9 July 2026

Intercepts over 4% TREO confirm district-scale rare earth potential at Serra Negra

High-grade assay results validate a 1km x 1.5km priority target, with mineralisation remaining open and further historical re-assays pending; initial 20,000m drill program to commence in coming weeks, working toward Maiden MRE in the coming months

HIGHLIGHTS

- **High-grade rare earth element ('REE') mineralisation confirmed over a broad, continuous corridor at Serra Negra, with mineralisation remaining open in multiple directions**
- **First assays from the historical core re-sampling program confirm extensive high-grade REE mineralisation over thick intervals at the Serra Negra Project in Minas Gerais, Brazil**
- **Significant results from re-sampled historic drill core received so far include:**
  - **50m @ 4.0% TREO, within 114m @ 2.3% TREO mineralised zone to EOH in LG42**
  - **22m @ 4.7% TREO, within 84m @ 2.1% TREO mineralised zone to EOH in LG26** (Note 26m of drill core above this intercept, within the high-grade REE mineralised carbonatite, is missing and not available for re-assay. This wide-zone interpretation however is supported by historic core logging and assays).
- **Grades of over 4% TREO in thick intervals and peak individual 1m results over 10% TREO in re-assays to date put Serra Negra REE mineralisation grades in the top tier of carbonatite-hosted deposits globally**
- **High-grade REE mineralisation independently confirmed over at least 900m of strike (historical drill spacing of ~300m apart) indicates strong geological continuity across the central target corridor**
- **These are the first results from only a small portion of the ~8,000m historical re-sampling program. A further 11 holes have been sampled and submitted to the lab to date, with results pending**
- **Oceana has defined a priority 1 km × 1.5 km central target corridor for the Company's initial campaign comprising a 20,000m diamond drill program.**

Oceana Metals Managing Director Mick Wilson said: *"These assays support our view that Serra Negra has the potential to be a world-class rare earths project, with scale, grade and access to infrastructure.*

"These independent laboratory assays confirm the exceptional grades identified during our due diligence, and reinforce our view that Serra Negra has the potential to become one of the most significant undeveloped rare earth systems globally.

"Importantly, these results come from only the first batch of historical re-assays. With around 8,000 metres of historical core available to be sampled, and our 20,000-metre drill program about to commence, we believe we are only beginning to understand the true scale of this system.

"The assays and other geological data we have compiled so far have led us to outline a large central target area measuring 1km by 1.5km which we consider a priority for high-grade REEs, and where we are aiming to establish a Maiden MRE in the coming months.

"The outline of this target area is supported by strong indications of a continuous mineralised corridor hosted in favourable weathered carbonatite lithologies and is in parallel to our strategy to expand our footprint to test district-scale targets arising from our re-assaying, geophysical surveys and further geological observations".

Oceana Metals Limited (**ASX:OCN**) is pleased to announce strong first results from its historical core assaying program at the Serra Negra Rare Earth Project in Minas Gerais, Brazil.

The results confirm the presence of extensive zones of high-grade rare earth element ('REE') mineralisation within the priority central target area and provide strong validation of the geological model developed during Oceana's due diligence review of the project.

Serra Negra's REE mineralisation is hosted within a weathered carbonatite complex — the same broad style of mineralisation that hosts several of the world's largest and highest-grade rare earth deposits. This geological setting is regarded by explorers and investors as favourable for both scale and grade potential.

Upcoming Catalysts

- Additional historical re-assay results from ~8,000m of core — ongoing
- Completion of drone geophysics surveys — July 2026
- Drill mobilisation and program commencement — July–early August 2026
- Continuous drilling results — H2 2026
- Maiden MRE for Serra Negra – In the coming months

The above timetable is indicative only and is subject to change.

Table 1: Intersections to date from Oceana-led historic drill core re-assay

Hole ID	Significant REE Mineralisation[1]	REE Mineralised Zone[2]	Comments
LG42	50m @ 4.0% TREO from 53m	114m @ 2.3% TREO to EOH	Core missing (150-153.25m) and given zero grade in intercept.
LG26	22m @ 4.7% TREO (partial intercept) from 101m	84m @ 2.1% TREO (partial intercept) to EOH	Core missing – (75-101m) within high grade REE zone. Collar to be twinned with new hole.
LG32	1m @ 4.7% TREO 0.4% Nb_2O_5 from 99m (edge of high grade zone)	80m @ 1.0% TREO and 0.2% Nb_2O_5 from 63m	Edge of high grade REE, grading into niobium + REE zone.

