

RC DRILLING CONFIRMS GOLD MINERALISATION

Highlights

- Reverse circulation drilling delivers best intersection to date outlining broad gold halo at Mt Berghaus
- Best intersections:
 - o 5m @ 1.1g/t Au
 - 32m at 0.16g/t Au
- New intersections confirm previous best gold results found from earlier shallow aircore drilling
- New drilling now confirms a broad halo of deeper-seated fresh rock gold mineralisation within Hemi-style igneous lithologies potentially capable of returning commercial grades of mineralisation

Mantle Minerals Limited (**ASX:MTL**) ("Mantle") ("the Company") is pleased to announce the results from the Company's first reverse circulation drilling program at Roberts Hill (E47/3846) and Mount Berghaus (E45/5899). Best intersections are (shown in Figures 1 and 2 below) with the new drilling providing impetus for the Company's future Pilbara gold exploration activities:

- 5m @ 1.1g/t Au from 35m to 40m in hole MMRC02; and
- 32m at 0.16 g/t Au from 123m to 154m in hole MMRC01.

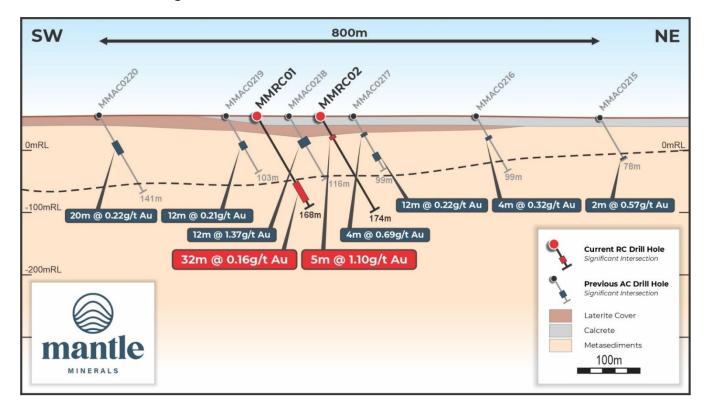


Figure 1: New RC intersections at Mt Berghaus shown in red

Both intersections are located at Mt Berghaus, where the Company logged its previous best intersections from recent aircore drilling on exploration tenement E45/5899 (Figure 2).

Significantly, other intersections of 4m at 0.2 g/t Au from 35m and 6 metres at 0.21 g.t Au from 95m we encountered at MMRC01 confirming the 800m gold halo shown in figure 2 below. This is the intersection that also hosts the deeper anomalous 32m gold halo.

These results are considered highly encouraging, because a Hemi-style gold target area has now been identified from minimal aircore (AC) and RC drilling. Additionally, the new RC drilling has provided a more accurate understanding of the igneous lithologies present in the Company's Mt Berghaus tenement.

The new RC drilling results provide a further layer of confidence to the Company's exploration strategy and follow up drilling in the area with a mixture of potential AC, RC and diamond drilling to define further areas of interest and potential resource definition.

