



G L E N G A R R Y

EPM 13305 - WESTWOOD

ANNUAL REPORT

For the period ending 30th April 2003

Authors

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1:250,000 Sheet: Rockhampton SF56-13

1:100,000 Sheet: Mt Morgan 8950

GLENGARRY RESOURCES LIMITED

ABN 40 009 468 099

SUMMARY

The Westwood Project (EPM 13305) is held 100% by Glengarry Resources Ltd. It is located at Westwood, 50 km south west of Rockhampton and 25 km west of Mt Morgan in Central Queensland. The EPM covers a late Permian layered gabbro intrusive which is strongly anomalous in Cu and PGE's.

During the reporting period Glengarry carried out an airborne EM survey and interpretation followed by rock sampling and RC percussion drilling at the Magdalene and Magda One prospects.

Rock sampling of copper stained outcrops returned assays up to 1.34% Cu and 1.7g/t Pd. Drill testing yielded sub economic intercepts up to 10m @ 0.42% Cu, 0.32g/t Pd and 0.16g/t Au and 6m @ 0.32% Cu and 0.13g/t Au.

The Westwood project area has some further potential as there are numerous EM anomalies which have not yet been drill tested.

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1.0 INTRODUCTION

Work carried out by Glengarry on EPM 13305 (Westwood) has focussed on the copper, gold, and PGM potential of small layered gabbro complexes emplaced in the area during the Late Permian. Seven of these intrusives outcrop over a strike length of approximately 50 km. Glengarry's investigations have mostly been directed at the Bucknalla layered intrusive complex (also referred to as the Westwood Layered Gabbro) which appears to be the most interesting. Here recent rock chip sampling has returned copper values up to 2% and combined PGE values up to 5g/t and drilling has intersected sub economic semi massive sulphides.

The Bucknalla complex was first recorded in the literature by Shepherd (1956) when the Pd content of ore taken from a small 12m deep shaft known as the Westwood Cu-Pd-Au mine was reported.

2.0 LOCATION AND ACCESS

The tenement is located approximately 50km southwest of Rockhampton and 25km due west of Mt Morgan (Figures 1 and 2), near the town of Westwood in Central Queensland, on the Mt Morgan 8950 1:100,000 map sheet.

Access is along station tracks and some fence lines however steep terrain in the Westwood area makes vehicle access difficult.

3.0 TENEMENTS

EPM 13305 is owned 100% by Glengarry Resources Limited. The tenement comprising 96 sub-blocks (Table 1 & Figure 1) was granted for 5 years on 30th April 2001.

Table 1 - Block Identification Map Series B - Rockhampton

Block	Sub-blocks
3098	h,j,k,n,o,p,s,t,u,x,y,z
3099	f,g,l,m,q,r,v,w
3170	c,d,e,h,j,k,o,p,u
3171	a b,f,g,l,m,q,w
3243	b,c,d,g,h,j,m,n,o,p,t,u,z
3244	q,r,v,w,x,y,z
3245	v,w,x,y,z
3315	e
3316	a,b,c,d,e,f,g,h,j,k
3317	a,b,c,d,e,f,g,h,j,n,o,s,t,y,z
3318	q,v
3389	e
3390	a,b,c,d

Number of sub-blocks = 96

Central Pacific Minerals NL holds a small mining development lease (MDL62) within the tenement over the Westwood Cu -Pd -Au mine.

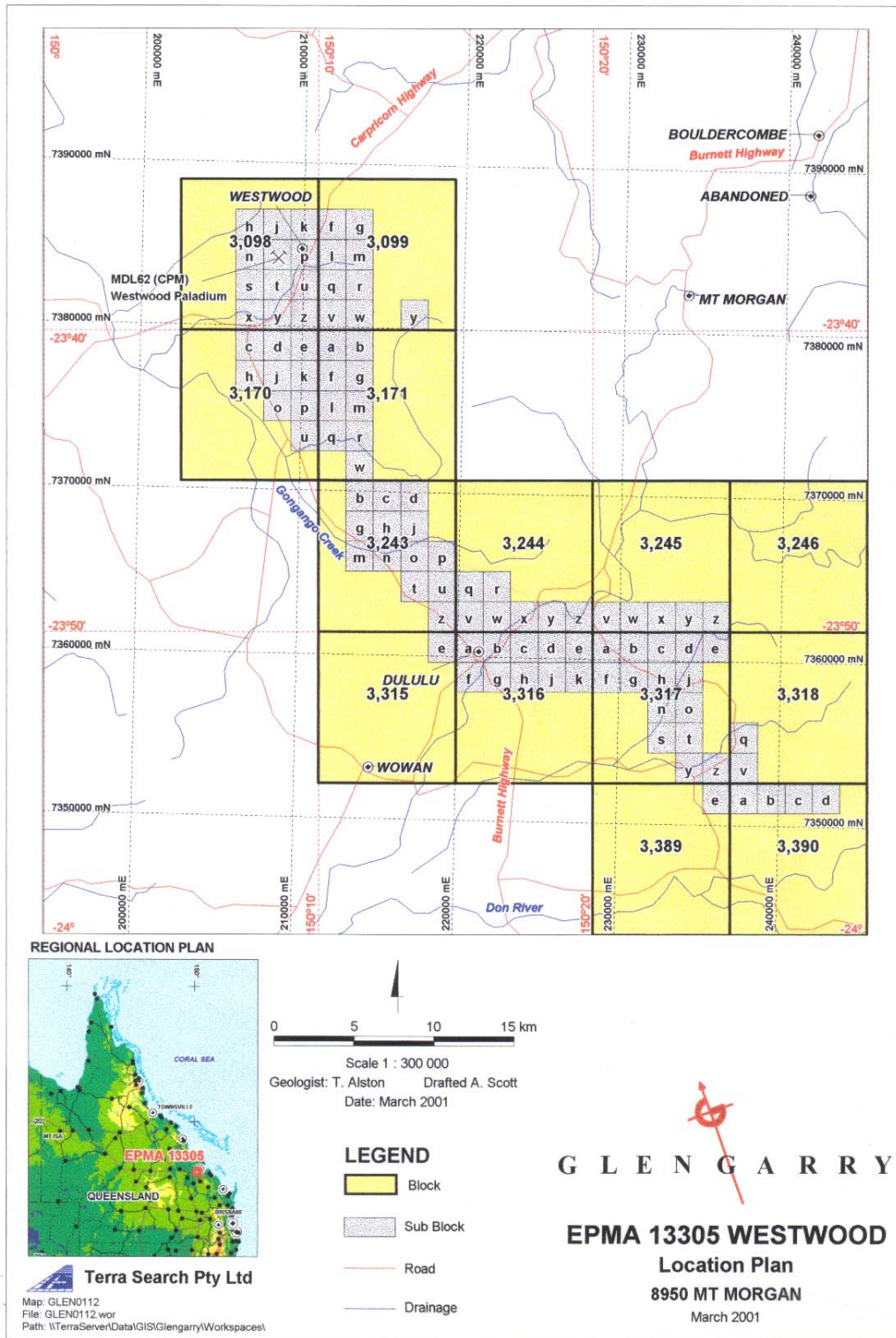
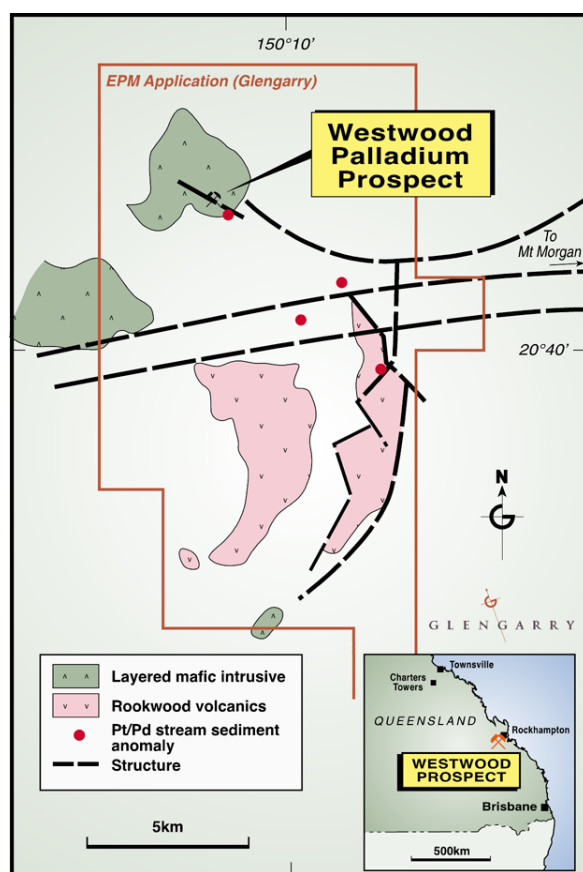


FIGURE 1

Figure 1 Location Plan

4.0 GEOLOGY

The oldest rocks in the area are the Lower Permian Rookwood Volcanics, which consist predominantly of spilitic lavas, basaltic lavas, and minor vitric tuffs. These were deposited in the Grantleigh Trough and are overlain by the Moah Creek Beds which outcrop as dark purple mudstones. Contact with the Rookwood Volcanics is locally sharp with fault breccias containing limonite, chalcedony, and quartz. These rocks were folded in the middle to late Permian, prior to emplacement of basic intrusions, known informally as the Westwood complex, the Fred Creek complex, and the Windah intrusion.



Westwood Palladium - Queensland - Regional Geology & Structures

Figure 2

The granodioritic Bouldercombe complex was emplaced in the late Permian (dated at 235 my). A zone of hybrid rocks between the Fred Creek and the Bouldercombe complexes is suggested by Clifford (1987) to indicate similar ages.

The eastern portion of the tenement is overlain by Cretaceous basalt, and a number of Cretaceous rhyolite and trachyte plugs form prominent hills.

5.0 PREVIOUS EXPLORATION

Much of the area was explored by CRA from 1961-1962 as part of a larger mapping and stream sediment sampling programme. CRA concentrated their efforts on Cu-Mo mineralisation at Moonmera.

BHP held the ground from 1968 to 1972 and completed substantial grid based exploration for copper and nickel on A to P 532M. They drilled 70 holes within the current tenement area.

Nord Resources evaluated BHP's work and subsequently drilled one hole.

Central Pacific Minerals NL (CPM) in joint venture with Southern Pacific Petroleum NL and Messrs Mackenzie, Forbes and Clark, were granted A to P 4190M in 1986. CPM regridded the Westwood Layered Gabbro Prospect and carried out detailed ground magnetics and soil geochemistry (1450 samples) assaying for copper, gold, platinum, and palladium. A regional stream sediment sampling survey covering 1428 sites was also completed. Ten holes were drilled.

CRA briefly held the ground in 1995 but only completed two small ground EM surveys totalling 11 line km.

Work carried out by Glengarry during the first year of EPM 13305 is described in the 2002 Annual report by T Alston and P Rea (2002).

6.0 WORK CARRIED OUT DURING THE REPORTING PERIOD

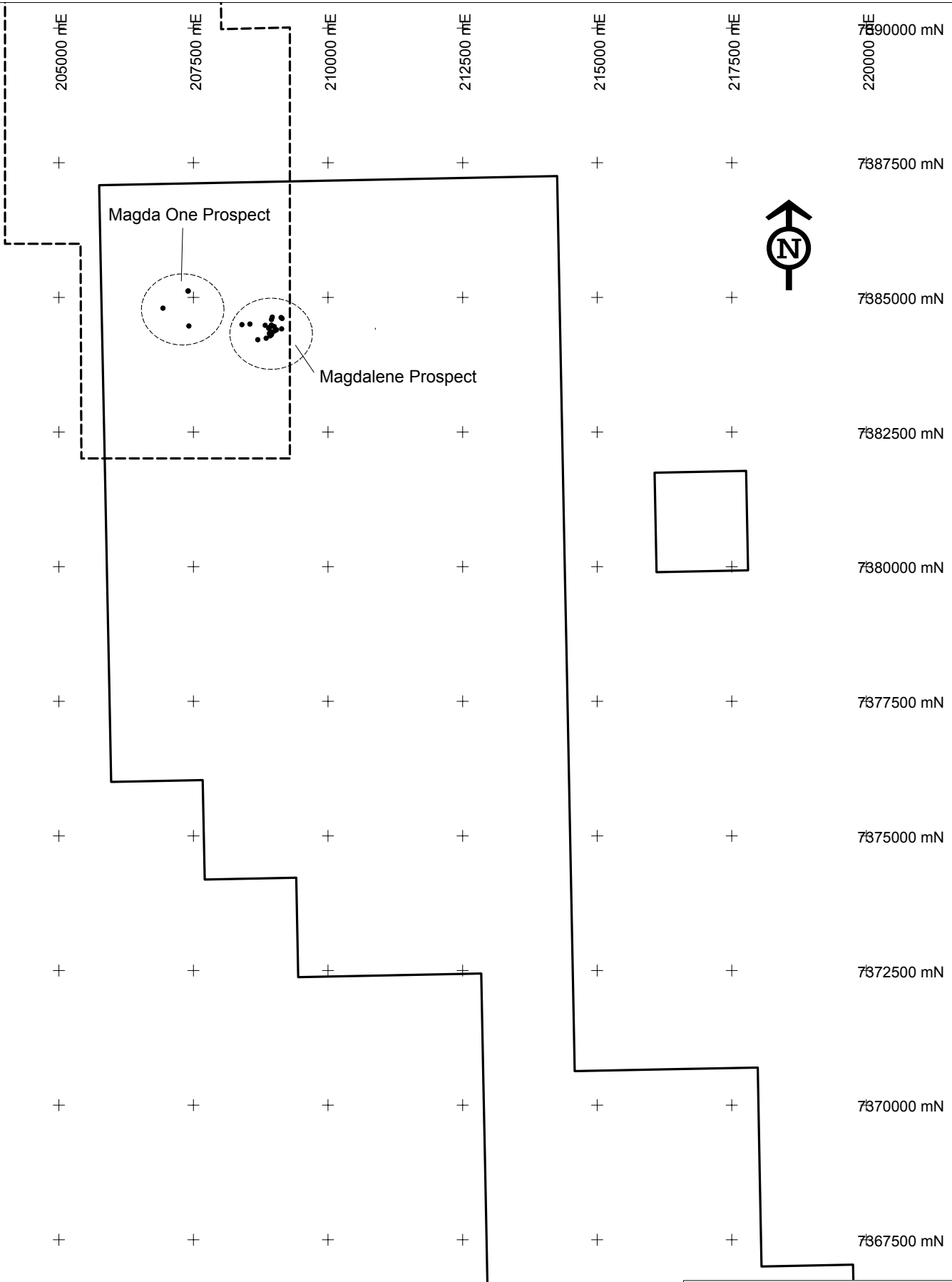
Work carried out during the reporting period involved a helicopter EM (HoistEM) survey and interpretation, rock chip sampling and RC percussion drilling at the Magdalene and Magda One prospects (Figure 3). Analysis of all of the available geological data outlined the Magdalene and Magda One prospects within the Westwood layered gabbro as the areas of highest priority. Both prospects are interpreted by Rae (2001) to lie within the basal portion of the layered intrusive near a postulated feeder pipe (Figure 4).




All drill hole and rock samples were located in AMG coordinates (AGD84 datum) using a hand held GPS.

6.1 Airborne EM Survey

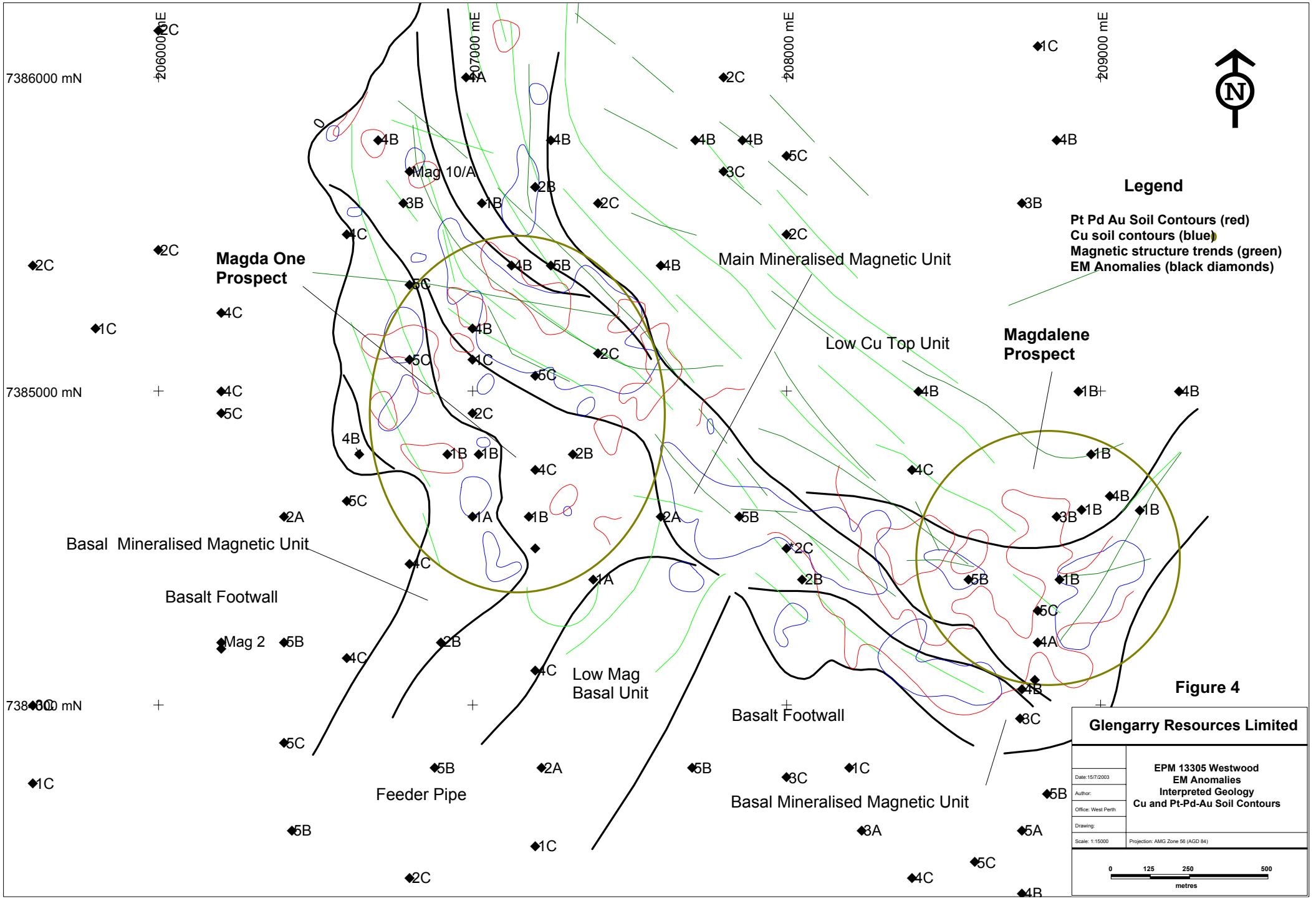
A 309 line km helicopter EM survey) was flown over the Westwood layered gabbro by GPX using the HoistEM system (Figures 3, 5 & 6). The survey had a flight line spacing of 200m on both N-S and E-W lines and a flying height of 30m. A report by GPX listing more detailed survey specifications is attached as Appendix 1.

The raw EM data profiles were interpreted for Glengarry by geophysicist L Wynne and geologist P Rea. This study generated over 100 EM anomalies of varying priority many of which lie within the basal portion of the postulated layered intrusive (Figure 4). In the figure each anomaly is



- Legend**
-  EPM 13305 Outline
 -  EM Survey Area
 -  Drill Hole Location

Glengarry Resources Limited	
<small>Date: 9/7/2003</small>	EPM 1033 Westwood Prospects Drill Hole Locations and EM Survey Area
<small>Author:</small>	
<small>Office: West Perth</small>	
<small>Drawing:</small>	
<small>Scale: 1:100000</small>	<small>Projection: AMG Zone 56 (AGD 66)</small>



Legend

- Pt Pd Au Soil Contours (red)
- Cu soil contours (blue)
- Magnetic structure trends (green)
- EM Anomalies (black diamonds)

Figure 4

Glengarry Resources Limited	
EPM 13305 Westwood EM Anomalies Interpreted Geology Cu and Pt-Pd-Au Soil Contours	
Date: 15/7/2003	
Author:	
Office: West Perth	
Drawing:	
Scale: 1:15000	Projection: AMG Zone 56 (AGD 84)

designated with a priority ranking of 1 to 5 and the letter A, B or C denoting the following:

- A detected on both N-S and E-W lines
- B on E-W lines only
- C on N-S lines only

GPX also prepared a number of CDI (Conductivity Depth Inversion) profiles through existing Glengarry 2002 drill holes (refer Section 6.3.1) highlighting target areas of high conductivity at depth.