Notes:
[1] Cut-off TREO grade 0.5% and maximum 3m internal dilution allowed in zones of significant mineralisation
[2] Cut-off TREO grade 0.1% and maximum 3m internal dilution allowed in REE mineralised zones
EOH = end of hole

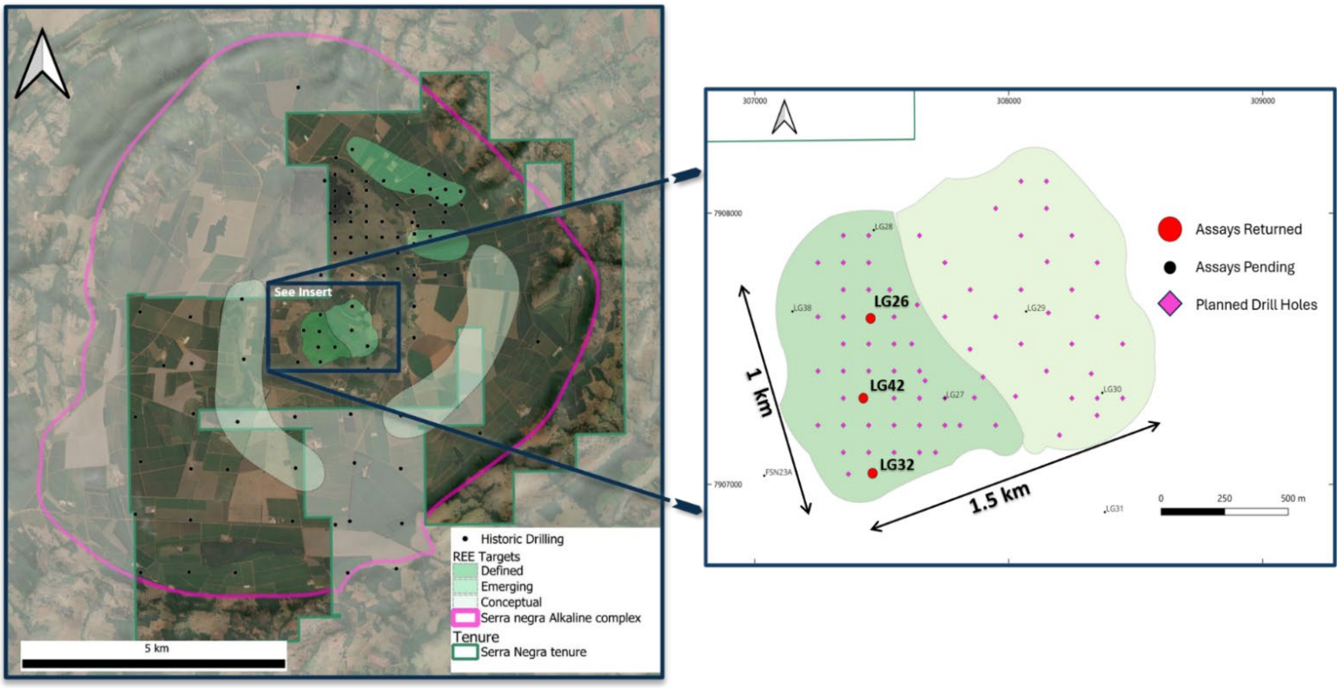

Figure 1: *Serra Negra area map showing defined and emerging REE drilling targets. The insert view highlights the priority central target block (1.0 km × 1.5 km), selected following geological review of historical drilling and due diligence investigations. Existing drill holes and planned drill holes for the initial 20,000m drilling program are shown. The high-grade validated REE intersections received to date form the core of the initial target area for the drilling campaign.*

