



Memorandum

To: John Bishop, Andrew White, Luke Vanzino

From: Jane Capp

Date: 12 December 2006

Subject: Professor Leases data Compilation

Professor Data – what do we have?

- **Tracie Burrows database:**

Icon received a database of drillholes that fall within the Professor Leases from Tracie Burrows. This database contained assays for most holes, but not all, and geology records in the form of a single rock code for each interval.

- **Noranda Data:**

Icon received a disc containing all Noranda's data from their Professor area projects. This data includes spreadsheets with collars, assay and geology for almost all the holes held in Noranda's lease. There are Mapinfo section tables and the original data files from the helimagnetic survey. The helimagnetic data has been sourced from MRT and handed to Kate Godber for processing. There is a complete summary of the data included in Appendix 1.

Drillhole location validation

The location of drillholes at Professor is different for data sets from MRT, Tracie Burrows and Noranda. All say they are in grid zone AMG66_55.

- The Burrows and Noranda datasets vary only by a metre or so.
- MRT data can be between 100-200 metres different in both easting and northing over the Grieves prospect area and there is no consistent shift. Outside Grieves, at Myrtle for example, hole locations agree well. This may be due to variations in converting from the original local grids (There are two grids that cover Grieves) into AMG.

There was a number of typographic location errors in the Burrow dataset and these have been updated using the Noranda data and cross-checking with the original hole log. Changes made to the Burrows data are listed in Appendix 2.

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There are two grids that cover Grieves, which will be referred to Grieves North and Grieves South. Four grid pegs from the Grieves North grid were surveyed using a GPS, on a field trip by Luke Vanzino and myself in November. These were used to verify the locations in the Noranda dataset and the conversion agrees well (with an error of only 1m or so).

The grid pegs surveyed are included in Appendix 2.

Missing Data

Most of the Grieves area data (collars, assays, geology and downhole surveys) was contained in T. Burrows database and the Noranda data files.

There is downhole data missing for holes, mainly from outside the current area of interest ie. Grieves. A summary is provided below:

Data Missing	Number of Holes Missing data	Main prospect areas affected
Downhole surveys	(1119)	All have been sourced and entered
Assays	240 Includes: Baura (2 holes) Grieves (28 holes) Myrtle (1 hole)	Mainly from Austral Creek, Mariposa, King Billy prospects.
Geology	322 Includes: Grieves (1 hole: ZG251 not logged)	Mainly from Austral Creek, King Billy, Leatherwood, Oceana prospects

It has been verified that the holes with no assays in the database from Baura, Grieves and Myrtle were not assayed in the first place.

The missing assay and geology data from the Austral, Oceana, Mariposa and Leatherwood prospects are not relevant at this stage, but the data from King Billy will be compiled in the new year.

A list of holes from Baura, Grieves and Myrtle with no assays is included in Appendix 3.



Hole ZG1007 vs ZB1007

Both these hole numbers are listed on MRT's website, with different locations, but the same dips and azimuths.

ZG1007 refers the hole drilled at Grieves by EZ to 272m as part of a series of holes from ZB1004 to ZB1008, where the B stands for Badger River. The original report and logs refer to this hole as both ZB1007 and ZG1007, so EZ was confused about the number for this hole.

MRT re-entered a hole at 272m and extended it to 737m and hence the second entry for this hole on the website.

All details about these two holes are the same except for the collar location, so I have assumed that we have one *1007 hole drilled at Grieves. I have therefore used to the location listed for the ZG1007 hole as it plots at Grieves. The ZB1007 location plots in the far south western portion of the Henty lease.

Further evidence may become available and any changes to the database will be made, if required.