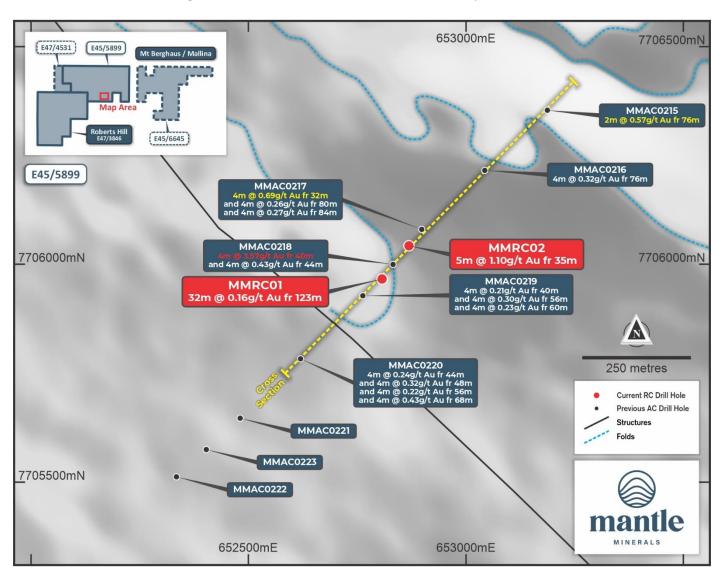


Figure 2: New RC intersections at Mt Berghaus shown in red

Tenement	Prospect	Hole ID	Easting	Northing	Depth	Dip	Azimuth
E45/5899	MB	MMRC0001	652807	7705966	168	-60	45
E45/5899	MB	MMRC0002	652869	7706042	174	-60	45
E45/5899	MB	MMRC0003	653620	7707236	156	-60	135
E45/5899	МВ	MMRC0004	653511	7707344	150	-60	135
E45/5899	MB	MMRC0005	653165	7707688	170	-60	135
E45/5899	MB	MMRC0006	648755	7708593	200	-60	135
E47/3846	RH	MMRC0007	641644	7698532	36	-60	135
E47/3846	RH	MMRC0008	634192	7698030	200	-60	90
E47/3846	RH	MMRC0009	633883	7698004	200	-60	90
E47/3846	RH	MMRC0010	634205	7698257	200	-60	90
E47/3846	RH	MMRC0011	633922	7698227	200	-60	90

Table 1: Drill Locations and Depth

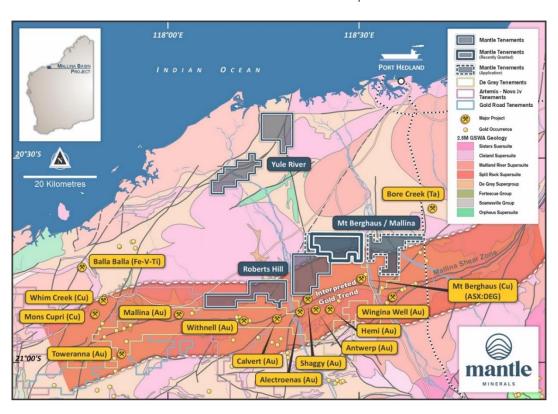


Figure 3: Roberts Hill and Mount Berghaus exploration tenements

Hole ID	Prospect	Easting	Northing	Azimuth	Dip	Total	Depth	Depth	Interval	Au
				Degrees	Degrees	Depth	From	То	Width	ppm
									(m)	
MMRC0001	MB	65280	7705966	45	-60	168	35	36	1	0.25
		7								
MMRC0001							36	37	1	0.204
MMRC0001							37	38	1	0.165
MMRC0001							38	39	1	0.171
MMRC0001							60	61	1	0.116
MMRC0001							95	96	1	0.24
MMRC0001							96	97	1	0.277
MMRC0001							97	98	1	0.255

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MMRC0002 37 38 1 2.
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MMRC0002 39 40 1 1.
MMRC0002 40 41 1 0.2
MMRC0002 41 42 1 0.
MMRC0002 42 43 1 0.0
MMRC0002 43 44 1 0.0

MMRC0002							159	160	1	0.128
MMRC0002							172	173	1	0.245
MMRC0002							173	174	1	0.173
MMRC0003	МВ	65287	770604	135	-60	156	12	13	1	0.1
		3	5							
MMRC0003							45	46	1	0.254
MMRC0003							86	87	1	0.124
MMRC0003							94	95	1	0.117
MMRC0003							151	152	1	0.113
MMRC000	МВ	653511	7707344	135	-60	150	64	65	1	0.847
4										
MMRC0005	МВ	653165	7707688	135	-60	170	44	45	1	0.127
MMRC000	MB	64875	7708593	135	-60	200	29	30	1	0.127
6		5								
MMRC000							40	41	1	0.178
6										
MMRC000							56	57	1	0.168
6										
MMRC000							57	58	1	0.171
6										
MMRC000							58	59	1	0.141
6									_	
MMRC000	RH	63388	769800	90	-60	200	15	16	1	0.13
9		3	4				107	10	7	0.11
MMRC000 9							17	18	1	0.11
MMRC000							170	171	1	0.167
9 9							170	171	'	0.167
MMRC0011	RH	633922	7698227	90	-60	200	33	34	1	0.433
MMRC0011	1311	000002	7030227	30	30	200	71	72	1	0.433
MMRC0011							124	125	1	0.17
MINKCOOL							124	الكا	ı	0.120

Table 2: intersections >0.1ppm Au except where there's a >0.05ppm result in between two >0.2 results in a continuous intercept from RC drilling at Mt Berghaus and Roberts Hill

De Grey Drilling at Roberts Hill

The Company has been advised that the drilling by De Grey Mining Limited announced on 4 November 2024 has been completed and results should be available this year.

