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Diamond Drilling on the Vanguard Property  
Canadian Golden Dragon

West White Fish Area

Drill hole WWF05-01

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## **Introduction**

This report is a summary of diamond drill work carried out on the Vanguard Property and is written for the purpose of assessment.

## **Location**

The Vanguard property is located south of the village of Kashabowie, Ontario, 120km west of Thunder Bay, in the District of Thunder Bay. The White Fish Lake area can be accessed by turning south off of the highway 11 ~ 8 km west of Kashabowie. The NTS reference is UTM Zone 15U, map sheet 52B/9, "Shebandowan" sheet

## **Property**

The White Fish Lake area is within the claim 4204920 consisting of 15 claim units which have not had extensive work carried out on.

## **Previous Work**

The Vanguard property has been investigated, in part by the following list of companies:

1950 Northpick Gold Mines completed diamond drilling at Vanguard East. The values reported as 88,000 tons grading 1.8% Cu and 0.04 oz/ton Au.

1955-56 Bandowan Mines Limited completed trenching and 11 diamond drill holes (K-1 to -4, 18, 19, 20, 22, 26, 29, and 30. The highest grad was reported to be 0.925% Cu over 9 feet.

A Minova Inc. – Deak Resources Corporation joint venture completed airborne INPUT and magnetics, IP surveying, geological mapping, and diamond drill holes KW-01 to 04 were drilled in the area, KW-03 tested a western plunge theory.

1992 Noranda Exploration completed geophysical surveying and diamond drill holes (VG-91-01 and KW-91-12Ext) both failed to return significant assays.

Allegheny Mines Corporation conducted geological mapping, a VLF-EM survey, and drilled 10 holes (GL-97-01 to -10) at 10 metre centres. Their best intercept was 1.4% Cu, 5.5% Zn, 0.03 % Co, 18.1g/t Au 1.4g/t Au over 26 feet.

With the exception of drilling by Allegheny Mines, complete records from past drilling projects are incomplete or unavailable.

2002 Canadian Golden Dragon Resources completed two drill holes VE-01 and VE-02. Intersecting mafic volcanics with massive sulfide (pyrite and sphalerite with lesser chalcopyrite) zones in both drill holes.

2004 Canadian Golden Dragon Resources completed a helicopter airborne EM and magnetic survey over the property.

2004 Canadian Golden Dragon Resources completed three drill holes VE04-03, 04 and 05.

### **Dates and Figures**

Falcon Drilling of Prince George B.C. was contracted to complete the drilling of three diamond drill holes (WWF05-01, BR05-01 and ANV05-01) on the Vanguard Property (Claims 4204920 and 1218594). Drilling commenced May 5/05 and terminated May 9/05 on drill hole WWF05-01.