Appendix 1

Noranda Data Listing

Disk Folder	Filename	Description	Use
\Data\Drilling\Collars	EL6_2001Drillholes.xls	571 Drill hole locs from EL6_2001 lease, with MRT drill hole details. Do not match Noranda collar positions	N
	Explanation for Zeehan Drillhole Logging Sheet.doc	Noranda diamond logging field descriptions	
	Noranda Zeehan Carb Drillhole Collars.xls	1638 drillholes - Hole c-ords in AMG84_55 - includes local grid co-ords	Y
	Oceana_Austral Drillhole Collars.xls	subset of file above - Oceana and Austral prospect holes only	N
	Professor Creek Aircore Collars.TAB	subset of Professor Creek Drillhole Collars.TAB - aircore holes only.	N
	Professor Creek Diamond Collars.TAB	subset Professor Creek Drillhole Collars.TAB - diamond holes only	N
	Professor Creek Drillhole Collars.TAB	subset of holes from Noranda Zeehan Carb drillhole collars.xls	Y
	Professor Creek Winkie Collars.TAB	subset Professor Creek Drillhole Collars.TAB - winkie? holes only	N
	Professor Range and King Billy Aircore Collars.xls	subset of Noranda Zeehan Carb Drillhole Collars.xls	N
	ZC01-001 Assay Intervals & Results.xls	sample intervals and assay results	N
	ZC01-001 Assay Intervals.xls	as above, but sample intervals only	N
	Zeehan Carb Drillhole Collars.xls	same as Noranda Zeehan Carb Drillhole Collars.xls	N
	Zeehan ZC01-001 Summary Logsheet.doc	Collar and summary geological log sheet (Noranda used AGD84_55)	Y
	Zeehan ZC01-003 Summary Logsheet.doc	Collar and summary geological log sheet (Noranda used AGD84_55)	Y
\Data\Drilling\Database	Zeehan ZC01-002 Summary Logsheet.doc	Collar and summary geological log sheet (Noranda used AGD84_55)	Y
\Data\Drilling\Downhole data	GCDBRE.mdb	assays and geological logs of holes ZC01-001 to 003	Y
\Field Updates	GCDBRE.mdb	as above with no assay results	N
	ZC01-001 Assay Intervals.xls	assay intervals with lithology	Y?
	ZC01-001 Recovery.xls	drill hole recoveries	Y
	ZC01-002 Assay Intervals.xls	assay intervals with lithology	Y?
	ZC01-002 Recovery.xls	drill hole recoveries	Y
	ZC01-003 Assay Intervals.xls	assay intervals with lithology	Y?
	ZC01-003 Recovery.xls	drill hole recoveries	Y
\Noranda's Zeehan Drilling	Zeehan ZC01-001 Summary Logsheet.doc	repeat of files in Collar dir	N
	Zeehan ZC01-002 Summary Logsheet.doc	repeat of files in Collar dir	N
	ZC01 Alteration.xls	alteration log for holes ZC01-001 to 003 (sames as in GCDBRE.mdb tables)	N
	ZC01 Collar Information.xls	collar positions for holes ZC01-001 to 003 - not included in other spreadsheets	Y
	ZC01 Mineralisation.xls	mineralisation log for holes ZC01-001 to 003 - (sames as in GCDBRE.mdb tables)	N
	ZC01 Surveys.xls	dhsurveys for holes ZC01-001 to 003 - (different to GCDBRE.mdb tables and log summary docs)	N
	Zeehan Carboante 2001 Merged Assays.xls	assays merged with geology for holes ZC01-001 to 003	N
\Old Aircore Data	Zeehan Carboante 2001 Tbase Assays.xls	assays merged with geology for holes ZC01-001 to 003	N
	Firewood Siding Aircore.xls	assays for holes ZF1 to ZF35	Y
	King Billy Aircore Downhole Assays.xls	assays for holes ZK1 to ZK125	Y
	King Billy Aircore Major Element EOH samples.xls	EOH Ca, Mg, Al, Fe assays for holes ZK1 to ZK122 - no from/to's supplied	N
	Mariposa AC modified.xls	assays Zn > 1% for holes DM1 to DM212 - prospect outside Professor Leases	N
	Mariposa High Grade Aircore.xls	high grade Zn, Pb, Fe results from holes btwn DM1 to DM212	N
	Myrtle Aircore Processing.xls	summary of Myrtle hole locations and intercepts	N
\Previous Drilling data	Myrtle High Grade Aircore.xls	best intercepts from Myrtle holes (ZM*)	N
	MYRTLE.xls	assays from Myrtle holes (ZM1 to ZM1008, ZR1 to ZR104)	Y
	Noranda Zeehan Carb Drillhole DH Assays.xls	assays for holes DB1 to 12, DL1 to 53, DM1 to 212, DS1 to 101, DTB1a, DTBJ1 to 2, DTM1 to 9, DTSC1 to 5a, GS1	Y
	Noranda Zeehan Carb Drillhole DH Geology.xls	geology for some of holes listed above	Y
	Noranda Zeehan Carb Drillhole DH Surveys.xls	dhsurveys for some of holes listed above	Y
	Oceana Drillhole Lithos 1.xls	geology for Oceana prospect holes (outside Professor leases)	N
	Oceana_Austral DH Surveys.xls	dhsurveys for Oceana prospect holes	N
\Raw Assay data	oceania DDH downhole surveys.xls	dhsurveys for Oceana prospect holes	N
	Zeehan Carb Drillhole DH Surveys.xls	Noranda dhsurveys with more records than Noranda Zeehan Carb Drillhole DHSurveys.xls	Y
	\ZC01-001	raw lab assay files for hole ZC01-001	Y
	\ZC01-002	raw lab assay files for hole ZC01-002	Y
	\ZC01-003	raw lab assay files for hole ZC01-003	Y
\ZC01-001		assay intervals, assays, geology and recovery spreadsheets (found in DB and other dir)	N
\ZC01-002		assay intervals, assays, geology and recovery spreadsheets (found in DB and other dir)	N
\ZC01-003		assay intervals, assays, geology and recovery spreadsheets (found in DB and other dir)	N
\Data\Drilling	July_01_Zeehan_data.zip	Zeehan and Oceana dhsurveys and collars, EOH aircore assays	N

