

This report covers work done in May 2008 on Mining Leases EO 39064, EO 41332 and EO 41333, to define more precisely the eastern limits of the ilmenite mineralization.

## PROPERTY

### Location and Access

Claim 1240157 occupies Lot 10 Concession 3 of Methuen Township in Southern Ontario Mining District approximately 25 km north of the town of Havelock (Figure 1). Regional Road 46 is lies approximately 1 km east of the claim and bisects the block of Mining Leases. A gravel road running west from Regional Road 46 gives access to the northeast corner of the claim (Figure 2).



**FIGURE 1**  
**TRIGAN RESOURCES INC**  
**METHUEN TWP PROPERTY LOCATION**

The work covered in this report was carried out on Mining Leases EO 39064, EO 41332 and EO 41333 in an area just east of Regional road 46 (Figure 2). The work area is easily accessible from Regional road 46 via well-established gravel roads.

The topography of the property is gently undulating covered by mainly deciduous forest interspersed with frequent areas of swamp. There is 10 to 15% rock exposure which occurs mainly as low inconspicuous outcrops, and areas of in situ frost heaved boulders.

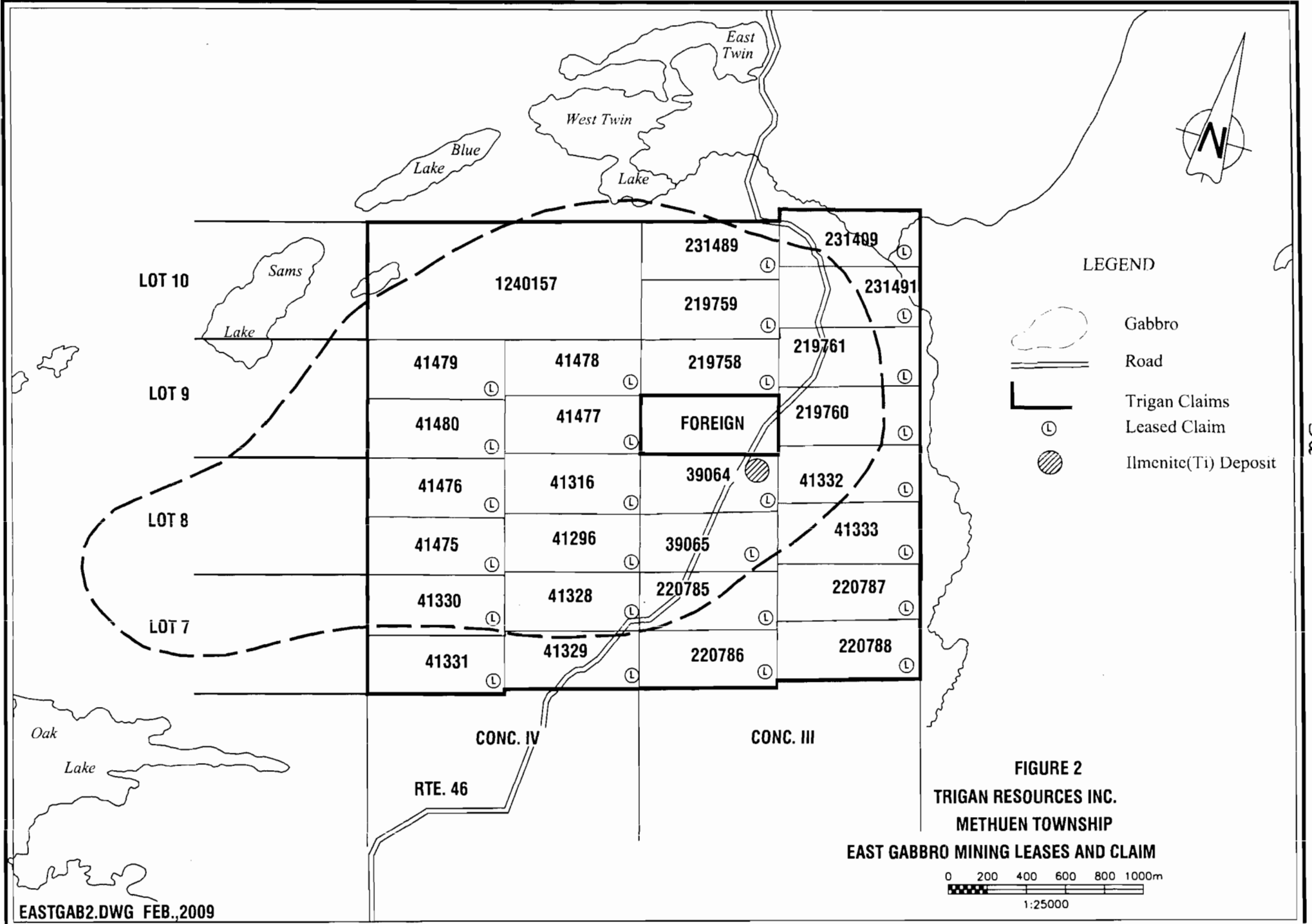
### **Property Description and Status**

Claim 1240157 is registered in the name of Trigan Resources Inc. 445 Beacon Hall Drive, Aurora, Ontario, L4G 3G8. The Claim consists of four units located in Concession 3 Lot 10 of the southern half of Methuen Twp in Southern Ontario (Figure 2). The claim was recorded January 13<sup>th</sup>, 2004 and is due for renewal January 13<sup>th</sup>, 2010.

The claim is contiguous with and related to a block of Mining Leases also owned by Trigan Resources Inc.