### **Results**

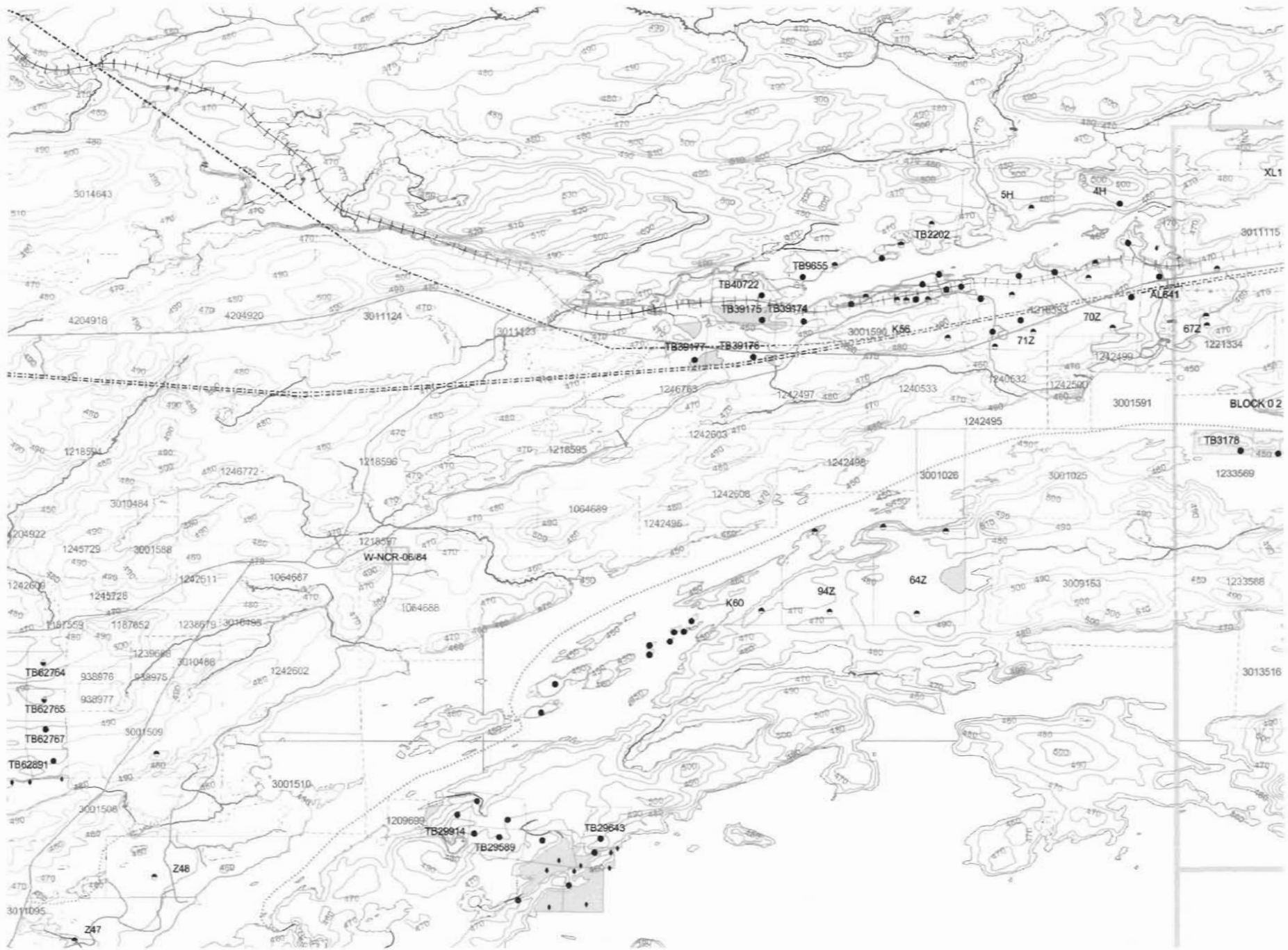
Drilling was carried out over May 5<sup>th</sup> to 9<sup>th</sup> and was supervised by R. Middleton. Core was transported to Thunder Bay where it was logged by G. Heggie and R. Middleton. Drill log for drill hole WWF05-01 is provided in the back of this report. The report was written by G. Heggie on May 15, 2005.

