



17 January 2019

Wide high-grade NdPr intersections from surface extend Longonjo mineralisation

Pensana Metals Ltd (ASX: PM8) is delighted to report more excellent drill results from the final batch of results of its 108 hole drill programme at the Longonjo NdPr Project in infrastructure rich Angola.

All new intersections lie outside of the current Mineral Resource area and extend the NdPr mineralisation to the south, east and west.

The high grade mineralisation starts at surface and remains open in the southern area.

Highlights include:

<u>Drill hole</u>	<u>Intersection*</u>
LRC089:	50 metres at 5.63% REO including 1.00% NdPr from surface to end of hole
LRC068:	33 metres at 5.42% REO including 0.88% NdPr from surface
LRC094:	10 metres at 8.50% REO including 1.50% NdPr from 38 metres
LRC071:	26 metres at 2.57% REO including 0.92% NdPr from 22 metres <i>and 15 metres at 2.88% REO including 1.03% NdPr</i> from 60 metres to end of hole

*NdPr = neodymium – praseodymium oxide. See Table 1 for details. REO = total rare earth oxides

The new intersections also identify a new thick zone of particularly NdPr-enriched mineralisation (LRC071, where NdPr makes up 36% of total rare earths) on the western margin of the carbonatite 1,200 metres from the limit of the current Mineral Resource estimate.

The Company has now received all results from the 2018 drilling programme and has appointed SRK Consulting (Perth) to complete a revised Mineral Resource estimate, which is scheduled for completion in February 2019.

Executive Director Dave Hammond commented:

“These high grade NdPr intersections are some of the thickest and highest grade received to date. They occur over substantial widths from surface and will extend the high grade mineralisation in a number of directions.

SRK has already started on an upgraded Mineral Resource estimate which we look forward to reporting next month.”

Technical Report

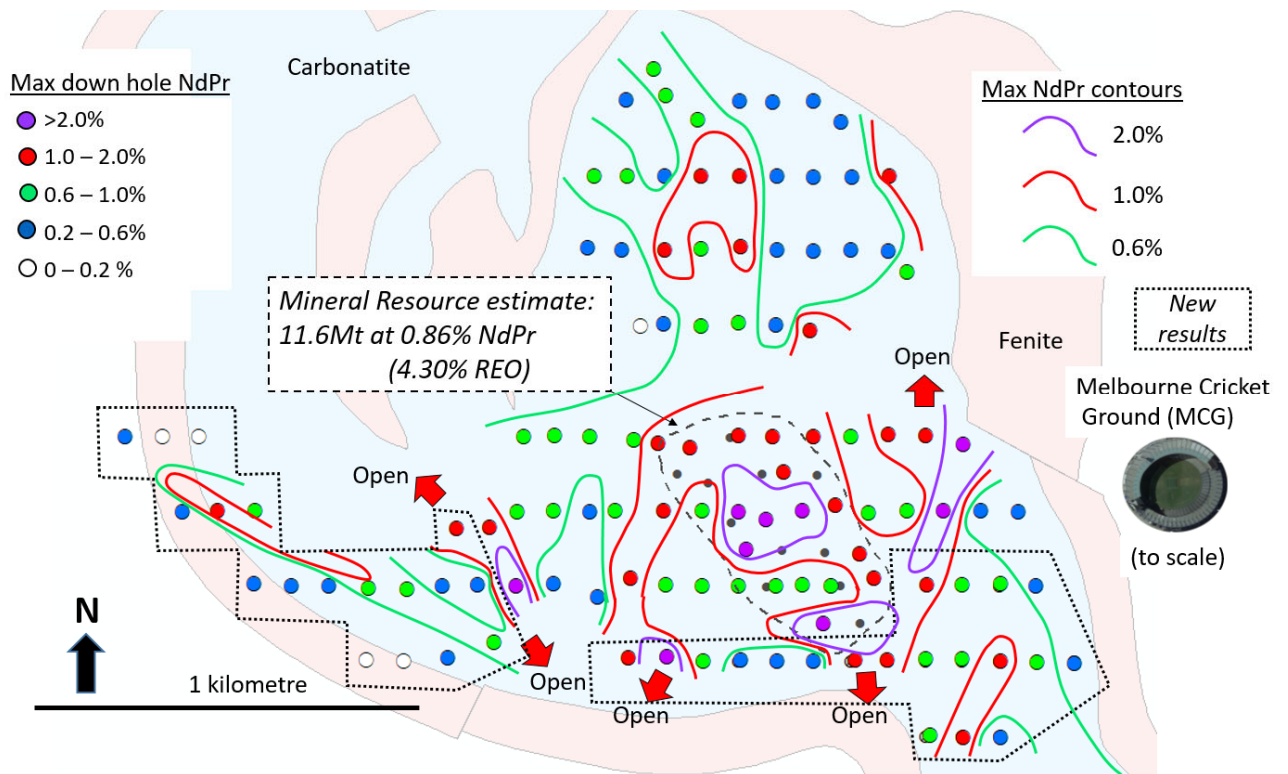
Assay results from the remaining 41 wide spaced vertical drill holes have returned some of the thickest and highest grade received to date including:

50 metres at 5.63% REO including **1.00% NdPr** from surface to end of hole in drill hole LRC089.

Located outside of the current Mineral Resource area, they extend the zone of high-grade mineralisation to the east and south.

The results also identify a new zone of particularly NdPr rich mineralisation in the west, 1,200 metres from the current Mineral Resource estimate boundary.

Mineralisation remains open to the south.



Maximum downhole NdPr plan demonstrates that high grade, near surface NdPr mineralisation (green, red, magenta) extends well beyond the area of the maiden Mineral Resource estimate at Longonjo.