### **PROPERTY HISTORY (Mining leases and Claim 1240157)**

- Pre-1969: Trigan Resources or its precursor staked 27 claims covering the occurrence of widespread ilmenite mineralization located in the southern part of Methuen Twp. Pitting, trenching and sampling were carried out.
- 1969-70: Trigan Resource explored the ilmenite mineralization with the drilling of 29 shallow (30 to 60 m), small diameter, vertical drill holes for a total of 1227 m. Very little sampling was done on the core at this time.
- 1981-85: Canico Ltd., (Inco Ltd) optioned the property and relogged and sampled core from the earlier Trigan drilling. Inco carried out programs of detailed geological mapping, gravity and magnetometer surveys, diamond drilling (32 vertical holes for a total of 1916 m) and metallurgical testing. An open pit resource of 13 million tonnes grading 21.7% TiO<sub>2</sub> was calculated. Inco dropped the option in 1985.
- 1986: In June 1986, Trigan's 27 claims were brought to lease.
- 1998: Trigan commenced evaluation of the gabbro on the property as a source of high quality bedrock aggregate. Mini bulk samples were obtained by core sampling of barren gabbro from holes drilled around the ilmenite mineralization. Positive results were obtained from this initial testing of the gabbro.
- 2000: A small quarry near the eastern boundary of the gabbro was excavated to provide a 20,000 tonne bulk sample for aggregate testing to determine if the material would be suitable for commercial production. Samples were submitted to the Ontario Ministry of Transport (MTO) for investigation of the material as a new source of high quality aggregate for asphalt pavements. The gabbro product was shown to satisfy all the necessary criteria for high quality aggregate. Subsequently a test strip of the material was laid down by the MTO. The material passed the test strip requirements.



- 2003: MRT Aggregates was formed as a joint venture between Trigan Resources and the Miller Group to carry out quarrying operations to produce high quality bedrock aggregate from the gabbro in an area southeast of the ilmenite mineralization
- 2004: Claim 1240157 was recorded on January 13<sup>th</sup> 2004.
- 2005-07: Geological mapping was carried out on claim 1240157.

## **REGIONAL GEOLOGY**

Methuen Township is underlain by mainly northeast-trending Late Precambrian, Grenville metasedimentary rocks intruded by granitic gneisses, granite, syenite and gabbro. The metasedimentary rocks have been subjected to multiphase deformation and regional metamorphism. Contact metamorphism is evident especially around some of the gabbroic intrusives. Flat lying Ordovician limestone and dolomitic limestone occur as isolated outliers in the southern part of the Township (ODM Map 1960e).

Two ovoid-shaped, easterly-trending, basic to intermediate intrusions semi-conformably intrude the Grenville metasediments in the area of the property. These two intrusions, referred to as the East Gabbro and the West Gabbro, vary in composition through gabbroic anorthosite to gabbro to monzonite. The gabbroic anorthosite and gabbro portions of the intrusions are the focus for the establishment of an aggregate resource. In the easternmost part of the Eastern Gabbro, gabbroic anorthosite hosts a pipe-like occurrence of semi-massive to massive ilmenite mineralization.

## **PROPERTY GEOLOGY**

Claim 1240157 covers a portion of the northern part of the East Gabbro (Figure 2) where it is in contact with mainly gneissic arenaceous metasediments (paragneisses).

The gabbro typically is a medium grained, grey, mesocratic rock consisting of mainly plagioclase with lesser amounts of mafic minerals (augite and/or hornblende); at some locations it could be described as an anorthositic gabbro.

Near surface, weathering of this rock imparts a pinkish hue to the plagioclase, misleadingly giving it the appearance of a more leucocratic acidic rock.

The East Gabbro hosts a deposit of massive to semi massive to disseminated ilmenite. The deposit outcrops just east of Route 46 in a roughly circular shape. An open pit resource of 13 million tonnes grading 21.7% TiO<sub>2</sub> has been calculated for this deposit.

The contact between the gabbro and the country rock metasediments is diffuse. In the contact area, inclusions of metasediments become common and the gabbro is notably finer grained. Compositional differences, in the gabbro, especially in the contact zone, are present due to contamination of the gabbroic magma by absorbed metasediments.

## WORK CARRIED OUT

### Introduction

Previous diamond drilling by Trigan Resources (1969-70) and Inco Ltd. (1983) had roughly outlined the extent of massive to semi-massive ilmenite mineralization on the Trigan property. In 2008, Trigan Resources undertook to define more precisely the eastern limits of the ilmenite mineralization. Compared to diamond drilling, percussion drilling was used as a quick and less expensive method to achieve the desired results.

### Percussion Drilling

The drilling was carried out during the period May 4<sup>th</sup> to May 8<sup>th</sup> 2008. An additional day was spent in processing and preparation of samples for analysis. Fifteen, 4 inch diameter, vertical, shallow (58 ft) percussion holes were drilled for a total of 870 ft. The percussion holes were positioned along section lines radial to the roughly circular outline of the ilmenite mineralization. Percussion hole collars were surveyed by precise GPS. Table 1 lists the UTM coordinates of each hole. Figure 3 shows hole locations and section lines.

**Table 1: Percussion Hole UTM Coordinates (Nad 83, Zone 18)**

<b>Percussion Hole No.</b>	<b>UTM Easting</b>	<b>UTM Northing</b>
PH 08-01	271992	4945770
PH 08-02	272001	4945767
PH 08-03	272050	4945817
PH 08-04	272061	4945800
PH 08-05	272035	4945791
PH 08-06	272079	4945787
PH 08-07	272089	4945800
PH 08-08	272063	4945783
PH 08-09	272056	4945858
PH 08-10	272071	4945862
PH 08-11	272057	4945916
PH 08-12	272085	4945920
PH 08-13	272001	4845938
PH 08-14	272037	4945965
PH 08-15	272049	4945972

The drilling was contracted to C. J. Brown drilling and Blasting (O/A 885192 Ontario Inc), RR 1, Bancroft, Ontario, K01 1C0.

The work was supervised and carried out by Don Phipps, 98 Kingsmount Blvd, Sudbury, Ontario, P3E 1K6 assisted by Darrin Rogerson of MRT Aggregates (35 Lauren Rd, Port Perry, Ontario, L9L 2A7). Don Phipps carried out sample processing and preparation, and is the author of this report.