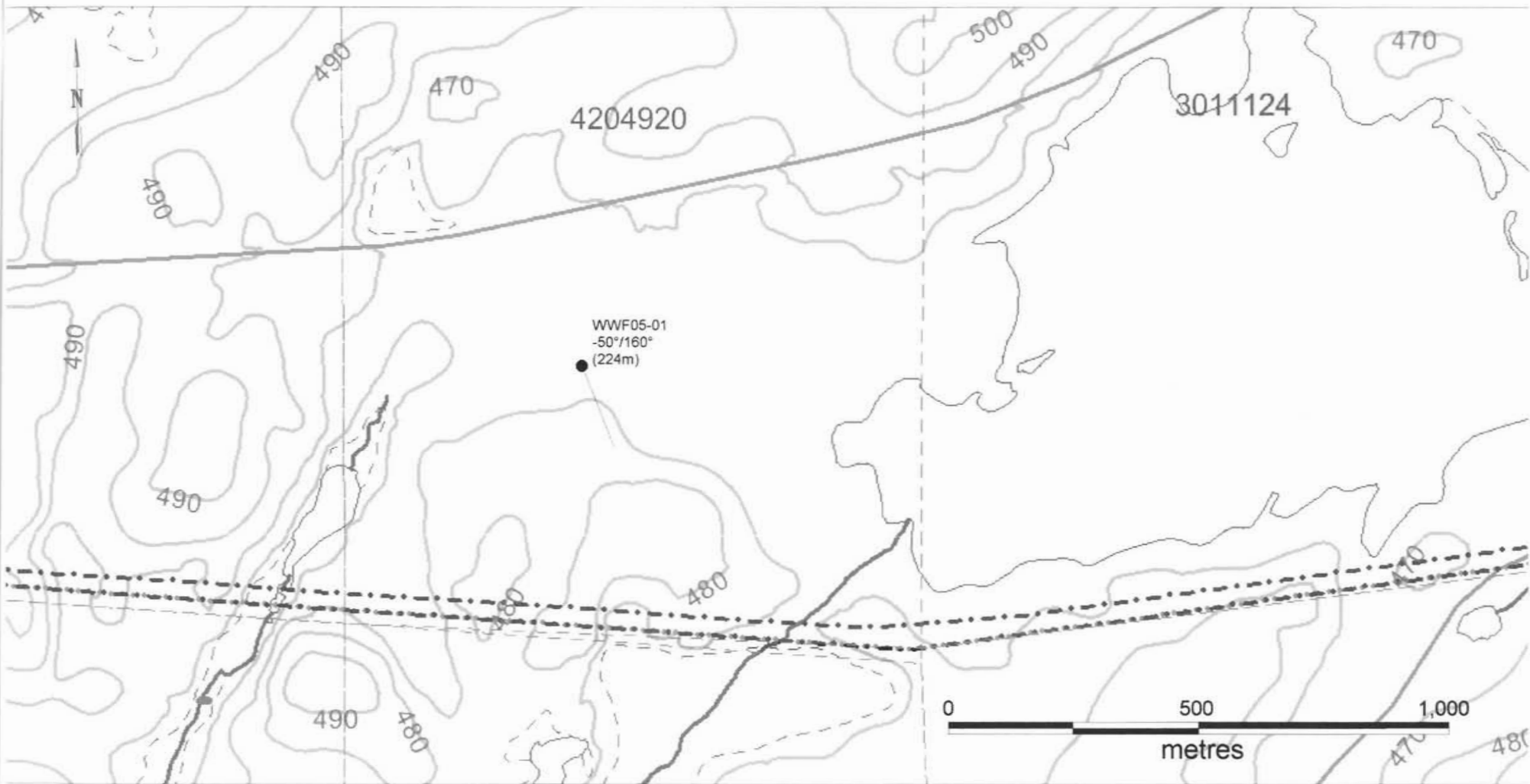
### **WWF05-01**

WWF05-01 (681960mE, 5390800mN, NAD27) was an inclined hole (-50°) drilling at 160°. The hole was completed in May 9<sup>th</sup> 2004 with a total depth of 224.3m. It was designed to test an airborne anomaly identified during an helicopter EM survey. The drill hole collared in felsic fragmental and continued in this unit (intersecting 5 minor dykes, two mafic and three diorite) before intersecting dark metasediments which contained a zone of graphitic slates with pyrite at 198.6m. This was followed by felsic volcanics till the end of the hole at 224.3m

### **Conclusions and Recommendations**

Drill hole WWF05-01 did intersect the conductor identified from the airborne survey (graphitic slates and mudstones).





## Summary of Costs

Company	Description	Cost
Falcon Drilling	Drilling WWF05-01	\$ 24,347.95
LTL Contracting	Mobilization and demobilization	\$ 2,370.05
Kashabowie Hotel	Room and Board for 7 days	\$ 1,400.00
J.R. Johnson Geological Services	Geological Work 2.5 days	\$ 642.00
Lunar Geological Services	Geological Work 5 days	\$ 1,250.00
R. Middleton	Supervision 2 days	\$ 600.00
Truck rental	Drilling	\$ 500.00
Company truck @\$50/day		\$ 400.00
Misc. Expenses		\$ 150.00
Gas		\$ 200.00
Diesel~696 L @0.79		\$ 549.84
40 Core boxes @6.50		\$ 260.00
<b>Total</b>		<b>\$ 32,669.84</b>

**Statement of Qualifications**

I, Geoff J. Heggie declare that,

I graduated from University of Saskatchewan with a B.Sc. Honours degree in geology in 2002.

Employed during the summers of

2000 – Saskatchewan Geological Survey, La Ronge, Sk. Mineralized core collection program.