The 4,206 metre reverse circulation programme tested an area ten times that of the maiden Mineral Resource estimate (**11.6 million tonnes at 4.30% REO including 0.86% NdPr**, ASX announcement 26 September 2017), with a view to generating an upgraded Mineral Resource estimate.

New high grade intersections include:

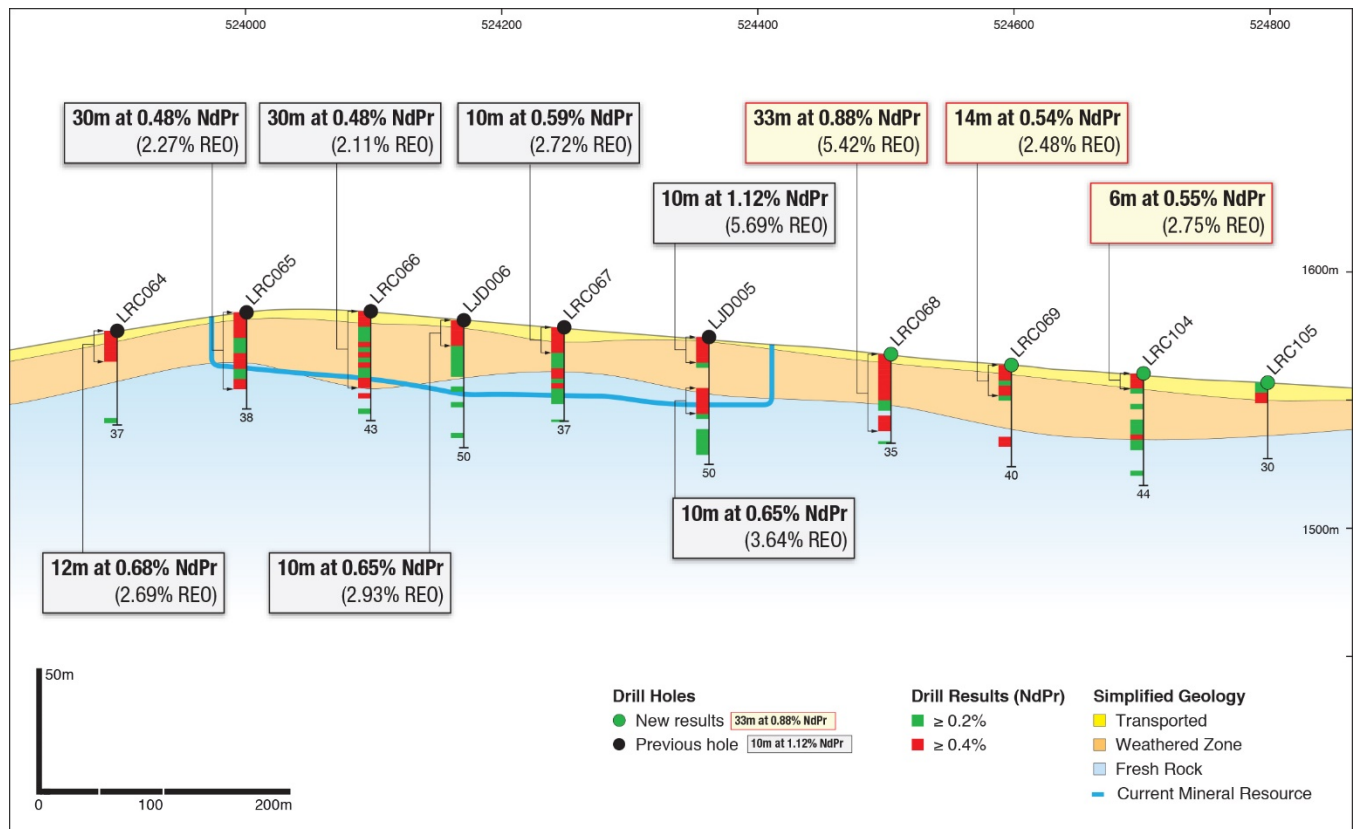
<u>Drill hole</u>	<u>Intersection*</u>
LRC089:	50 metres at 5.63% REO including 1.00% NdPr from surface to end of hole
LRC068:	33 metres at 5.42% REO including 0.88% NdPr from surface
LRC094:	10 metres at 8.50% REO including 1.50% NdPr from 38 metres
LRC095:	10 metres at 4.05% REO including 0.76% NdPr from 22 metres
LRC071:	26 metres at 2.57% REO including 0.92% NdPr from 22 metres <i>and</i> 15 metres at 2.88% REO including 1.03% NdPr from 60 metres to end of hole
LRC087:	24 metres at 3.30% REO including 0.71% NdPr from surface <i>and</i> 24 metres at 1.46% REO including 0.39% NdPr from 46 metres to end of hole
LRC088:	12 metres at 3.30% REO including 0.81% NdPr from 12 metres
LRC099:	28 metres at 3.45% REO including 0.84% NdPr from surface

*Intersection highlights reported at $\geq 0.20\%$ NdPr. NdPr = neodymium + praseodymium oxide: $\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11}$. REO = total rare earth oxides, the sum of La_2O_3 , CeO_2 , Pr_6O_{11} , Nd_2O_3 , Sm_2O_3 , Eu_2O_3 , Gd_2O_3 , Tb_4O_7 , Dy_2O_3 , Ho_2O_3 , Er_2O_3 , Tm_2O_3 , Yb_2O_3 , Lu_2O_3 , Y_2O_3 . Table 1 provides all NdPr and REO intersections $\geq 0.20\%$ and $\geq 0.40\%$ NdPr together with drill hole details.

