COMAPLEX

MINERALS CORP

December 8, 2008
Release 08-16

NEWS RELEASE

Comaplex Provides an Update to the 2008 Meliadine Exploration Programs

Comaplex Minerals Corp. (TSX-CMF) is pleased to provide the last of the diamond drilling results from the 2008 exploration program on the Meliadine gold property near Rankin Inlet, Nunavut Territory, Canada. The Meliadine West property is owned 78% by Comaplex and 22% by Meliadine Resources Ltd. (a private company owned 100% by Resource Capital Fund III L.P. of Denver), with Comaplex having an option to increase to 80%.

2008 Meliadine West Drill Program

A total of 23,537 meters in 79 drill holes were completed in the 2008 drill program on the Meliadine West property. The bulk of the drilling, 21,200 meters in 56 holes, was completed on the Tiriganiaq gold deposit (including four geo-tech holes totaling 467 meters). A total of 2014 meters in 19 holes were completed on the F Zone satellite gold deposit and 313 meters in four holes on the Noel Occurrence.

Drilling results from the 2008 program have been released in three previous press releases (July 10, August 21, November 10). Assay results from the final 37 drill holes are detailed in this release. This includes 12 holes into the Western Deeps part of the Tiriganiaq deposit, 12 holes adjacent to the 1000 and 1100 underground drifts, and 5 holes testing for a western extension of the Tiriganiaq pit. A total of 4 reconnaissance drill holes were completed into the Noel Occurrence, a new exploration target located six kilometers along strike to the east of the Tiriganiaq deposit. Four geo-technical holes were also completed at various orientations in the Tiriganiaq pit to gather rock strength and other engineering parameters to assist in future pit and underground mine design.

The goal of the drilling in the Western Deeps of the Tiriganiaq deposit was to increase the drill density (resource status) in this part of the deposit. Holes infilling the 1250 series of lodes (holes 760, 767) were rewarded with good grades over wide widths (see Figure 1). As expected, holes testing the margins of the 1250 lodes (holes 759, 769, 771, 773, 776, 777, 780, 781), returned lower grades over narrower widths. These holes also confirmed the presence of an upper series of gold bearing lodes (the 1150 series) that can carry appreciable gold (e.g. hole 769). Highlights from the Western Deeps holes include:

17.9 g/t gold over 6.4 meters in hole M08-760

23.2 g/t gold over 6.8 meters in hole M08-767

31.8 g/t gold over 4.0 meters in hole M08-769

Multiple gold intersections are the norm in most of the deep holes. See Table 1 for details. The 2008 results will now be incorporated into a new Tiriganiaq resource estimation to be completed some time in late February 2009, but not in time for the Scoping Study now being compiled.

The 12 drill holes completed adjacent to the ore drifts on the 1100 and 1000 lodes in the deposit will assist in current and future reconciliation between the underground bulk sampling and drill results. Multiple intersections are common in each hole. Drill results were consistent with expectations. See Table 1 for details.

Considering the preliminary stage of exploration on the Noel Occurrence, the presence of 6.6 g/t gold over 3.1 meters in the first drill hole (Ant08-01) into the zone is encouraging. The zone is roughly located along the interpreted eastern on-strike extension of the shear system hosting the Tiriganiaq gold deposit (see Figure 3).

Underground Exploration Program

Preliminary results from the underground exploration program at Tiriganiaq were previously released. Detailed review of the bulk sample results will be undertaken and reported by Strathcona Mineral Services Ltd. in an NI43-101 compatible report expected to be completed and released in early 2009.

Scoping Study

Work by Comaplex and external consultant, Micon International Limited, on the external Scoping Study (Preliminary Economic Assessment) on the Meliadine project is very well advanced and was due for release early in the fourth quarter. The economic events of the last 2 months have, however, resulted in a need to re-calculate the study from a cost perspective and will likely result in a significant positive impact on costs. The new realities of lower fuel, exchange rates, labor, and steel prices were considered worth the delay of incorporating some of these changes into the study. This is now being done. The NI43-101 compliant document is now scheduled to be released in January 2009.