2001 – Saskatchewan Geological Survey, Uranium City, Sk. Geological mapping.

2002 – Claude Resources, Northern Saskatchewan and Manitoba, Gold exploration through geological mapping.

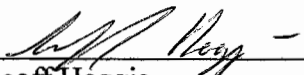
2003 – Lakehead University, Thunder Bay, ON. Lake Nipigon geochemical sampling program.

I am a geologist and have been employed as a contract geologist since June 2004, My address is 368 Otto Street, Thunder Bay, Ontario, P7A 2V7.

I supervised the drill program in the Havoc Lake area and logged the drill core. I wrote this report and completed it on March 30, 2005.

I am not aware of any material fact or material changes with respect to the subject matter of this report which is not reflected in this report, the omission of which would make this report misleading.

Dated at Thunder Bay, Ontario on: May 16/2005

  
\_\_\_\_\_  
Geoff Heggie  
Contract Geologist  
Canadian Golden Dragon Resources.



I, Robert S. Middleton, am a graduate of the Provincial Institute of Mining (Hailybury, Ontario) (1965) – Mining Diploma; Michigan Technological University 1968, B.S. Applied Geophysics, 1969 M.S. Applied Geophysics.

Attended University of Toronto 1970 – Ph.D Geological program.

Employed during the summers of:

1964 – Keevil Mining Group – Geophysical Engineering and Surveys Ltd. Gaspé geochemistry.

1965 – Selco Exploration – NW Ontario (Magnetics) and NE Quebec (EM, Mag, Gravity, Mining Regs.)

1966 – Selco Exploration – NE Ontario (Geological Mapping)

1967 – Calumet & Hecla Mining – Keweenaw (IP (drill hole) surface and underground) and Michigan (Mag and drill hole IP)

Employed Ontario Dept. of Mines, 1968-1971, Mag, Geology, Gravity, Mining Regs.

Employed Barringer Research Ltd., 1971-1974, Airborne Geophysics, Consulting, Ground Geophysics

Employed Rosario Resources Corp., 1974-1980, Timmins, Honduras, Nicaragua, Dominican Republic

Employed Newmont Exploration of Canada, 1982-1983, Quebec, Ontario, Newfoundland, NWT. Manager of Exploration, RC and diamond drill projects, geophysics.

Consulting Based from Timmins, 1983-1990, various Au/ base metal projects in Manitoba, Quebec, Ontario, USA, Scotland. RC drilling and numerous diamond drill programs.

Management Various junior mining companies, 1990-present, VMS, Cu, Zn, Au, diamonds, Cu-Ni-PGE, Cross Lake discovery, Zn/Ag/Cu near Timmins

Member of Ontario Association of Professional Engineers, Geological Association of Canada, Canadian Institute of Mining and Metallurgy, Association of Exploration Geochemists, Society of Economic Geologists, Society of Geology Applied to Ore Deposits.

Special Assignments:

Uganda – Evaluation of Kilembi Proterozoic Cu, Ni, Co

Siberia – Diamonds and Kimberlites

1995 NWT – Valuations of Lac de Gras area projects

Kyrgystan – Gold deposit evaluation

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Exploration Manager East West Resource Corporation, 1992-2003.

R.S. Middleton, P.Eng.

Date:

## References

- Farrow, C.E.G. 1993. Base Metal Sulphide Mineralization, Shebandowan Greenstone Belt; *in* Summary of Field Work and Other Activities 1993, Ontario Geological Survey, Miscellaneous Paper 162, p. 87-96.
- Flanagan, M., Goutier, F., Glenn, G., and Durose, M. 1990. Summary of geology on the Minova—Kashabowie Project; unpublished report, Minova Inc., 23p.
- Hodgkinson, J.M. 1968. Geology of the Kashabowie area, District of Thunder Bay; Ontario Department of Mines, Geological Report 53, 35p.
- Ontario Geological Survey 1991. Airborne electromagnetic and total intensity magnetic survey, Shebandowan area; Ontario Geological Survey, Maps 81558 and 81559, scale 1:20000.
- Osmani, I.A., Egan, J., and Buckles, S.D. 1994. Geology and Mineral Potential of the Upper and Middle Shebandowan Lakes Area, District of Thunder Bay; *in* Summary of Field Work and Other Activities 1994, Ontario Geological Survey, Miscellaneous Paper, p. 235-240.

