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MEMORANDUM

To: Rory Calhoun
Daniel Oosterman
Larry Hulbert

Date: August 15th, 2012

From: Mac Clohan

Re: Field Report - Wellgreen MagVLF

This memorandum report describes Total Field Magnetics (TFM) and VLF ground geophysical surveys conducted for Prophecy Platinum on their Wellgreen property. During the period of June 25th to July 28th 2012, a total of 148.93 line kilometres over 4 grids (78.36 on Burwash, 30.19 on Wellgreen East, 32.55 on Wellgreen West, and 7.83 on Arch Gap) of TFM and VLF surveying were completed.

a. Personnel: The ground geophysical surveys were conducted by the following personnel:

Mac Clohan	Crew Chief	June 25 th - July 28 th , 2012
Jeremy Beales	Helper	June 25 th - July 28 th , 2012
Georgie Townrow	Helper	June 25 th - July 28 th , 2012

(excluding July 9th)

b. Instruments and Equipment: The crew was equipped with the following instruments and equipment.

Mag Survey	3 - GEM Systems GSM-19 VLF magnetometers
	2 - GEM Systems GSM-19 Base magnetometers
	3 - Handheld non differential GPS

c. Survey Location: The grids were located in the area immediately surrounding the Wellgreen camp 15km up the Quill Creek road on NTS mapsheets 115 G/05 and G/06. There was road access to the camp and to roughly 50% of the grid lines. The other lines

were accessed via ATVs. While surveying the crew stayed at Prophecy Platinum's Wellgreen Camp.

d. Survey: The terrain on the property was exceptionally steep with many treacherous rock faces which made for a slow survey. Along the lower parts of the Wellgreen East grid along Nickel creek there was extremely poor signal strength. For the first week of the survey, bad weather and heavy rain consistently muted the Cutler VLF station below usable levels leading to 4 down days in the first week. Heavy rain also prevented access to other areas of the property because the swollen creeks could not be forded with the ATVs.

The eastern most lines of Burwash grid (lines 1-9) were clipped at both ends due to a combination of the primary anomaly pinching out, particularly cliffy terrain and long walks (1.5km with 600m elevation change, one way) to and from the lines creating extremely slow and low priority surveying.

Other isolated sections of the grid could not be surveyed due to localized cliffs.

On consultation with Daniel Oosterman, lines 102-96 on the Wellgreen West grid were surveyed without the NPM (Hawaii, 21.4 KHz) VLF station in an effort to speed up the last few days of the survey.

e. Survey Specifications: The Mag VLF survey was completed according to the following specifications

Station Separation	10 m
Line Spacing	100 m
Positioning Data	Collected with the handheld NDGPS receiver sampling at one reading per 3 seconds
Corrections	Temporal geomagnetic variations were removed by linear interpolation of drift determined by the base station magnetometer. Reference field set to 55,700nT
Base Station Magnetometer	The unit was cycled at a 3 second interval throughout the survey. Both base and roving magnetometers' clocks were synchronized daily to local time.
VLF Frequency	21.4 kHz (NPM) Lualualei, Hawaii 20.4 kHz (NAA) Cutler, Maine

f. Data : The Mag VLF data were downloaded at the end of each survey day and the raw, unedited data archived. A copy of the data was then corrected for diurnal variations using GEM Systems software GEMlink5. Geosoft's cross database channel lookup was used to append the positioning data collected during the survey. The data were leveled each day to a common datum and poor quality readings removed. Profiles of the corrected magnetic and VLF data were reviewed on a line by line basis to check for data integrity. Plan images

of the total magnetic field were produced using Geosoft's Rangrid gridding algorithm. VLF Profiles were filtered a non linear filter using a wavelength of 1 and a low pass filter using a wavelength of 5. Plan contour maps of the fraser filtered data were generated using Geosoft's Rangrid gridding algorithm.

The following digital data products are appended to this report.

Instrument dump files	Raw GEM magnetometer daily dump files : name convention <RM, date, operator initials or base >.txt
	Raw GPS positioning data files : name convention <operator initials, date >.gpx
	All dump files have been left unedited.
Final ASCII XYZ and Geosoft format GDB files	Burwash MagVLF.gdb Wellgreen East MagVLF.gdb Wellgreen West MagVLF.gdb Arch Gap MagVLF.gdb All Grids MagVLF.gdb
	Burwash MagVLF.xyz Wellgreen East MagVLF.xyz Wellgreen West MagVLF.xyz Arch gap MagVLF.xyz All Grids MagVLF.xyz

Channel	Description
UTME_NAD83_Zn7	UTM Easting as NAD83 Zn 7N in metres
UTMN_NAD83_Zn7	UTM Northing as NAD83 Zn 7N in metres
Line	Grid line
Station	Grid Station
Raw_Mag	Uncorrected, raw magnetic reading as nT
Q	Signal Quality Indicator
VLF_Frequency_NPM	VLF Frequency in KHz
NPM_IP	Uncorrected, raw In Phase readings in %
NPM_OP	Uncorrected, raw Out Phase readings in %
NPM_H1	Horizontal field vector 1
NPM_H2	Horizontal field vector 2