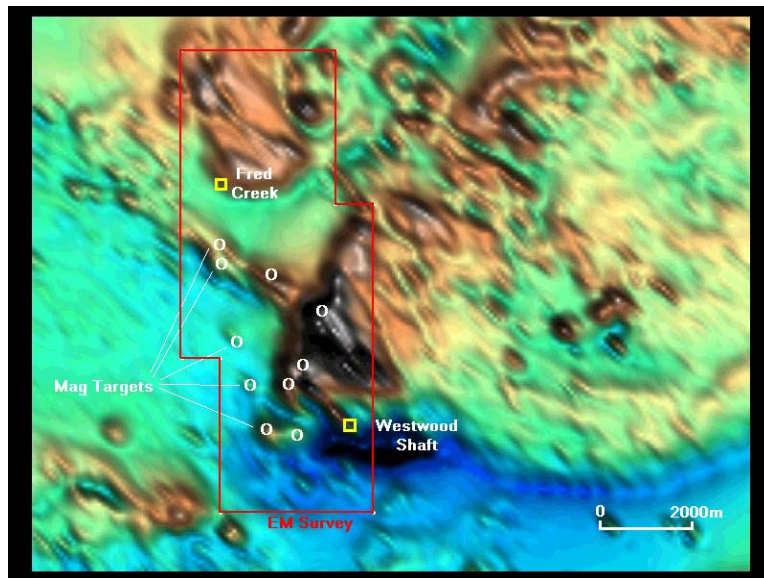


Figure 5 Airborne Magnetic Image showing EM Survey Area

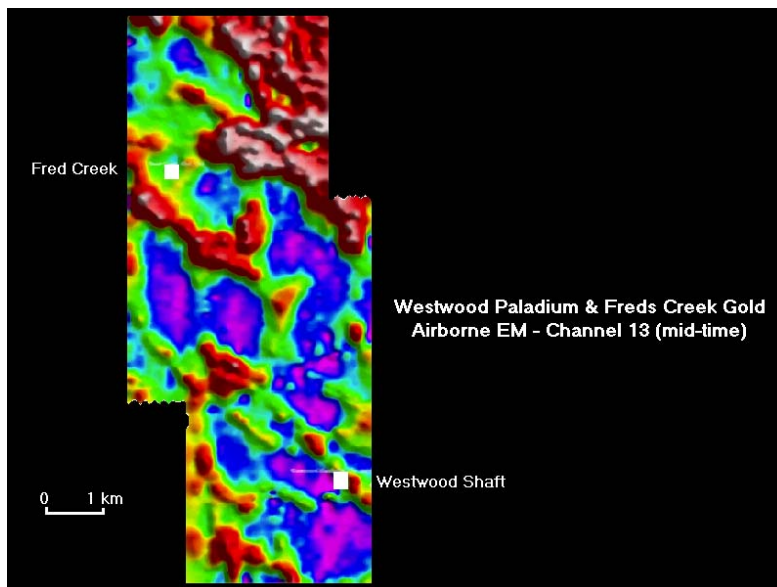


Figure 6 HoistEM Survey Image (Channel 13, mid time)

6.2 Rock Sampling

Thirty rock samples with obvious copper staining were collected from the Magda One and Magdalene prospects and dispatched to ALS Townsville for analysis of Cu, Pb Zn, Pt, Pd, Au and other elements. Best results were from sample 100528, a coarse leuco gabbro from the Magda One prospect which assayed 1.34% Cu and sample 100520 from the Magdalene prospect which assayed 1.7g/t Pd, 0.43g/t Au, 0.13 g/t Pt and 0.49% Cu in a sheared gabbro. Sample locations with copper assays are shown in Figure 7 and sample descriptions, assay results and analytical methods used are displayed in Appendix 2.

6.3 Drilling

A total of 25 RC holes (2006m) were drilled at the Magdalene and Magda One prospects using by Ford Drilling Contractors for the first program and Drill Torque for the second. Drill hole locations are shown in Figures 3 & 8 (a) & (b) and cross sections for the Magdalene Prospect in Figures 9 (a) to (h) and for Magda One in 9 (i) to (k).

Drill holes were sampled in 5m composites with interesting areas resplit into 1m samples. All samples were sent to ALS in Townsville for analysis of Au, Pt, Pd, Ag, Cu, Pb, Zn, Ni, Co, Mo, As, Fe, Mn & S. Drill hole Cu assays in ppm and total PGE's ie. (Pt +Pd +Au) in ppb are plotted on each cross section. Drill hole geology is summarised in Appendix 4.

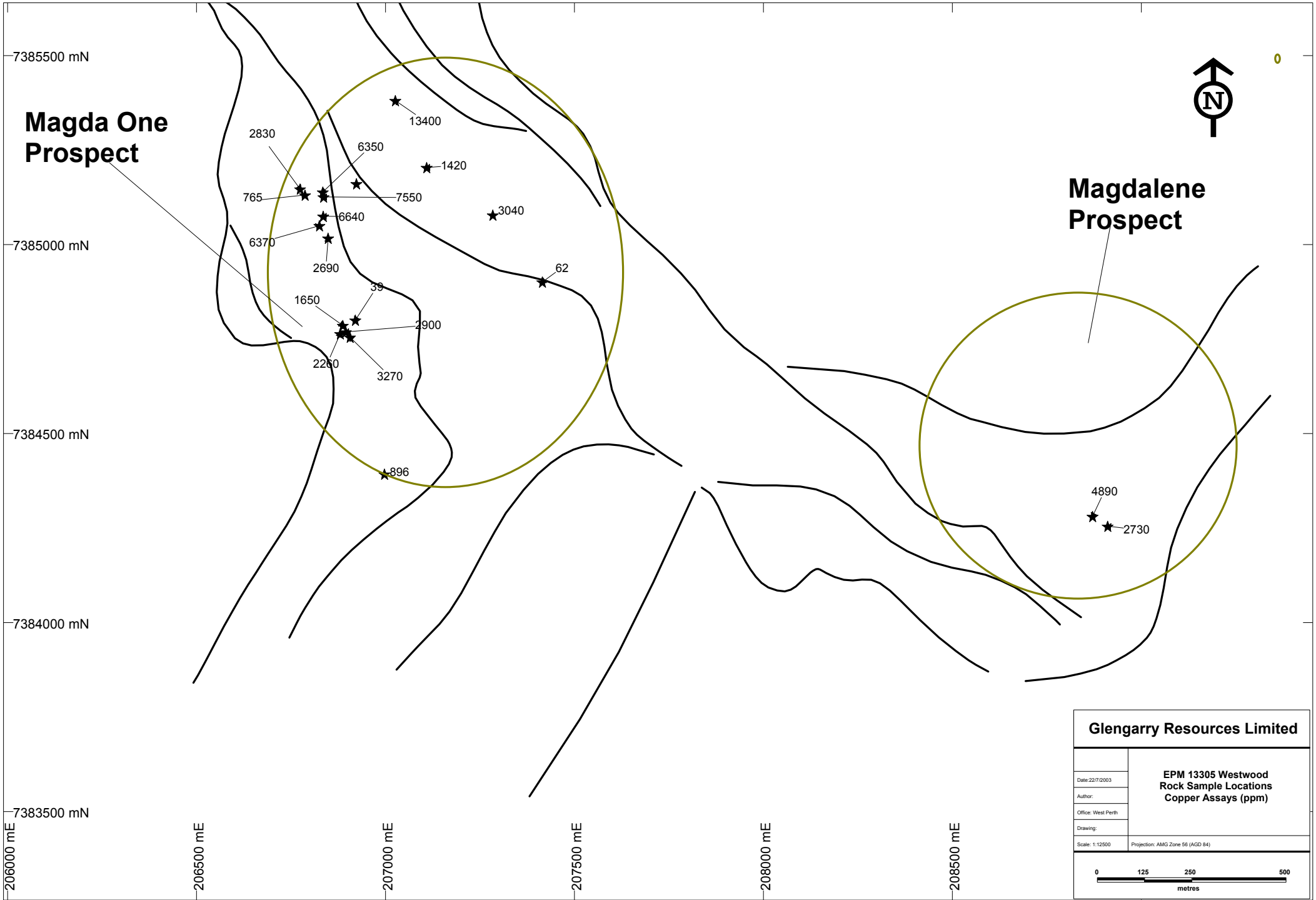
6.3.1 Magdalene Prospect

The Magdalene prospect is located about 500m east of the Westwood Cu -Pd -Au shaft. CPM previously recorded a peak 1.2 g/t PGE assay from soils collected in this area. In late 2002 a total of 20 RC percussion holes were completed for 1298m at this prospect. Most of the drilling tested Cu and Pd geochemical anomalies as well as some co-incident magnetic and electromagnetic anomalies.

Approximately half of the holes drilled at Magdalene intersected anomalous Cu, Pd \pm Au and these are listed in Table 2. Individual 1m samples from hole 8 returned up to 1.70 g/t of combined Pd, Pt and Au values (0.8 g/t over a 5m composite).

Petrological study (Appendix 3) suggests the anomalous metal values are associated with primary magmatic sulphides in fine to medium grained olivine gabbros and pyroxenites.

A further two holes (Holes 1 and 2 depicted in Figure 10, actually holes 19 and 20) were drilled at the Magdalene prospect in 2003 as part of the second RC drilling programme to test basal portions of the layered intrusive complex. These were targeted at interpreted HoistEM anomalies at depths of 50 to 100m beneath the 2002 shallow drilling which intersected disseminated sulphides in RC holes 6, 8 and 11. Best results from these two holes are shown in Table 3. The best assay was



3m at 0.25% Cu and 0.117 g/t PGE from disseminated sulphides intersected in hole 19. Drilling in this area showed that the EM anomalies were somewhat shallower than indicated by the conductivity depth inversions supplied by the contractor.

Table 3 Magdalene Prospect, Best Drilling Results (2003)

Hole No.	Depth (metres)	AMG Co-Ords		Az (AMG)	Incl n	Results (ppm)		
		N	E			From	To	Interval/Grade
03WWRC19	118	7384626	209127	-	90°	10	20	10m @ 1995 Cu & 0.11 PGE
						95	105	10m @ 2010 Cu & 0.13 PGE
03WWRC20	224	7384486	208947	220°	60°	104	112	8m @ 0.09 Pd & 0.04 Pt

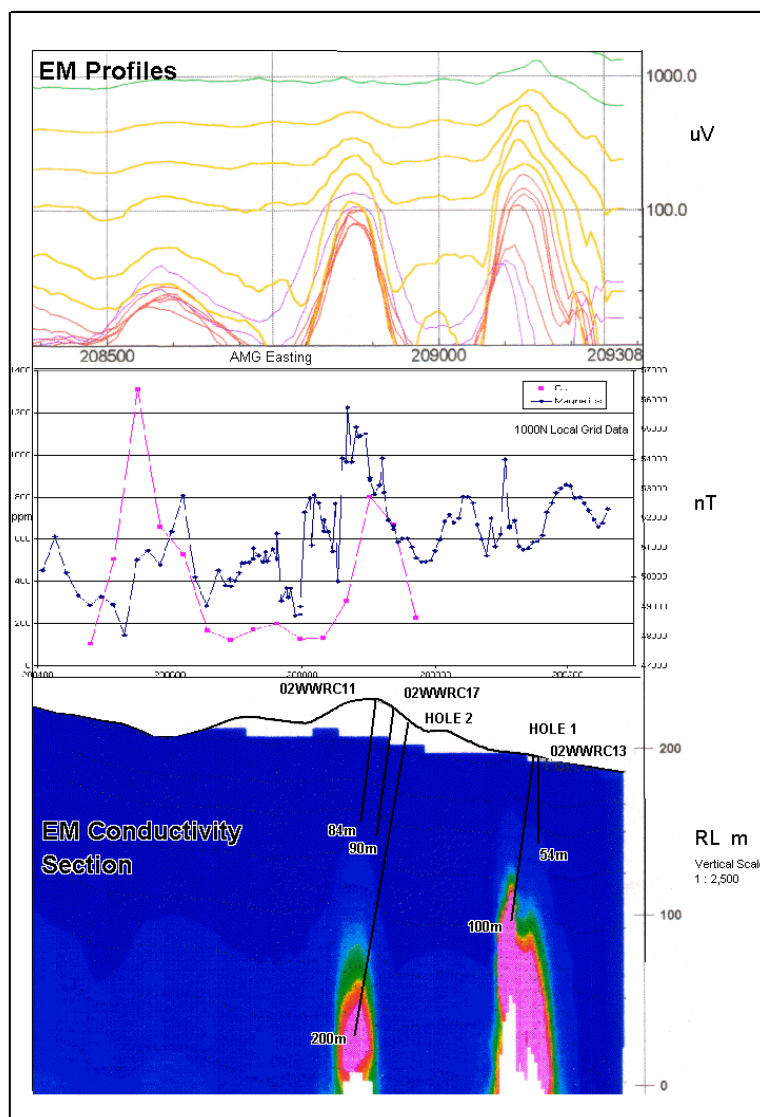


Figure 10
Magdalene Prospect Conductivity Section through RC holes 11, 17 & 13.

Table 2**Magdalene Prospect – List of Anomalous Intersections (2002)**

HOLE NO.	DEPTH	INCL'N	Az (Mag)	AMG CO-ORDS		FROM	TO	INTERVAL	VALUES IN PPM
				N	E				
WWRC01	72	60°	170°	7384504	208550	10	35	25	0.13 Pd, 0.08 Pt
WWRC05	90	60°	220°	7384332	208909	45	60	15	0.14 Pd
WWRC06	54	60°	220°	7384284	208923	25	55	30	1450 Cu
WWRC07	54	60°	220°	7384329	208957	10	30	20	1200 Cu, 0.14 Pd
WWRC08	78	60°	220°	7384378	209008	10 40	15 75	5 35	4210 Cu, 0.316 Pd, 0.160 Au 2200 Cu, 0.204 Pd, 0.100 Au
WWRC10	90	60°	130°	7384357	208948	65	80	15	1320 Cu, 0.140 Pd
WWRC11	84	60°	220°	7384425	208899	60	66	6	3200 Cu, 0.125 Pd
WWRC12	30	60°	220°	7384415	209139	10	25	15	0.140 Pd
WWRC18	48	60°	220°	7384458	209000	15	35	20	0.122 Pd

6.3.2 Magda One Prospect

The Magda One prospect is located approx. 2km WNW of Magdalene.

This area stood out because of the co-occurrence of widespread anomalous rock chip geochemical values (up to 2% Cu and 5 g/t Au, Pd and Pt) with electromagnetic and magnetic anomalies in an area that was completely untested by drilling. Geological mapping and interpretation also suggest that Magda One lies within the postulated feeder "pipe" to the layered intrusive complex, thus making it more amenable to high grade sulphide accumulations.

As part of the 2003 RC percussion drill program 3 RC holes were drilled at the Magda One prospect to test other HoistEM anomalies within the basal portion of the Bucknalla layered intrusive complex. These anomalies also had co-incident elevated soil geochemical values in Cu and PGE's and outcropping malachite stained pyroxenite.

Two of the five holes in the second drilling programme intersected significant sulphides that would explain the EM anomalies (ie. stockwork zones of pyrite, pyrrhotite and chalcopyrite and some narrow semi massive sulphide bands). The two best intersections at Magda One are shown in Table 4 below. The best assay was 4m at 0.22% Cu in hole 21.

**Table 4
Magda One Prospect, Best Drilling Results (2003)**

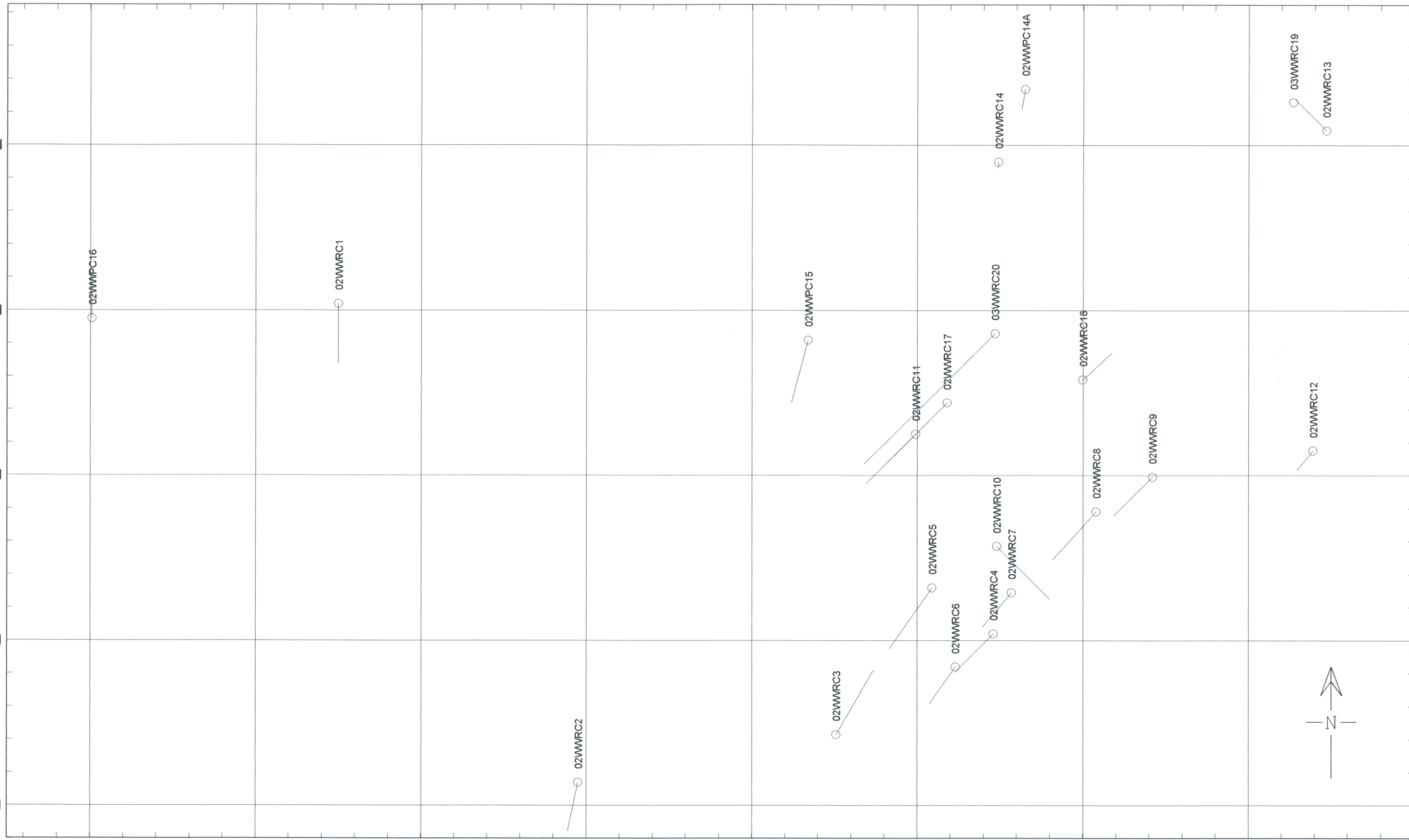
Hole No.	Depth (metres)	AMG Co-Ords		Az (AMG)	Incln	Results (ppm)		
		N	E			From	To	Interval/Grade
03WWRC21	148	7384800	206933	265°	60°	77	79	2m @ 1780 Cu and 0.083 PGE
03WWRC23	121	7385118	207400	-	90°	10 79 85	20 83 89	10m @ 0.101 PGE 4m @ 1284 Cu 4m @ 2227 Cu

7.0 CONCLUSIONS AND RECOMMENDATIONS

Although only sub economic copper-PGE mineralisation has been delineated to date, numerous geochemical anomalies and other airborne EM anomalies, including targets under cover remain to be tested in the Westwood area. Drilling indicates that HoistEM is an effective and highly sensitive tool for the detection of sulphides in this terrain although data processing may need to be refined to give more accurate depth estimates in some instances. More accurate definition of the airborne EM anomalies using ground EM may be warranted prior to drilling.