This report was completed on February 23, 2009



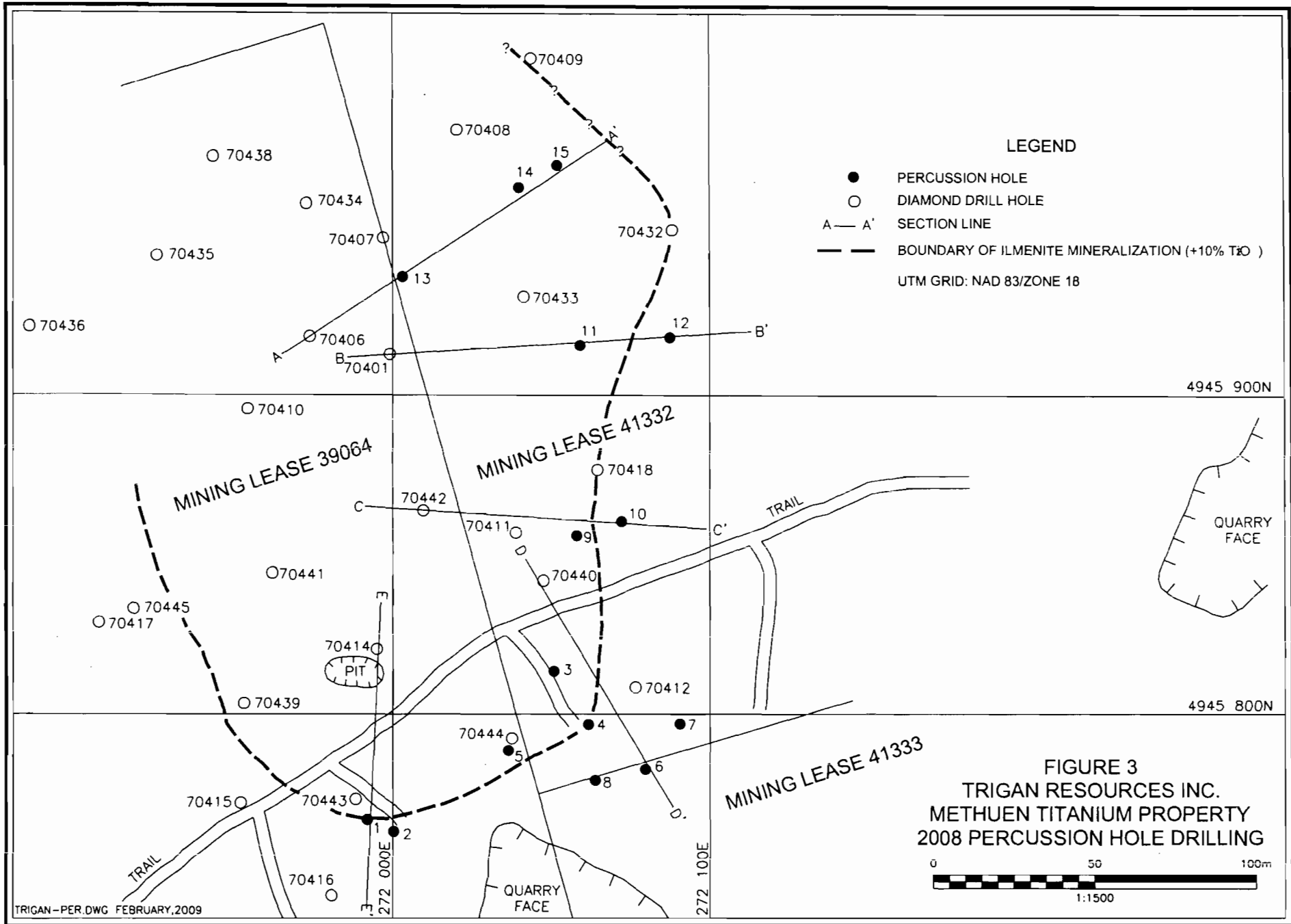
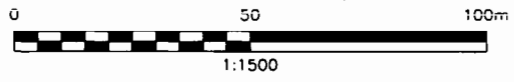


FIGURE 3  
 TRIGAN RESOURCES INC.  
 METHUEN TITANIUM PROPERTY  
 2008 PERCUSSION HOLE DRILLING



TRIGAN-PER.DWG FEBRUARY, 2009

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A track-mounted Terrex Reedrill was used by the contractor. Fifteen four-inch vertical holes were drilled using five 12 ft drill steels which gave a penetrated depth below surface of 58 ft. For the most part overburden was minimal; hole #11 intersected bedrock at 22 ft and illustrates the local irregularity of the bedrock surface. The smooth bedrock surface shown in the borehole sections (Figures 4 and 4a) probably belies the true nature of the bedrock surface; steep, sharp, glacial erosional gullies are known to occur in this area.

Intersection of significant ilmenite mineralization was clearly indicated by the black coloration of the crushed material ejected from the hole compared to the light grey color of the barren gabbro. Intersection of water seams resulted in poor sample recovery.

For each hole, crushed material ejected from the hole was collected to make up samples over the following intervals. 0-10, 10-22, 22-34, 34-46 and 46-58 ft, corresponding to the length of the drill rods. The material from each sample interval was cone and quartered with a portion put through a 4 mesh Tyler sieve to give two samples; a coarse fraction (+4#) and fine fraction (-4#). The coarse fraction was washed and used to carry out rock and mineral identification; the fine fraction was used for making up samples for TiO<sub>2</sub> analysis.

Only those samples with significant ilmenite mineralization were submitted for TiO<sub>2</sub> analysis. The -4# fraction was rolled, coned and quartered and a portion extracted and sent to ALS Chemex in North Vancouver, B.C. for TiO<sub>2</sub> analysis using their multi-element, peroxide fusion, ICP81 package. The results of the complete assay data package are in the appendix.

The samples are stored on site.