The thickness and grades of mineralisation intersected in these latest results compare well to the average 20 metre thickness and the NdPr grades of the current Mineral Resource estimate.

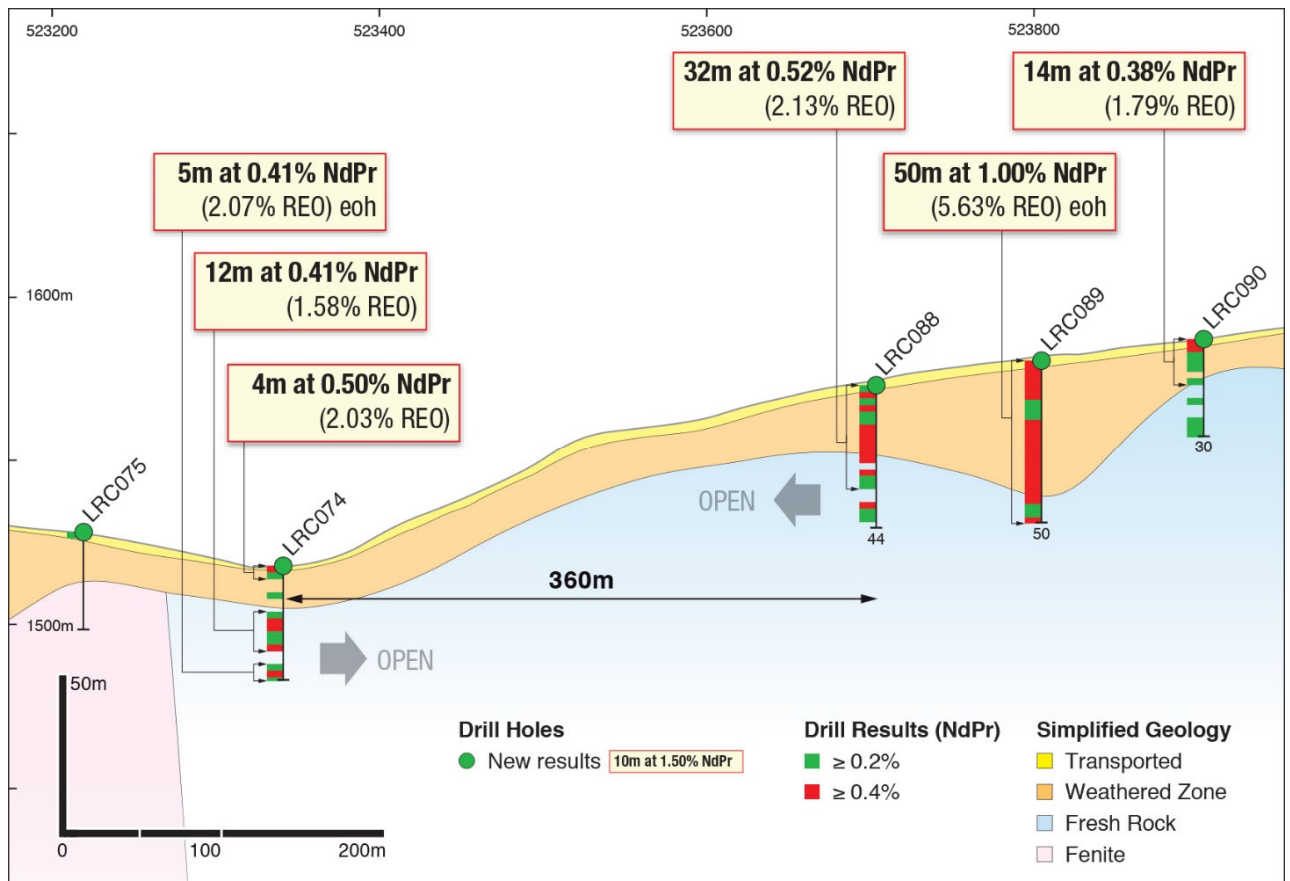
The following plans and sections illustrate the location of the new results with respect to the current Mineral Resource area.

The vertical cross sections following demonstrate the continuous and near surface nature of the high grade blanket of mineralisation within the weathered zone extending from the current Mineral Resource boundary.