This announcement has been authorised for release by the Mantle Minerals Limited Board of Directors.

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Competent Person Statement

The information within this announcement that relates to Exploration Results and Geological data at the Mt Berghaus and Roberts Hill Projects are based on information compiled by Mr. Chris Storey and is subject to the individual consents and attributions provided in the original market announcements and reports referred to in the text of this announcement. Mr. Storey is not aware of any other new information or data that materially affects the information included in the original market announcements or reports referred, and that all material assumptions and technical parameters have not materially changed.

Mr. Storey is a consultant to the Company and he has sufficient experience relevant to the styles of mineralisation and types of deposits under consideration and to the activities currently being undertaken to qualify as a Competent Person(s) as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results Mineral Resources and Ore Reserves and he consents to the inclusion of the above information in the form and context in which it appears in this report.

Forward-Looking Statement Disclaimer

This announcement contains forward-looking statements that involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions, or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions, and strategies described in this announcement. No obligation is assumed to update forward-looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.

JORC Code, 2012 Edition – Table 1 report

Hole ID	East	North	Azimuth Degrees	Dip (°)	Total Depth (m)	Depth From (m)	Depth To (m)	Interval Width (m)
MMAC0209	648787	7708574	135	-60	56	28	32	4
MMAC0209						32	36	4
MMAC0209						44	48	4
MMAC0209						48	52	4
MMAC0209						52	56	4
MMAC0210	648755	7708610	135	-60	82	32	36	4
MMAC0215	653187	7706355	45	-60	78	76	78	2
MMAC0216	653043	7706217	45	-60	99	36	40	4
MMAC0216						76	80	4
MMAC0217	652899	7706081	45	-60	99	32	36	4
MMAC0217						40	44	4
MMAC0217						56	60	4
MMAC0217						76	80	4
MMAC0217						80	84	4
MMAC0217						84	88	4
MMAC0218	652833	7706001	45	-60	116	40	44	4
MMAC0218						44	48	4
MMAC0218						48	52	4
MMAC0218						96	100	4
MMAC0219	652763	7705929	45	-60	103	40	44	4
MMAC0219						52	56	4
MMAC0219						56	60	4
MMAC0219						60	64	4
MMAC0219						64	68	4
MMAC0219						72	76	4
MMAC0220	652620	7705784	45	-60	141	44	48	4
MMAC0220						48	52	4
MMAC0220						52	56	4
MMAC0220						56	60	4
MMAC0220						60	64	4
MMAC0220						68	72	4
MMAC0220						88	92	4
MMAC0220						96	100	4
MMAC0223	652404	7705576	45	-60	125	124	125	1
MMAC0225	654111	7706745	135	-60	15	8	12	4
MMAC0227	653831	7707028	135	-60	13	8	12	4
MMAC0231	653549	7707308	135	-60	56	44	48	4
MMAC0232	653482	7707374	135	-60	47	36	40	4
MMAC0236	653201	7707667	135	-60	64	44	48	4
MMAC0238	653052	7707803	135	-60	69	56	60	4

Table 2. Tabulation of Information for intersections over 0.1 g/t Au.