Reconnaissance Work – Meliadine West Property

Regional reconnaissance prospecting and sampling was carried out in two areas of the Meliadine West property in 2008. A grab sample of mineralized quartz vein returned an assay of 190 g/t gold in an area located ~7 kilometers to the west of the Tiriganiaq gold deposit (see Figure 3). The area of the sample hosts a 1.5 kilometer wide concentration of high grade (>10 gmt) gold boulders down-ice of structurally deformed iron formation considered to be the stratigraphic equivalent of the Tiriganiaq geology. The source of the float samples has yet to be determined. The area is being considered for an expanded surface program in 2009.

Meliadine East Exploration Program

The operator and 50% partner on the Meliadine East property (Meliadine Resources Ltd.) has recently provided Comaplex with drilling results from the 2008 summer exploration program. The drilling was completed in, and adjacent to, the Discovery gold deposit with the goal of expanding the resources in the deposit. The deposit is located 25 kilometers east of the Meliadine West property. A total of 3832 meters in 21 drill holes were completed. Drill results are available in Table 2 and hole locations are shown in Figure 2. Highlights include:

18.0 gmt gold over 4.6 meters in hole ML08-226

22.9 gmt gold over 4.9 meters in hole ML08-227

10.1 gmt gold over 3.9 meters in hole ML08-230

21.8 gmt gold over 3.6 meters in hole ML08-243

Environmental and metallurgical studies are also being completed on the Discovery deposit. A new resource estimate for the Discovery deposit will be completed by Meliadine Resources Ltd. in 2009. Timing is such that the external Scoping Study by Comaplex will not include the 2008 Discovery drilling results.

Other

Comaplex is well financed to complete the studies currently underway on the project and with its cash flow and investments is well positioned for 2009 and subsequent years. Rapid advancement of the project towards production remains the primary objective.

For additional information, please contact George F. Fink, President, or Mark J. Balog, Chief Operating Officer, at (403) 265-2846 or visit our website at www.comaplex.com.

Doug Dumka, P.Geo. is the Chief Geologist for Comaplex Minerals and is the Senior Project Geologist and designated Qualified Person (Q.P.) for the Meliadine West Project. Mr. Dumka supervised drill hole planning, implementation and quality control/quality assurance programs at the Meliadine West project for 2008. Mark Balog, P. Geol, is the Chief Operating Officer for Comaplex Minerals and is the designated Qualified Person (Q.P.) for the Meliadine East Project for the Company.

For the Meliadine West property, drill core analysis is performed on cut, half NQ core with standard fire assay procedures and a gravimetric finish (2 assay ton, 1000 gram pulp). QA/QC programs employ the insertion of external standards (low to high grade Au), blanks, and core duplicates every 20 samples. All assaying was completed by TSL Laboratories Ltd. based in Saskatoon, Saskatchewan. TSL completes its own internal QA/QC by inserting a standard, blank, pulp duplicate, and coarse reject duplicate in every batch of 20 analyses. QA/QC compliance was rigorously checked on a continuous basis during the exploration program.

Meterage provided is measured down hole and intersection widths are interpreted to be approximately 80% of true width. The TSX has not reviewed and does not accept responsibility for the adequacy or accuracy of this release. Not for distribution to United States newswire services or dissemination in the United States.

For the Meliadine East Project, drill core analysis is performed on split, half NQ core. All samples are routinely processed by fire assay with AA finish for Au, along with 30 element ICP analysis for trace elements. Any samples which assay

greater that 1 g/t Au are re-assayed by fire assay with gravimetric finish (1 assay ton, 250 gram pulp). QA/QC programs employ the insertion of one external standard (three Au grade levels - low, medium and high), 1 blank, and 1 core duplicate for every 22 samples. All assaying was completed by International Plasma Labs (IPL) Ltd. based in Vancouver, B.C. IPL completes its own internal QA/QC by inserting standards and blanks in the sample stream and routinely repeats the analysis of every 20th sample. QA/QC compliance was rigorously checked on a continuous basis during the exploration program.