**Vanguard Project., North Western Ontario**

Log of DDH: WWF05-01

UTM Zone 15 (NAD 27)

mE: 681960

drilled by: Falcon Drilling

mN: 5390800

Grid:

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Started: May 5/05

Finished: May 9/05

Claim: 4204920

Elevation:

Setup checked by: J. Johnson

DDH direction: az:160°

plunge: - 50 °

Logged by: G. Heggie

On: May 14/05

Hole length: 224.3m

Stopped by: R. Middleton

Signed:



Casing length: 1.2m

Casing: Casing left in hole

Other:

Core: all BQ thin wall, trays stored at East West Resource Corp. Field Office. 1158A Russell Street, Thunder Bay

**Samples:**

Sample Numbers 32301 through 320352. Whole rock samples taken every 10m. Metal analysis in zones with elevated sulphide contents

**Highlights:**

Drill hole intersected extensive sequence of felsic volcanics (fragmental unit) with a thin horizon of metasediments and a zone rich in graphite at 198.6m.

0.00 – 1.2m	<b>CASING</b>
1.2 – 19.5m	<p><b>FELSIC VOLCANICLASTIC: RHYOLITE FRAGMENTAL</b>  Light beige/grey in colour. Fine grained with variable fragment size (1cm to 10cm). Weak to moderate foliation at 40 ° CA. Upper 8m exhibits hematite staining along fractures. Foliation /bedding at ~45-50 ° CA at 18m. Small spots of fuchsite occur in the fragments (4.2 and 15.7m). Small needles of tourmaline occur throughout the core, occasionally in higher abundance (10-10.5m, 13m, 21.5m). Commonly found around the edges of fragments.</p> <p style="padding-left: 40px;"><b>Alteration:</b> Pervasive tourmaline occurs throughout. Upper 8m exhibits hematite/rusty staining along fractures.</p> <p style="padding-left: 40px;"><b>Mineralization:</b> Trace sulfides are found as discrete crystals ~1-2mm in size (pyrite)</p>
19.5 – 20.7m	<p><b>DIABASE DYKE</b>  Dark grey to black in colour fine grained with chilled zones at top and bottom. Wall rock adjacent exhibits red/orange staining for ~40cm.</p>
20.7 – 192.3m	<p><b>RHYOLITE FRAGMENTAL</b>  Light beige grey in colour, fine grained with variable fragment size. Tourmaline is found throughout.</p> <p>41.46 - 41.82m Narrow fine to medium grained diorite dyke. Light grey/green in colour, top contact at 45 ° CA, bottom contact at 50 ° CA. Appears to contain tube amygdules at the top of the intrusive body. Wall rock appears glassy on either side ~10cm containing fine disseminated sulfide.</p> <p>50.3m bedding/foliation at ~50 ° CA.  52.9m rusty fracture crosscuts core ~5cm wide.  79.5m narrow fault zone ~5cm wide  78.7m bedding at ~55 ° CA.  Narrow quartz veins occur at 88m and 93.7m.  Volcanics become darker in colour between ~110 and 116m.</p>

Bedding at 120m ~45 ° CA.

138.7m to 139.0m medium to fine grained diorite dyke, top contact at 38 ° CA, Bottom contact at 55 ° CA.

147.8m to 148.6m medium to fine grained diorite dyke, top contact at 35 ° CA, Bottom contact at 30 ° CA.

149.5m to 150.7m medium to fine grained diorite dyke, top contact at 38 ° CA, Bottom contact at 35 ° CA.

**Alteration:** Sericite alteration appears in increase in intensity between the intervals of 81m to 83m. Narrow zone of intensely fractured and sericite altered zone at 133.4m ~30 cm wide.

**Mineralization:** Trace sulfide occurs at ~70m, 84 – 85m, 97 – 101m, 113.5, 114.7, 118.9 and 125.4m occurs as fine specks and larger blebs along edges of fragments. Fine sulfides occur at 141m to 142m, 145 to 147m and 148.6m to 149.5m. Sulfide abundance appears to increase down hole, becoming abundant below 177m.