JORC Code, 2012 Edition – Table 1 report template

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all sections of this announcement.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma	Mantle Sampling was undertaken using standard industry practices including the use of duplicates and standards at regular intervals.
	 sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information. 	 Reverse Circulation (RC) Drilling RC samples are sampled at 1m intervals using the primary cyclone split calico bags. The remaining sample material from each metre is left on the ground in separate piles. Sample weight is approximately 1.5-2kg each to ensure adequate sample size at the laboratory preparation stage. The sample size is deemed appropriate for the grain size of the material being sampled. All coordinates are in UTM grid (GDA94 Z50) and drillhole collars have been surveyed by handheld GPS to ensure accuracy within +/-3m. Samples are sent to ALS laboratories in Perth for Au analysis (Au-ICP22). A 50g charge after sample preparation is digested by Aqua Regia to deliver trace level analytes for regolith-bedrock mineralization.
Drilling techniques	 Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	 RC drilling was undertaken by Topdrill Drilling utilizing a Schram T685. RC holes were drilled with a 4.5" hammer and face sampling bit.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 	 Mantle contracted drillers use industry appropriate methods to maximize sample recovery and minimize downhole contamination including using compressed air to maintain a dry sample in air core drilling. No significant sample loss or bias has been noted in current drilling or in the historical reports or from Mantle drill campaigns.

Criteria	JORC Code explanation	Commentary
Logging Sub-sampling techniques and sample preparation	 Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. The total length and percentage of the relevant intersections logged. If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, spear or grab sampled and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	 All drill chip samples were logged for geological, mineralisation and alteration to an appropriate level for exploration and all data has been stored in the database. The RC drillholes hole can be included in any resource estimation, mining, or metallurgical study. NA. No Diamond Core drilling was carried out. RC samples are taken at each metre interval from the primary cyclone split calico bags. Sample preparation at ALS is by dry pulverization to 85% passing 75microns. Mantle field QAQC procedures involve the use of certified reference standards, duplicates, and blanks at a 1:30 interval for mineral resource modelling and studies.
	 Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 Sampling is carried out using standard protocols and QAQC procedures as per industry practice.
Quality of	The nature, quality and appropriateness of the assaying and	1m RC sample analysis is undertaken by ALS Laboratories using Au 1m RC sample analysis is undertaken by ALS Laboratories using Au 1m RC sample analysis is undertaken by ALS Laboratories using Au 1m RC sample analysis is undertaken by ALS Laboratories using Au
assay data	laboratory procedures used and whether the technique is considered	analysis (Au-ICP22) protocols. Internal certified laboratory QAQC is
and	partial or total.	undertaken including check samples, blanks, and internal standards.
laboratory	For geophysical tools, spectrometers, handheld XRF instruments, etc,	This methodology is considered appropriate for base and precious
tests	the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	metal mineralization at the exploration phase.

Criteria	JORC Code explanation	Commentary
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 Samples are verified by geologist before importing into the main database (Datashed). No twin holes have been drilled by mantle during this program. Geological logging of all samples is undertaken. Field data is collected using a standard set of templates. Geological sample logging is undertaken on a Panasonic Toughbook with and lithology, mineralisation and alteration recorded for each interval. Data is validated before being imported into the database.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	All maps and locations of drillholes are in UTM grid (GDA94 Z50) and have been surveyed by hand-held GPS with an accuracy of +/-3m.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	 Variable drill hole spacing was used to complete the infill of selected targets and are determined from geochemical, geophysical and geological data together with any historical drilling information. For the reported drilling, drill hole spacing was 100m for RC holes infilling AC drilling, with a spacing of 50m from AC holes. No resource has been calculated on regional drilling targets as described in this release due to the early-stage nature of the drilling. No composite samples were submitted for analysis.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	 Drilling is designed to cross the geophysical feature of interest close to perpendicular as possible. Most drillholes are designed at a dip of 60 degrees. No orientation-based sampling bias can be confirmed at this time and true widths are not yet known.

Criteria	JORC Code explanation	Commentary
Sample security	The measures taken to ensure sample security.	 Chain of custody is managed by Mantle contracting staff. Drill samples are stored on site and transported by a licensed reputable transport company to a registered laboratory in Perth (ALS Wangara). When at the laboratory samples are stored in locked yard before being processed and tracked through the ALS Webtrieve system.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	 No audits have been completed on sampling techniques and data due to the early-stage nature of the drilling.

Section 2 Exploration Results

(Criteria in this section apply to all sections of this announcement.)