Disk Folder	Filename	Description	Use
\Data\Geochemistry	Kbtemp.txt	King Billy EOH aircore assays	N
	King Billy Aircore.zip	dxg files	N
	King Billy Sections.zip	King Billy mapinfo section tables (and DXF files)	Y
	Noranda Zeehan Drilling Data 2.ZIP	data for holes ZC01-001, 002 already stored in other dir	N
	Noranda Zeehan Drilling Data.ZIP	txt files of Noranda collars, assays, geology, geochem (aircore)	N
	Oceana Sections 1.ZIP	Oceana mapinfo section tables (and DXF files)	N
	Professor Creek Collars Mapinfo.zip	Same files as in Drilling\Collars	
	Simplified King Billy Aircore Downhole Assays.xls	check if this has more results than King Billy Aircore Downhole Assays.xls	Y?
	ZC01-001.zip	data for hole ZC01-001 - already have	N
	Acwackdh.xls	locs and assays for aircore/wacker holes (as for Noranda Zeehan Carb Drillhole DH Assays.xls, plus ZP*, ZR* and Z	Y
	Full Zeehan Carbonate Geochem ex Grieves.xls	all wacker and aircore hole locs and assays (excluding Grieves area)	Y
	King Billy Wacker Geochem.xls	subset of file above - King Billy prospect holes only	N
	Noranda Top 450 Geochem.xls	?Top 450 aircore/wacker results	N
	Noranda Zeehan Data 1.ZIP	txt files of data in Noranda Zeehan Carb Drillhole spreadsheets	N
	Professor Creek EL Surface Gchem Stats.xls	aircore/wacker hole locations and assays	N
	Zeehan Carb Surface Geochemistry.xls	aircore/wacker hole locations and assays	N
\Data\Geology\Sections		Grieves, Professor, Zeehan sections (TAB and dxg files)	Y
\Data\Geology\Surface	Zeehan Carb Geology Files	mapinfo tables (already have these)	N
	Zeehan 2001 Proposed Drill Sites Modified.xls	planned Noranda drillholes (only did 3 of 6 ZC01-001 to 003)	Y
\Data\Geology\Zeehan Dean	Oliver Files	mapinfo geology and drillhole files (has some holes, geochem we don't)	Y
\Data\Geophysics	\Gravity	gravity tif and geosoft files	Y
	\Helimag	original data, tif, tab and geosoft files	Y
\Data\Photographs\Drilling	\ZC01-001	core, drill site , rehab photos etc	Y
	\ZC01-002	core, drill site , rehab photos etc	Y
	\ZC01-003	core, drill site , rehab photos etc	Y
\Data\Reports	\Open File	open file report listings reported in EL062001_200206.pdf	Y
	748noroceemail.doc	Pb isotope results reported in EL062001_200206.pdf	N
	Oceana Pb_Zn Mine.doc	Notes and recommendations on Oceana (north of Professor)	Y
	Predrill-Zeehan 2001 v2.xls	Noranda drill hole proposal spreadsheet for ZC01 holes	Y
	Target Points Tables.doc	Professor area prospect summaries	Y
	The Baura Anomaly.doc	Description of Baura	Y
	The Myrtle Anomaly.doc	Description of Myrtle	Y
	Zeehan Carb Prospect Notes.doc	Professor area prospect summaries	Y
	Zeehan Data Validation Memo.doc	S. Tear notes on hole locs, dhsurvey data validation	Y



Appendix 2

Drill Hole Location Changes
Grieves Grid Peg GPS Pick-ups



List of holes where Tracie Burrow database and the Noranda data had different locations.