192.3 – 195.4m

**MAFIC DYKE**

Light green to grey in colour, well defined chill margins at top (35 ° CA) and bottom (25 ° CA). Contains small xenolith. Minor sulfide occur in the centre section of the intrusion.

195.4 – 199.7m

**METASEDIMENTS: GREYWACKE TO CARBONACEOUS MUDSTONE**

Dark grey, homogenous texture, fine grained, appears brecciated and in filled with narrow quartz/calcite veins. Sulfides occur throughout.

198.6m Carbonaceous mudstones with pyrite. Bedding at 55 ° CA at 198.5m, 25 ° CA at 199.1m

**Mineralization:** Sulfides occur throughout, appears parallel to bedding and minor crosscutting.

199.7 – 224.3m

**FELSIC VOLCANICS**

Light grey beige in colour, small ~1-3cm fragments appear flattened and deformed: As previous felsic volcanic unit.

**Mineralization:** Sulfides occur as fine disseminations down to 199.5m decreasing in abundance below this. With a zone between 219-220m with elevated (trace) abundance.

222.00m

**END OF HOLE**

<b>Sample</b>	<b>From</b>	<b>To</b>	<b>Interval</b>	<b>Description</b>
32301	4.90	-	-	Felsic Volcanic
32302	14.90	-	-	Felsic Volcanic
32303	25.10	-	-	Felsic Volcanic
32304	34.90	-	-	Felsic Volcanic
32305	41.50	-	-	Diorite Dyke
32306	44.90	-	-	Felsic Volcanic
32307	54.90	-	-	Felsic Volcanic
32308	65.00	-	-	Felsic Volcanic
32309	75.00	-	-	Felsic Volcanic
32310	84.90	-	-	Felsic Volcanic
32311	95.00	-	-	Felsic Volcanic
32312	98.00	99.00	1.00	Felsic Volcanics with fine sulfides
32313	99.00	100.00	1.00	Felsic Volcanics with fine sulfides
32314	100.00	100.55	0.55	Felsic Volcanics with fine sulfides
32315	100.55	101.00	0.45	Felsic Volcanics with fine sulfides
32316	104.90	-	-	Felsic Volcanic
32317	115.00	-	-	Felsic Volcanic
32318	125.00	-	-	Felsic Volcanic
32319	134.90	-	-	Felsic Volcanic
32320	138.80	-	-	Diorite Dyke
32321	145.00	-	-	Felsic Volcanic
32322	150.60	-	-	Diorite Dyke
32323	155.20	-	-	Felsic Volcanic
32324	165.00	-	-	Felsic Volcanic
32325	141.00	141.50	0.50	Felsic Volcanics with fine sulfides
32326	145.00	146.00	1.00	Felsic Volcanics with fine sulfides
32327	146.00	147.00	1.00	Felsic Volcanics with fine sulfides
32328	148.60	149.50	0.90	Felsic Volcanics with fine sulfides