Criteria	JORC Code explanation	Commentary
Mineral	Type, reference name/number, location and ownership including	The Roberts Hill Gold project is on E47/3846 and the Mt Berghaus
tenement and	agreements or material issues with third parties such as joint	Gold project is on E47/4531, E45/5899 and E45/6645 and is located
land tenure	ventures, partnerships, overriding royalties, native title interests,	approximately 65 km SW of Port Hedland in the Pilbara, WA. The
status	historical sites, wilderness or national park and environmental	tenements are controlled by Mantle Minerals Ltd through its wholly
	settings.	owned subsidiary Mt Roe Mining Pty Ltd.
	The security of the tenure held at the time of reporting along with	The tenements are in good standing and no known impediments exist.
	any known impediments to obtaining a licence to operate in the	
	area.	
Exploration done	 Acknowledgment and appraisal of exploration by other parties. 	No significant drilling has been undertaken on the tenement historically
by other parties		other than a shallow RC water bore. Mantle Minerals has undertaken
		exploration since 2020.
Geology	 Deposit type, geological setting and style of mineralisation. 	Geology comprises metasediments of the Mallina Basin, mafic, intermediate
		and granite lithologies.
Drill hole	A summary of all information material to the understanding of	All RC drill hole collars with assays received and considered significant
Information	the exploration results including a tabulation of the following	are reported on in the body of the text and in Table 1 of this
	information for all Material drill holes:	announcement.
	 easting and northing of the drill hole collar 	

Criteria	JORC Code explanation	Commentary
	 elevation or RL (Reduced Level – elevation above sea 	
	level in metres) of the drill hole collar	
	 dip and azimuth of the hole 	
	 down hole length and interception depth 	
	o hole length.	
	• If the exclusion of this information is justified on the basis that the	
	information is not Material and this exclusion does not detract	
	from the understanding of the report, the Competent Person	
	should clearly explain why this is the case.	
Data	 In reporting Exploration Results, weighting averaging techniques, 	Significant assay intervals are tabulated where required. No cut-off
aggregation	maximum and/or minimum grade truncations (e.g. cutting of high	has been applied to the sampling.
methods	grades) and cut-off grades are usually Material and should be	Reported intervals are not aggregated.
	stated.	No metal equivalent values have been reported.
	Where aggregate intercepts incorporate short lengths of high-	
	grade results and longer lengths of low grade results, the	
	procedure used for such aggregation should be stated and some	
	typical examples of such aggregations should be shown in detail.	
	The assumptions used for any reporting of metal equivalent values	
	should be clearly stated.	
Relationship	These relationships are particularly important in the reporting of	True widths are not confirmed at this time although all drilling is
between	Exploration Results.	planned close to perpendicular to interpreted strikes of target
mineralisation	• If the geometry of the mineralisation with respect to the drill hole	shears at the time of drilling.
widths and	angle is known, its nature should be reported.	
intercept lengths	 If it is not known and only the down hole lengths are reported, 	
	there should be a clear statement to this effect (eg 'down hole	
	length, true width not known').	
Diagrams	Appropriate maps and sections (with scales) and tabulations of	• NA.
	intercepts should be included for any significant discovery being	
	reported These should include, but not be limited to a plan view of	
	drill hole collar locations and appropriate sectional views.	

Criteria	JORC Code explanation	Commentary
Balanced	Where comprehensive reporting of all Exploration Results is not	NA. All anomalous grades have been reported in the body of the
reporting	practicable, representative reporting of both low and high grades	text.
	and/or widths should be practiced to avoid misleading reporting of	
	Exploration Results.	
Other	Other exploration data, if meaningful and material, should be	All material results from geochemical and geophysical surveys and
substantive	reported including (but not limited to): geological observations;	drilling related to these prospects have been reported or disclosed
exploration data	geophysical survey results; geochemical survey results; bulk	previously.
	samples – size and method of treatment; metallurgical test results;	
	bulk density, groundwater, geotechnical and rock characteristics;	
	potential deleterious or contaminating substances.	
Further work	The nature and scale of planned further work (eg tests for lateral	RC infill and AC extensional drilling will be considered to follow up
	extensions or depth extensions or large-scale step-out drilling).	any significant intercepts.
	 Diagrams clearly highlighting the areas of possible extensions, 	NA. Refer to text in the body of this announcement.
	including the main geological interpretations and future drilling	
	areas, provided this information is not commercially sensitive.	