208400E 208500E 208600E 208700E 208800E 208900E 209000E 209100E 209200E

7384600N
7384500N
7384400N
7384300N
7384200N



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EPM 13305 Westwood
Magdalene Prospect
Drill Hole Locations

GEO:	SCALE 1:2500	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 8 (a)

206750 mE

207000 mE

207250 mE

207500 mE

207750 mE

208000 mE
73852500 mN

+

+

+

+

+

7385000 mN

03WWRC21



+

+

+

+

+

7384750 mN

03WWRC23A

03WWRC23



+

03WWRC22



+

+



Glengarry Resources Limited

Date: 9/7/2003

Author:

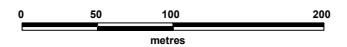
Office: West Perth

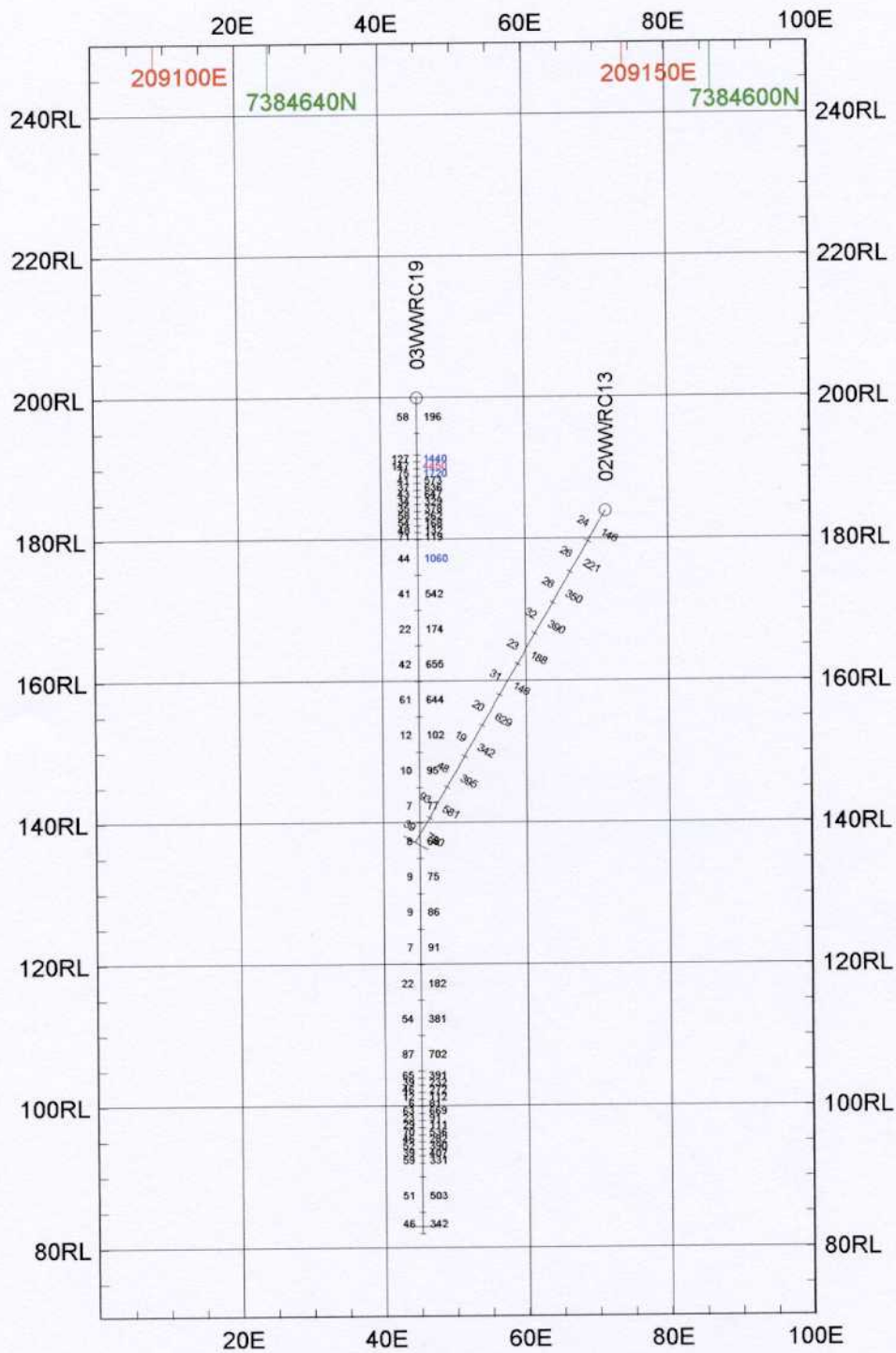
Drawing:

Scale: 1:5000

Projection: AMG Zone 56 (AGD 66)

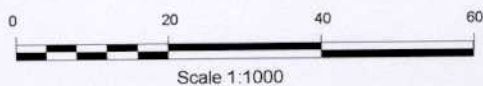
**Westwood Project
Magda One Prospect
Drill Hole Location Plan**





DRILL HOLE LEGEND

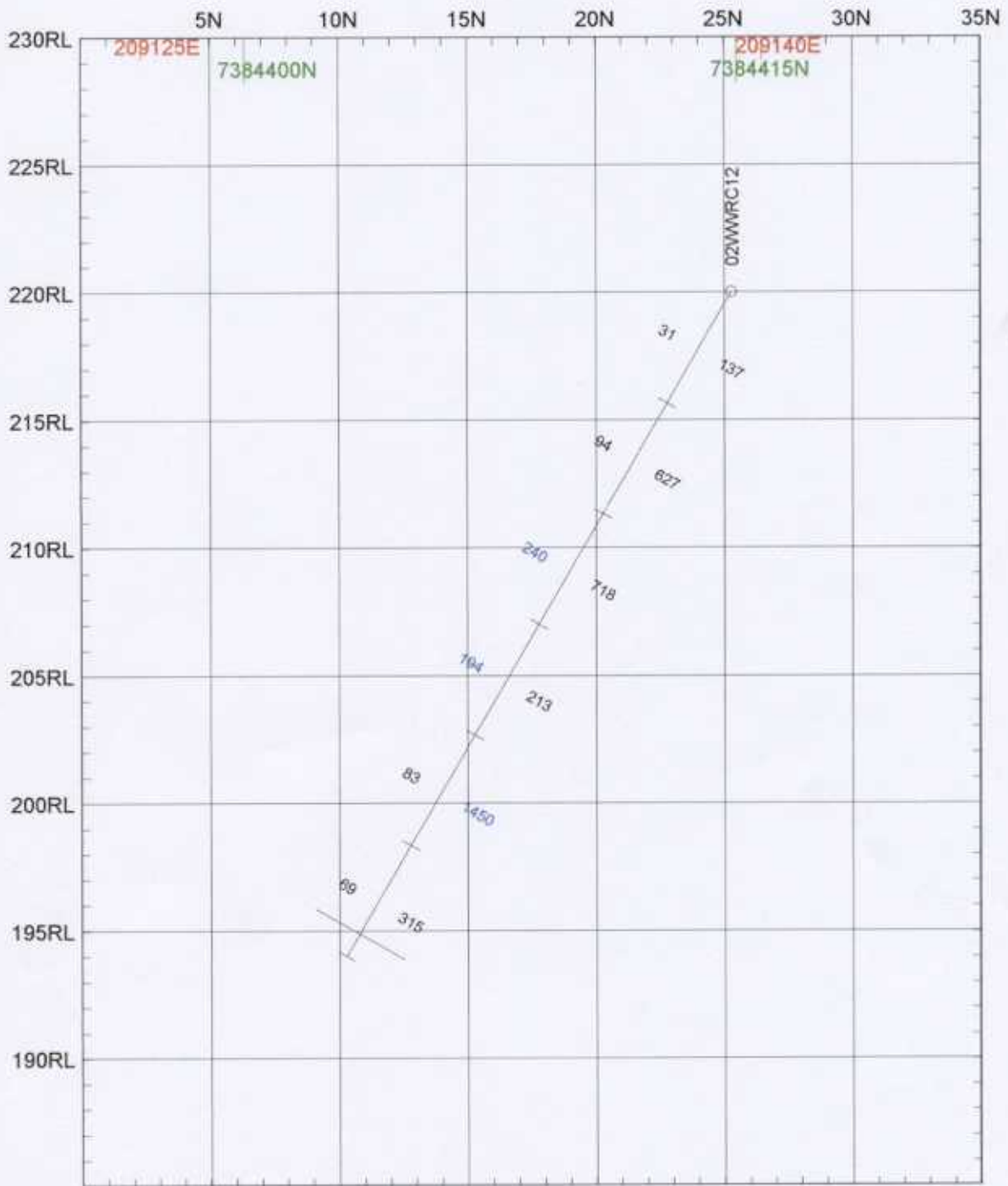
LHS Posting : PGE (ppb)
RHS Posting : Cu (ppm)



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EPM 13305 Westwood
NW-SE Cross Section
through RC Holes 13 & 19

GEO:	SCALE 1:1000	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 9 (e)



DRILL HOLE LEGEND

LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)



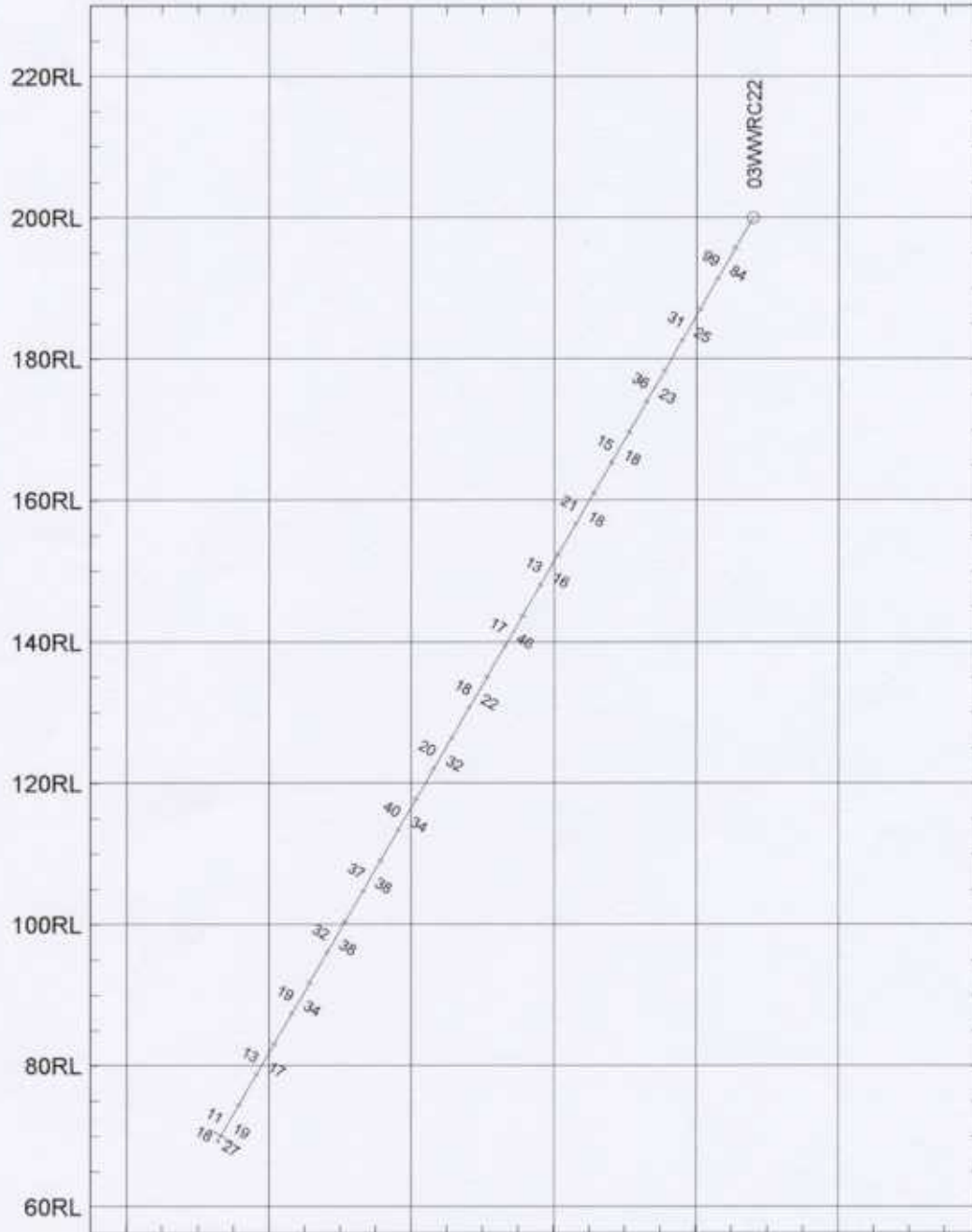
Scale 1:250

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EPM 13305 Westwood
 NE-SW Cross Section
 through RC Hole 12

GEO:	SCALE 1:250	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 9 (f)

7384380N 7384400N 7384420N 7384440N 7384460N 7384480N 7384500N



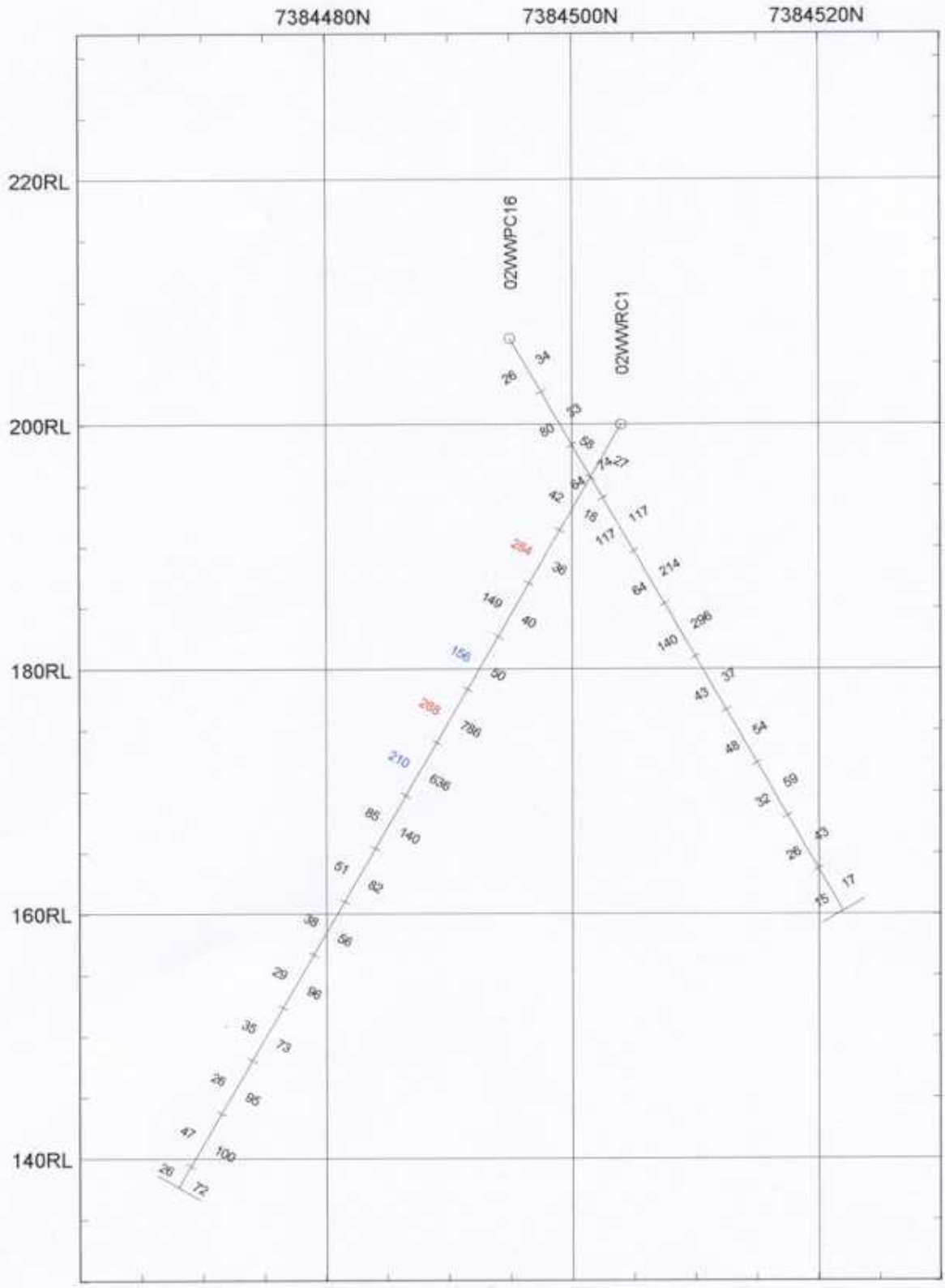
DRILL HOLE LEGEND
 LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)



GLENGARRY RESOURCES LTD

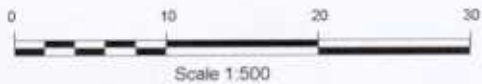
EPM 13305 Westwood
 N-S Cross Section
 through RC Hole 2

GEO:	SCALE 1:1000	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 9 (9)



DRILL HOLE LEGEND

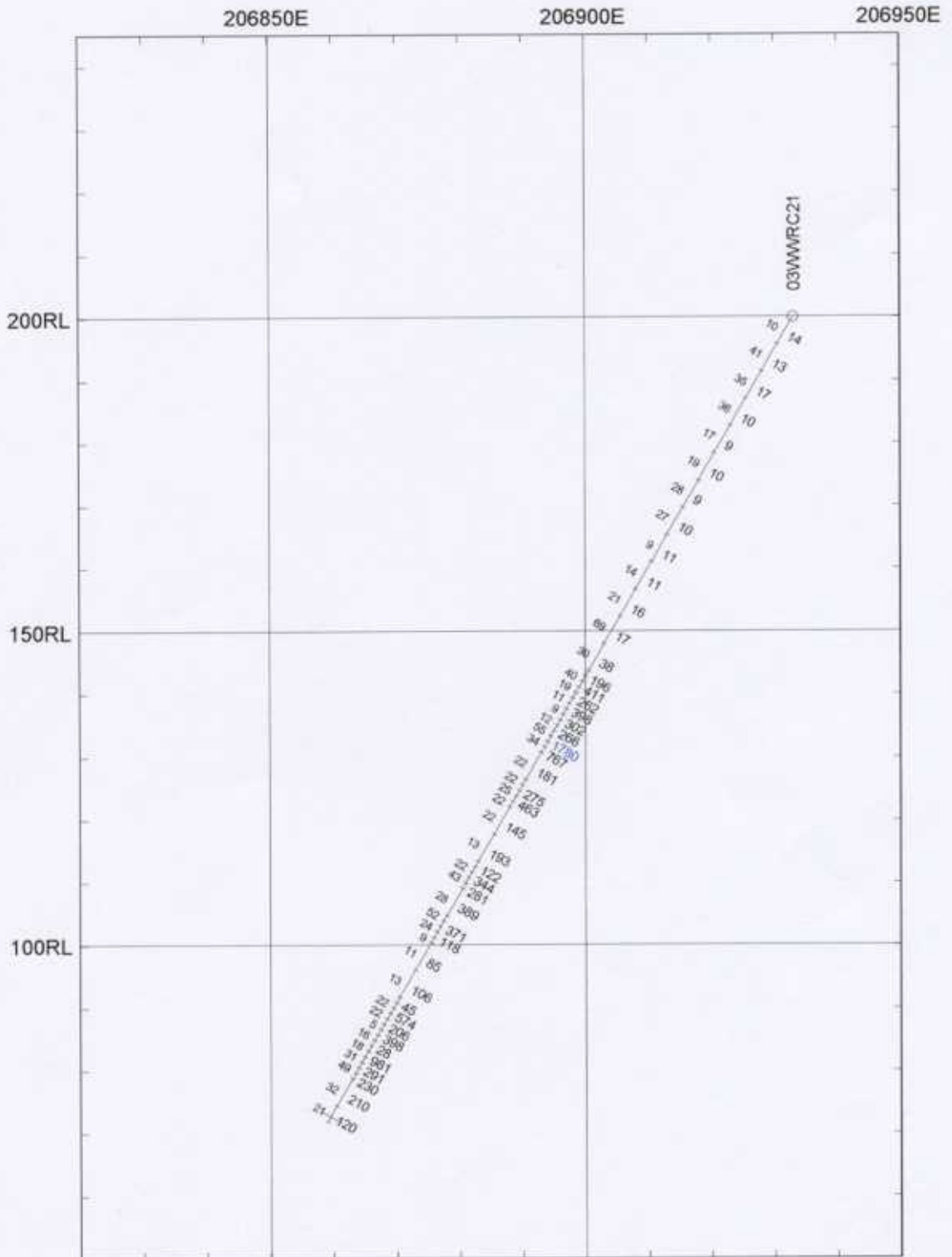
LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)



GLENGARRY RESOURCES LTD

EPM 13305 Westwood
 N-S Cross Section
 through RC Hole 1 and PC Hole 16

GEO:	SCALE 1:500	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 9 (h)



DRILL HOLE LEGEND
 LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)

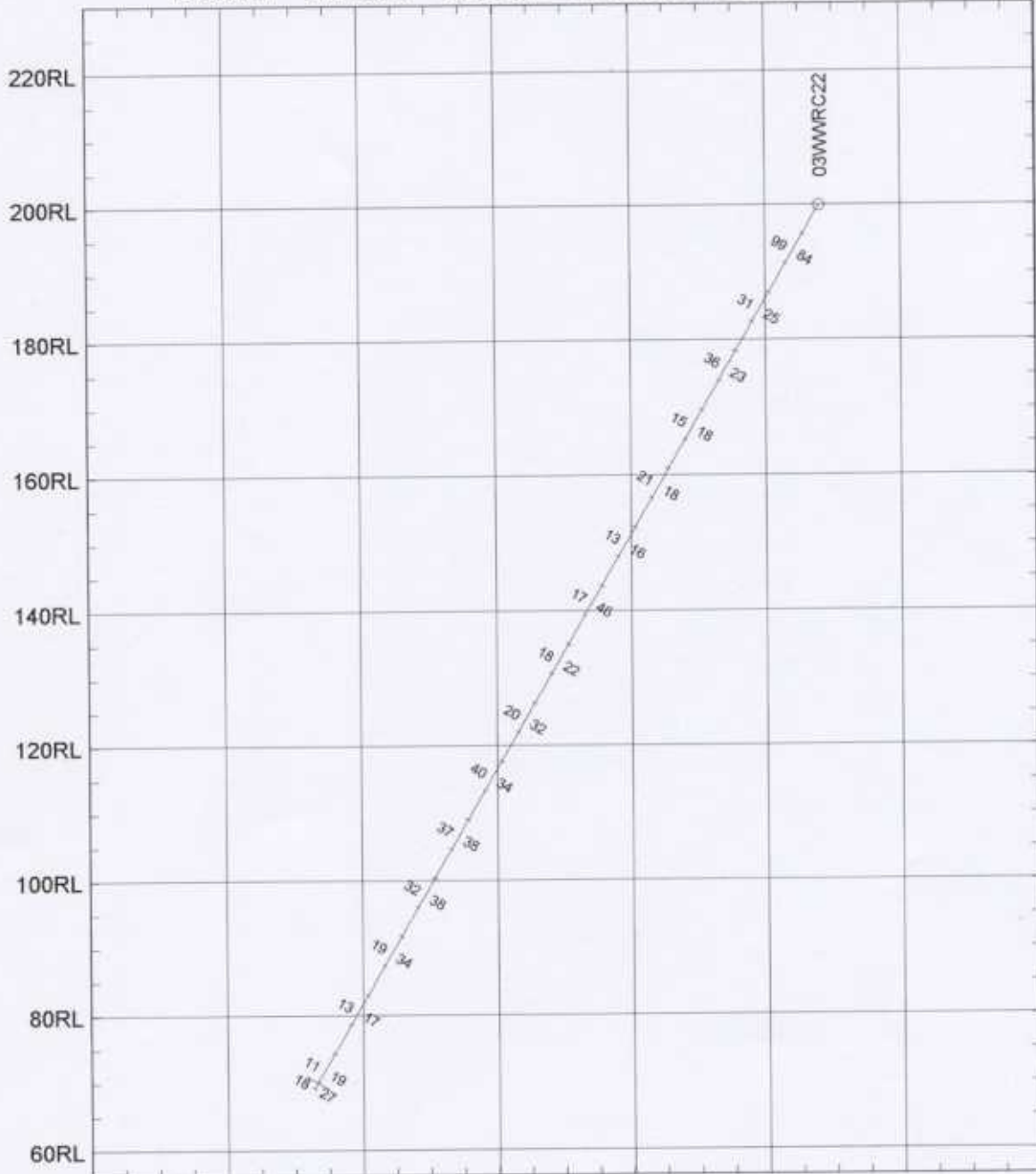


GLENGARRY RESOURCES LTD

EPM 13305 Westwood
 E-W Cross Section
 through RC Hole 21

GEO:	SCALE 1:1000	REPORT:
DRAWN:	DATE: 10-07-2003	PLAN: Fig. 9 (1)