Table 1: Meliadine West Property - Comaplex Press Release 08-16

December 8, 2008

hole #	area	lode	meterage	weigh. aver. (gmt Au/m)	Cut to 60 gmt Au weigh. aver. (gmt Au/m)
M08-758	Tiriganiaq - West Deeps		hole lost		
M08-758A	Tiriganiaq - West Deeps	1255	476.5 - 479.0	12.3 / 2.5m	
		1000	560.25 - 562.75	7.3 / 2.5m	
M08-759*	Tiriganiaq - West Deeps (1150)	upper IF	85.1 - 86.8	4.5 / 1.7m	
M08-760	Tiriganiaq - West Deeps	1253	479.6 - 486.0	17.9 / 6.4m	15.8 / 6.4m
		1253	492.6 - 493.3	10.5 / 0.7m	
		1255	524.4 - 526.0	5.5 / 1.6m	
		1075	567.4 - 568.5	9.0 / 1.1m	
		1015	580.8 - 583.9	7.0 / 3.1m	
M08-761	West Pit Extension	1100	104.6 - 106.8	13.1 / 2.2m	
		1075	109.9 - 110.95	4.7 / 1.1m	
M08-762	Tiriganiaq - West Deeps		hole lost		
M08-762A	Tiriganiaq - West Deeps	upper IF	151.85 - 153.85	9.0 / 2.0m	
		1255	514.8 - 515.95	5.8 / 1.2m	
		1255	518.6 - 522.0	8.5 / 3.4m	
		1153	570.95 - 572.25	11.0 / 2.0m	
		1015	590.75 - 595.5	3.4 / 4.7m	
		1015	599.95 - 600.95	8.8 / 1.0m	
M08-763	West Pit Extension	upper IF	89.3 - 90.3	8.1 / 1.0m	
		1100	101.85 - 102.9	9.2 / 1.1m	
M08-764	West Pit Extension	1100	123.4 - 124.0	7.2 / 0.6m	
M08-765	West Pit Extension	1100	110.8 - 111.35	8.8 / 0.6m	
M08-766	West Pit Extension		NSV		
M08-767	Tiriganiaq - West Deeps	1255	393.2 - 400.0	23.2 / 6.8m	18.7 / 6.8m
		1251	416.0 - 418.5	14.5 / 2.5m	
		1000	504.0 - 504.9	8.9 / 0.9m	
M08-768	Pit Area (1100 lode)	1100	78.75 - 80.9	4.3 / 2.2m	
		1050	104.25 - 109.2	4.6 / 5.0m	
		1000	122.45 - 125.0	3.3 / 2.6m	
M08-769*	Tiriganiaq - West Deeps (1150)	1153	392.0 - 396.0	31.8 / 4.0m	26.8 / 4.0m
		1152	412.6 - 413.5	9.3 / 0.9m	
		1100	424.0 - 424.8	9.2 / 1.3m	
		1015	471.9 - 473.5	7.3 / 1.6m	
		1000	480.9 - 482.1	4.8 / 1.2m	
M08-770	Pit Area (1100 lode)	1100	117.8 - 119.35	5.5 / 1.5m	
		1050	121.4 - 124.8	12.1 / 3.4m	
		1025	133.55 - 136.6	13.3 / 3.1m	
		1000	140.65 - 141.95	3.5 / 1.3m	
M08-771*	Tiriganiaq - West Deeps (1150)	1251	363.0 - 363.5	11.1 / 0.5m	
		1251	369.05 - 370.55	12.1 / 1.5m	
		1154	371.3 - 373.0	6.0 / 1.7m	
		1153	382.25 - 387.9	6.9 / 5.6m	
		1152	399.3 - 401.9	13.9 / 2.6m	
M08-772	Pit Area (1100 lode)	1100	84.2 - 85.8	6.5 / 1.7m	
		1050	106.8 - 112.2	9.0 / 5.4m	
		1025	117.9 - 119.9	7.3 / 2.0m	
		1000	123.7 - 124.8	7.2 / 1.1m	
M08-773*	Tiriganiaq - West Deeps (1150)	1152	333.3 - 335.55	23.1 / 2.3m	22.8 / 2.3m