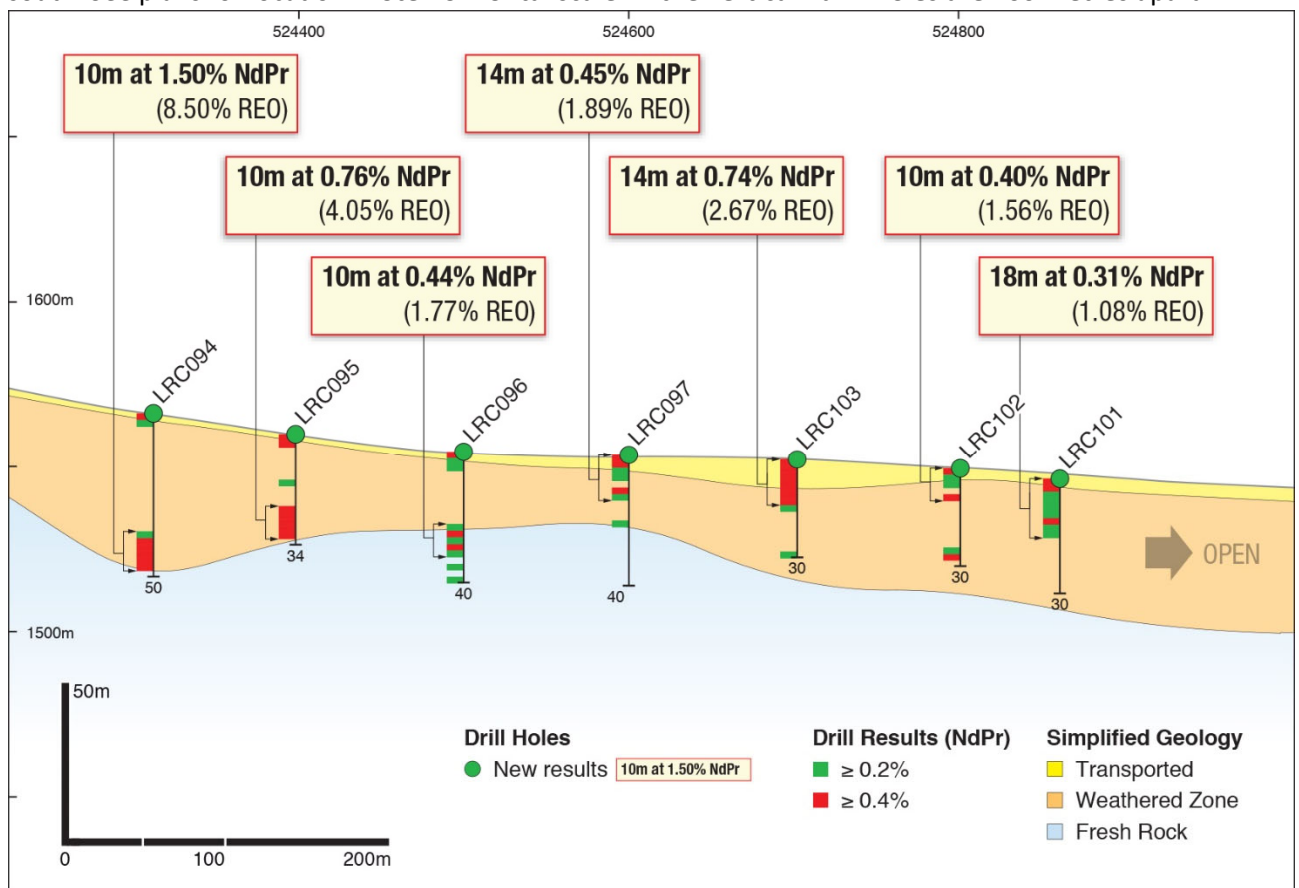


Above: New assay results from section line 8,570,800N show high grade near surface mineralisation continues to the east of the boundary of the current Mineral Resource estimate. See plans for location. **Note horizontal scale 2x the vertical - drill holes are 100 metres apart for all sections.**

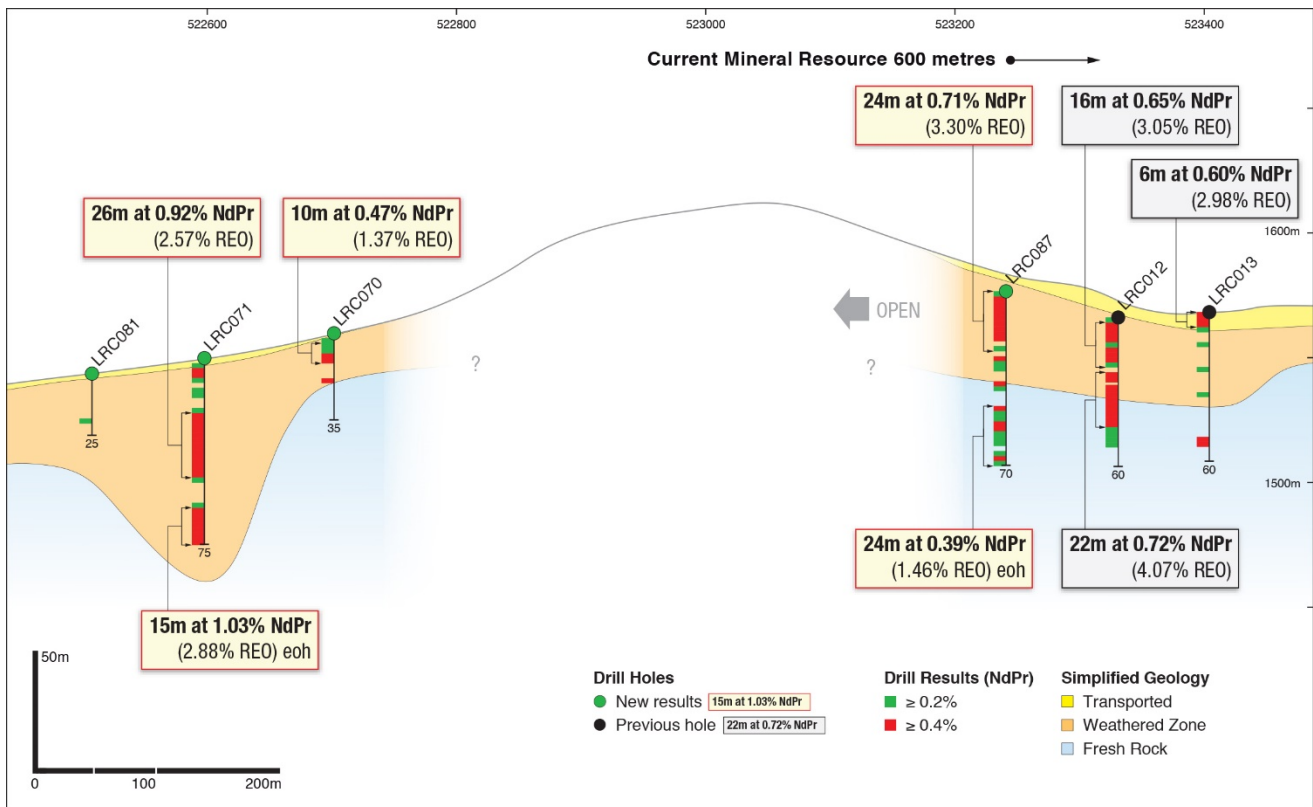
NdPr mineralisation remains open to the south, with high grade intersections on the most southern line drilled to date, as shown in the following sections.