7384380N 7384400N 7384420N 7384440N 7384460N 7384480N 7384500N



DRILL HOLE LEGEND

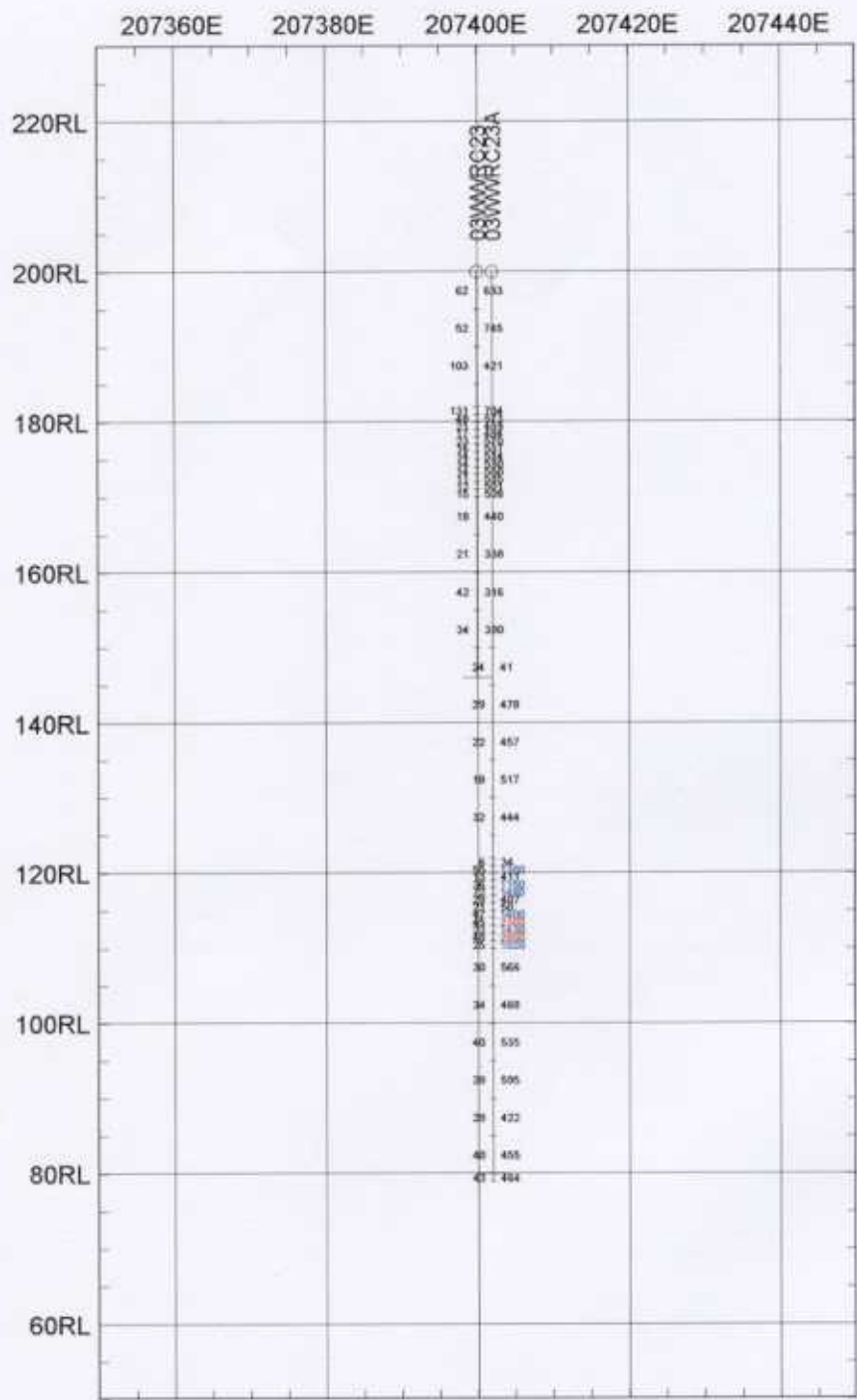
LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)



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EPM 13305 Westwood
 N-S Cross Section
 through RC Hole 22

GEO:	SCALE 1:1000	REPORT:
DRAWN:	DATE: 11-07-2003	PLAN: Fig. 9 (j)



DRILL HOLE LEGEND

LHS Posting : PGE (ppb)

RHS Posting : Cu (ppm)



GLENGARRY RESOURCES LTD

EPM 13305 Westwood
Cross Section
through RC Holes 23 & 23A

GEO:	SCALE 1:1000	REPORT:
DRAWN:	DATE: 11-07-2003	PLAN: Fig. 9 (k)

8.0 REFERENCES

Alston T & Rea P., 2002. EPM 13305 Westwood Annual Report for period ending 30th April 2002. Glengarry Resources Ltd.

Clifford M. J., 1987. Geology of the Westwood Layered Gabbro and Associated Copper, Palladium and Platinum Mineralisation. Honours Thesis JCU.

Rea P., 2002. Westwood Project: Research and Target Evaluation for Glengarry Resources Ltd. Internal Company Report.

APPENDIX 1
Airborne Geophysical Survey
Mt Morgan Area, WA

March 2002
Survey Operations and Logistics Report
For
Glengarry Resources Ltd

Survey Flown by:



GPX Airborne Pty Ltd.

GPX Airborne

HoistEM (MkII) Survey

Client: Glengarry Resources Ltd

Job Number: 2107

Survey Area: Mt Morgan Area, WA

Survey Information

Date: Sat 23rd March – Mon 25th March

Line km surveyed: 309

System Crew:

2 Pilots

1 Geophysicist / Data Processor

1 Ground crew (the second pilot acted as the extra person in launching/landing of the system)

Survey Comments

1. GPS base was established at a fence near launch – 210m entered into the base.
2. Sat 23rd March (first half of Fred Creek area) was a very windy day, with thunderheads developing.

HoistEM System Specifications

TRANSMITTER

WAVEFORM:	Square Wave
PULSE ON TIME:	5 MilliSecs
PULSE OFF TIME:	15 MilliSecs
PULSE CURRENT:	320 Amps
SWITCH ON RAMP:	1 MilliSec
SWITCH OFF RAMP:	40 MicroSecs
TX LOOP AREA:	375 Square Metres
TX NIA:	120,000
TX FREQUENCY:	25 Hz

RECEIVER

A-D CIRCUITRY:	20 bit
SAMPLING:	128 Linear channels
SAMPLE TIME:	0 - 15 MilliSecs after switchoff

RECEIVER COIL

EFFECTIVE NA:	10,000 Square Metres
BANDWIDTH:	45,000 Hz

GEOMETRY

Transmitter loop is towed 30 m below helicopter- Receiver coil is located at centre of Tx loop.

Transmitter / Receiver at nominal 30 m terrain clearance.

Helicopter survey speed is between 35 and 45 knots.

Along line sample interval is between 8 and 10 metres

SURVEY SPECIFICATIONS AND PARAMETERS

Survey Boundaries

Fred Creek Area

Coordinates in AGD84 Zone 56 define an area to be covered at 200m line spacing flown N-S

AMG Easting	AMG Northing
204000	7394000
208000	7394000
208000	7390000
209300	7390000
209300	7382000
205400	7382000
205400	7386000
204000	7386000

Westwood Area

Coordinates in AGD84 Zone 56 define an area to be covered at 200m line spacing flown E-W

AMG Easting	AMG Northing
206300	7386000
209300	7386000
209300	7383000
206300	7383000

DATA PROCESSING SUMMARY

The following processes were carried out at the field processing office:

- Spline removal of birdswing
- Negative decays reversed
- Outlier rejection filter
- Simple average over ½ second
- Preliminary gridding and data verification

Gridding

Resistivity values (in ohm metres) and depth values were calculated from the raw EM channels, after initial processing, using Perry Eaton's TEMINP algorithm. Resistivity depth slices were then produced using Geosoft.

The TEMINP algorithm works by first converting the recorded voltages to a step response and then fitting the calculated values with the response to a smoke ring image for each channel. By calculating the velocity of the smoke ring it is possible to derive the resistivity of the equivalent half-space.

Calculated Z values for Conductivity Depth Images (CDIs) are based on an RL. Values are first calculated at a depth below surface, and then the DEM is used to convert the depth below surface to a height above the WGS84 spheroid.

Final profile and CDI presentation was completed using Geosoft by G Integrated Solutions Pty Ltd.

TEMINP References:

Eaton, P. 1998: Application of an improved technique for interpreting transient electromagnetic data. *Exploration Geophysics* V29, p175-183.

Eaton, P and Hohmann, G. 1989: A rapid inversion technique for transient electromagnetic soundings. *Physics of the Earth and Planetary Interiors*. V53, p384-404.

Digital Elevation Model

The laser altimeter data, plus a constant of 32, was subtracted from the GPS height to give a digital elevation model which represents height above the WGS84 spheroid.

Located Data Format

Line Number

Easting AGD84 Zone 56

Northing AGD84 Zone 56

GPS altitude Metres

Laser Altimeter Tx/Rx altitude in metres

	Radar Altimeter	Helicopter altitude in feet
Digital Elevation Model	Metres above WGS84 spheroid	

Current (I) Amperes

Raw EM channels 1-27 microvolts

No parallax corrections have been applied to the data.

<u>CONTENTS OF FINAL CD</u>	
\Final LDT	Located Data file (Fred_Creek_Final_LDT.xyz, Westwood_Final_LDT.xyz, format above)
\MAP files	Linear & Pseudolog EM profiles, Conductivity Depth Images and Digital Elevation for each line, in Geosoft .MAP format
\PDFs	Resistivity Depth Slices Raw EM Response, channels 4 & 23 (Fred Creek), ch 1, 5, 13 & 18 (Westwood) scale 1:10,000 PDF of Digital Elevation Model, scale 1:10,000
\Raw Data	Raw ASCII 121 channel database

APPENDIX 2

EPM 13305 ROCK SAMPLE ASSAY RESULTS

Sample	AMG N	AMG E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Fe	S	Mn	Pt	Pd	Au	Description
	AGD84	AGD84	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
			ME-ICP41		ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41		PGM-MS24	PGM-MS24	PGM-MS24	
100509	7385204	207109	1420	2	24	1	2								0.0246	0.194	0.099	Med grained mesocratic gabbro; fairly Olivine and plagioclase rich with tr malachite strike 310
100510	7385078	207284	3040	2	20	1.3	-2								0.0464	0.237	0.273	Coarse hbe gabbro with 5% malachite; sheared?
100511	7384901	207415	62	-2	10	-0	-2								0.0055	0.032	0.016	Crs hbe gabbro "pyroxenite" w 5% yw goethite. At Pd anomaly site
100512	7384393	206997	896	-2	22	-0	3								0.008	0.011	0.013	Cherty o/c of sheared sst? With strong si-py alteration, much of which is oxidised. 340 strike
100513	7384800	206920	39	-2	27	-0	-2								0.0076	0.008	0.007	Crs hbe gabbro (sheared) on EW (095) structure; "pyroxenite" rubble zone
100514	7384400	107440	4640	3	17	1.7	-2								0.0154	0.037	0.04	Float of fine banded gabbro with minor malachite.
100515	7384786	206887	1650	5	29	1.5	-2	77	16	2	2	2.83	0.02	315	0.1246	0.561	0.411	Oxidised pyroxenite with minor chalcopyrite blebs and <5% hornblende.
100516	7384764	206880	2260	6	21	2.2	-2	215	34	2	4	4.79	0.02	527	0.3484	0.556	0.482	Pyroxenite on hill with 1/2% malachite and azurite. Has 5% hornblende.. On old costean.
100517	7384769	206895	2900	5	12	2.2	-2	128	12	1	3	1.98	0.01	223	0.0484	0.102	0.078	Hornblende (30%) pyroxenite with upto 10% malachite. Outcrop is massive mg (2-3mm) with fracturing, but has no strike extent.
100518	7384755	206906	3270	5	19	1.8	-2	123	18	1	2	2.3	-0.01	338	0.0837	0.272	0.231	Hornblende pyroxene gabbro with 15% malachite. Fine to medium grained and finely banded.
100519	7384255	208911	2730	6	19	2.5	3	77	36	3	4	7.85	0.07	451	0.0639	0.483	0.221	Fresh massive dark grey mesogabbro with 1/2% chalcopyrite and 5% red oxidised olivine. Exterior is boring looking gabbro.
100520	7384281	208871	4890	9	30	4.7	4	98	35	3	4	4.97	-0.01	586	0.1326	1.71	0.429	Red-orange and green stained weathered mesogabbro in 030 shear zone.
100521	7385131	206787	765	6	30	-0	-2	53	43	3	2	19.6	-0.01	939	0.034	0.058	0.018	Rock from near 200ppb Pd soil anomaly on south top of MAG1 hill. Has coarse (3mm) pyroxene, 15% olivine, 25% magnetite, trace malachite, and 10% red oxide staining.

APPENDIX 2

EPM 13305 ROCK SAMPLE ASSAY RESULTS

Sample	AMG N	AMG E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Fe	S	Mn	Pt	Pd	Au	Description
	AGD84	AGD84	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
			ME-ICP41		ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41		PGM-MS24	PGM-MS24	PGM-MS24	
100522	7385147	206774	2830	8	25	2.5	2	50	29	3	5	7.9	0.01	426	0.0119	0.092	0.055	Massive fine grained gabbro with 15% plagioclase, 70% pyroxene, 5% magnetite, and 2% malachite.
100523	7385139	206834	6350	5	13	4.8	3	132	38	-1	4	3.26	0.04	476	0.0117	0.042	0.092	Coarse (3-4mm) banded leucogabbro with 30% pyroxene and 15% malachite and azurite.
100524	7385126	206836	7550	6	20	2.5	3	107	40	1	5	4.47	-0.01	507	0.0075	0.046	0.045	Limestone weathered leucogabbro with 10% malachite and 10% azurite
100525	7385075	206835	6640	-2	13	6.7	5	60	22	-1	4	2.43	0.05	365	0.0165	0.032	0.343	Leucogabbro with 20% pyroxene and 10% azurite + malachite. S side of hill.
100526	7385050	206825	6370	5	22	2.4	4	99	52	1	4	4.39	0.01	665	0.0087	0.017	0.027	Leucogabbro with fine banding and 5% malachite and 2% azurite. Has limestone weathering.
100527	7385017	206848	2690	6	13	1.5	3	47	32	-1	4	3.03	0.02	387	0.0049	0.008	0.007	Coarse layered leucogabbro with 5% malachite, 15% Olivine, 15% pyroxene.
100528	7385381	207026	13400	8	14	7.5	3	143	30	-1	3	3.15	0.03	346	0.0303	0.045	0.054	Coarse leucogabbro with 5-10% magnetite, and 10% azurite, 5% malachite. Appears to be striking 095 mag.
100529	7385161	206923																Subcrop / float of red brown breccia with porous siliceous matrix and boxwork rounded clasts after sulphide. Quite a bit of yellow goethite 1cm scree on the ground.

APPENDIX 3

PETROGRAPHIC NOTES FOR 2 SAMPLES FROM THE WESTWOOD Cu-Pd PROSPECT

*Prepared for Peter Rea,
Glengarry Resources*

Hole 02WWRC13 32m depth. Troctolite with evidence of Fe-rich to Cu-rich magmatic sulphide liquid.

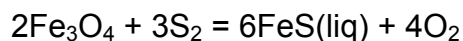
The silicates are abundant <1-mm anhedral to weakly tabular plagioclase (An₆₈), prominent <0.6-mm anhedral olivine (fresh in some chips and mostly serpentinised in others), <1-mm minor pale olive magnesiohornblende rimming olivine, and very rare anhedral orthopyroxene and tabular biotite.

Anhedral <0.6-mm magnetite varies from 1% to 10% of the chips. <30-micron exsolution/oxidation lamellae of ilmenite, and very minor exsolved fine blades and <0.3-mm grain-boundary blebs of green spinel indicate that this was high-T Ti-Al-(Mg?) bearing igneous magnetite.

Anhedral <0.6-mm sulphide grains are dominated by bleb-shaped pyrrhotite (3-7%) quite heavily altered to finely intergrown pyrite and minor magnetite, and <0.3-mm chalcopyrite showing minor submicron exsolution of bornite. Somewhat bleb-shaped composite grains of pyrrhotite and chalcopyrite are common.

The anhedral texture of all phases suggests adcumulus overgrowth. This tends to occur when the interstitial crystallising silicate melt in the crystal mush becomes less dense with fractionation than the main overlying melt body. The fractionating melt is continuously displaced by overlying fluid and the cumulate consists of an aggregate of unzoned anhedral crystals with no evidence of crystallised interstitial fractionated melt. Euhedralism and zoning of cumulus minerals, and crystallisation of interstitial fractionated melt occur when the fractionated melt is denser than the overlying melt and cannot be displaced by it. This is most common during the classic tholeiitic Fe-enrichment trend. Adcumulus growth seems to predominate in the Bucknalla Complex. This may be because it is not strongly subalkaline (tholeiitic), or because sequestration of Fe by sulphide liquid has produced an Fe-poor, less dense interstitial melt.

An inverse relationship between pyrrhotite and magnetite content suggests that oxidising conditions produce magnetite + Cu-rich sulphide liquid, whereas reducing, higher-sulphidation conditions favour an Fe-rich sulphide liquid. The relevant equilibrium is:



Evidence for Cu-rich melt + abundant magnetite in mineralisation sampled elsewhere (England, 2001) suggests that oxidising conditions were common, but more reducing conditions prevailed in parts of this chip sample. It is possible that the reduced assemblage occurs in thin layers, and that both layer types have been sampled here. Sulphide liquid ranging from Fe-rich to Cu-rich composition can be stable near the solidus of basaltic magmas (Craig & Kullerud, 1969), and its Cu content would be expected to be controlled largely by variation in f_{O_2} - f_{S_2} .

Hole 02WWRC11 53m depth. Magnetite clinopyroxenite and gabbro with Cu-rich magmatic sulphide.

The sample consists of four chips; two mostly gabbro and two mostly clinopyroxenite. This suggests cm-scale layering.

The clinopyroxenite contains abundant 0.3-3 mm anhedral to subhedral stubby prismatic clinopyroxene. The next commonest phase is <1-mm anhedral magnetite (15%) which tends to fill interstices between clinopyroxene grains. One chip has almost no plagioclase, but <1.5-mm roughly tabular cumulus plagioclase is fairly common at one end of the other chip, suggesting sharp transitions over <2 mm in the layering. The plagioclase is more calcic than in the troctolite, probably in the range An80-90 in all chips where it occurs. A more calcic inner zone in one grain suggests there was some trapped melt which did not communicate with the overlying melt.

The following features are common to the clinopyroxenite and gabbro. Minor <0.2-mm olive brown hornblende forms irregular inclusions in clinopyroxene, probably a product of high-T subsolidus exsolution (combined with hydration) from clinopyroxene. Very minor slightly wormy <50-micron magnetite inclusions in clinopyroxene are probably also a product of subsolidus exsolution (combined with oxidation) from clinopyroxene.

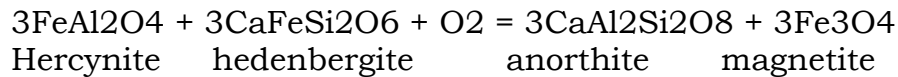
Chalcopyrite (2% in the clinopyroxenite and in one of the gabbro chips) forms <0.4-mm bleb-shaped grains along silicate and oxide grain boundaries and locally included in them. Less common pyrrhotite, mostly altered to pyrite with minor micron-sized magnetite, forms composite grains with chalcopyrite.

The gabbro chips consist of anhedral c. 1-mm clinopyroxene and plagioclase (An80-90) in about equal proportions. One chip has a similar proportion of magnetite and sulphides to the clinopyroxenite. The end of this chip consists largely of clinopyroxene. The other chip has similar but slightly sericitised plagioclase; and clinopyroxene, magnetite, and sulphides have been partly altered under subsolidus conditions to green hornblende. This would have happened at lower T than the formation of olive brown hornblende already mentioned. There is very little pyrite (after pyrrhotite), and chalcopyrite (1%) forms disseminated 10-250 micron ragged anhedral grains. Magmatic sulphide texture has been obliterated by the hydrothermal overprint producing green hornblende.