## Results

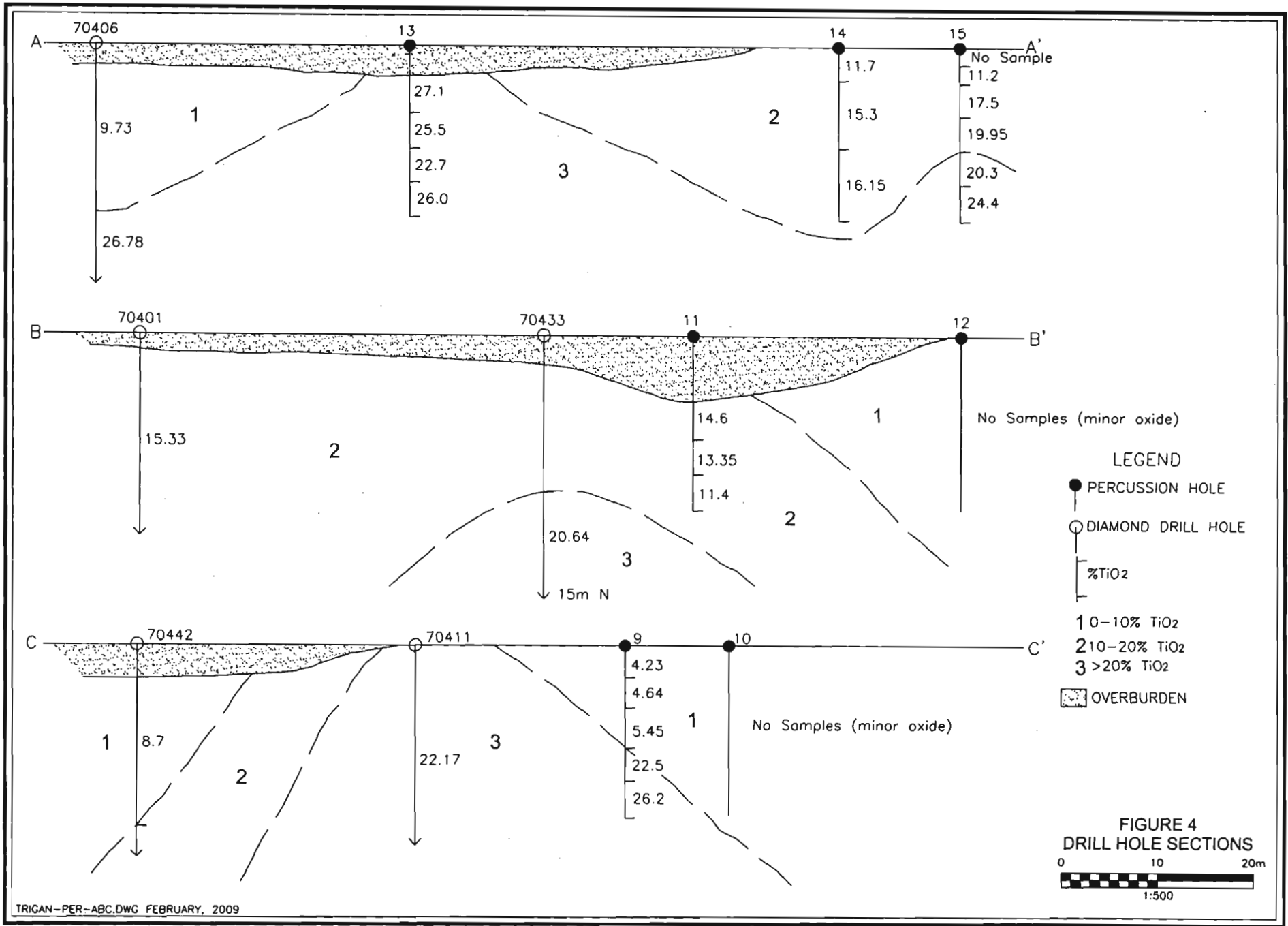
The coarse fraction (+4#) of all samples of material from each hole was washed in a +4# Tyler sieve and dried. Rock fragments were examined with hand lens and binocular microscope to determine the lithology of the interval and the degree of ilmenite mineralization. Although the rock fragments were small, they were sufficient to make rock identifications and oxide mineralization estimates. Gabbro is typified by the presence of plagioclase laths, varying degrees of oxide mineralization, and weak magnetism. Metasediments are typified by a lack of igneous texture (no plagioclase laths), lack of oxide mineralization, finer grain size, and presence of biotite. The results are shown in Table 2 below.