Above: New high grade assay results from western and eastern (below) portions of section line 8,570,600N, the most southerly section drilled to date. Mineralisation remains open for 360m along section and to the south. See plans for location. **Note horizontal scale 2x the vertical - drill holes are 100 metres apart.**



A new zone of deeply weathered mineralisation parallel to the carbonatite boundary and located 1,200 metres west of the current Mineral Resource is identified in the latest results (LRC071). The mineralisation has a particularly high NdPr to rare earth content at 36% NdPr to REO, almost double the typical NdPr:REO ratio of 20% over the central zone at Longonjo.



Above: New zone of mineralisation along the contact of the carbonatite in LRC071 on section line 8,571,000N. Mineralisation is also open to the north and west from LRC087. **Note horizontal scale 2x the vertical - drill holes are 100 metres apart.**

With all drill results now received, the Company has appointed SRK Consulting Perth to complete a revised Mineral Resource estimate for Longonjo. Work has already commenced and is scheduled for completion in February 2019.

The successful delineation of a very large expanded NdPr Mineral Resource estimate would allow the Company to identify and select the most favourable, highest quality mineralisation for initial development studies.

Competent Persons Statement

The information in this report that relates to Geology and Exploration results is based on information compiled and/or reviewed by David Hammond, who is a Member of The Australian Institute of Mining and Metallurgy. David Hammond is the Chief Operating Officer and a Director of the Company. He has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity which he is undertaking to qualify as a Competent Person in terms of the 2012 Edition of the Australian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves. David Hammond consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Competent Persons Statement (continued)

The information in this report that relates to the Mineral Resource estimate for the Longonjo Project is based on information compiled by Dr Heather King who is a member of a 'Recognised Professional Organisation' (RPO) included in a list posted on the ASX website from time to time, specifically the South African Council for Natural Scientific Professions, and Dr King is registered as a Professional Natural Scientist (Pr. Sci. Nat.). Dr King is a full-time employee of Deloitte, consulting to Pensana Metals Ltd. Dr King has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr King consents to the inclusion in the report of matters based on her information in the form and context in which it appears.

Table 1: Longonjo NdPr Project, RC drill intersections at least 4m thick and $\geq 0.20\%$ NdPr lower grade cut. Intersections **> 0.40% NdPr** lower grade cut shown in ***bold italics***

Hole ID	East	North	RL	Hole Depth (m)	From (m)	To (m)	Interval (m)	REO %	NdPr %
LRC068	524,504	8,570,803	1,561	35 <i>(incl. and</i>	0 <i>0</i> <i>24</i>	33 <i>18</i> <i>30</i>	33 <i>18</i> <i>6</i>	5.42 <i>7.18</i> <i>4.44</i>	0.88 <i>1.19</i> <i>0.62)</i>
LRC069	524,598	8,570,801	1,545	40 <i>(incl.</i>	0 <i>0</i> 28	14 <i>6</i> 32	14 <i>6</i> 4	2.48 <i>3.13</i> 1.62	0.54 <i>0.69)</i> 0.47
LRC070	522,702	8,571,000	1,543	35	2	12	10	1.37	0.47
LRC071	522,598	8,571,000	1,530	75 <i>(incl.</i>	2 20 <i>22</i> <i>60</i>	16 50 <i>48</i> <i>75</i>	14 30 <i>26</i> <i>15eoh</i>	0.92 2.37 <i>2.57</i> <i>2.88</i>	0.31 0.84 <i>0.92)</i> <i>1.03</i>
LRC072	522,698	8,570,802	1,528	30	NSI				
LRC073	522,798	8,570,800	1,549	50	24	32	8	0.59	0.25
LRC074	523,342	8,570,649	1,503	35	0 14 30	4 26 35	4 12 5eoh	2.03 1.58 2.07	0.50 0.41 0.41
LRC075	523,220	8,570,606	1,521	30	NSI				
LRC076	523,097	8,570,597	1,522	40	NSI				
LRC077	522,798	8,570,797	1,537	35	NSI				
LRC078	522,902	8,570,802	1,540	40	0 26	4 30	4 4	0.93 0.66	0.34 0.22
LRC079	523,007	8,570,793	1,545	61 <i>(incl. and</i>	<i>0</i> 10 24 <i>24</i> <i>38</i> 50	<i>8</i> 22 44 <i>28</i> <i>42</i> 54	<i>8</i> 12 20 <i>4</i> <i>4</i> 4	<i>1.55</i> 0.87 1.45 <i>2.12</i> <i>2.19</i> 0.62	<i>0.49</i> 0.29 0.47 <i>0.65</i> <i>0.72)</i> 0.21