GENERAL COMMENTS

There is little doubt that the Cu is magmatic in all chips, and that it initially segregated in a sulphide liquid, but the sulphide textures have been lightly to heavily modified by subsolidus hydrothermal activity.

Hercynite activity in titanomagnetite is controlled by the equilibrium:



There was enough hercynite component in titanomagnetite for spinel to reach saturation and exsolve, probably at subsolidus temperature.

Ni is probably low. I can't see any pentlandite in these samples, which would be expected to form flames in pyrrhotite. It would be difficult to distinguish from pyrite in pyrrhotite because of the low relief generated by the diamond polish. The two are easily distinguished in a high-relief alumina polish. Ni may be in solid solution in pyrrhotite. Normally Pd is present largely in solid solution in pentlandite. Here Pd may be in chalcopyrite, pyrrhotite, or a separate Pd phase (though I can't see any).

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23 September, 2002

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE COLLAR DETAILS

Hole ID	Type	AMG East AGD84	AMG North AGD84	RL (m)	Depth (m)	Az	Incl	Date
02WWPC14A	PC	208965	7384634	183	24	190	-60	2/07/2002
02WWPC15	PC	208834	7384482	196	78	195	-60	28/07/2002
02WWPC16	PC	208401	7384495	207	54	0	-60	29/07/2002
02WWRC1	RC	208550	7384504	200	72	180	-60	9/07/2002
02WWRC10	RC	208948	7384357	212	90	135	-60	24/07/2002
02WWRC11	RC	208899	7384425	206	84	225	-60	24/07/2002
02WWRC12	RC	209139	7384415	220	30	220	-60	25/07/2002
02WWRC13	RC	209147	7384609	184	54	315	-60	26/07/2002
02WWRC14	RC	208949	7384590	183	8	185	-60	26/07/2002
02WWRC17	RC	208918	7384444	210	90	225	-60	30/07/2002
02WWRC18	RC	209000	7384458	198	48	47	-60	1/08/2002
02WWRC2	RC	208695	7384214	183	60	192	-60	10/07/1902
02WWRC3	RC	208851	7384243	187	90	30	-60	13/07/1902
02WWRC4	RC	208946	7384304	206	66	225	-60	12/07/1902
02WWRC5	RC	208909	7384332	211	90	215	-60	19/07/2002
02WWRC6	RC	208923	7384284	211	54	215	-60	20/07/2002
02WWRC7	RC	208957	7384329	209	54	220	-60	20/07/2002
02WWRC8	RC	209008	7384378	200	78	222	-60	22/07/2002
02WWRC9	RC	209042	7384399	190	66	225	-60	22/07/2002
03WWRC19	RC	209127	7384626	200	118	0	-90	1/02/2003
03WWRC20	RC	208947	7384486	200	224	225	-60	1/02/2003
03WWRC21	RC	206933	7384800	200	148	270	-60	1/02/2003
03WWRC22	RC	207414	7384468	200	151	185	-60	1/02/2003
03WWRC23	RC	207400	7385118	200	54	0	-90	1/02/2003
03WWRC23A	RC	207402	7385120	200	121	0	-90	1/02/2003

PC =percussion drilling

RC =reverse circulation drilling

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE ASSAYS

Hole ID	from	to	type	Au ppm	PGM ppb	PGM ppm	Ag ppm	As ppm	Bi ppm	Co ppm	Cu ppm	Fe%	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	S %	Zn ppm	
02WVRC14A	5	10	5 COMP	0.004	29	0.03	-0.2	-2	-2	27	34	20	3.33	435	-1	118	-2	0.018	0.0073	-0.01	26
02WVRC14A	10	15	COMP	0.003	30	0.03	-0.2	-2	-2	27	23	2.89	361	-1	87	-2	0.018	0.0062	-0.01	21	
02WVRC14A	15	20	COMP	0.004	63	0.06	-0.2	-2	2	43	36	3.83	531	-1	126	3	0.035	0.0235	-0.01	30	
02WVRC14A	20	24	COMP	0.003	52	0.05	-0.2	-2	-2	26	22	2.66	337	-1	94	2	0.035	0.014	-0.01	25	
02WVRC15	0	5	COMP	0.005	51	0.05	-0.2	-2	-2	28	19	2.92	366	-1	94	3	0.033	0.0132	-0.01	26	
02WVRC15	5	10	COMP	0.005	45	0.04	-0.2	3	2	26	68	3.19	389	-1	87	4	0.03	0.0098	-0.01	28	
02WVRC15	10	15	COMP	0.003	46	0.05	-0.2	-2	-2	21	21	2.43	291	-1	71	-2	0.026	0.0165	-0.01	19	
02WVRC15	15	20	COMP	0.004	54	0.05	-0.2	-2	-2	16	20	2.25	261	-1	62	-2	0.028	0.0217	-0.01	15	
02WVRC15	20	25	COMP	0.004	47	0.05	-0.2	-2	-2	21	24	2.39	273	-1	75	4	0.023	0.0198	-0.01	18	
02WVRC15	25	30	COMP	0.004	64	0.06	-0.2	-2	-2	23	25	2.9	399	-1	77	3	0.033	0.0265	-0.01	24	
02WVRC15	30	35	COMP	0.007	126	0.13	-0.2	-2	-2	20	29	3	369	-1	64	2	0.076	0.0433	0.01	20	
02WVRC15	35	40	COMP	0.003	109	0.11	-0.2	-2	-2	20	15	2.56	137	-1	61	2	0.068	0.0379	0.02	20	
02WVRC15	40	45	COMP	0.003	69	0.07	-0.2	-2	-2	22	20	3.41	254	-1	62	-2	0.038	0.0282	0.02	22	
02WVRC15	45	50	COMP	0.003	27	0.03	-0.2	-2	-2	21	22	3.29	268	-1	66	3	0.015	0.0086	0.02	28	
02WVRC15	50	55	COMP	0.003	38	0.04	-0.2	-2	-2	24	19	3.09	433	-1	77	-2	0.021	0.0142	0.02	21	
02WVRC15	55	60	COMP	0.003	26	0.03	-0.2	-2	-2	18	23	2.93	406	-1	56	-2	0.014	0.0087	0.02	27	
02WVRC15	60	65	COMP	0.005	44	0.04	-0.2	-2	-2	20	28	2.7	340	-1	64	-2	0.022	0.0165	0.02	19	
02WVRC15	65	70	COMP	0.005	35	0.04	-0.2	-2	-2	23	27	2.9	402	-1	72	-2	0.017	0.013	0.01	21	
02WVRC15	70	75	COMP	0.004	28	0.03	-0.2	-2	-2	23	27	2.75	356	-1	74	-2	0.015	0.0091	0.01	18	
02WVRC15	75	78	COMP	0.006	59	0.06	-0.2	-2	-2	23	24	3.03	350	-1	78	-2	0.034	0.0192	0.02	18	
02WVRC16	0	5	COMP	0.004	26	0.03	-0.2	-2	-2	18	34	2.33	328	-1	61	-2	0.017	0.0045	-0.01	22	
02WVRC16	5	10	COMP	0.003	80	0.08	-0.2	-2	-2	21	33	3.72	651	-1	100	-2	0.067	0.02	-0.01	29	
02WVRC16	10	15	COMP	0.004	64	0.06	-0.2	-2	-2	61	74	5.65	864	-1	267	-2	0.044	0.0157	-0.01	45	
02WVRC16	15	20	COMP	0.007	117	0.12	-0.2	-2	-2	37	117	4.14	576	-1	145	-2	0.078	0.0324	-0.01	29	
02WVRC16	20	25	COMP	0.014	64	0.06	-0.2	-2	-2	91	214	9.11	1500	1	520	-2	0.036	0.0142	0.01	69	
02WVRC16	25	30	COMP	0.019	140	0.14	-0.2	-2	-2	49	296	4.82	892	-1	177	-2	0.084	0.0372	-0.01	52	
02WVRC16	30	35	COMP	0.004	43	0.04	-0.2	-2	-2	66	37	5.99	990	-1	331	-2	0.026	0.013	0.02	50	
02WVRC16	35	40	COMP	0.008	48	0.05	-0.2	-2	-2	62	54	5.43	975	-1	401	-2	0.025	0.0151	0.03	54	
02WVRC16	40	45	COMP	0.004	32	0.03	-0.2	-2	-2	63	59	7.11	1410	-1	633	-2	0.017	0.0107	0.03	64	
02WVRC16	45	50	COMP	0.003	26	0.03	-0.2	-2	-2	59	43	6.76	1480	-1	662	-2	0.011	0.0118	0.06	75	
02WVRC16	50	54	COMP	0.003	15	0.01	-0.2	-2	-2	59	17	5.78	1250	-1	647	-2	0.007	0.0047	0.03	78	
02WVRC1	0	5	COMP	0.006	58	0.06	-0.2	-2	3	21	27	2.4	374	-1	81	4	0.037	0.0149	-0.01	24	
02WVRC1	5	10	COMP	0.003	42	0.04	-0.2	-2	-2	14	18	1.76	247	-1	63	4	0.025	0.0143	-0.01	16	
02WVRC1	10	15	COMP	0.004	284	0.28	-0.2	-2	-2	13	36	1.63	241	-1	59	3	0.16	0.1199	-0.01	28	
02WVRC1	15	20	COMP	0.003	149	0.15	-0.2	3	-2	17	40	2.71	429	-1	68	4	0.095	0.0514	-0.01	34	
02WVRC1	20	25	COMP	0.004	156	0.16	-0.2	-2	-2	19	50	2.51	340	-1	77	-2	0.102	0.0498	0.03	20	
02WVRC1	25	30	COMP	0.049	288	0.29	-0.2	-2	3	18	786	3.06	333	-1	77	7	0.173	0.0663	0.16	39	
02WVRC1	30	35	COMP	0.058	210	0.21	0.4	-2	-2	20	636	3.95	350	-1	74	6	0.109	0.0427	0.17	28	
02WVRC1	35	40	COMP	0.004	85	0.09	-0.2	-2	-2	22	140	4.41	389	-1	52	4	0.058	0.0232	0.09	31	
02WVRC1	40	45	COMP	0.002	51	0.05	-0.2	-2	-2	18	62	3.51	291	-1	42	3	0.034	0.0145	0.06	22	
02WVRC1	45	50	COMP	0.002	38	0.04	-0.2	-2	-2	17	56	3.44	334	-1	43	3	0.025	0.0113	0.04	25	
02WVRC1	50	55	COMP	0.003	29	0.03	-0.2	-2	-2	20	96	3.66	391	-1	46	4	0.017	0.0092	0.11	28	
02WVRC1	55	60	COMP	0.003	35	0.04	-0.2	-2	-2	17	73	3.72	299	-1	44	-2	0.022	0.0103	0.09	25	
02WVRC1	60	65	COMP	0.003	26	0.03	-0.2	-2	-2	18	95	3.76	362	-1	47	6	0.015	0.0078	0.06	23	
02WVRC1	65	70	COMP	0.003	47	0.05	-0.2	-2	-2	16	100	3.49	233	-1	38	3	0.031	0.0129	0.07	19	
02WVRC1	70	72	COMP	0.002	26	0.03	-0.2	-2	-2	19	72	4.07	400	-1	42	-2	0.017	0.0074	0.04	26	
02WVRC10	0	5	COMP	0.035	133	0.13	0.3	-2	-2	48	778	9.44	729	-1	76	2	0.08	0.018	-0.01	39	
02WVRC10	5	10	COMP	0.021	87	0.09	-0.2	-2	-2	41	402	8.64	713	-1	74	3	0.056	0.0098	-0.01	38	
02WVRC10	10	15	COMP	0.025	93	0.09	0.4	-2	-2	39	665	7.7	569	-1	68	-2	0.06	0.0075	-0.01	39	
02WVRC10	15	20	COMP	0.045	174	0.17	0.5	-2	-2	44	817	8.6	622	-1	77	4	0.112	0.0173	-0.01	33	
02WVRC10	20	25	COMP	0.059	207	0.21	0.3	-2	-2	45	903	8.54	701	-1	85	-2	0.133	0.0149	0.01	41	
02WVRC10	25	30	COMP	0.035	84	0.08	-0.2	-2	-2	25	925	4.73	532	-1	45	2	0.04	0.0091	0.03	32	
02WVRC10	30	35	COMP	0.047	142	0.14	-0.2	-2	-2	42	618	7.84	733	-1	80	3	0.082	0.0133	0.01	39	
02WVRC10	35	40	COMP	0.02	117	0.12	-0.2	-2	-2	39	368	7.68	710	-1	77	3	0.084	0.0134	0.01	39	
02WVRC10	40	45	COMP	0.025	96	0.1	-0.2	-2	-2	23	276	4.9	420	-1	46	4	0.061	0.0095	-0.01	28	
02WVRC10	45	50	COMP	0.04	128	0.13	-0.2	-2	-2	43	489	6.36	836	-1	69	4	0.078	0.0099	0.01	49	
02WVRC10	50	55	COMP	0.018	79	0.08	-0.2	-2	-2	66	536	8.66	1070	-1	99	-2	0.054	0.0069	0.06	53	
02WVRC10	55	60	COMP	0.024	138	0.14	-0.2	-2	-2	49	615	7.55	837	-1	76	3	0.103	0.0113	0.08	47	
02WVRC10	60	65	COMP	0.016	89	0.09	-0.2	-2	-2	42	395	6.2	741	-1	61	4	0.063	0.0098	0.06	45	
02WVRC10	65	70	COMP	0.003	165	0.17	0.5	-2	-2	35	1690	6.57	571	-1	65	8	0.085	0.0132	0.24	38	
02WVRC10	70	75	COMP	0.057	159	0.16	-0.2	-2	-2	30	1409	7.923	535	-1	65	-2	0.092	0.0069	0.16	40	
02WVRC10	75	80	COMP	0.077	333	0.33	-0.2	-2	-2	35	778	6.76	618	-1	67	-2	0.229	0.0267	0.09	41	
02WVRC10	80	85	COMP	0.015	104	0.1	-0.2	-2	-2	42	228	8.15	709	-1	73	-2	0.077	0.0115	0.04	38	
02WVRC10	85	90	COMP	0.017	89	0.09	-0.2	-2	5	39	181	7.7	693	-1	74	-2	0.062	0.0102	0.03	38	
02WVRC11	0	5	COMP	0.039	162	0.16	-0.2	-2	-2	16	81	4.23	231	-1	52	-2	0.103	0.0195	-0.01	28	
02WVRC11	5	10	COMP	0.013	119	0.12	-0.2	-2	-2	18	47	3.42	333	-1	53	2	0.084	0.0218	-0.01	28	
02WVRC11	10	15	COMP	0.006	57	0.06	-0.2	-2	-2	20	65	4.58	401	-1	44	2	0.046	0.0053	-0.01	31	
02WVRC11	15	20	COMP	0.005	71	0.07	-0.2	-2	-2	17	57	4.81	368	-1	36	3	0.058	0.0079	-0.01	30	
02WVRC11	20	25	COMP	0.006	80	0.08	-0.2	-2	-2	26	70	6.27	477	-1	25	3	0.063	0.0107	-0.01	36	
02WVRC11	25	30	COMP	0.003	29	0.03	-0.2	4	-2	36	196	10.68	522	1	31	-2	0.02	0.0051	0.01	44	
02WVRC11	30	35	COMP	0.004	24	0.02	-0.2	-2	-2	43	274	11.95	599	-1	35	-2	0.017	0.003			