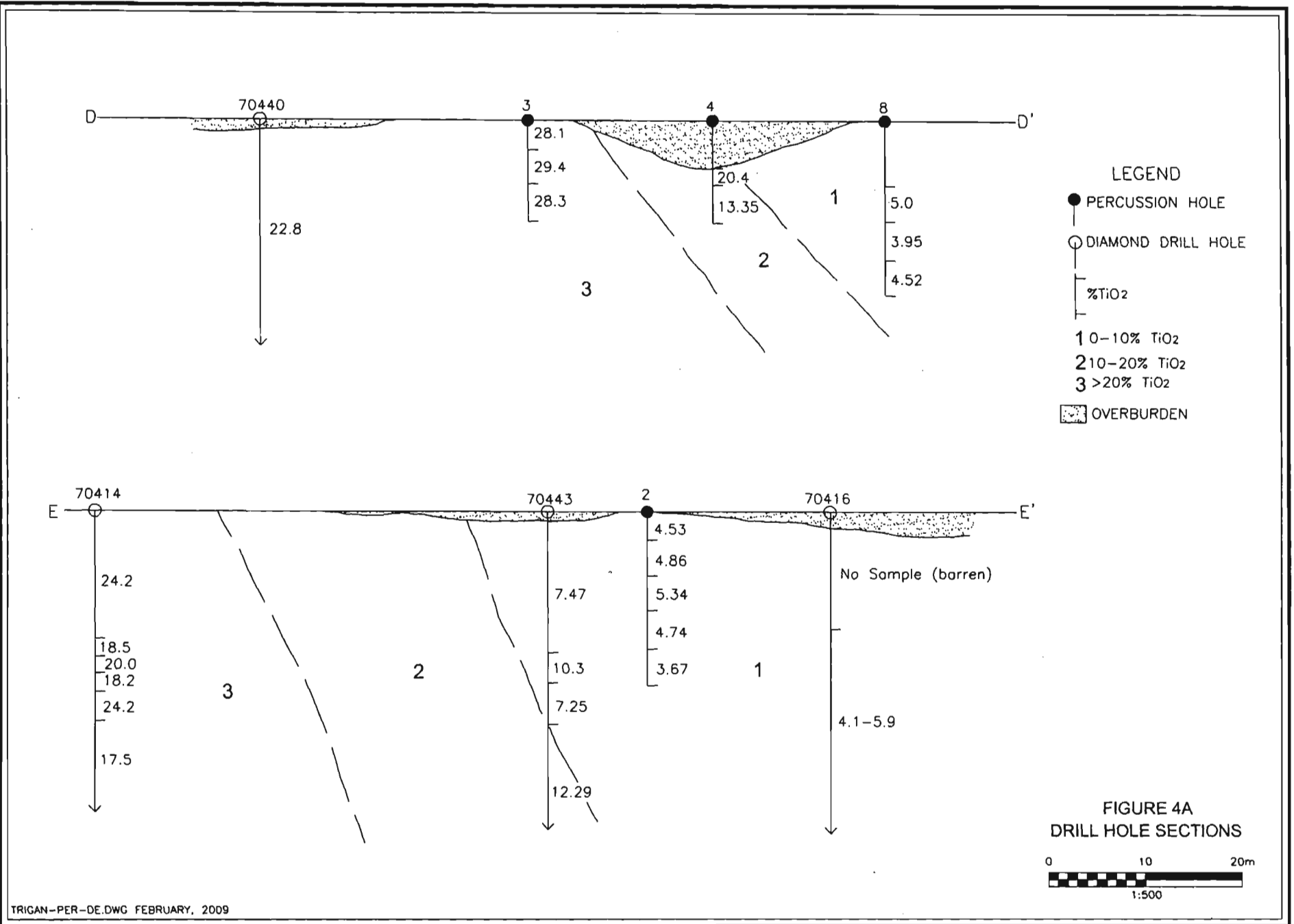
Assay data for the sampled intervals are shown in Table 3. TiO<sub>2</sub> assay data was plotted for each hole and is displayed in five cross sections A-A' to E-E' (Figures 4 and 4a). Where available, additional information from diamond drill holes is included in the sections.

The sections show that the contact of the ilmenite mineralization is not sharp but is transitional. Mineralization tends to go from massive to semi-massive ilmenite (> 20% TiO<sub>2</sub>) to disseminated ilmenite (10-20% TiO<sub>2</sub>) to weakly disseminated ilmenite (<10% TiO<sub>2</sub>) over a distance of about 15 m.

The southernmost section (E-E'), oriented north-south, indicates a fairly steep southerly dip (>60°) of the contact of the ilmenite mineralization. Sections D-D', C-C' and B-B' indicate a flatter dip to the southeast and east of about 45°. The northernmost section A-A' indicates a further flattening of the mineralization in an easterly direction. This section does not intersect barren gabbro; further drilling is required on this section to determine the extent of the ilmenite mineralization eastward.

The exact shape and attitude of the deposit remains to be determined. On the basis of the current information two scenarios are favoured. One is a vertical pipe-like body of massive to semi-massive





**Table 2: Coarse Fraction (+4#) Rock Identification**

PH No	Interval (ft)	Description	% TiO <sub>2</sub> Estimate	Actual Assay
08-01	Not sampled	Ilmenite-rich gabbro	+20	
08-02	0-10	Possible metased. No igneous texture. No Oxide	0	4.53
	10-22	More gabbroic looking. Some igneous text. No oxide	0	4.66
	22-34	Gabbro, 10-15% oxide, magnetic	5	5.34
	34-46	As above	5	4.74
	46-58	As above	5	3.67
08-03	0-34	Oxide-rich gabbro, 80% oxide	+20	28.60
08-04	15-22	Mixture of massive oxide and oxide-rich gb. 15% pyrite	+20	20.40
	22-34	As above, minor pyrite	+20	13.35
08-05	8-22	Mainly non-mag metased, minor gb with < 15% oxide	2-3	15.60
	22-34	Mainly Massive oxide, 10% pyrite	+20	16.90
	46-58	Gabbro with 10-15% oxide	3-5	4.00
08-06	5-10	Partially weathered gabbro, <5% oxide	1-2	
	10-22	Fresh gabbro, 5-10% oxide. Possibly minor metased	3	
	22-34	As above	3	
	34-46	Gabbro and metased. Very minor oxide	0-2	
	46-58	As above	0-2	
08-07	0-10	Metased (with biotite) and gabbro < 5% oxide	0-2	
	10-22	As above	0-2	
	22-34	As above	0-2	
08-08	0-10	Metased with biotite	0-2	
	10-22	As above	0-2	
	22-34	More gabbroic looking, 10-15% oxide	5	5.00
	34-46	As above	5	3.95
	46-58	As above, 10% oxide	3-5	4.52
08-09	0-10	Gabbro, 5-10% oxide	3	4.23
	10-22	As above with minor metased with biotite	3	4.64
	22-34	As above	3	5.45
	34-46	Mainly massive oxide (80-90%) with minor gabbro	+25	22.50
	46-58	As above	+25	26.20
08-10	0-10	Gabbro with 5-10% oxide	2-3	
	10-22	As above	2-3	
	22-34	As above	2-3	
08-11	22-34	Gabbro with 10-20% oxide and semi massive oxide	10-15	14.60
	34-46	As above with 20-30% oxide	8-10	13.35
	46-58	As above with 15-20% oxide	6	11.40
08-12	0-10	Gabbro with 5% oxide	1-2	
	10-22	As above	1-2	
	22-34	As above with 10% oxide	3-4	
	34-46	As above	3-4	
	46-58	As above with 5-10% oxide	2-3	
08-13	10-22	Massive oxide	+25	27.10
	22-34	Massive oxide plus gabbro with 10% oxide	+20	25.50
	34-46	As above	+20	22.70
	46-58	As above	+20	26.00
08-14	0-10	Gabbro with 5-7% oxide	3	11.70
	10-34	As above with some massive to semi-massive oxide	8-10	15.30
	34-58	Mainly massive to semi massive oxide with some gabbro	+25	16.15
08-15	5-10	Gabbro with 5% oxide	2	11.20
	22-34	Gabbro and oxide-rich gabbro up to 50% oxide	10-15	19.95