Hole ID	East	North	RL	Hole Depth (m)	From (m)	To (m)	Interval (m)	REO %	NdPr %
LRC080	523,107	8,570,787	1,545	67	34 44	40 56	6 12	0.90 1.25	0.30 0.44
LRC081	522,508	8,570,996	1,530	25	NSI				
LRC082	522,553	8,571,199	1,547	25	NSI				
LRC083	522,454	8,571,199	1,539	25	NSI				
LRC084	522,353	8,571,199	1,535	45 <i>(incl. and</i>	4 4 28	36 8 34	32 4 6	1.00 1.41 1.27	0.35 0.46 0.48)
LRC085	523,298	8,570,803	1,527	40	0 12	6 26	6 14	1.35 0.90	0.36 0.28
LRC086	523,202	8,570,802	1,539	50	6 22	16 34	10 12	0.78 0.91	0.29 0.30
LRC087	523,241	8,570,955	1,560	70 <i>(incl.</i>	0 2 26 36 46 <i>(incl.</i> 52	24 20 32 40 70 56	24 18 6 4 24eoh 4	3.30 3.93 1.62 1.68 1.46 2.98	0.71 0.85) 0.37 0.44 0.39 0.79)
LRC088	523,704	8,570,608	1,557	44 <i>(incl.</i>	0 12 36	32 24 42	32 12 6	2.13 3.31 1.15	0.52 0.81) 0.31
LRC089	523,805	8,570,613	1,564	50 <i>(incl. and</i>	0 0 18	50 12 44	50eoh 12 26	5.63 6.21 7.21	1.00 1.07 1.27)
LRC090	523,904	8,570,600	1,571	30 <i>(incl.</i>	0 0 24	14 4 30	14 4 6eoh	1.79 2.39 1.84	0.38 0.56) 0.36
LRC091	524,003	8,570,602	1,576	35	0 26	10 30	10 4	1.57 2.27	0.38 0.45
LRC092	524,101	8,570,599	1,570	35	0	12	12	1.38	0.31

Hole ID	East	North	RL	Hole Depth (m)	From (m)	To (m)	Interval (m)	REO %	NdPr %
LRC093	524,199	8,570,601	1,559	30	0	10	10	0.88	0.22
LRC094	524,312	8,570,602	1,551	50	0	4	4	2.35	0.50
					36	48	12	7.25	1.29
				(incl.	38	48	10	8.50	1.50)
LRC095	524,398	8,570,604	1,543	34	0	4	4	2.51	0.57
					22	32	10	4.05	0.76
LRC096	524,500	8,570,606	1,539	40	0	6	6	2.02	0.34
					22	32	10	1.77	0.44
LRC097	524,600	8,570,605	1,542	40	0	14	14	1.89	0.45
				(incl.	0	4	4	3.53	0.73)
LRC098	524,514	8,570,401	1,527	30	0	16	16	2.09	0.44
				(incl.	0	8	8	3.06	0.60)
LRC099	524,601	8,570,396	1,533	31	0	31	31eoh	3.26	0.80
				(incl.	0	28	28	3.45	0.84)
LRC100	524,703	8,570,397	1,532	45	0	8	8	1.37	0.36
LRC101	524,899	8,570,593	1,529	35	0	18	18	1.08	0.31
LRC102	524,801	8,57,0597	1,538	30	0	10	10	1.56	0.40
					24	28	4	1.13	0.32
LRC103	524,702	8,570,599	1,540	30	0	16	16	2.42	0.68
				(incl.	0	14	14	2.67	0.74)
LRC104	524,701	8,570,806	1,547	44	0	8	8	2.01	0.46
				(incl.	0	6	6	2.75	0.55)
					18	30	12	0.96	0.33
LRC105	524,798	8,570,801	1,540	30	0	8	8	1.97	0.42
				(incl.	4	8	4	2.06	0.49)
LRC106	524,980	8,569,680	1,517	30	NSI				
LRC107	525,048	8,569,879	1,517	30	8	12	4	0.70	0.34
LRC108	525,099	8,570,197	1,528	30	0	10	10	2.32	0.59

REO = Total rare earth oxide includes NdPr and is the sum of La_2O_3 , CeO_2 , Pr_6O_{11} , Nd_2O_3 , Sm_2O_3 , Eu_2O_3 , Gd_2O_3 , Tb_4O_7 , Dy_2O_3 , Ho_2O_3 , Er_2O_3 , Tm_2O_3 , Yb_2O_3 , Lu_2O_3 , Y_2O_3 . NdPr = neodymium + praseodymium oxide. eoh = intersection to end of hole. All holes are vertical reverse circulation. Co-ordinate system is WGS84 UTM Zone 33 south. Assays of 2m composite RC samples from vertical drilling by peroxide fusion and ICP analysis, Nagrom laboratories Perth, Western Australia. Maximum of 2m internal subgrade included. NSI= No Significant Intersection.

APPENDIX

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <i>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 sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i> <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>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.</i> 	<ul style="list-style-type: none"> All samples are from vertical reverse circulation (RC) drilling sampled to 2m composites using a 3 tier riffle splitter to obtain approximately 4kg of sample from the whole one metre rig sample for sample preparation. Entire down hole lengths were sampled from surface to end of hole. During RC drilling the drill string is cleaned by flushing with air and the cyclone cleaned regularly. Sampling is carried out under Pensana QAQC protocols and as per industry best practise. RC sample returns are closely monitored, managed and recorded. A reference weight is used to calibrate the weighing scale. Samples are riffle split using a 3 tier splitter which is cleaned between every sample Vertical reverse circulation drilling and a riffle splitter were used to obtain 2m samples of approximately 3 to 4kgs. Samples are prepared (dry, split, pulverise, split) to a 100g pulp for analysis at Analabs laboratories Windhoek, Namibia Samples are assayed at for Ca, Fe, K, Mg, Mn, P Pb, S, Si, Sr, Ti, Zn, Ce, Dy, Er, Eu, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Sm, Ta, Tb, Th, Tm, U, Y, Yb, Al, Ba by peroxide fusion followed by ICP analysis at Nagrom laboratories, Perth, Western Australia. All commercial laboratories used use industry best practise procedures and QAQC checks. Entire hole lengths were submitted for assay.
Drilling techniques	<ul style="list-style-type: none"> <i>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,</i> 	<ul style="list-style-type: none"> Reverse circulation (RC) drilling was completed using a Super rock 100 drill rig with a face sampling hammer button bit of 131mm diameter and 5 metre rods. A 131mm diameter blade RC bit was used in some holes in the weathered zone, generally for around 10 metres.