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE ASSAYS

Hole ID	from	to	type	Au ppm	PGM ppb	PGM ppm	Ag ppm	As ppm	Bi ppm	Co ppm	Cu ppm	Fe%	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	S %	Zn ppm
02WVRC2	0	5	5 COMP	0.018	67	0.04	-0.2	2	-2	28	184	7.02	629	-1	69	4	0.039	0.0096	-0.01	32
02WVRC2	5	10	COMP	0.005	44	0.09	-0.2	5	-2	19	136	3.85	796	-1	34	4	0.035	0.0039	-0.01	38
02WVRC2	10	15	COMP	0.008	33	0.03	-0.2	-2	-2	16	174	4.78	1040	-1	37	6	0.021	0.0035	-0.01	51
02WVRC2	15	20	COMP	0.006	29	0.03	-0.2	4	-2	18	227	4.91	1220	-1	42	7	0.02	0.0031	-0.01	59
02WVRC2	20	25	COMP	0.01	28	0.03	-0.2	-2	-2	20	323	5.11	977	-1	42	7	0.016	0.0024	-0.01	68
02WVRC2	25	30	COMP	0.009	30	0.03	-0.2	-2	-2	23	494	4.9	1780	-1	57	5	0.019	0.0023	0.04	78
02WVRC2	30	35	COMP	0.004	29	0.03	-0.2	-2	-2	21	241	4.05	3100	-1	47	10	0.022	0.0028	0.04	61
02WVRC2	35	40	COMP	0.004	30	0.03	-0.2	3	4	31	181	5.17	4270	-1	97	12	0.022	0.004	0.05	87
02WVRC2	40	45	COMP	0.005	36	0.04	-0.2	4	-2	21	354	4.51	2580	-1	52	10	0.027	0.0036	0.09	52
02WVRC2	45	50	COMP	0.004	43	0.04	-0.2	3	-2	26	174	4.24	3110	-1	68	8	0.036	0.0029	0.02	52
02WVRC2	50	55	COMP	0.001	23	0.02	-0.2	-2	-2	18	22	2.66	540	-1	55	4	0.019	0.0033	-0.01	37
02WVRC2	55	60	COMP	0.001	47	0.05	-0.2	4	-2	16	22	2.47	762	-1	48	3	0.04	0.0063	0.01	34
02WVRC3	0	5	COMP	0.026	104	0.1	-0.2	-2	2	31	205	7.09	592	-1	55	8	0.072	0.006	-0.01	39
02WVRC3	5	10	COMP	0.025	193	0.19	-0.2	3	2	37	126	6.41	700	-1	87	7	0.154	0.0138	-0.01	37
02WVRC3	10	15	COMP	0.015	90	0.09	-0.2	2	-2	34	323	7.56	622	-1	65	4	0.066	0.0091	-0.01	38
02WVRC3	15	20	COMP	0.041	126	0.13	-0.2	-2	-2	35	533	8.02	700	-1	39	9	0.078	0.0069	0.03	33
02WVRC3	20	25	COMP	0.016	95	0.1	-0.2	-2	-2	32	48	7.07	746	-1	57	4	0.068	0.011	-0.01	39
02WVRC3	25	30	COMP	0.015	123	0.12	-0.2	-2	-2	35	75	6.08	709	-1	100	7	0.096	0.0124	0.01	36
02WVRC3	30	35	COMP	0.003	76	0.08	-0.2	2	-2	36	79	5.37	745	-1	108	6	0.068	0.0048	0.02	37
02WVRC3	35	40	COMP	0.002	68	0.07	-0.2	-2	-2	38	51	6.11	1010	-1	97	8	0.064	0.0017	-0.01	41
02WVRC3	40	45	COMP	0.003	25	0.02	-0.2	-2	-2	27	60	3.94	589	-1	104	4	0.017	0.0046	-0.01	30
02WVRC3	45	50	COMP	0.004	88	0.09	-0.2	-2	-2	34	76	4.38	768	-1	133	3	0.065	0.0194	0.01	33
02WVRC3	50	55	COMP	0.002	24	0.02	-0.2	-2	-2	44	50	5.02	885	-1	194	-2	0.015	0.0074	0.04	41
02WVRC3	55	60	COMP	0.002	19	0.02	-0.2	2	-2	40	88	4.92	694	-1	129	5	0.011	0.0055	0.03	34
02WVRC3	60	65	COMP	0.004	28	0.03	-0.2	-2	-2	26	97	5.04	558	-1	64	3	0.018	0.0055	0.02	36
02WVRC3	65	70	COMP	0.01	90	0.09	-0.2	2	-2	44	402	8.61	567	-1	86	5	0.061	0.0189	0.17	34
02WVRC3	70	75	COMP	0.009	21	0.02	-0.2	-2	-2	30	463	8.12	435	-1	51	5	0.009	0.0025	0.05	25
02WVRC3	75	80	COMP	0.02	38	0.04	-0.2	-2	-2	40	699	8.85	522	-1	80	7	0.015	0.0031	0.07	28
02WVRC3	80	85	COMP	0.026	78	0.08	0.3	-2	-2	43	1450	8.29	483	-1	95	6	0.038	0.0139	0.1	21
02WVRC3	85	90	COMP	0.069	200	0.2	-0.2	2	5	44	806	8.1	506	-1	130	6	0.113	0.0184	0.07	22
02WVRC4	0	5	COMP	0.015	77	0.08	-0.2	-2	-2	40	361	8.35	659	-1	75	4	0.051	0.0108	-0.01	46
02WVRC4	5	10	COMP	0.064	151	0.15	-0.2	-2	-2	28	516	3.4	549	-1	49	4	0.075	0.0121	-0.01	34
02WVRC4	10	15	COMP	0.027	87	0.09	-0.2	2	-2	36	515	8.04	592	-1	63	5	0.051	0.0085	-0.01	38
02WVRC4	15	20	COMP	0.039	106	0.11	-0.2	-2	-2	33	757	7.96	528	-1	64	5	0.059	0.0079	0.01	30
02WVRC4	20	25	COMP	0.055	125	0.12	-0.2	-2	-2	37	762	8.1	684	-1	56	6	0.059	0.0107	0.04	37
02WVRC4	25	30	COMP	0.021	103	0.1	-0.2	-2	-2	35	617	7.19	528	-1	52	5	0.071	0.0108	0.02	35
02WVRC4	30	35	COMP	0.041	110	0.11	-0.2	-2	-2	40	1010	7.29	740	-1	59	6	0.06	0.0089	0.06	39
02WVRC4	35	40	COMP	0.016	60	0.06	-0.2	-2	-2	37	965	5.97	717	-1	57	6	0.038	0.0056	0.07	39
02WVRC4	40	45	COMP	0.042	120	0.12	-0.2	-2	-2	28	1670	5.18	443	-1	60	10	0.069	0.0086	0.18	27
02WVRC4	45	50	COMP	0.043	125	0.13	-0.2	-2	-2	37	1130	5.13	638	-1	63	7	0.072	0.0102	0.11	34
02WVRC4	50	55	COMP	0.022	58	0.06	-0.2	3	-2	40	551	5.04	715	-1	75	6	0.032	0.0036	0.06	40
02WVRC4	55	60	COMP	0.023	87	0.09	-0.2	-2	-2	37	546	7.58	621	-1	67	3	0.056	-0.0079	0.06	34
02WVRC4	60	65	COMP	0.025	61	0.06	-0.2	-2	3	40	854	8.2	716	-1	53	5	0.032	0.0043	0.15	39
02WVRC4	65	66	1M	0.022	61	0.06	-0.2	-2	-2	39	792	8.93	599	-1	56	-2	0.033	0.0056	0.1	31
02WVRC5	0	5	COMP	0.045	169	0.17	-0.2	-2	-2	40	94	7.06	732	-1	111	8	0.116	0.0079	-0.01	37
02WVRC5	5	10	COMP	0.035	147	0.15	-0.2	3	-2	39	53	8.98	671	-1	116	6	0.108	0.0039	-0.01	36
02WVRC5	10	15	COMP	0.021	104	0.1	-0.2	-2	-2	26	90	4.61	485	-1	79	7	0.08	0.003	-0.01	26
02WVRC5	15	20	COMP	0.017	96	0.1	-0.2	3	-2	26	110	4.82	485	-1	67	6	0.074	0.0052	-0.01	31
02WVRC5	20	25	COMP	0.029	108	0.11	-0.2	-2	2	35	163	6.12	656	-1	89	8	0.073	0.0063	-0.01	40
02WVRC5	25	30	COMP	0.084	193	0.19	-0.2	3	-2	31	202	5.21	539	-1	70	4	0.099	0.01	0.01	50
02WVRC5	30	35	COMP	0.022	83	0.08	-0.2	-2	-2	40	364	5.85	717	-1	73	2	0.053	0.0075	0.05	53
02WVRC5	35	40	COMP	0.028	98	0.1	-0.2	-2	-2	44	820	4.68	595	-1	89	-2	0.061	0.0086	0.26	34
02WVRC5	40	45	COMP	0.021	86	0.09	-0.2	3	-2	32	707	3.78	520	-1	95	3	0.058	0.0073	0.13	34
02WVRC5	45	50	COMP	0.018	176	0.18	-0.2	-2	-2	27	322	3.68	702	-1	109	2	0.126	0.0323	0.08	41
02WVRC5	50	55	COMP	0.006	161	0.16	-0.2	-2	2	45	34	5.21	985	-1	194	4	0.12	0.0347	0.03	48
02WVRC5	55	60	COMP	0.009	231	0.23	-0.2	-2	-2	40	56	4.8	749	-1	184	4	0.17	0.0522	0.03	40
02WVRC5	60	65	COMP	0.004	36	0.04	-0.2	-2	-2	54	43	5.26	893	-1	244	-2	0.024	0.0078	0.03	50
02WVRC5	65	70	COMP	0.004	28	0.03	-0.2	-2	-2	69	65	6.91	1220	-1	318	2	0.016	0.0094	0.03	58
02WVRC5	70	75	COMP	0.004	73	0.07	-0.2	-2	-2	28	110	4.18	532	-1	75	-2	0.053	0.0157	0.03	28
02WVRC5	75	80	COMP	0.007	41	0.04	-0.2	-2	3	37	361	7.24	713	-1	63	3	0.027	0.0074	0.09	20
02WVRC5	80	85	COMP	0.023	20	0.02	-0.2	-2	-2	57	757	9.04	428	-1	53	2	0.005	0.0019	0.27	44
02WVRC5	85	90	COMP	0.009	35	0.03	-0.2	-2	-2	23	274	5.9	395	-1	40	-2	0.02	0.0059	0.05	44
02WVRC6	0	5	COMP	0.025	98	0.1	-0.2	-2	-2	24	505	5.84	765	-1	42	4	0.067	0.0058	-0.01	39
02WVRC6	5	10	COMP	0.025	104	0.1	-0.2	-2	-2	35	331	7.82	633	-1	54	-2	0.068	0.011	0.01	32
02WVRC6	10	15	COMP	0.023	66	0.07	-0.2	-2	-2	38	543	8.17	645	-1	60	-2	0.037	0.0055	-0.01	37
02WVRC6	15	20	COMP	0.027	74	0.07	-0.2	-2	-2	37	576	7.73	629	-1	67	-2	0.04	0.0067	0.02	36
02WVRC6	20	25	COMP	0.052	148	0.15	0.3	-2	-2	35	1370	7.02	558	-1	61	-2	0.083	0.0133	0.01	38
02WVRC6	25	30	COMP	0.037	111	0.11	0.3	-2	-2	32	1220	6.78	753	-1	48	-2	0.064	0.0103	0.04	45
02WVRC6	30	35	COMP	0.074	251	0.25	0.7	-2	-2	50	2580	9.3	631	-1	71	3	0.154	0.0226	0.18	36
02WVRC6	35	40	COMP	0.017	41	0.04	-0.2	-2	3	37	361	7.78	599	-1	59	2	0.067	0.0112	0.15	32
02WVRC6	40	45	COMP	0.028	70	0.07	-0.2	-2	-2	39	1100	6.44	643	-1	62	-2	0.035	0.007	0.11	33
02WVRC6																				

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE ASSAYS

Hole ID	from	to	type	Au ppm	PGM ppb	PGM ppm	Ag ppm	As ppm	Bi ppm	Co ppm	Cu ppm	Fe%	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	S %	Zn ppm		
03WVRC19	25	30	COMP	0.015	41	0.04	-0.2	-2	-2	2	30	942	6.03	557	2	77	2	0.021	0.0047	0.12	42	
03WVRC19	30	35	COMP	0.008	22	0.02	-0.2	-2	-2	21	174	5.95	429	2	37	-2	0.012	0.0023	0.05	38		
03WVRC19	35	40	COMP	0.017	42	0.04	-0.2	-2	-2	41	655	6.95	620	2	70	8	0.02	0.005	0.26	40		
03WVRC19	40	45	COMP	0.029	61	0.06	-0.2	-2	-2	28	644	6.25	541	2	58	5	0.027	0.0052	0.17	45		
03WVRC19	45	50	COMP	0.004	12	0.01	-0.2	-2	-2	17	102	5.12	439	2	29	-2	0.006	0.0016	0.05	40		
03WVRC19	50	55	COMP	0.003	10	0.01	-0.2	-2	-2	19	95	5.12	487	2	42	-2	0.005	0.0015	0.04	44		
03WVRC19	55	60	COMP	0.002	7	0.01	-0.2	-2	-2	17	77	4.48	395	1	36	-2	0.004	0.0011	0.04	31		
03WVRC19	60	65	COMP	0.002	8	0.01	-0.2	-2	-2	23	68	4.72	534	2	57	-2	0.003	0.0029	0.03	33		
03WVRC19	65	70	COMP	0.002	9	0.01	-0.2	-2	-2	25	75	5.62	577	1	57	-2	0.006	0.0012	0.03	36		
03WVRC19	70	75	COMP	0.003	9	0.01	-0.2	-2	-2	22	86	6.07	504	1	45	3	0.005	0.0009	0.03	37		
03WVRC19	75	80	COMP	0.002	7	0.01	-0.2	-2	-2	35	91	6.3	559	1	46	2	0.004	0.0013	0.03	37		
03WVRC19	80	85	COMP	0.006	22	0.02	-0.2	-2	-2	11	5	33	182	9.41	717	2	49	-2	0.013	0.0027	0.12	52
03WVRC19	85	90	COMP	0.016	54	0.05	-0.2	-2	-2	37	381	9.96	701	1	49	-2	0.033	0.0051	0.1	44		
03WVRC19	90	95	COMP	0.027	87	0.09	-0.2	-2	-2	35	702	9.53	667	1	61	3	0.051	0.0092	0.15	49		
03WVRC19	95	96	1M	0.018	65	0.07	3				391					-5	0.041	0.0061		37		
03WVRC19	96	97	1M	0.009	39	0.04	3				232					-5	0.026	0.0038		48		
03WVRC19	97	98	1M	0.009	46	0.05	3				272					-5	0.032	0.0046		59		
03WVRC19	98	99	1M	0.003	12	0.01	2				112					-5	0.007	0.002		43		
03WVRC19	99	100	1M	0.002	6	0.01	2				81					-5	0.003	0.0011		44		
03WVRC19	100	101	1M	0.025	63	0.06	3				669					-5	0.03	0.0082		39		
03WVRC19	101	102	1M	0.004	23	0.02	2				91					28	0.015	0.0037		42		
03WVRC19	102	103	1M	0.004	29	0.03	3				111					-5	0.021	0.0044		39		
03WVRC19	103	104	1M	0.026	70	0.07	3				536					-5	0.034	0.0099		43		
03WVRC19	104	105	1M	0.02	46	0.05	3				282					25	0.021	0.0047		42		
03WVRC19	105	106	1M	0.02	52	0.05	3				390					-5	0.026	0.0059		41		
03WVRC19	106	107	1M	0.012	39	0.04	3				407					-5	0.021	0.0056		46		
03WVRC19	107	108	1M	0.014	59	0.06	3				331					-5	0.034	0.0112		40		
03WVRC19	110	115	COMP	0.017	51	0.05	-0.2	-2	-2	39	503	8.66	676	6	67	-2	0.027	0.0067	0.15	47		
03WVRC19	115	118	COMP	0.012	46	0.05	-0.2	-2	-2	4	32	342	8.45	553	1	56	-2	0.027	0.0066		44	
03WVRC20	0	5	COMP	0.006	41	0.04	-0.2	-2	-2	21	109	2.96	304	1	62	-2	0.027	0.0083	-0.01	23		
03WVRC20	5	10	COMP	0.003	31	0.03	-0.2	-2	-2	17	96	3.8	438	-1	31	-2	0.022	0.0063	-0.01	38		
03WVRC20	10	15	COMP	0.002	16	0.02	-0.2	-2	-2	18	85	4.16	505	-1	23	-2	0.011	0.0028	-0.01	45		
03WVRC20	15	20	COMP	0.002	59	0.06	-0.2	-2	-2	29	43	3.15	359	2	83	2	0.042	0.0153	-0.01	25		
03WVRC20	20	25	COMP	0.002	36	0.04	-0.2	-2	-2	21	35	2.55	325	2	78	-2	0.025	0.0092	-0.01	22		
03WVRC20	25	30	COMP	0.001	30	0.03	-0.2	-2	-2	27	32	3.08	390	3	97	-2	0.021	0.0078	-0.01	26		
03WVRC20	30	35	COMP	0.001	18	0.02	-0.2	-2	-2	24	19	3.01	406	-1	85	-2	0.011	0.0062	-0.01	28		
03WVRC20	35	40	COMP	0.001	19	0.02	-0.2	-2	-2	24	22	3.22	436	-1	94	-2	0.012	0.0056	-0.01	30		
03WVRC20	40	45	COMP	0.001	12	0.01	-0.2	-2	-2	26	29	4.14	620	2	71	-2	0.007	0.0037	0.02	40		
03WVRC20	45	50	COMP	0.001	35	0.04	-0.2	-2	-2	33	29	3.51	450	7	128	-2	0.024	0.01	0.02	32		
03WVRC20	50	55	COMP	0.001	92	0.09	-0.2	-2	-2	43	25	3.78	449	3	120	-2	0.053	0.0377	0.02	40		
03WVRC20	55	60	COMP	0.002	93	0.09	-0.2	-2	-2	22	22	2.74	352	3	94	-2	0.053	0.0384	0.02	25		
03WVRC20	60	65	COMP	0.002	41	0.04	-0.2	-2	-2	29	33	3.63	459	3	108	-2	0.021	0.0176	0.03	35		
03WVRC20	65	70	COMP	0.001	30	0.03	-0.2	-2	-2	51	30	3.43	396	3	113	-2	0.016	0.0125	0.02	24		
03WVRC20	70	75	COMP	0.011	45	0.05	-0.2	-2	-2	27	51	3.15	354	2	94	-2	0.019	0.0152	0.02	21		
03WVRC20	75	80	COMP	0.003	79	0.08	-0.2	-2	-2	25	22	3	340	2	86	-2	0.046	0.0296	0.01	19		
03WVRC20	80	85	COMP	0.001	26	0.03	-0.2	-2	-2	26	16	2.89	357	1	89	-2	0.016	0.0092	0.01	21		
03WVRC20	85	90	COMP	0.001	42	0.04	-0.2	-2	-2	28	28	3.22	386	9	96	-2	0.027	0.0135	0.02	20		
03WVRC20	90	95	COMP	0.001	69	0.07	-0.2	-2	-2	30	20	3.01	358	7	85	-2	0.045	0.0229	0.02	19		
03WVRC20	95	100	COMP	0.001	48	0.05	-0.2	-2	-2	24	21	2.61	297	2	74	4	0.03	0.0168	0.01	17		
03WVRC20	102	103	1M	0.001	57	0.06											0.038	0.0183				
03WVRC20	103	104	1M	0.002	67	0.07											0.044	0.0206				
03WVRC20	104	105	1M	0.001	96	0.1											0.065	0.0298				
03WVRC20	105	106	1M	0.001	167	0.17											0.112	0.0538				
03WVRC20	106	107	1M	0.001	94	0.09											0.064	0.029				
03WVRC20	107	108	1M	0.002	233	0.23											0.166	0.0647				
03WVRC20	108	109	1M	0.002	135	0.14											0.091	0.042				
03WVRC20	109	110	1M	0.001	116	0.12											0.069	0.0456				
03WVRC20	110	111	1M	0.001	115	0.11											0.073	0.0405				
03WVRC20	111	112	1M	0.001	102	0.1											0.061	0.0396				
03WVRC20	112	113	1M	0.001	77	0.08											0.045	0.0313				
03WVRC20	113	114	1M	0.001	64	0.06											0.038	0.0253				
03WVRC20	114	115	1M	0.001	62	0.06											0.036	0.0247				
03WVRC20	115	116	1M	0.001	53	0.05											0.033	0.0193				
03WVRC20	116	117	1M	0.001	75	0.08											0.044	0.0304				
03WVRC20	117	118	1M	0.001	40	0.04											0.024	0.0148				
03WVRC20	120	125	COMP	0.001	22	0.02	-0.2	-2	-2	22	19	2.69	305	2	71	-2	0.013	0.0082	0.02	19		
03WVRC20	125	130	COMP	0.001	13	0.01	-0.2	-2	-2	23	15	2.77	368	2	82	3	0.007	0.005	0.02	23		
03WVRC20	130	135	COMP	-0.001	11	0.01	-0.2	-2	-2	24	25	2.98	341	3	83	-2	0.007	0.005	0.02	21		
03WVRC20	135	140	COMP	-0.001	13	0.01	-0.2	-2	-2	25	22	2.99	360	4	88	-2	0.007	0.0067	0.01	23		
03WVRC20	140	145	COMP	0.003	39	0.04	-0.2	-2	-2	28	40	3.75	394	4	100	-2	0.02	0.0168	0.02	25		
03WVRC20	145	150	COMP	0.003	16	0.02	-0.2	-2	-2	27	54	3.76	372	7	88	-2	0.006	0.0068	0.02	20		
03WVRC20	150	155	COMP	0.003	14	0.01	-0.2	-2	-2	26	54	3.59	377	6	83	-2	0.006	0.0045	0.02	22		
03WVRC20	155	160	COMP	0.002	10	0.01	-0.2	-2	-2	25	40	3.1	369	2	82	-2	0.004	0.0043	0.02	21		
03WVRC20	160	165	COMP	0.001	13	0.01	-0.2	-2	-2	26	40	3.16	365	3	84	-2	0.006	0.0057	0.02	20		
03WVRC20	165	170	COMP	0.001	10	0.01	-0.2	-2	-2	26	39	3.08	384	2	83	-2	0.004	0.0049	0.02	20		
03WVRC20	170	175	COMP	0.002	12	0.01	-0.2	-2	-2	26	45	2.93	344	3	87	-2	0.006	0.0041	0.02	21		