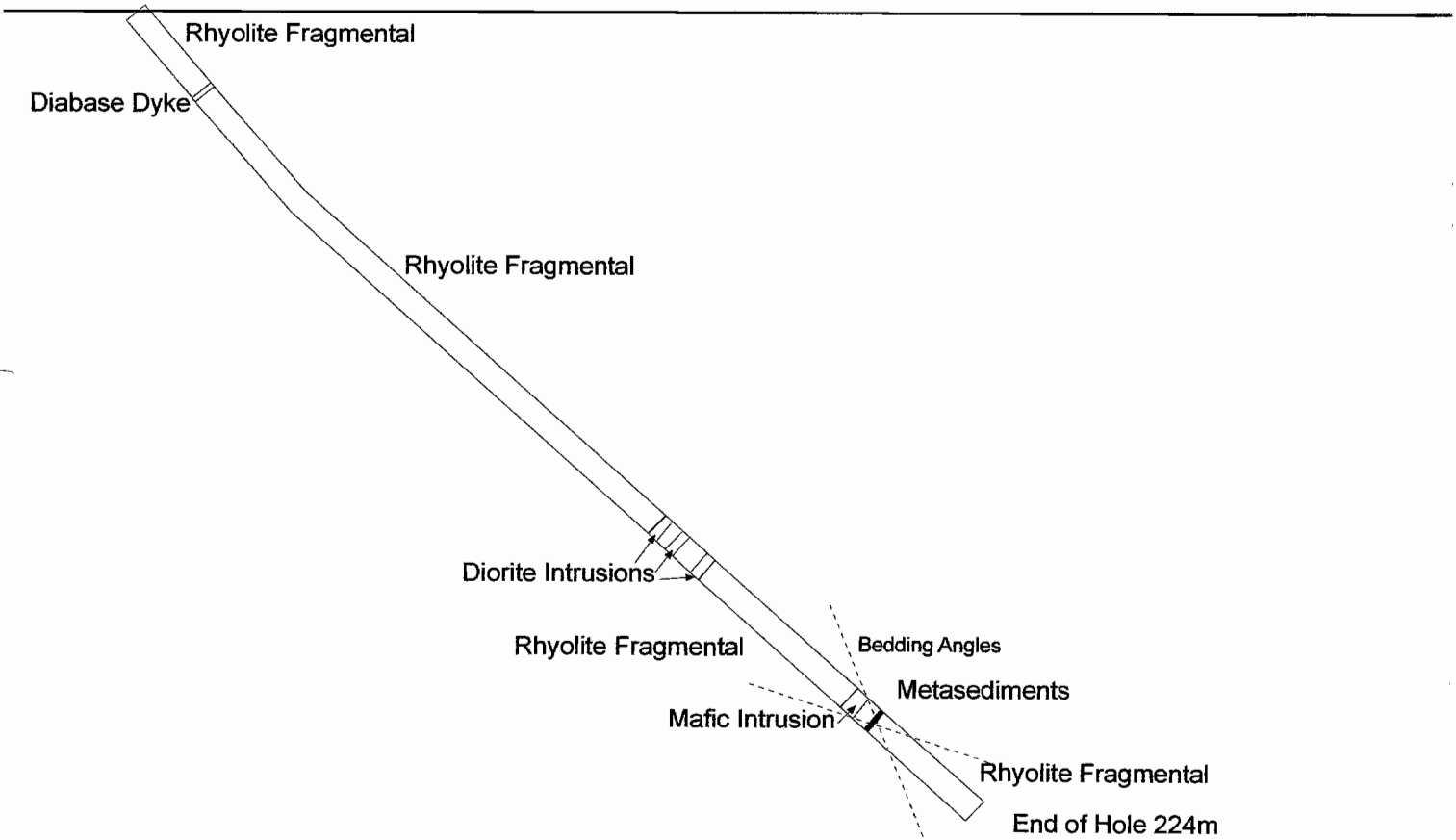
32329	183.00	184.00	1.00	Felsic Volcanics with fine sulfides
32330	184.00	185.00	1.00	Felsic Volcanics with fine sulfides
32331	185.00	186.00	1.00	Felsic Volcanics with fine sulfides
32332	186.00	187.00	1.00	Felsic Volcanics with fine sulfides
32333	187.00	188.00	1.00	Felsic Volcanics with fine sulfides
32334	188.00	189.00	1.00	Felsic Volcanics with fine sulfides
32335	189.00	190.00	1.00	Felsic Volcanics with fine sulfides
32336	190.00	191.00	1.00	Felsic Volcanics with fine sulfides
32337	191.00	192.00	1.00	Felsic Volcanics with fine sulfides
32338	192.00	192.40	0.40	Felsic Volcanics with fine sulfides
32339	195.45	196.00	0.55	Metasediments with fine sulfides
32340	196.00	197.00	1.00	Metasediments with fine sulfides
32341	197.00	198.00	1.00	Metasediments with fine sulfides
32342	198.00	198.55	0.55	Metasediments with fine sulfides
32343	198.55	199.75	1.20	Carbonaceous slates with pyrite
32344	199.75	200.57	0.82	Carbonaceous slates with pyrite
32345	175.00	-	-	Felsic Volcanic
32346	185.20	-	-	Felsic Volcanic
32347	191.90	-	-	Felsic Volcanic
32348	192.80	-	-	Mafic Dyke
32349	197.30	-	-	Metasediments
32350	215.30	-	-	Felsic Volcanic
32351	224.20	-	-	Felsic Volcanic
32352	219.00	220.00	1.00	Felsic Volcanics with fine sulfides



North

South

Drill hole WWF05-01  
-50° → 160°



20 m  
5 5 10