Criteria	JORC Code explanation	Commentary
	<i>whether core is oriented and if so, by what method, etc).</i>	
Drill sample recovery	<ul style="list-style-type: none"> 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. 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. 	<ul style="list-style-type: none"> RC recoveries were monitored closely, recorded and assessed regularly over the drilling programme. Every 1m sample from the rig was weighed and recorded for moisture content. The weigh scale was calibrated frequently. RC sample weights are compared against expected weights for the drill diameter and geology. Drill pipes and cyclone were flushed and cleaned regularly Some short intervals 1 to 3 metres of reduced sample recovery occur in the soft weathered zone. Data analysis to date has not identified any relationship between recovery and grade. A selection of holes will be twinned by diamond core drilling to investigate any relationship.
Logging	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> RC 1m samples were geological logged by specifically trained geologists for the entire length of all holes. All relevant features such as lithology, mineralogy, weathering, structure, texture, grain-size, alteration, veining style and mineralisation were recorded in the geological log. All logging was quantitative. All RC chip trays were photographed. All holes were logged in full 100%
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc 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. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half 	<ul style="list-style-type: none"> RC drilling only, no core drilling this programme 1m rig samples were riffle split using a 3 tier splitter. All samples were dry or wet samples were sun-dried in a protected environment before sampling. The preparation of samples follows industry practice. This involves oven drying of the full 4kg 2m composite sample, splitting to a representative 1kg sample, pulverising to 85% passing 75 micron and splitting to a 100g sample pulp. Field duplicates, certified reference standards and blanks were inserted at random but on average every 27 samples for each as part of Pensana QAQC protocols as per industry best practise. Laboratories also have and report internal QAQC checks including assay and preparation duplicates Field, preparation and assay lab duplicate results indicate no significant sampling variance

sampling.

- Whether sample sizes are appropriate to the grain size of the material being sampled.
- The sample sizes are considered more than adequate for this disseminated style and grain size of material sampled. Repeatability of assays was good.

Quality of assay data and laboratory tests

- The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
- For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.
- Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.
- The analysis was carried out by an accredited independent assay laboratory.
- Samples are assayed at for Ca, Fe, K, Mg, Mn, P Pb, S, Si, Sr, Ti, Zn, Ce, Dy, Er, Eu, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Sm, Ta, Tb, Th, Tm, U, Y, Yb, Al, Ba by peroxide fusion, hydrochloric leach and followed by ICP analysis at Nagrom laboratories, Perth, Western Australia.
- The assay technique is total.
- Laboratory data only. No geophysical or portable analysis tools were used to determine assay values stored in the database.
- Certified reference materials (CRM's) –standards and blanks - were submitted at random with the field samples on an average of 1 of each type every in 27 field samples basis, as well as the laboratory's standard QAQC procedures.
- Samples were selected periodically and screened tested to ensure pulps are pulverised to the required specifications.
- Analysis of QAQC data results indicates acceptable levels of accuracy and precision

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.
- Significant intersections have been verified by company management.
- No twin holes undertaken at this early stage.
- Field data was logged into an Ocris logging package and uploaded to the main, secure, database in Perth once complete. The data collection package ghas built in validation settings and look-up codes. All field data and assay data was verified and validated upon receipt. The database is managed by an independent and professional database manager offsite
- Data collection and entry procedures are documented and training given to all staff
- Scans of original field data sheets are stored digitally and never altered
- Digital data entry is checked and validated against original field sheets if not entered directly

	<ul style="list-style-type: none"> • <i>Discuss any adjustment to assay data.</i> 	<ul style="list-style-type: none"> • Laboratory assay data for rare earths is received in element form and converted to oxides for the reporting of rare earth results using molecular weight conversion and the oxide states factors: La to La₂O₃ – 1.1728 Ce to CeO₂ – 1.2284 Pr to Pr₆O₁₁ – 1.2082 Nd to Nd₂O₃ – 1.1664 Sm to Sm₂O₃ – 1.1596 Eu to Eu₂O₃ – 1.1579 Gd to Gd₂O₃ – 1.1526 Tb to Tb₄O₇ – 1.1762 Dy to Dy₂O₃ – 1.1477 Ho to Ho₂O₃ – 1.1455 Er to Er₂O₃ – 1.1435 Tm to Tm₂O₃ – 1.1421 Yb to Yb₂O₃ – 1.1387 Lu to Lu₂O₃ – 1.1371 Y to Y₂O₃ – 1.2699 • Intersection grades are reported as REO (the sum of the above oxides) and as NdPr (the sum of Nd₂O₃ and Pr₆O₁₁, which is included in the REO grade)
<i>Location of data points</i>	<ul style="list-style-type: none"> • <i>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.</i> • <i>Specification of the grid system used.</i> • <i>Quality and adequacy of topographic control.</i> 	<ul style="list-style-type: none"> • All sample locations were surveyed using a hand held GPS, accurate to within 3m. Hole collars will be surveyed by a professional surveyor using an RTK DGPS at the end of the programme • Holes are vertical and no down hole survey was completed, the collar set up was checked on every hole by measuring the mast is vertical using a spirit level • The grid system used is WGS84 UTM Zone 33S. All reported coordinates are referenced to this grid. • Topography control is currently by GPS and SRTM radar data. A high precision satellite based topographic survey has been completed and will be used for future reporting of RLs and topography. An RTK DGPS survey has been completed on ground control points to ensure accuracy and precision of the satellite DTM survey
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> • <i>Data spacing for reporting of Exploration Results.</i> • <i>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.</i> • <i>Whether sample compositing has been</i> 	<ul style="list-style-type: none"> • Drill hole spacing is 200m x 100m. Samples are 2m down hole. • Exploration results only being reported. Data spacing is considered sufficient to identify zones of NdPr and REO mineralisation at a reconnaissance level over the area drill tested. Infill drilling will be completed prior to further Mineral Resource estimation.