hole #	area	lode	meterage	weigh. aver. (gmt Au/m)	Cut to 60 gmt Au weigh. aver. (gmt Au/m)
		1100	386.12 - 388.5	5.1 / 2.4m	
		1100	392.05 - 392.6	8.5 / 0.6m	
M08-774	Pit Area (1100 lode)	1100	106.7 - 109.7	9.6 / 3.0m	
		1050	112.8 - 117.0	8.0 / 4.2m	
		1050	127.25 - 130.35	3.5 / 3.1m	
		1025	140.65 - 142.0	8.6 / 1.4m	
		1000	145.75 - 146.25	9.2 / 0.5m	
M08-775A	Pit Area (1100 lode)	1100	83.85 - 88.8	5.5 / 5.0m	
		1075	93.9 - 96.25	10.0 / 2.4m	
		1025	116.5 - 119.85	9.3 / 3.3m	
M08-776*	Tiriganiaq - West Deeps (1150)	1154	349.7 - 350.7	13.9 / 1.0m	
		1153	364.65 - 367.65	9.0 / 3.0m	
M08-777*	Tiriganiaq - West Deeps (1150)		NSV		
M08-778	Pit Area (1100 lode)	1100	108.9 - 113.9	12.5 / 5.1m	
		1050	128.4 - 132.9	7.6 / 4.5m	
		1000	146.0 - 147.6	8.9 / 1.4m	
M08-779	Pit Area (1100 lode)	1100	112.0 - 117.25	11.1 / 5.3m	
		1050	131.9 - 135.0	10.2 / 3.1m	
		1000	149.4 - 150.5	5.6 / 1.1m	
M08-780*	Tiriganiaq - West Deeps (1150)	1154	342.5 - 344.8	9.5 / 2.3m	
		1153	347.7 - 349.3	5.8 / 1.6m	
		1152	356.1 - 360.7	6.9 / 4.6m	
		1000	427.5 - 432.8	13.0 / 5.3m	
M08-781*	Tiriganiaq - West Deeps		NSV		
M08-782	Pit Area (1100 lode)	1100	80.15 - 83.4	6.9 / 3.3m	
		1050	99.8 - 100.7	7.7 / 0.9m	
		1000	115.05 - 123.85	8.6 / 8.8m	
M08-783	Tiriganiaq Infill (1000 lode)	1100	90.0 - 90.6	13.2 / 0.6m	
		1000	153.1 - 155.6	18.1 / 2.5m	
M08-784	Tiriganiaq Infill (1000 lode)	1000	118.45 - 120.85	28.4 / 2.4m	21.4 / 2.4m
M08-785	Tiriganiaq Infill (1000 lode)	1000	164.65 - 167.6	4.5 / 2.9m	
M08-786	Tiriganiaq Infill (1000 lode)	1025	198.2 - 199.4	9.0 / 1.2m	
		1000	206.5 - 209.3	58.4 / 2.8m	38.7 / 2.8m
Ant 08-01	Recon - Noel Showing		11.2 - 14.25	6.6 / 3.1m	
Ant 08-02	Recon - Noel Showing		NSV		
Ant 08-03	Recon - Noel Showing		NSV		
Ant 08-04	Recon - Noel Showing		NSV		
GT08-01	geotech - Tiriganiaq pit		NSV		
GT08-02	geotech - Tiriganiaq pit	1025	61.83 - 63.63	17.5 / 1.8m	
		1000	80.35 - 86.45	8.8 / 6.1m	missing core for geotech
			incl. 83.26 - 86.45	14.4 / 3.2m	
GT08-03	geotech - Tiriganiaq pit		NSV		
GT08-04	geotech - Tiriganiaq pit	1050	43.9 - 49.06	5.3 / 5.2m	
		1000	61.2 - 63.21	11.7 / 2.0m	missing core for geotech