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE ASSAYS

Hole ID	from	to	type	Au ppm	PGM ppb	PGM ppm	Ag ppm	As ppm	Bi ppm	Co ppm	Cu ppm	Fe%	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	S %	Zn ppm
03WVRC21	100	101	1M					3	22		122					49	-5	0.012	0.0037	47
03WVRC21	101	102	1M																	
03WVRC21	102	103	1M	0.006	22	0.02		3	-2		344					75	-5	0.022	0.0061	45
03WVRC21	103	104	1M	0.015	43	0.04														
03WVRC21	104	105	1M					3	22		281					58	-5			33
03WVRC21	105	110	COMP	0.008	28	0.03	-0.2	4	-2	33	389	8.68	659	-1	35	3	0.016	0.0035	0.08	48
03WVRC21	110	111	1M	0.01	52	0.05											0.035	0.0074		
03WVRC21	111	112	1M					4	-2		371					55	-5			31
03WVRC21	112	113	1M	0.003	24	0.02											0.013	0.008		
03WVRC21	113	114	1M					3	21		118					46	-5			41
03WVRC21	114	115	1M	0.001	9	0.01											0.006	0.0023		
03WVRC21	115	120	COMP	0.001	11	0.01	-0.2	5	-2	24	85	6.84	539	-1	15	3	0.007	0.0025	0.11	31
03WVRC21	120	125	COMP	0.002	13	0.01	-0.2	3	-2	23	106	6.81	507	-1	19	5	0.008	0.0028	0.11	32
03WVRC21	125	126	1M					4	-2		45					45	-5			33
03WVRC21	126	127	1M	0.004	22	0.02											0.011	0.0066		
03WVRC21	127	128	1M					3	20		574					65	-5			34
03WVRC21	128	129	1M	0.001	22	0.02											0.016	0.0052		
03WVRC21	129	130	1M					3	-2		206					52	-5			33
03WVRC21	130	131	1M	0.001	5	0											0.002	0.0018		
03WVRC21	131	132	1M					3	22		398					43	-5			43
03WVRC21	132	133	1M	0.001	16	0.02											0.008	0.0069		
03WVRC21	133	134	1M					3	23		28					30	-5			89
03WVRC21	134	135	1M	0.005	18	0.02											0.007	0.0058		
03WVRC21	135	136	1M					3	26		981					46	-5			96
03WVRC21	136	137	1M	0.01	31	0.03											0.016	0.0052		
03WVRC21	137	138	1M					3	25		291					50	-5			60
03WVRC21	138	139	1M	0.014	49	0.05											0.03	0.0045		
03WVRC21	139	140	1M					3	26		230					50	-5			55
03WVRC21	140	145	COMP	0.013	32	0.03	-0.2	3			210	6.12	368	-1	26	4	0.015	0.0037		48
03WVRC21	145	148	COMP	0.004	21	0.02	-0.2	3	-2	22	120	7.08	424	-1	28	5	0.014	0.0034	0.14	52
03WVRC22	5	10	COMP	0.002	99	0.1		3	20		84					241	-5	0.053	0.0441	66
03WVRC22	15	20	COMP	0.001	31	0.03		3	20		25					290	-5	0.014	0.0156	73
03WVRC22	25	30	COMP	0.002	36	0.04		3	40		23					247	-5	0.017	0.0167	79
03WVRC22	35	40	COMP	-0.001	15	0.01		3	30		18					326	-5	0.004	0.0119	80
03WVRC22	45	50	COMP	0.002	21	0.02		3	50		18					396	-5	0.006	0.0127	81
03WVRC22	55	60	COMP	-0.001	13	0.01		3	60		16					360	-5	0.004	0.0102	81
03WVRC22	65	70	COMP	0.002	17	0.02		3	65		46					475	-5	0.005	0.0096	90
03WVRC22	75	80	COMP	0.001	18	0.02		3	45		22					303	-5	0.006	0.0106	70
03WVRC22	85	90	COMP	0.001	20	0.02		3	70		32					881	-5	0.008	0.0113	81
03WVRC22	95	100	COMP	0.006	40	0.04		2	50		34					206	-5	0.017	0.0166	47
03WVRC22	105	110	COMP	0.003	37	0.04		2	90		38					349	-5	0.015	0.0188	78
03WVRC22	115	120	COMP	0.006	32	0.03		2	65		38					132	-5	0.015	0.0111	44
03WVRC22	125	130	COMP	0.003	19	0.02		3	45		34					198	-5	0.009	0.0073	52
03WVRC22	135	140	COMP	0.002	13	0.01		3	50		17					128	-5	0.008	0.0027	28
03WVRC22	145	150	COMP	0.002	11	0.01		3	40		19					165	-5	0.007	0.0024	33
03WVRC22	150	151	1M	0.001	18	0.02	4	146			27					-10	-5	0.013	0.0036	35
03WVRC23	0	5	COMP	0.031	62	0.06		3	80		633					76	-5	0.026	0.0054	36
03WVRC23	5	10	COMP	0.019	52	0.05		3	35		745					61	-5	0.025	0.0081	34
03WVRC23	10	15	COMP	0.027	103	0.1		3	55		721					56	-5	0.06	0.0159	32
03WVRC23	18	19	1M	0.024	131	0.13		3	20		404					56	-5	0.094	0.013	48
03WVRC23	19	20	1M	0.012	48	0.05		3	20		573					60	-5	0.031	0.0045	43
03WVRC23	20	21	1M	0.009	21	0.02		3	10		459					73	-5	0.011	0.0014	40
03WVRC23	21	22	1M	0.006	17	0.02		3	20		484					70	-5	0.01	0.0014	37
03WVRC23	22	23	1M	0.009	23	0.02		3	20		570					64	-5	0.012	0.0022	41
03WVRC23	23	24	1M	0.007	16	0.02		3	10		537					80	-5	0.007	0.0019	42
03WVRC23	24	25	1M	0.006	14	0.01		3	30		514					74	-5	0.006	0.0017	45
03WVRC23	25	26	1M	0.005	14	0.01		3	20		530					84	-5	0.007	0.0022	46
03WVRC23	26	27	1M	0.006	14	0.01		3	20		550					72	-5	0.006	0.0022	43
03WVRC23	27	28	1M	0.006	11	0.01		2	30		535					71	-5	0.004	0.0014	48
03WVRC23	28	29	1M	0.004	12	0.01		4	20		501					67	-5	0.006	0.0017	45
03WVRC23	29	30	1M	0.006	15	0.02		3	20		508					64	-5	0.007	0.002	48
03WVRC23	30	35	COMP	0.01	18	0.02		3	50		440					55	-5	0.006	0.0015	46
03WVRC23	35	40	COMP	0.012	21	0.02		3	40		338					58	-5	0.007	0.0019	41
03WVRC23	40	45	COMP	0.033	42	0.04		3	35		316					56	-5	0.007	0.002	44
03WVRC23	45	50	COMP	0.022	34	0.03		3	30		380					63	-5	0.009	0.0025	39
03WVRC23A	50	55	COMP	0.009	24	0.02		3	60		41					32	-5	0.012	0.0031	43
03WVRC23A	55	60	COMP	0.01	29	0.03		3	50		478					62	-5	0.015	0.0041	42
03WVRC23A	60	65	COMP	0.009	22	0.02		3	35		457					69	-5	0.011	0.0024	37
03WVRC23A	65	70	COMP	0.008	18	0.02		4	60		517					80	-5	0.008	0.0018	38
03WVRC23A	70	75	COMP	0.01	32	0.03		3	55		444					62	-5	0.018	0.0041	41
03WVRC23A	78	79	1M	0.002	6	0.01		3	10		34					42	-5	0.003	0.0009	32
03WVRC23A	79	80	1M	0.032	55	0.06		3	30		1300					79	-5	0.016	0.0073	70
03WVRC23A	80	81	1M	0.006	13	0.01		3	20		411					65	-5	0.005	0.0024	46
03WVRC23A	81	82	1M	0.017	36	0.04		2	20		1150					83	-5	0.013	0.0055	94
03WVRC23A	82	83	1M	0.057	72	0.07		3	20		1480					113	-5	0.012	0.0027	86
03WVRC23A	83	84	1M	0.019	29	0.03		3	30		407					82	-5	0.008	0.0022	69
03WVRC23A	84	85	1M	0.002	21	0.02		2	20		50					49	-5	0.016	0.0029	18
03WVRC23A	85	86	1M	0.034	47	0.05		3	30		1400					132	-5	0.01	0.0032	52
03WVRC23A	86	87	1M	0.027	45	0.04		3	20		2300					118	-5	0.013	0.0049	60
03WVRC23A	87	88	1M	0.01	23	0.02		3	40		1430					98	-5	0.01	0.0025	42
03WVRC23A	88	89	1M	0.02	48	0.05		3	30		2800					130	-5	0.023	0.0052	48
03WVRC23A	89	90	1M	0.011	25	0.03		3	30		1020					89	-5	0.012	0.0024	41
03WVRC23A	90	95	COMP	0.011	30	0.03		3	30		566					59	-5	0.015	0.0037	40
03WVRC23A	95	100	COMP	0.01																

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE GEOLOGY

Hole_id	from	to	Description
02WWPC14A	0	1	1 Brown soil and decomposed gabbro.
02WWPC14A	1	4	4 Pale khaki green foliated and weathered gabbro / pyroxenite.
02WWPC14A	4	24	24 Dark green massive coarse fresh pyroxene (85%), olivine (10% - orange brown), plag (5%) gabbro. Has slight talcose feel. Ground is broken and foliated.\n17m fracture with air loss\n19m no sample, air loss.\n21-24m small samples with air loss.\nHole collapsing, abandoned with out reaching target. EM anomaly may be due to water in fracture zone, or may be from possible pyritic dolerite dyke in fault zone.
02WWPC15	0	1	1 Brown soil.
02WWPC15	1	11	11 Mid grey green coarse (1cm) mesogabbro. Partially weathered with orange olivine.\n6-8m strong oxidisation.
02WWPC15	11	39	39 Dark green partially weathered pyroxenite or coarse grained (5-10mm) mafic gabbro with 5% olivine, 5-15% plagioclase, 80% pyroxene.\n21m top of fresh rock\n22m 1% bright red cupric? oxide\n23m tr green plag\n24m 3% carb\n24-39m tr red oxide and malachite staining\n
02WWPC15	39	45	45 As above with 2-5% chalcedony veins, 15% carbonate veins and 5% chlorite alteration.\n42-44m 65% carbonate veins.\n44-45m 30% carbonate, tr Fe oxide.
02WWPC15	45	54	54 Mafic gabbro / pyroxenite as above, with 5% chlorite alteration.
02WWPC15	54	56	56 Dark grey blocky fine grained dolerite with 5% green clay alteration.
02WWPC15	56	78	78 Foliated dark green pyroxenite or mafic gabbro. Fine to medium grained with trace chlorite and carbonate alteration. Plagioclase content is 2 - 5%, but mostly 1% below 73m depth.\n63m tr malachite?\n64m 5% chalcedony, 10% green clay\n66m tr chalcedony.\n71m 5% pale green carbonate clay, 3% red cupric? oxide.\n
02WWPC16	0	1	1 Brown carbonate rich soil and decomposed gabbro.
02WWPC16	1	2	2 Calcrete and clay zoned decomposed gabbro.
02WWPC16	2	28	28 Dark green coarse pyroxene dominated mafic gabbro with 5-15% plagioclase, 10% olivine, and about 85% pyroxene. Has some zones of red rust oxide, possibly after sulphide.\n4m 2% red oxide\n5m 10% red oxide\n6m 10% red oxide\n7m 2% red oxide\n8m 1% red oxide\n9m 2% red oxide\n10m 15% red oxide\n11m 2% red oxide\n14m 5% red oxide\n16m 2% red oxide\n18m 2% red oxide\n19m 5% red oxide\n20m 15% red oxide\n21m 15% red oxide\n22m 25% red oxide\n22-24m 5% red oxide, SZ with 10% yellow green clay\n25m 10% red oxide\n26m 2% red oxide\n27m 2% red oxide\n
02WWPC16	28	34	34 Pale green grey plagioclase (30%), pyroxene (60%), olivine gabbro with trace malachite and zones of carbonate and red oxide alteration.\n29m 10% carbonate, 2% red oxide\n30m 5% carbonate, 2% red oxide\n31m tr red oxide\n32m 1% red oxide\n33m 2% red oxide\n34m tr red oxide
02WWPC16	34	54	54 Dark green pyroxene dominated gabbro. Weakly chlorite altered with minor carbonate and oxide veins. Fine to medium grained with minor hornblende.\n44m 15% carbonate
02WWRC01	0	1	1 Dark brown clayey soil
02WWRC01	1	16	16 Dark green coarse (2-4mm) hornblende gabbro with minor plagioclase, 2-5% olivine and 2% biotite of bronze colour. No sulphide present. Olivine is partially weathered brown. About 10-20% bottle green pyroxene is intergrown with black hornblende.
02WWRC01	16	17	17 Khaki green clayey fault zone. Soft drilling with 30% brown olivine and 7% plagioclase.
02WWRC01	17	18	18 Hornblende gabbro as above.
02WWRC01	18	19	19 Dark grey to black dolerite dyke or more likely a microgabbro. Appears foliated with fine banding and 15% olivine.
02WWRC01	19	26	26 Dark grey to black massive hornblende gabbro with 20-30% pyroxene (pale green).
02WWRC01	26	55	55 Dark grey hornblende gabbro with 5-10% plagioclase and disseminated primary chalcopyrite blebs. Some secondary sulphide is present on fractures.\n26-27m tr cpy\n27-28m 1% cpy\n28-29m 2% cpy, with pale green plag\n29-30m 5% cpy, with pale green plag\n30-31m tr% cpy\n31-32m 2% cpy\n32-33m 2% cpy, 2% py, and minor pink pentlandite or pyrrhotite in close association with chalcopyrite.\n33-34m tr% cpy\n34-35m tr% cpy, 1% py\n35-36m tr% cpy, 2% py\n37-38m tr% py, 2% biotite\n38-39m tr% cpy\nSmall carbonate veins with pale green chlorite ? alteration and 1-2% bronze biotite occur at 45m, 47m, 49m, 51m, 52m, 53m, and 57m.
02WWRC01	55	56	56 Black dolerite dyke. Fine grained and massive.

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Hole_id	from	to	Description
02WWRC01	56	72	As above with carbonate veins at 65-67m and 69m.
02WWRC02	0	1	Brown soil with gabbro float. Subcrop of gabbro is pyroxene dominated with 5% large hornblende clasts.
02WWRC02	1	4	Dark blue grey gabbro with orange carbonate and upto 30% soil.
02WWRC02	4	6	Calcrete with weathered gabbro chips.
02WWRC02	6	13	Medium grained (1-2mm) orange brown Fe oxide stained unit with mod-strong cleavage.
02WWRC02	13	26	Khaki green brown mesogabbro with 1% red brown oxide after pyrite (?). Not much hornblende present.
02WWRC02	26	33	Mid green mesogabbro of partially altered pyroxene, and plagioclase with moderate foliation and some fracture veins. Low hornblende content.\n25-30m trace pyrite.
02WWRC02	33	37	Strongly foliated and clayey shear zone. Clay is grey to pale green with chlorite after weathering of pyroxene. Hornblende is a minor component <5%.
02WWRC02	37	40	Pale mid green mesogabbro of pyroxene and plagioclase. Clayey altered.
02WWRC02	40	45	Pale green to grey clay after weathered medium grained gabbro.
02WWRC02	45	60	Pale to mid green mesogabbro with pyroxene < plagioclase. Most of the dark mineral in the chips is fresh pyroxene and not hornblende. Magnetite content is low.\n49m 5% Fe spots after pyrite.
02WWRC03	0	1	Brown soil and gabbro gravel.
02WWRC03	1	7	Mesogabbro of plagioclase (30%) and dark almost black pyroxene. Medium to coarse grained with 5-7mm plagioclase laths.
02WWRC03	7	14	Dark grey hornblende gabbro with red oxide after olivine. Quite strongly magnetic. Fracture zone at 14m. Rods bogged by dry chips collar. Used water to clear hole.
02WWRC03	14	15	Dark grey mesogabbro with dark partially weathered pyroxene, 15% plag, and 5% olivine.
02WWRC03	15	16	Dark grey very fine grained microgabbro or dolerite dyke. Very hard and has very unusual low magnetite content. May be same as 030 strike outcrop 30m east.
02WWRC03	16	22	Dark grey mesogabbro with dark pyroxene (65%), plagioclase (25%), and olivine (5%). Medium grained (2-3mm). Strongly magnetic with blebs of magnetite. Olivine is yellow and partially weathered.\n20-21m 7% chlorite and trace pyrite.
02WWRC03	22	23	Dark massive microgabbro with small plagioclase laths. No olivine visible.
02WWRC03	23	48	Mesogabbro as above with minor calcite veins and shear zones.\n27-28m small shear with 2% red Fe ox.\n33-34m minor bx with 5% calcite veins\n34-35m 5% chlorite alteration\n35-37m minor shear veins\n39-40m 5% red Fe ox.
02WWRC03	48	50	Shear zone with pale bleached gabbro containing 10% chlorite.
02WWRC03	50	66	Dark grey pyroxene dominated mafic microgabbro with minor carbonate and chlorite veins. Moderately magnetic.\n58-59m 1% bronze biotite (2mm).\n62-63m 5% red Fe oxide with 1% carb.\n63-64m 2% red Fe oxide with 1% carb.
02WWRC03	66	196	Dark grey medium grained gabbro of 75% pyroxene, 20% plagioclase, magnetite, and minor olivine.\n66-67m 10% chlorite, 5% carbonate\n73-74m tr py\n74-75m tr py and carb\n75-76m tr py and 2% chlorite\n76-77m tr carb\n77-78m tr py\n80-84m tr py.
02WWRC04	0	1	Red brown soil with gabbro gravel and orange clay.
02WWRC04	1	7	Dark grey 'rusted' medium grained pyroxene (70%), plagioclase (25%), olivine (5%) gabbro with bands of >5mm plagioclase.
02WWRC04	7	10	Fresh fine grained medium grey gabbro.\n8-10m 10% magnetite.
02WWRC04	10	13	Oxidised medium grained mesogabbro with 25% plag, 5% Olivine, 65% pyroxene.
02WWRC04	13	23	Mostly fresh medium grained (3mm) mesogabbro with yellow partially weathered olivine and bands of coarse plagioclase (7mm).
02WWRC04	23	25	Khaki green foliated chlorite schist and clay; and dolerite dyke.
02WWRC04	25	35.5	Dark grey medium grained (2-3mm) mesogabbro with red oxidised olivine. Otherwise fresh. Pyroxene 65%, plag 30%, Olivine 5%. Minor leucogabbro bands. Some oxide may be due to copper mineralisation although very little visible. \n29-30m tr cpy\n30-31m tr malachite.\n32-33m 20% orange oxide.
02WWRC04	35.5	37	Fault zone of orange oxides with 50% dolerite dyke in 36-37m interval.

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Hole_id	from	to	Description
02WWRC04	37	40	Mesogabbro as above with minor sulphides. \n37-38m tr py, tr cpy\n38-39m 1% py, tr cpy\n39-40m tr py, tr cpy
02WWRC04	40	47	Pale green to grey fine grained sugary gabbro with trace sulphides. Bright green 44-47m with 5% jasper red oxide, possibly after chalcopyrite. Has 45% plagioclase, and 50% pyroxene although upto 65% in green section.\n40-41m tr py\n41-42m tr cpy\n42-43m tr cpy\n43-44m 1% cpy\n45-46m tr cpy\n46-47m tr cpy
02WWRC04	47	56	Pale grey to greenish medium grained gabbro (1-2mm). Has 40% pyroxene, 55% plagioclase, and 5% olivine.\n47-48m tr cpy\n48-49m tr cpy, 1% py\n49-50m tr cpy, 1% py\n50-51m tr cpy
02WWRC04	56	60	Dark grey medium grained (2-3mm) meso to mafic gabbro with rare trace of pyrite and minor olivine. Strongly magnetic.\n56-57m 2% chlorite and 5% carbonate
02WWRC04	60	62	Black fine grained microgabbro or dolerite with massive blocky habit. Minor chlorite alteration and trace pyrite on fractures. Possible dyke. 90% pyroxene
02WWRC04	62	66	Dark grey meso to mafic gabbro with 80% pyroxene. Quite magnetic (5%) with minor red oxide and trace sulphide.\n63-64m tr cpy, 1% py\n64-65m tr cpy\n65-66m tr cpy
02WWRC05	0	1	Weathered gabbro and brown soil.
02WWRC05	1	9	Dark grey weathered mesogabbro with khaki brown clay. Medium grained (2mm) with orange oxide pits after olivine and trace sulphide. Has minor bands of coarse plagioclase. 65% pyroxene, 20% plag, 5% olivine.
02WWRC05	9	18	Grey brown medium to coarse grained mesogabbro with bands of coarse 10mm plagioclase.\n12-13m coarse plagioclase.\n14-15m almost fresh\n17-18m almost fresh
02WWRC05	18	30	Grey to brown medium grained Fe stained partially oxidised gabbro.\n23-24m 5% coarse plagioclase.\n27-28m 5% coarse plagioclase.\n29-30m tr cpy\nair loss at 29.5m, bogged at 30m. Took 2 days to get out, and 3 days to repair rig.\n
02WWRC05	30	35	Coarse mesogabbro with 3-8mm plagioclase. Has oxidised foliated zones with biotite, ie structures. Strongly oxidised 33-35m FZ\n30-33m tr cpy\n34-35m tr cpy, 2% malachite\n
02WWRC05	35	46	Fresh green grey mesogabbro with bright green alteration of feldspars due to copper (malachite), and minor carbonate.\n35-36m tr cpy, 2% malachite\n36-37m 5% cpy, 2% malachite\n37-38m 2% cpy\n38-39m 5% cpy 3% malachite\n39-40m 1% cpy, 1% malachite\n40-41m tr cpy, 3% malachite, foliated\n41-42m 1% cpy, 1% malachite\n42-43m tr cpy, 2% malachite\n43-44m tr cpy, 5% malachite, fg sugary\n44-45m 2% cpy, 2% malachite\n45-46m tr cpy, 2% malachite, foliated
02WWRC05	46	49	Massive fine grained black dolerite with 5% coarse plagioclase and 1% malachite (possible contamination?).
02WWRC05	49	54	Pale grey to green coarse mesogabbro. Chlorite altered with malachite mineralisation.\n49-54m 1-2% malachite\n53-54m 20% clay, FZ., 3% malachite?
02WWRC05	54	72	Dark greenish grey foliated mafic gabbro with trace malachite, and 5% chlorite. Small minor carbonate veins also present.
02WWRC05	72	76	Dark khaki grey mafic gabbro. More massive and less foliated than above unit.\n72-73m tr cpy\n73-74m 1% cpy\n74-75m tr cpy\n75-76m 3% cpy
02WWRC05	76	77	Massive dark grey dolerite.
02WWRC05	77	88	Medium to dark grey mesogabbro with trace sulphides. Medium grained (2-3mm).\n77-78m tr cpy\n80-81m tr cpy\n81-82m 3% cpy, 5% py.\n83-88m tr cpy
02WWRC05	88	90	Dark green chlorite altered and foliated mafic gabbro dominated by pyroxene. No sulphide present. Medium grained.
02WWRC06	0	1	Brown red soil and 70% rock.
02WWRC06	1	5	Orange stained medium to coarse grained gabbro with bands of coarse plagioclase. Orange colour is due to sulphide weathering and destruction of olivine.
02WWRC06	5	25	Partially weathered dark grey medium grained gabbro with orange rusted olivine and minor sulphide casts. Quite magnetic.\n19m almost fresh\n21m 15% coarse plagioclase, strongly oxidised.\n22-24m trace green plagioclase (due to malachite?)\n25m fractured and strongly oxidised
02WWRC06	25	26	Massive black fine grained dolerite. Probably a dyke.
02WWRC06	26	34	Medium grey dark grey mesogabbro. Oxidised as above with air loss at 30m. Rods stuck briefly at 30m.