	<p><i>applied.</i></p> <ul style="list-style-type: none"> • 1m RC drill samples were combined in the field after riffle splitting for a final 2m composite sample for submission to laboratory. • Two metre composites are considered adequate for the resource estimation, variography studies and potential mining techniques for this style of mineralisation
<p><i>Orientation of data in relation to geological structure</i></p>	<ul style="list-style-type: none"> • <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> • <i>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.</i> <ul style="list-style-type: none"> • The high grade NdPr mineralisation at Longonjo takes the form of a thick horizontal blanket of disseminated mineralisation averaging 20m or more in thickness and with good lateral continuity. The vertical drilling and 2m sampling is optimum for this style of mineralisation. • No sampling bias is considered to have been introduced by the drilling orientation.
<p><i>Sample security</i></p>	<ul style="list-style-type: none"> • <i>The measures taken to ensure sample security.</i> <ul style="list-style-type: none"> • Sample security is managed by the Company. After collection in the field the samples are stored at camp in locked sea containers. • A customs officer checks and seals the samples into containers on site before transportation by the Company directly to the preparation laboratory. The preparation laboratory submits the samples to the assay laboratory by international air freight – the samples again being inspected by customs and sealed prior to despatch. • The laboratories audit the samples on arrival and reports any discrepancies back to the Company. No such discrepancies occurred.
<p><i>Audits or reviews</i></p>	<ul style="list-style-type: none"> • <i>The results of any audits or reviews of sampling techniques and data.</i> <ul style="list-style-type: none"> • No external review of the sampling techniques has been carried out. The database is compiled by an independent consultant and is considered by the Company to be of sufficient quality to support the results reported. In addition, from time to time, the Company carries out its own internal data audits.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i> <i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i> 	<ul style="list-style-type: none"> Prospecting License 013/03/09T.P/ANG-M.G.M/2015. Pensana owns an 84% holding in the Project with Ferrangol (10%), an agency of the Angolan government, and other Angolan partners (6%). The concession is in good standing and no known impediments exist.
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <i>Acknowledgment and appraisal of exploration by other parties.</i> 	<ul style="list-style-type: none"> Previous workers in the area include Black Fire Minerals and Cityview Corporation LTD.
<i>Geology</i>	<ul style="list-style-type: none"> <i>Deposit type, geological setting and style of mineralisation.</i> 	<ul style="list-style-type: none"> The Longonjo NdPr deposit is a rare earth enriched carbonatite with particularly high grades occurring within the weathered regolith zone from surface as a result of the dissolution of carbonate minerals and residual enrichment. Some mineralisation also occurs within fresh rock beneath. Mineralisation is disseminated in style. The Longonjo Carbonatite is a sub circular and subvertical explosive volcanic vent (diatreme) approximately 2.6km x 2.4km in diameter. Primary rocktypes include carbonatite lava and magma, extensive mixed carbonatite - fenite breccia and tuffaceous deposits. The iron rich weathered zone that is host to the higher grade mineralisation discovered to date extends over much of the carbonatite.
<i>Drill hole Information</i>	<ul style="list-style-type: none"> <i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> <i>easting and northing of the drill hole collar</i> <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the</i> 	<ul style="list-style-type: none"> Refer to the Table 2 in the body of the text. All holes are vertical

	<ul style="list-style-type: none"> drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. <ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> No material information was excluded.
Data aggregation methods	<ul style="list-style-type: none"> In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 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. 	<ul style="list-style-type: none"> Cut-off grade of 0.20% NdPr oxide applied in reporting of intersections and 0.40% NdPr oxide for high grade 'Highlights'. No upper grade cuts have been applied. Intersections are reported as length weighted averages above the specified cut-off grade. Length weighted grade averages for REO and NdPr are presented Intercepts may include a maximum of 2m internal dilution. No metal equivalent values have been used for the reporting of these exploration results.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and 	<ul style="list-style-type: none"> Geometry of the mineralisation is a sub horizontal blanket, the drill holes are vertical. As such mineralisation is at a high angle to the drill holes. Drill hole intercepts reported can be considered

	<i>only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i>	true thicknesses
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<i>Diagrams</i>	<ul style="list-style-type: none"> • <i>Appropriate maps and sections (with scales) and tabulations of 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.</i> 	<ul style="list-style-type: none"> • Appropriate plans and sections are included in this release.
<i>Balanced reporting</i>	<ul style="list-style-type: none"> • <i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i> 	<ul style="list-style-type: none"> • All new exploration results above the specified cut off grade are reported.
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> • <i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i> 	<ul style="list-style-type: none"> • Previously reported evaluations of the NdPr mineralisation at Longonjo, including the September 2017 Maiden Mineral Resource estimate and drilling programme results are contained within ASX releases
<i>Further work</i>	<ul style="list-style-type: none"> • <i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> 	<ul style="list-style-type: none"> • The reported results are the last 41 drill holes of a 108 hole programme now successfully completed. Drilling is designed to test the entire 2.1km x 2.0km area of the weathered zone at Longonjo as well as possible extensions 700 metres to the south east. Drilling is designed to determine the potential for a globally significant NdPr deposit at Longonjo. A revised Mineral Resource estimate will be completed once all

- *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*

assay results are received. Infill drilling is planned in key areas.

- Appropriate diagrams accompany this release.