Channel	Description
NPM_Signal_Strength	VLF Signal Strength in pT
VLF_Frequency_NAA	VLF Frequency in KHz
NAA_IP	Uncorrected, raw In Phase readings in %
NAA_OP	Uncorrected, raw Out Phase readings in %
NAA_H1	Horizontal field vector 1
NAA_H2	Horizontal field vector 2
NAA_Signal_Strength	VLF Signal Strength in pT
Time	Time in HH:MM:SS.S
Corr_Mag	Diurnal corrected magnetic reading as nT
Lvl_Mag	Leveled magnetic reading as nT
NPM_IP_Edit	NPM In Phase edited for QAQC, as %
NPM_IP_Non_Linear	Non linear filter on NPM_IP_Edit, as %
NPM_IP_Low_Pass	Low pass filter on NPM_IP_Non_Linear, as %
NPM_IP_FF	Frasier filter on NPM_IP_Low_Pass, as %
NPM_OP_Edit	NPM Out Phase edited for QAQC, as %
NPM_OP_Non_Linear	Non linear filter on NPM_OP_Edit, as %
NPM_OP_Low_Pass	Low pass filter on NPM_OP_Non_Linear, as %
NPM_OP_FF	Frasier filter on NPM_OP_Low_Pass, as %
NAA_IP_Edit	NAA In Phase edited for QAQC, as %
NAA_IP_Non_Linear	Non linear filter on NAA_IP_Edit, as %
NAA_IP_Low_Pass	Low pass filter on NAA_IP_Non_Linear, as %
NAA_IP_FF	Frasier filter on NAA_IP_Low_Pass, as %
NAA_OP_Edit	NAA Out Phase edited for QAQC, as %
NAA_OP_Non_Linear	Non linear filter on NAA_OP_Edit, as %
NAA_OP_Low_Pass	Low pass filter on NAA_OP_Non_Linear, as %
NAA_OP_FF	Frasier filter on NAA_OP_Low_Pass, as %

Figures & Grd's:

All Grids NAA IP VLF.pdf	All Grids NAA IP.grd
All Grids NAA OP VLF.pdf	All Grids NAA OP.grd
All Grids NPM IP VLF.pdf	All Grids NPM IP.grd
All Grids NPM OP VLF.pdf	All Grids NPM OP.grd
All Grids Total Magnetic Field.pdf	All Grids Lvl Mag.grd
Arch Gap Mag and NAA Profiles.pdf	
Arch Gap Mag and NPM Profiles.pdf	Arch Gap Lvl Mag.grd
Arch Gap NAA IP VLF.pdf	Arch Gap NAA IP.grd
Arch Gap NAA OP VLF.pdf	Arch Gap NAA OP.grd
Arch Gap NPM IP VLF.pdf	Arch Gap NPM IP.grd
Arch Gap NPM OP VLF.pdf	Arch Gap NPM OP.grd
Burwash Mag and NAA Profiles.pdf	
Burwash Mag and NPM Profiles.pdf	Burwash Lvl Mag.grd
Burwash NAA IP VLF.pdf	Burwash NAA IP.grd
Burwash NAA OP VLF.pdf	Burwash NAA OP.grd
Burwash NPM IP VLF.pdf	Burwash NPM IP.grd
Burwash NPM OP VLF.pdf	Burwash NPM OP.grd
Wellgreen East Mag and NAA Profiles.pdf	
Wellgreen East Mag and NPM Profiles.pdf	Wellgreen East Lvl Mag.grd
Wellgreen East NAA IP VLF.pdf	Wellgreen East NAA IP.grd
Wellgreen East NAA OP VLF.pdf	Wellgreen East NAA OP.grd
Wellgreen East NPM IP VLF.pdf	Wellgreen East NPM IP.grd
Wellgreen East NPM OP VLF.pdf	Wellgreen East NPM OP.grd
Wellgreen West Mag and NAA Profiles.pdf	
Wellgreen West Mag and NPM Profiles.pdf	Wellgreen West Lvl Mag.grd
Wellgreen West NAA IP VLF.pdf	Wellgreen West NAA IP.grd
Wellgreen West NAA OP VLF.pdf	Wellgreen West NAA OP.grd
Wellgreen West NPM IP VLF.pdf	Wellgreen West NPM IP.grd
Wellgreen West NPM OP VLF.pdf	Wellgreen West NPM OP.grd

Crew Log & Field Report:

NKL-12502-YT Wellgreen Mag VLF CrewLog.pdf
NKL_12502_YT_Field Report.pdf

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Mac Clohan,
Aurora Geosciences Ltd.