**Table 3: Percussion Hole Sampling Assay Results**

BH No	Interval (ft)	Sample No	Assay %TiO <sub>2</sub>
PH 08-02	1-10	58401	4.53
	10-22	58402	4.66
	22-34	58403	5.34
	34-46	58404	4.74
	46-58	58405	3.67
PH 08-03	0-10	58406	28.10
	10-22	58407	29.40
	22-34	58408	28.30
PH 08-04	15-22	58409	20.40
	22-34	58410	13.35
PH 08-05	08-22	58411	15.60
	22-34	58412	16.90
	46-58	58413	4.00
PH 08-08	22-34	58426	5.00
	34-46	58427	3.95
	46-58	58428	4.52
PH 08-09	0-10	58429	4.23
	10-22	58430	4.64
	22-34	58431	5.45
	34-46	58432	22.50
	46-58	58433	26.20
PH 08-11	22-34	58439	14.60
	34-46	58440	13.35
	46-58	58441	11.40
PH 08-13	10-22	58447	27.10
	22-34	58448	25.50
	34-46	58449	22.70
	46-58	58450	26.00
PH 08-14	0-10	58451	11.70
	10-34	58452	15.30
	34-58	58453	16.15
PH 08-15	5-10	58454	11.20
	10-22	58455	17.15
	22-34	58456	19.95
	34-46	58457	20.30
	46-58	58458	24.40

ilmenite with horizontal(?) tongues of this material extending out into the host gabbro; this is surrounded by a zone of disseminated ilmenite. The second scenario is an inclined pipe-like body with a rake to the east of at least 45 degrees. More extensive and deep drilling is required to resolve which of the two scenarios is the correct one.

## CONCLUSIONS AND RECOMMENDATIONS

Percussion drilling has proven to be a cost effective way to determine the nature and limits of the contact zone of the Methuen ilmenite mineralization. However, for accurate grade and tonnage determination of the resource, conventional diamond drilling and core sampling is recommended.

The southern boundary of this sub-circular body of mineralization appears to have a steep dip to the south whereas the eastern and northeastern boundaries appear to flatten with a shallower dip to the east. This suggests that the ilmenite-rich body may have a rake to the east of about  $45^{\circ}$ . Additional drilling is required to the east on section A-A' and around the northern boundary of the deposit to further define the limits of the mineralization.

## CERTIFICATE of AUTHOR

I, Donald Phipps, M.Sc, P.Geo., certify that:

1. I am a consulting Geologist with residence and business address at 98 Kingsmount Blvd., Sudbury, Ontario, P3E 1K6.
2. I graduated from the Camborne School of Mines, Camborne, Cornwall, U.K. with an ACSM Mining Diploma in 1957. In addition I obtained a B.Sc. degree in geology from McGill University in 1962, and an M.Sc. degree in oceanography from the Massachusetts Institute of Technology in 1964.
3. I am registered as a practicing member of the Association of Professional Geoscientists of Ontario. I am a Fellow of the Canadian Institute of mining and Metallurgy and a member of the Prospectors and Developers Association of Canada.
4. I have practiced my profession as an exploration geologist for more than forty years with work in Africa and North America.

Dated in Sudbury, Ontario this 16<sup>th</sup> day of February, 2009

**“Signed” and “Sealed”**

Donald Phipps, M.Sc., P.Geo.



*Donald Phipps*

APPENDIX





# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MRT AGGREGATES  
98 KINGSMOUNT BLVD.  
SUDBURY ON P3E 1K6

INVOICE NUMBER 1745257

BILLING INFORMATION	
Certificate:	<b>SD08071433</b>
Sample Type:	<b>Crushed Rock</b>
Account:	<b>MRTAGG</b>
Date:	<b>9-JUN-2008</b>
Project:	
P.O. No.:	
Quote:	
Terms:	<b>Due on Receipt</b> C3
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
1	BAT-01	Administration Fee	30.00	30.00
36	PREP-31	Crush, Split, Pulverize	6.55	235.80
35.80	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.65	23.27
36	ME-ICP81	ICP Fuslon - Ore Grade	24.00	864.00

To: **MRT AGGREGATES**  
ATTN: DON PHIPPS  
98 KINGSMOUNT BLVD.  
SUDBURY ON P3E 1K6

# COPY

SUBTOTAL (CAD)	\$	1,153.07
R100938885 GST	\$	57.65
<b>TOTAL PAYABLE (CAD)</b>	<b>\$</b>	<b>1,210.72</b>

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please Remit Payments To :