* drillholes testing the margins of the 1250 lodes in the Western Deeps

Table 2: Meliadine East Property, Discovery Zone - Comaplex Press Release 08-16

December 8, 2008

hole #	area	lode	meterage	weigh. aver. (gmt Au/m)	Cut to 60 gmt Au weigh. aver. (gmt Au/m)
M:08-225	Discovery Zone		171.72 - 174.29	17.5 / 2.6m	7.8 / 2.6m
			incl. 173.19 - 173.5	140.8 / 0.3m	
			175.3 - 175.8	3.4 / 0.5m	
			181.0 - 181.6	8.4 / 0.6m	
			214.3 - 216.15	1.4 / 1.8m	
ML08-226	Discovery Zone		168.24 - 172.84	18.0 / 4.6m	
ML08-227	Discovery Zone		113.74 - 118.68	22.9 / 4.9m	19.3 / 4.9m
ML08-228	Discovery Zone		125.0 - 125.59	6.2 / 0.6m	
			214.03 - 217.12	9.2 / 3.1m	
			219.8 - 220.6	10.1 / 0.8m	
ML08-229	Discovery Zone		236.84 - 237.32	6.7 / 0.5m	
			261.07 - 263.19	4.8 / 2.1m	
			264.62 - 264.95	7.9 / 0.3m	
ML08-230	Discovery Zone		242.45 - 246.39	10.1 / 3.9m	
			261.42 - 262 79	5.7 / 1.4m	
			266.65 - 268.55	9.2 / 1.9m	
			272.3 - 272.8	4.7 / 0.5m	
ML08-231	Discovery Zone		145.79 - 148.22	1.9 / 2.4m	
ML08-232	Discovery Zone		NSV		
ML08-233	Discovery Zone		41.35 - 41.86	14.4 / 0.5m	
			83.0 - 85.25	2.1 / 2.2m	
ML08-234	Discovery Zone		NSV		
ML08-235	Discovery Zone		NSV		
ML08-236	Discovery Zone		34.67 - 36.4	13.8 / 1.7m	
			58.28 - 61.27	2.6 / 3.0m	
ML08-237	Discovery Zone		128.35 - 129.56	38.8 / 1.2m	
ML08-238	Discovery Zone		75.2 / 77.04	1.8 / 1.8m	
			118.78-121.74	6.3 / 3.0m	
ML08-239	Discovery Zone		36.3 - 37.22	20.3 / 0.9m	
ML08-240	Discovery Zone		49.23 - 51.0	3.8 / 1.8m	
ML08-241	Discovery Zone		NSV		
ML08-242	Discovery Zone		62.46 - 63.7	6.6 / 1.2m	
			72.27 - 74.04	2.6 / 1.8m	
			76.46 - 77.49	5.1 / 1.0m	
ML08-244	Discovery Zone		99.0 - 107.93	2.6 / 8.9m	
ML08-243	Discovery Zone		199.77 - 203.37	21.8 / 3.6m	20.7 / 3.6m