Drillhole	Comment
ZG1	TB database and MRT northings different. Used Noranda location which matched original log.
ZG297	TB database and MRT eastings different. Used Noranda location which matched original log.
ZG336	TB has typo error – use Noranda co-ordinates
ZG366	TB has typo error – use Noranda co-ordinates
ZWG20	Used Noranda location which agrees with original log
ZWM19, 19A	Used Noranda location which agrees with original log
ZB1004	Used Noranda location which agrees with original log
ZB1005	Used Noranda location which agrees with original log
ZB1006	TB used MRT co-ordinates, which do not match original log. Used Noranda location.

Grid Pegs surveyed using GPS on northern section of Grieves local grid.

LocalE	LocalN	AMGEast	AMGNorth	LocalGridID
61100	47750	364343	5349392	Grieves_Nth
61050	47700	364271	5349399	Grieves_Nth
60700	47600	363978	5349615	Grieves_Nth
60750	47600	364010	5349580	Grieves_Nth



Appendix 3

Drillholes with no assays

Prospect	Hole_ID	Full_Hole_ID	HoleType	Total_Depth	Company	Report	Comments
Baura	ZB1004	ZB1004	DDH	59	EZ	86-2547	not assayed/abn
Baura	ZB1006	ZB1006	DDH	203	EZ	86-2547	not assayed
Grieves	ZG112	AC93ZG112	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG121	AC93ZG121	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG122	AC93ZG122	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG176	AC93ZG176	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG188	AC93ZG188	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG189	AC93ZG189	AC	3	CRAE	94-3550.pdf	no assays
Grieves	ZG194	AC93ZG194	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG206	AC93ZG206	AC	5.5	CRAE	94-3550.pdf	no assays
Grieves	ZG208	AC93ZG208	AC	3.7	CRAE	94-3550.pdf	no assays
Grieves	ZG211	AC93ZG211	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG212	AC93ZG212	AC	4.9	CRAE	94-3550.pdf	no assays
Grieves	ZG244	AC93ZG244	AC	3.9	CRAE	94-3550.pdf	no assays/abn in gravel
Grieves	ZG251	AC93ZG251	AC	2.9	CRAE	94-3550.pdf	no assays
Grieves	ZG272	AC93ZG272	AC	4	CRAE	94-3550.pdf	no assays/abn
Grieves	ZG275	AC93ZG275	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG284	AC93ZG284	AC	2.3	CRAE	94-3550.pdf	no assays
Grieves	ZG285	AC93ZG285	AC	2.5	CRAE	94-3550.pdf	no assays
Grieves	ZG288	AC93ZG288	AC	1.1	CRAE	94-3550.pdf	no assays
Grieves	ZG304	AC93ZG304	AC	1.5	CRAE	94-3550.pdf	no assays
Grieves	ZG306	AC93ZG306	AC	1.5	CRAE	94-3550.pdf	no assays/abn in gravel
Grieves	ZG311	AC93ZG311	AC	0	CRAE	94-3550.pdf	no assays/abn in gravel
Grieves	ZG319	AC93ZG319	AC	4	CRAE	94-3550.pdf	no assays/abn in gravel
Grieves	ZG347	AC93ZG347	AC	4	CRAE	94-3550.pdf	no assays
Grieves	ZG387	AC94ZG387	AC	1.2	CRAE		no assays
Grieves	ZG48	AC93ZG48	AC	2	CRAE	94-3550.pdf	no assays/abn in gravel
Grieves	ZG53	AC93ZG53	AC	3	CRAE	94-3550.pdf	no assays/abn in Qtzite?
Grieves	ZWG10	ZWG10	WNL	16	EZ	85-2440.pdf	no assays
Grieves	ZWG20	ZWG20	WNL	14.9	EZ	86-2547.pdf	no assays
Myrtle	ZM142	AC94ZM142	AC	0.8	CRAE	94-3655.pdf	no assays