## ALS Chemex

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

**PORT AGGREGATES**  
 98 KINGSMOUNT BLVD.  
 SUDBURY ON P3E 1K6

**2 - A**  
 Total # Pages: 2 (A - B)  
 Finalized Date: 9-JUN-2008  
 Account: MRTAGG

**CERTIFICATE OF ANALYSIS SD08071433**

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Recvd Wt. kg	Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	P2O5 %	Pb %
		0.02	0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.1	0.01	0.01	0.005	0.02	0.01
58401		0.84	10.90	<0.01	9.43	0.006	0.01	0.011	14.25	20.4	0.6	4.52	0.14	0.013	1.29	<0.01
58402		0.92	11.30	<0.01	8.63	0.005	0.01	<0.005	14.00	20.0	0.6	5.40	0.17	<0.005	1.33	<0.01
58403		0.88	9.91	<0.01	9.44	0.006	0.01	0.014	15.60	22.3	0.4	5.52	0.23	0.012	0.98	<0.01
58404		0.82	12.10	<0.01	9.23	0.004	0.01	<0.005	14.30	20.4	0.5	4.85	0.23	0.012	1.32	<0.01
58405		0.52	12.05	<0.01	9.55	0.006	0.02	0.006	12.65	18.05	0.5	5.99	0.22	<0.005	0.98	<0.01
58406		0.52	1.60	<0.01	4.58	0.010	0.08	0.012	33.4	47.7	0.1	3.06	0.28	0.032	0.14	<0.01
58407		0.58	1.56	<0.01	1.49	0.011	0.09	0.028	36.3	51.9	0.1	3.33	0.22	0.029	0.08	<0.01
58408		0.86	1.47	<0.01	1.69	0.011	0.07	0.023	35.2	50.4	0.1	3.61	0.21	0.029	0.08	<0.01
58409		0.94	4.11	<0.01	2.40	0.027	0.06	0.078	30.6	43.7	0.2	4.08	0.27	0.058	0.29	<0.01
58410		1.16	7.67	0.01	5.62	0.008	0.04	0.022	21.5	30.8	0.5	4.47	0.26	0.019	0.84	<0.01
58411		1.20	6.73	<0.01	2.93	0.009	0.05	0.015	22.2	31.7	0.5	6.19	0.16	0.028	0.39	<0.01
58412		1.22	5.51	<0.01	3.66	0.010	0.05	0.022	24.0	34.3	0.7	4.70	0.20	0.024	0.25	<0.01
58413		1.14	11.65	<0.01	8.98	0.006	0.01	0.007	13.15	18.80	0.5	5.76	0.22	0.009	1.06	<0.01
58426		0.92	10.95	<0.01	8.43	0.004	0.01	<0.005	13.80	19.75	0.7	4.75	0.24	0.013	1.23	<0.01
58427		1.14	11.90	<0.01	8.72	0.004	0.01	<0.005	12.35	17.65	0.6	4.57	0.23	<0.005	1.19	<0.01
58428		1.12	11.55	<0.01	9.19	0.006	0.01	0.015	13.65	19.50	0.7	4.96	0.25	0.007	1.37	<0.01
58429		0.80	13.65	<0.01	8.82	0.004	<0.01	0.008	12.30	17.55	0.6	4.12	0.15	0.006	1.24	<0.01
58430		1.38	11.70	<0.01	7.67	0.004	0.01	0.012	12.40	17.75	0.6	5.18	0.16	0.006	1.59	<0.01
58431		1.22	11.65	<0.01	7.86	0.004	0.01	0.009	13.10	18.70	0.9	4.72	0.19	0.006	1.15	<0.01
58432		1.16	4.23	<0.01	3.13	0.009	0.07	0.014	29.2	41.8	0.3	4.37	0.21	0.021	0.23	<0.01
58433		1.64	3.79	<0.01	2.00	0.009	0.09	0.021	33.1	47.3	0.2	3.46	0.19	0.026	0.21	<0.01
58439		0.70	9.07	<0.01	4.50	0.007	0.04	0.025	21.5	30.8	0.6	4.36	0.17	0.023	0.26	<0.01
58440		0.68	9.28	<0.01	5.05	0.007	0.04	0.010	19.65	28.1	0.6	4.55	0.18	0.013	0.24	<0.01
58441		0.72	9.96	<0.01	5.65	0.005	0.02	0.016	17.85	25.5	0.6	4.61	0.18	0.017	0.24	<0.01
58447		0.64	2.89	<0.01	1.41	0.013	0.09	0.023	34.4	49.2	0.2	3.58	0.19	0.031	0.07	<0.01
58448		0.90	4.08	<0.01	1.61	0.012	0.09	0.023	32.5	46.4	0.2	3.57	0.19	0.033	0.10	<0.01
58449		0.90	5.11	<0.01	2.84	0.011	0.07	0.024	29.5	42.2	0.3	4.12	0.19	0.032	0.14	<0.01
58450		1.02	4.74	<0.01	1.86	0.011	0.06	0.021	32.9	47.1	0.3	2.74	0.17	0.028	0.12	<0.01
58451		0.58	12.55	<0.01	3.98	0.006	0.03	0.006	16.60	23.6	0.9	3.78	0.13	0.020	0.21	<0.01
58452		1.20	7.80	<0.01	3.09	0.009	0.03	0.020	22.8	32.6	0.5	4.92	0.17	0.026	0.18	<0.01
58453		1.40	5.75	<0.01	2.42	0.011	0.04	0.021	24.2	34.6	0.4	6.88	0.19	0.026	0.14	<0.01
58454		1.40	10.20	<0.01	3.98	0.008	0.04	0.013	18.00	25.8	0.8	4.46	0.14	0.033	0.66	<0.01
58455		1.26	7.52	<0.01	2.96	0.011	0.07	0.022	24.3	34.7	0.5	3.76	0.19	0.027	0.21	<0.01
58456		0.78	4.65	<0.01	1.86	0.013	0.08	0.018	27.4	39.1	0.4	4.69	0.21	0.026	0.14	<0.01
58457		1.28	7.09	<0.01	2.80	0.010	0.06	0.024	26.1	37.4	0.4	2.83	0.16	0.031	0.16	<0.01
58458		1.36	4.00	<0.01	1.82	0.013	0.09	0.041	31.2	44.5	0.3	3.03	0.18	0.040	0.14	<0.01



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## CERTIFICATE OF ANALYSIS SD08071433

Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	Footage
		S %	SiO2 %	TiO2 %	Zn %	
58401		0.33	38.9	4.53	0.01	Hole 2 0-10' 10-22 22-34 34-46 46-58'
58402		0.39	41.4	4.86	0.01	
58403		0.56	40.1	5.34	0.02	
58404		0.47	44.3	4.74	0.02	
58405		0.29	46.6	3.87	0.02	
58406		0.07	8.37	28.1	0.02	Hole 3 0-10' 10-22
58407		1.00	8.67	29.4	0.02	
58408		1.13	9.63	28.3	0.02	
58409		3.03	17.95	20.4	0.03	Hole 4 15-22 22-34
58410		0.83	32.6	13.35	0.03	
58411		0.42	28.6	15.60	0.01	Hole 5 8-22 22-34 46-58
58412		1.00	28.0	16.90	0.02	
58413		0.33	45.1	4.00	0.02	
58426		0.40	43.4	5.00	0.02	Hole 8 22-34 34-46
58427		0.37	45.5	3.95	0.02	
58428		0.54	45.6	4.52	0.02	Hole 9 46-58 0-10 10-22 22-34 34-46
58429		0.35	45.4	4.23	0.01	
58430		0.40	44.4	4.64	0.01	
58431		0.37	45.8	5.45	0.02	
58432		0.89	19.55	22.5	0.02	
58433		1.12	14.30	26.2	0.02	Hole 11 46-58 22-34 34-46 46-58 10-22
58439		0.73	33.9	14.60	0.02	
58440		0.64	35.6	13.35	0.02	
58441		0.66	38.1	11.40	0.02	
58447		1.21	13.05	27.1	0.02	
58448		1.14	14.65	25.5	0.02	Hole 13 22-34 34-46 46-58
58449		1.13	20.2	22.7	0.02	
58450		1.20	14.70	26.0	0.02	
58451		0.35	38.7	11.70	0.01	Hole 14 0-10 10-34
58452		1.11	31.3	15.30	0.01	
58453		1.25	28.9	16.15	0.02	Hole 15 34-58 5-10 10-22 22-34 34-46
58454		0.53	36.0	11.20	0.02	
58455		0.90	25.6	17.15	0.02	
58456		0.70	22.0	19.95	0.03	
58457		0.97	21.2	20.3	0.02	
58458		1.32	14.10	24.4	0.02	46-58



# TEREX® REEDRILL

Hydra-Trac® | Self-Contained Hydraulic Track Drill Models



## KEY FEATURES

- ▶ Hole diameters from 4" (102mm) to 6" (152mm)
- ▶ Robust HPR4519, HPR5128, and optional HPR6030 rock drills are field serviceable with fewer total parts than competitors - making service easier
- ▶ Optional 51 mm - 68 mm steel capability
- ▶ Heavy-duty, long-life mainframe weldment is mounted on excavator undercarriage for advanced stability in rough terrain while the R20T is mounted on the proven CAT 312 excavator undercarriage
- ▶ TEREX Reedrill dust collector is powerful and efficient showing virtually no dust
- ▶ Simple hydraulic system is easily maintained
- ▶ Reliable linear rod changer offers simple operation with minimal maintenance
- ▶ SmartDrill Drilling system for longer component life

**Quarry • Construction • Mining**

# Hydra-Trac® - Self-contained Hydraulic Track Drill Models

## General Specifications

	R20/R20C	R20T	SD345/345C	SCH5000C/CL
Hole Diameter	Up to 4" (102mm)	Up to 4" (102 mm)	Up to 5" (127 mm)	Up to 6" (152 mm)
Model & KW	HPR4519	HPR4519	HPR4519	HPR5128
Weight	660 lbs/300 kg	660 lbs/300 kg	660 lbs/300 kg	900 lbs/408 kg
Number of blows	2,500-2,700 bpm	2,500-2,700 bpm	2,500-2,700 bpm	2,500-3,100 bpm
Number of revolutions	0-300 rpm	0-300 rpm	0-300 rpm	0-150 rpm
Ground Clearance	16 inches/406 mm	17 inches/431 mm	17 inches/431 mm	11 inches/280 mm
Tramming speed	3.0 mph/4.8 kph	2.6 mph/4kph	2.4 mph/4 kph	2.1 mph/3.4 kph
Gradeability	35 degrees	35 degrees	35 degrees	35 degrees
Track Pad Width	11.8 inches/300 mm	19.7 inches/500 mm	15.1 inches/380 mm	15.1 inches/380 mm
Model	Isuzu 6BG1TQF	Isuzu 6BG1TQF	CAT C-9	CAT C-11
Speed	2,350 rpm	2,350 rpm	1,800 rpm	1,800 rpm
Fuel Capacity	80 gal/303 ltr	80 gal/303 ltr	130 gal/492 ltr	110 gal/416 ltr
Rated Output	174 hp/130 kW	174 hp/130 kW	275 hp/205 kW	310 hp/231 kW
Type of pump	piston	piston	piston	piston
Reservoir capacity	100 gal/379 ltr	100 gal/379 ltr	107 gal/405 ltr	80 gal/303 ltr
Max. starter rod standard	216 inches/5,485 mm	216 inches/5,485 mm	216/168 inches-5,485/4,267 mm	168/264 inches-4,267/6,705 mm
Max. starter rod optional	240 inches/6,096 mm	240 inches/6,096 mm	240 inches/6,096 mm	N/A
Max. single pass standard hole depth	192 inches/4,877 mm	192 inches/4,877 mm	192 inches/4,877 mm	150/246 inches-3,810/6,248 mm
Max. single pass optional hole depth	222 inches/5,639 mm	222 inches/5,639 mm	222 inches/5,639 mm	N/A
Feed rate	120 ft/min-37 m/min	120 ft/min-37 m/min	120 ft/min-37 m/min	120ft/min-37 m/min
Model	Gardner Denver Tempest 12	Gardner Denver Tempest 12	Gardner Denver	Gardner Denver
Free air delivery maximum	250 CFM/7 m <sup>3</sup> /min	250 CFM/7 m <sup>3</sup> /min	300 CFM/7 m <sup>3</sup> /min	400 CFM/11.3 m <sup>3</sup> /min
Working pressure	150 PSIG/10 bar	150 PSIG/10 bar	150 PSIG/10 bar	100 PSIG/10 bar
Number of rods x length (Imperial)	5 rods, 12 or 14 ft	5 rods, 12 or 14 ft	5 rods, 12 or 14 ft	5x12 /4x20 ft
Number of rods x length (Metric)	5 rods, 3,658 or 4,267 mm	5 rods, 3,658 or 4,267 mm	5 rods, 3,658 or 4,267 mm	5x3,658 /4x6,096 mm



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