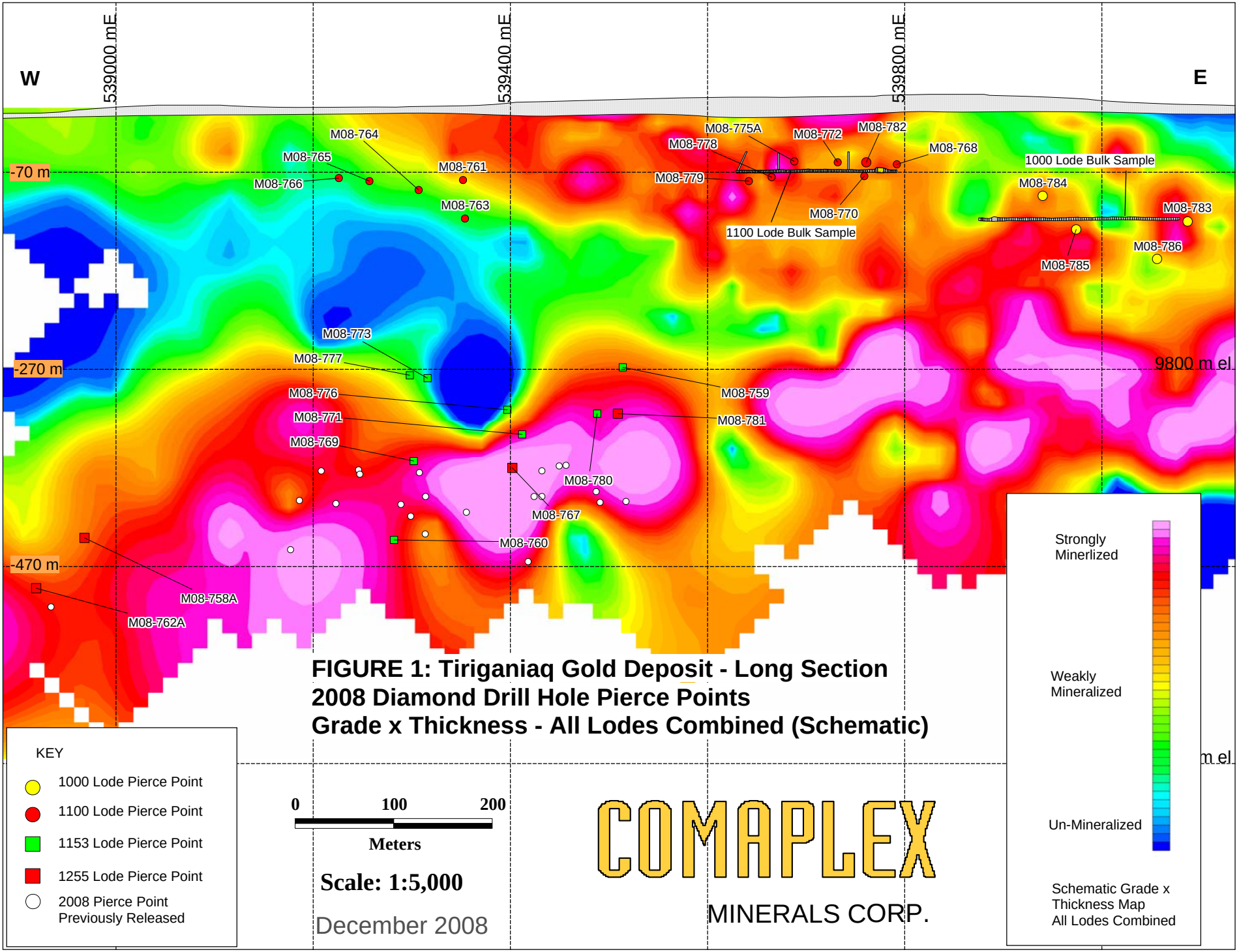
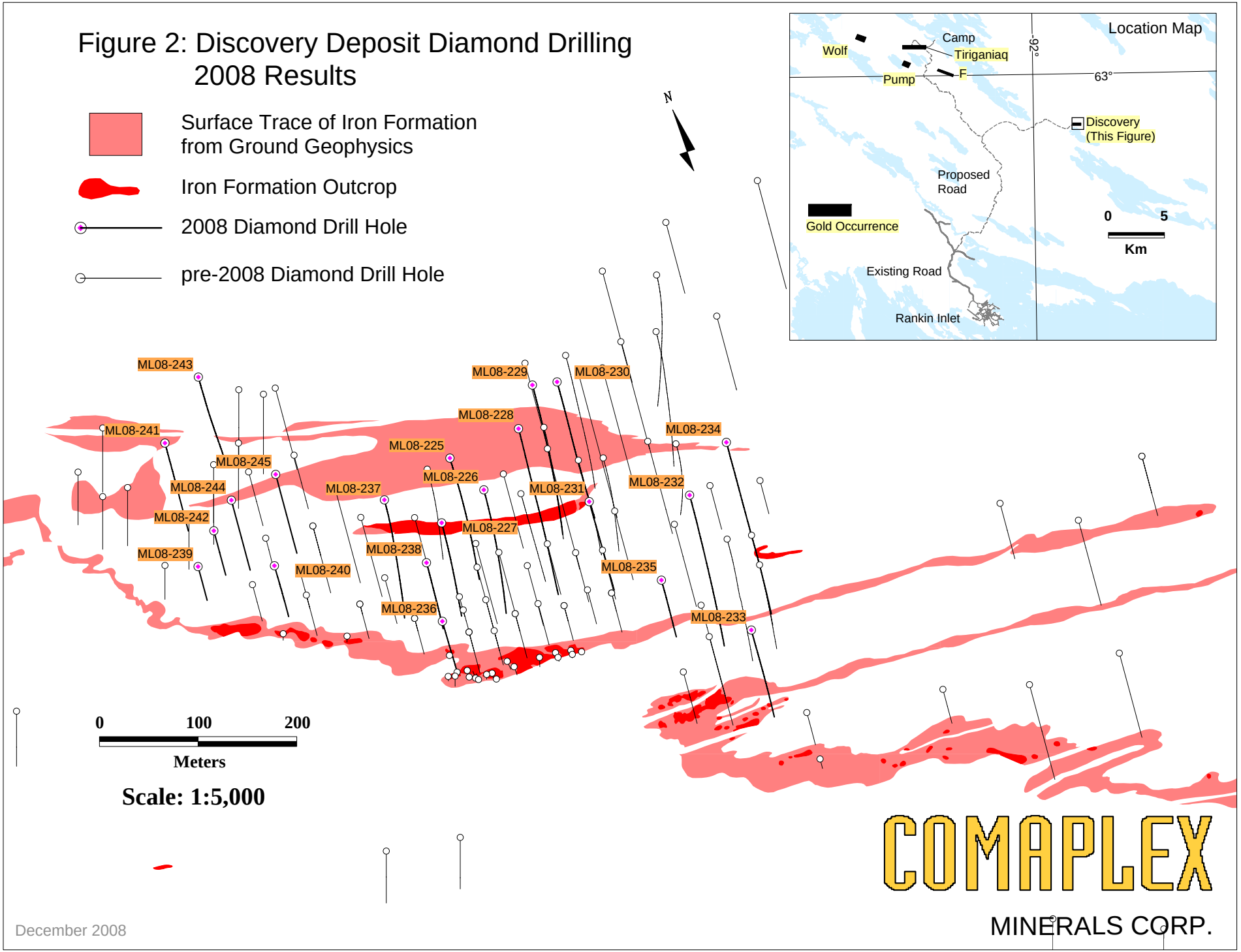
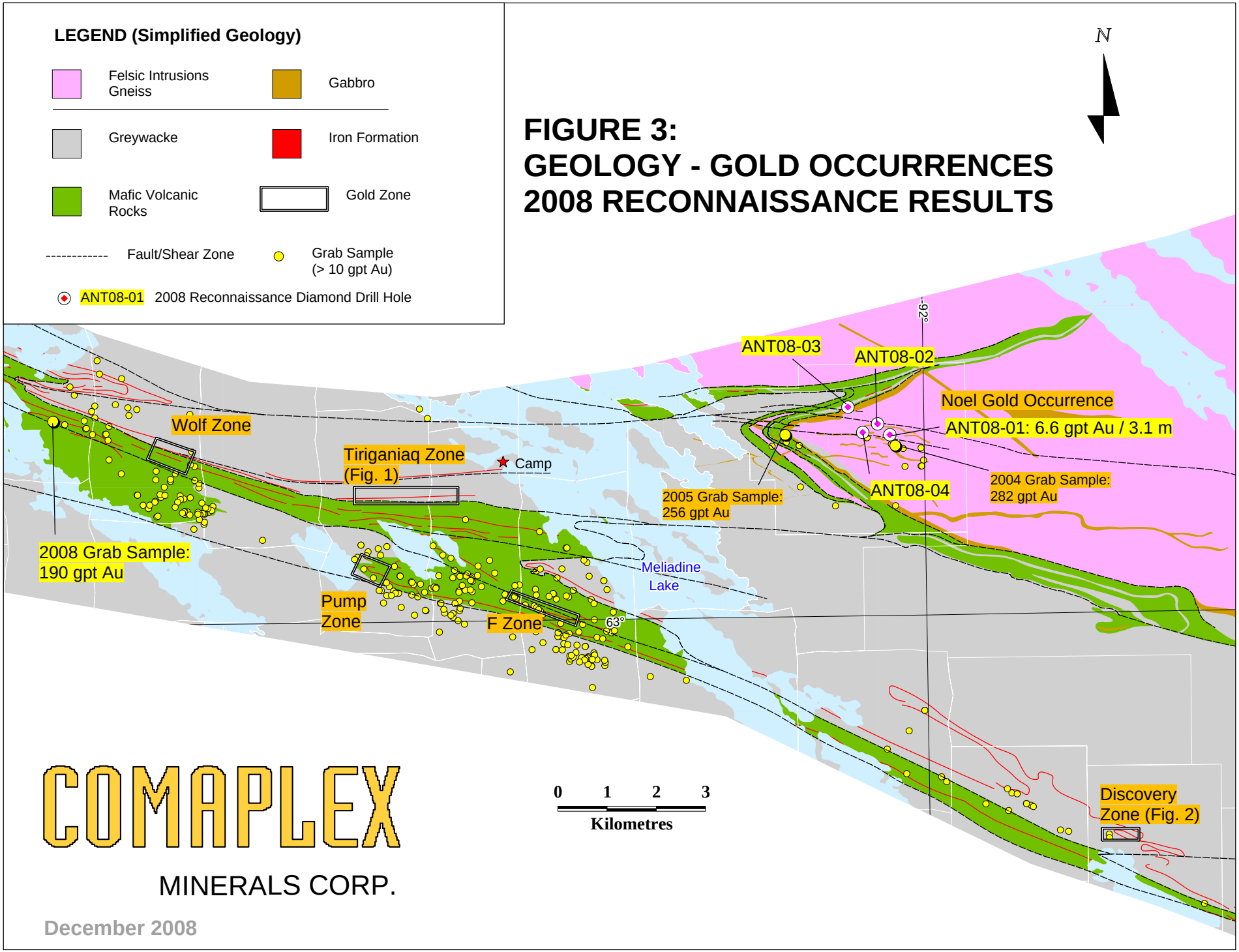


FIGURE 1: Tiriganiaq Gold Deposit - Long Section
2008 Diamond Drill Hole Pierce Points
Grade x Thickness - All Lodes Combined (Schematic)

Figure 2: Discovery Deposit Diamond Drilling 2008 Results




LEGEND (Simplified Geology)
Felsic Intrusions Gneiss
Gabbro
Greywacke
Iron Formation
Mafic Volcanic Rocks
Gold Zone
Fault/Shear Zone
Grab Sample (> 10 gpt Au)
ANT08-01 2008 Reconnaissance Diamond Drill Hole
N
FIGURE 3:
GEOLOGY - GOLD OCCURRENCES
2008 RECONNAISSANCE RESULTS
-92°
ANT08-03
ANT08-02
Noel Gold Occurrence
ANT08-01: 6.6 gpt Au / 3.1 m
2004 Grab Sample: 282 gpt Au
ANT08-04
2005 Grab Sample: 256 gpt Au
Wolf Zone
Tiriganiaq Zone (Fig. 1)
Camp
2008 Grab Sample: 190 gpt Au
Meliadine Lake
Pump Zone
F Zone
63°
Discovery Zone (Fig. 2)
0 1 2 3
Kilometres
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December 2008