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Hole_id	from	to	Description
02WWRC06	34	48	Fresh grey medium grained mesogabbro with disseminated interstitial sulphides. Quite strongly magnetic.\n32m tr cpy\n33m 1% cpy\n35m 2% cpy\n36m tr cpy\n37m 2% cpy\n38m 3% cpy, 1% green plagioclase\n39m 1% cpy, 3% green plag\n40m 1% cpy, 5% green plag, sugary and fine grained.\n41m tr cpy\n42m 15% green fg plag. shear zone?\n43m 1% cpy, 2% green plag\n44m 1% cpy, 1% red oxide.\n45m 2% cpy\n46m 1% cpy\n47m tr cpy\n48m 2% cpy, 3% green plag\n
02WWRC06	48	54	Pale grey leucogabbro with green malachite and chlorite alteration. Often fine grained and sugary with some bands of coarse plagioclase. Weakly magnetic.\n49m 20% green plagioclase\n50m 40% white coarse plagioclase, tr cpy\n51m 30% green sugary plagioclase, tr cpy\n54m tr cpy
02WWRC07	0	1	Orange clay and decomposed gabbro.
02WWRC07	1	17	Dark grey mesogabbro with yellow weathering, mostly after olivine. Medium to coarse grained.\n11-12m strongly oxidised and foliated, F.Z.\n14m tr malachite.\n16m tr malachite\n17m tr cpy
02WWRC07	17	21	Khaki grey dolerite or more likely a microgabbro. Has 20% coarse plagioclase, probably in bands.\n20-21m orange oxidised olivine.
02WWRC07	21	23	Khaki grey partially weathered dolerite or microgabbro.
02WWRC07	23	29	Partially weathered mesogabbro as above at 1-17m.\n27-29m tr cpy
02WWRC07	29	54	Fresh mid to dark grey medium grained mesogabbro. Has bands of trace malachite coloured alteration and minor red oxide, possibly cupric. Is strongly magnetic.\n30m tr cpy\n32m tr malachite\n33m weakly foliated\n33-35m moderately foliated\n38m tr malachite\n40m 2% cpy, 5% carb veins\n41m 1% red oxide, tr malachite\n42m 1% red (cupric?) oxide\n44m 1% red oxide, 2% malachite?\n45m tr red oxide\n46m tr red oxide, strongly magnetic\n47m strongly magnetic\n48m 2% red oxide, tr malachite, green plagioclase, 2% bt\n49m green plag, 1% red oxide.\n51m minor green plag\n54m tr cpy
02WWRC08	0	0.5	Orange clay.
02WWRC08	0.5	3	Dark grey medium grained mesogabbro with 1-2% red oxide.
02WWRC08	3	9	Coarse quite fresh dark grey mesogabbro with 5mm plagioclase.\n3-5m 2% red oxide\n7m 2% red oxide
02WWRC08	9	23	Khaki brown grey mesogabbro. Medium grained with trace red oxide and malachite staining.\n10-11m yellow oxide structural zone\n11-14m 1% malachite staining, 1% red oxide.\n19-20m orange oxide fault zone, 2% red oxide.\n21m tr red oxide, yellow oxide F.Z.
02WWRC08	23	24	Massive dark grey dolerite, probable dyke.
02WWRC08	24	26	Sheared and oxidised coarse mesogabbro. \n25-26m Orange fault zone with 20% biotite.
02WWRC08	26	40	Dark grey partially weathered medium grained mesogabbro with yellow oxidised olivine.\n33-36m more mafic subunit\n39-40m 15% yellow oxidised chips
02WWRC08	40	54	Dark grey fresh fine to medium grained mesogabbro with disseminated primary chalcopyrite.\n41m tr green plag and rust red oxidised olivine.\n42m tr cpy\n43m 5% cpy\n44m 2% cpy, tr malachite\n45m 1% malachite staining\n46m 1% cpy\n47m tr cpy\n48m 1% cpy\n48-50m 2% cpy\n50-52m 1% cpy\n53m 2% cpy\n54m tr cpy, 2% green plagioclase\n
02WWRC08	54	56	Sheared gabbro with 30% blue green plagioclase, 15% qtz, 30% pyroxene, 25% clays.\n55-56m 30% bt, 2% cpy
02WWRC08	56	64	Mesogabbro with disseminated mineralisation as above.\n56-58m 2% cpy\n59m tr cpy\n60m 1% cpy\n61m 1% cpy, minor hornblende\n62m 1% cpy, 2% green carbonate veins\n63m 1% cpy, tr green carbonate\n64m 1% cpy, tr red oxide
02WWRC08	64	76	Dark grey mesogabbro similar to above with very fine grained sulphide. Moderately magnetic.\n64-67m tr cpy\n68m 1% cpy, 5% green plagioclase\n69m 2% cpy\n69-71m tr cpy\n72m 2% cpy, tr red oxide\n73m 1% cpy, 3% green carbonate\n73-76m tr cpy
02WWRC08	76	77	Dark grey microgabbro with minor carbonate veins.
02WWRC08	77	78	Massive dark grey dolerite. Possible dyke.
02WWRC09	0	1	Orange clay and soil
02WWRC09	1	4	Clayey medium grained weathered gabbro with strong carbonate veining after plagioclase destruction.
02WWRC09	4	10	Coarse mesogabbro with yellow weathered plagioclase, fairly fresh below 5m with brown olivine.

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Hole_id	from	to	Description
02WWRC09	10	11	Massive black dolerite dyke.
02WWRC09	11	13	Dark grey medium grained mesogabbro. Is quite unmineralised and probably a later dyke.
02WWRC09	13	33	Mesogabbro characterised by bands of coarse plagioclase (5-7mm). Has minor chalcopyrite and red oxide occurrence. Partially weathered with brown olivine.\n13-14m strongly weathered contact zone.\n18-19m damp at rod change, tr cpy\n20m tr py\n21m tr cpy\n21-23m tr malachite and 2% red oxide\n24m tr cpy\n26m 15% coarse plagioclase.\n30m tr malachite\n31m tr cpy, fractured - rods stuck\n32m 1% malachite, tr cpy
02WWRC09	33	38	Dark grey mafic gabbro. Medium to coarse grained with partially weathered yellow plagioclase.\n33-34m 10% coarse plagioclase.\n35m 5% plag (yellow)\n36m 10% plag (yellow)\n36-38m 5% plag (yellow)\n
02WWRC09	38	66	Dark grey medium grained fresh mesogabbro with bands containing disseminated primary interstitial sulphides.\n39m tr cpy\n40m tr cpy and 5% coarse plag\n41m tr cpy, 10% coarse plag\n42m 2% cpy, 5% chlorite and carbonate\n43m tr cpy, 5% carbonate\n44m 2% cpy, trace chlorite and carbonate\n45m 5% cpy\n45-48m tr cpy\n50-52m tr cpy\n52-53mm tr cpy, 10% carb, 15% green clay alteration - F.Z.\n53-57m tr cpy\n59m 1% cpy, 10% bt, FZ?\n60m 3% cpy, tr malachite staining.\n61m 2% cpy\n61-66m tr cpy
02WWRC10	0	1	Red soil and decomposed gabbro
02WWRC10	1	9	Grey mesogabbro with orange oxidised olivine and minor red oxide. Medium grained (2-3mm).\n8m 5% yellow coarse plagioclase.
02WWRC10	9	11	Oxidised fault zone in olivine rich mesogabbro. 30% olivine, 25% plag, 10% biotite.
02WWRC10	11	24	Khaki grey mafic gabbro with orange oxidised olivine. Rock is pyroxene dominated.\n22m tr malachite stain\n24m minor dolerite dyke
02WWRC10	24	47	Coarse medium grey mesogabbro (2-3mm) with bands of 5mm plagioclase. Unit is partially weathered.\n28-30m tr malachite\n39m yellow oxidised\n40-42m oxidised yellow brown\n43m oxidised with trace malachite\n44m almost fresh
02WWRC10	47	49	Khaki green very fine grained massive dolerite dyke. Looks "relatively" recent with 2% chlorite alteration. Upper contact oxidised yellow
02WWRC10	49	90	Mid to dark grey, medium grained fresh mesogabbro with minor green chlorite alteration. Quite magnetic with bands of disseminated primary magmatic sulphides.\n51m tr py\n52-55m tr cpy\n55-57m tr cpy with 2% biotite and tr malachite\n62m 5% bt and green plag, 2% chlorite\n63m 5% bt and green plag, 1% chlorite\n64m 2% bt and green plag, 2% chlorite\n65m tr malachite, tr cpy\n66m 1% cpy, 2% bt and green plag, 7% chlorite\n67m tr cpy, 5% bt and green plag, 2% chlorite\n68m 1% cpy, 2% bt and green plag, 5%\nchlorite\n69m 1% cpy, 2% bt and green plag, 5% chlorite\n70m 2% cpy, 2% bt and green plag, 5% chlorite\n71m 2% cpy, tr bt and chlorite\n72m 2% cpy and tr chlorite\n72-74m tr cpy\n75m 1% cpy\n75-79m tr cpy, 2% bt and green plag\n87-89m 2% bt and 5% chlorite\n
02WWRC11	0	1	Brown soil and 60% gabbro boulders.
02WWRC11	1	19	Dark grey mesogabbro with coarse plagioclase bands. Quite fresh with carbonate weathering and minor brown olivine. Has weak foliation.
02WWRC11	19	27	Dark green grey partially weathered mafic gabbro with bands of mid to coarse grained plag (2-5mm). Has minor red oxide after sulphide?
02WWRC11	27	33	Mafic to mesogabbro with disseminated sulphide and oxide (3% red). Partially weathered. Strongly magnetic.\n27-28m yellow carb alteration 2%\n28-30m yellow sulphide stained\n31m tr malachite?
02WWRC11	33	36	Fresh dark grey mesogabbro with carbonate, chlorite and weak sulphide alteration. Intensely magnetic. Has minor hornblende, esp at 34m (5%).\n33-34m tr malachite\n36m tr pyrite
02WWRC11	36	52	Mid grey medium grained mesogabbro with minor chalcopyrite and malachite. Rock is characterised by green copper "altered" plagioclase.\n37m tr cpy\n38m 1% py, tr cpy\n39m 1% py, tr cpy\n40m tr cpy\n41m tr py, tr cpy, grey unaltered\n42m tr py, foliated with 2% biotite\n43-45m tr cpy, 1% malachite\n46m 1% chlorite alteration\n47m tr cpy, 1% chlorite\n48m 1% chlorite\n49m 2% bt, 2% chlorite, breccia?\n50m tr cpy, 2% chlorite\n51m tr pyrite

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Hole_id	from	to	Description
02WWRC11	52	55	Dark grey microgabbro (<1mm) with semi-massive magnetite bands and 2-10% disseminated primary sulphide, much of which appears to be chalcopyrite.\nThe disseminated sulphide intersection probably explains the EM anomaly as the predicted depth from section was 55m.\n53m 10% cpy, 2% chlorite, 10% carbonate, 20% magnetite\n54m 3% cpy, 2% chlorite, 2% carbonate, 10% magnetite\n55m 2% cpy, 1% chlorite, 2% carbonate, 10% magnetite
02WWRC11	55	59	Dark green grey microgabbro or dolerite. Massive and very fine grained. Weakly magnetic in contrast to above units.\n56m 5% chlorite and carbonate\n59m tr py
02WWRC11	59	67	Dark green grey microgabbro with coarse plagioclase bands. Chlorite altered and foliated, ie substantial alteration. Yellow chalcopyrite is accompanied by a silver colour irregular sulphide phase (with slight pink colour) that has exsolved from the same melt. Minor hornblende present.\n60m tr cpy, 2% Chl, 10% carb\n61m 5% cpy, 5% Chl, 2% carb\n62m 10% cpy, 10% Chl, 5% carb\n63m 2% cpy, 10% Chl, 5% carb\n64m 5% cpy, 10% Chl, 5% carb\n65m tr cpy, 5% Chl, 2% carb\n66m tr cpy, 5% Chl, 2% carb\n67m tr cpy, 5% Chl, 5% carb, F.Z.\n
02WWRC11	67	70	Coarse mid grey mesogabbro of plagioclase and pyroxene with trace chalcopyrite and chlorite.
02WWRC11	70	80	Coarse dark green pyroxenite or mafic gabbro dominated by pyroxene. Chlorite altered (5%) and foliated, with 2% carbonate, and trace malachite staining. Minor bands of trace sulphides.\n71m 2% cpy\n72m tr cpy\n76m tr cpy, fine grained\n78m minor FZ with 2% red oxide.\n78-80m tr cpy with 15% coarse plagioclase
02WWRC11	80	82	Massive dark grey microgabbro or dolerite. Probably a dyke.
02WWRC11	82	84	Dark green chlorite altered sheared pyroxenite with minor breccia. Rock has 5% plagioclase and 10-15% chlorite.
02WWRC12	0	2	Brown decomposed soil and gabbro.
02WWRC12	2	14	Dark grey weathered to partially weathered coarse grained mafic gabbro, with 10-15% plagioclase and 10% olivine.\n7m minor F.Z., 10% chlorite, 15% red oxide.\n9m 5% red oxide.\n12m 2% red oxide.
02WWRC12	14	17	Dark green mafic gabbro or pyroxenite. Weakly magnetic.
02WWRC12	17	23	Dark brown grey mafic end mesogabbro with 15% plag, and 5% olivine, 80% pyroxene. Coarse and foliated with hornblende and biotite.
02WWRC12	23	30	Fresh mid to dark grey medium grained mesogabbro. Moderately magnetic.
02WWRC13	0	1	Brown soil and dolerite
02WWRC13	1	9	Partially weathered mid grey mesogabbro with brown olivine (10%), plag (30%), pyroxene (60%).\n9m minor FZ with carbonate 10%
02WWRC13	9	10	Dark grey dolerite dyke with a band of coarse plagioclase.
02WWRC13	10	18	Dark grey mafic gabbro. Partially weathered with orange brown olivine (10%). Medium grained (2mm), with 10% plag and 80% pyroxene.\n13m FZ, air loss, rods bogged.
02WWRC13	18	29	Dark grey medium grained mesogabbro with brown weathered olivine (10%), 20% plag, and 70% pyroxene.\n22m becoming fresh\n23m quite fine grained\n28m tr chlorite.
02WWRC13	29	30	Fresh mid grey mesogabbro with 5% pale green plagioclase - possible weak copper alteration. Has 35% plag, 60% pyroxene, 5% olivine.
02WWRC13	30	32	Massive dark green to black dolerite with 5-10% primary pyrite. No chalcopyrite.\nSulphide probably explains early time helicopter EM anomaly.
02WWRC13	32	50	Mesogabbro as above.\n34m 40% dolerite, tr py\n35m tr py\n36-38m tr cpy, 1% green plag\n39m 1% green plag\n40m tr cpy\n41m 1% green plag\n43-45m tr cpy, 2% green plag\n45-49m 2% green plag\n50m tr cpy, 2% green plag
02WWRC13	50	51	Dark green to black massive microgabbro with sugary texture.
02WWRC13	51	54	Dark green mafic to mesogabbro. Fine to mid grained with bands of coarse plag and trace pyrite.
02WWRC14	0	0.2	Brown soil and calcrete.
02WWRC14	0.2	2	Carbonate weathered coarse pyroxenite.
02WWRC14	2	8	Dark green partially weathered pyroxenite or mafic gabbro with brown olivine. Has about 2% plag, 10% olivine, 90% pyroxene.\nHole abandoned due to broken ground. Bit fell off hamer, ie unscrewed!
02WWRC17	0	1	Brown soil and gabbro gravel

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE GEOLOGY

Hole_id	from	to	Description
02WWRC17	1	19	Mid grey mesogabbro of plagioclase (30%), pyroxene (55%) and olivine (15%). Has minor weathered sulphide and magnetite. Olivine is weathered orange brown.\n4-8m 1% red oxide.\n10-17m 2% red oxide, cupric?
02WWRC17	19	20	Dark grey pyroxene and olivine porphyritic dolerite dyke with tr pyrite and magnetite. Appears chilled.
02WWRC17	20	33	Mesogabbro as above. Has 5-10% olivine, 20-50% plag, and 50-70% pyroxene.\n20-25m tr Fe oxide
02WWRC17	33	37	Dark green mafic mesogabbro. Transitional change from above unit. Has about 15% plagioclase and 10% olivine.
02WWRC17	37	41	Dark green almost fresh medium grained pyroxene rich gabbro with zones of trace malachite, chlorite, biotite, and carbonate. Has about 10% olivine and plagioclase.
02WWRC17	41	44	Dark grey fine grained dykes with minor olivine phenocrysts.
02WWRC17	44	64	Coarse khaki dark green pyroxene gabbro with 5-10% hornblende and 5 to 10% plagioclase. (Dark grey at top of unit.)\n63.9-64m narrow FZ? with 5% pyrite.
02WWRC17	64	66	Massive dark grey microgabbro, chilled with very fine grained upper contact. Is texturally similar to 53m target unit in hole 11, but lacks sulphide and magnetite.
02WWRC17	66	81	Dark khaki green medium grained (1mm) pyroxene gabbro. Has sugary texture and carbonate veins at irregular intervals. Has 5-10% plagioclase and 5% olivine.\n67m tr cpy\n69m tr cpy\n79m tr cpy with pale plagioclase.\n79-81m 10% carbonate
02WWRC17	81	83	Mid to dark green coarse mesogabbro with 5% chlorite and carbonate alteration, and tr cpy. Has 25% plag and 60% pyroxene. Possibly fractured. Corresponds to 72m zone in hole 11.
02WWRC17	83	85	Dark green pyroxene gabbro as above.
02WWRC17	85	87	Mid grey mesogabbro (as above) with disseminated primary sulphides. Has 20% plag.\n85-86m 2% py, tr cpy\n86-87m 1% py, tr cpy
02WWRC17	87	90	As above.\n87-88m 2% pyrite.\n90m FZ, pale grey plag with biotite and clay.\nCorrelation with unit in hole WWRC11 is good, just sulphides are absent.
02WWRC18	0	1	Orange clay and dark grey gabbro.
02WWRC18	1	8	Dark grey medium grained (1-2mm) gabbro with orange weathered olivine (15%), 15% plag, and 65% pyroxene.
02WWRC18	8	10	
02WWRC18	10	18	Mesogabbro as above.\n13-15m 5% coarse plag.\n18m strongly oxidised
02WWRC18	18	19	Dolerite dyke as above.
02WWRC18	19	27	Mid grey medium grained mesogabbro. Moderate to strongly magnetic.
02WWRC18	27	40	Dark khaki green partially weathered pyroxene gabbro with strong orange weathering of olivine. Upper contact is 050 trending fault. \n36-38m tr green carbonate
02WWRC18	40	48	Dark green pyroxene gabbro. Mid to coarse grained.\nHole stopped as it appears to have crossed faults at 27m and 40m into adjacent unit, and no longer testing mineralised mesogabbro.
03WWRC19	0	1	Brown soil and gabbro chips
03WWRC19	1	12	Medium grained mesogabbro with 5-10% red weathered olivine and plag. bands.
03WWRC19	12	15	Dark green chloritic mafic gabbro.
03WWRC19	15	16	Dolerite or microgabbro.
03WWRC19	16	26	Dark khaki mafic gabbro. Pyroxene dominated with coarse mafic bands.
03WWRC19	26	45	Fresh coarse meso gabbro with green stained plagioclase and trace sulphide.
03WWRC19	45	81	Dark green mafic gabbro with minor chlorite alteration.
03WWRC19	81	97	Dark to mid gray mesogabbro.
03WWRC19	97	100	Dark khaki to black mafic gabbro .
03WWRC19	100	107	Mid grey mesogabbro with sulphides.
03WWRC19	107	118	Dark green mafic gabbro with carbonate veins.
03WWRC20	0	10	Dark green coarse pyroxene gabbro.
03WWRC20	10	12	Dark grey mafic microgabbro.
03WWRC20	12	34	Coarse mafic gabbro with red olivine.
03WWRC20	34	36	Black dolerite dyke.

APPENDIX 4

EPM 13305 WESTWOOD DRILL HOLE GEOLOGY

Hole_id	from	to	Description
03WWRC20	36	40	Dark green coarse mafic gabbro.
03WWRC20	40	44	Dark grey microgabbro with marginal fault zone at 41m.
03WWRC20	44	102	Dark green pyroxene dominated gabbro with green altered plagioclase bands.
03WWRC20	102	156	Mid grey mesogabbro with trace pyrite. Has Co3 altered plagioclase zones.
03WWRC20	156	172	Dark green chlorite altered mesogabbro/mafic mesogabbro. Low Mag.
03WWRC20	172	182	Micropyroxenite dyke.
03WWRC20	182	193	Mafic gabbro as at 156-172m with coarse plagioclase bands.
03WWRC20	193	195	Dolerite dyke.
03WWRC20	195	199	Chloritic sheared gabbro with fg. pyrite.
03WWRC20	199	224	Dark green mafic pyroxene gabbro. Chlorite altered and sheared from 208-210m.
03WWRC21	0	18	Dark khaki green weathered pyroxenite.
03WWRC21	18	38	Dark khaki green pyroxene dominated mafic gabbro.
03WWRC21	38	60	Dark green to black mafic gabbro - pyroxenite with mior. plag and olivine.
03WWRC21	60	66	Mafic gabbro with 10-15% plag, 10% olivine, magnetic.
03WWRC21	66	80	Dark grey to black fg to mg microgabbro with bands of pyrite.
03WWRC21	80	108	Dark grey mesogabbro/mafic gabbro.
03WWRC21	108	127	Dark to mid grey mesogabbro.
03WWRC21	127	128	Mafic microgabbro , approx 15% pyrrhotite
03WWRC21	128	134	Medium grained mesogabbro with narrow pyrrhotite and chalcopyrite bands.
03WWRC21	134	138	Dark grey pyritic microgabbro with 5-7% fg pyrite.
03WWRC21	138	148	Mid grey mesogabbro with tr pyrite.
03WWRC22	0	16	Weathered gabbro.
03WWRC22	16	38	Pyroxenite/gabbro.
03WWRC22	38	70	Olivine gabbro.
03WWRC22	70	76	Sheared gabbro/pyroxenite, some hydrofracturing.
03WWRC22	76	83	Olivine gabbro.
03WWRC22	83	84	Fg mafic dyke.
03WWRC22	84	102	Sheared gabbro.
03WWRC22	102	132	Gabbro.
03WWRC22	132	151	Mesogabbro.
03WWRC23&23A	0	26	Weathered gabbro, fresh from 21m.
03WWRC23&23A	26	48	Mesogabbro, 1-3% pyrite from 24-32m.
03WWRC23&23A	48	54	Gabbro (bit shanked at 54m, new hole 3m away).
03WWRC23&23A	54	72	Gabbro and mesogabbro.
03WWRC23&23A	72	76	Pyroxenite/gabbro.
03WWRC23&23A	76	84	Olivine gabbro, mafic dyke 6-10% pyrite 78-84m.
03WWRC23&23A	84	90	Sheared mesogabbro 4-8% pyrite, pyrrhotite + cpy stockwork.
03WWRC23&23A	90	94	Gabbro/mafic dyke?
03WWRC23&23A	94	108	Gabbro.
03WWRC23&23A	108	112	Mafic dyke?
03WWRC23&23A	112	121	Gabbro/C03