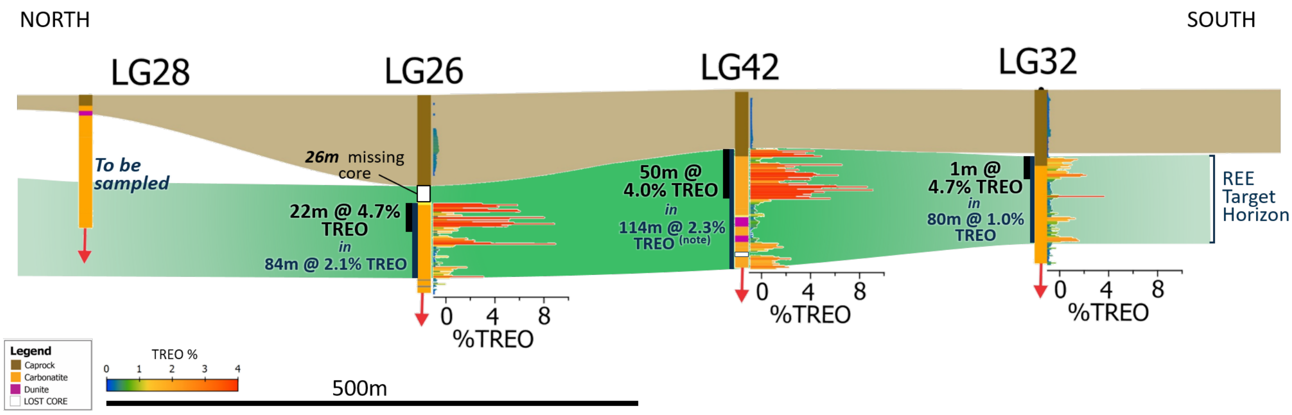

Figure 2: *N–S section showing significant intersections from the first assay results received for the re-sampling project. Elements analysed (ppm): Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Ta, Tb, Th, Tm, U, W, Y, Yb and Zr. TREO calculated as the sum of the individual rare earth oxides. Independent laboratory assays by ALS Brazil using analytical method ME-MS81h.* ***Note:*** *On LG42, a 3m interval of missing core within the REE mineralised zone (external to the significant mineralisation) was assigned a zero grade. On LG26, a 26m interval of missing core lies immediately above the mineralisation, with the REE mineralised zone potentially wider than currently reported in this hole.*

Hole LG42 returned 50m at 4.0% TREO within a continuous 114m zone grading 2.3% TREO to EOH, highlighting both the thickness and grade potential of the mineralised system.

Hole LG26 returned 22m at 4.7% TREO within a broader 84m mineralised interval grading 2.1% TREO to EOH. A 26m section of core immediately above the reported mineralised interval has not been located and was unavailable for re-sampling, and therefore could not be included in the intercept calculation. This missing interval occurs directly adjacent to the mineralised zone and raises the likelihood that the true mineralised thickness may be greater, based on assessment of historical logging and assays.

LG32 is interpreted to be on the edge of the high grade REE mineralised zone, where increasing niobium is being observed coincident with the REE mineralisation. This confirms Oceana's view that varying zonation of REE and niobium mineralisation is expected across the complex.

These results from broad-spaced holes (300m apart) demonstrate strong continuity of thick REE mineralisation across this initial section and reinforce the prospectivity of the central target block selected for the Company's initial 20,000m drilling campaign.

Historic core re-assaying: Importantly, the re-sampled holes define a broad and coherent mineralised corridor extending over 900m across the section shown in Figure 2, with significant intersections occurring within favourable weathered carbonatite lithologies developed within the Serra Negra complex.

The results support the Company's view that the central target area hosts a large-scale and high-grade REE system with potential for expansion through ongoing re-sampling and planned 20,000m drilling.

The vast majority of assays from the re-sampling program are pending, providing considerable scope for additional mineralised zones and new target areas to emerge, as the re-sampling program progresses.

Table 2: List of holes logged and sampled for re-assay to date

Hole ID	Easting	Northing	RL (m)	Dip	Azimuth	End of hole depth (m)	# of Samples Submitted	Assays Received	Assays Pending
LG26	307448	7907617	1158	-90°	0	187.2	142	Y	
LG32	307468	7907037	1163	-90°	0	164.4	164	Y	
LG42	307428	7907317	1161	-90°	0	166.35	166	Y	
L179	309568	7909437	1194	-90°	0	173.95	130		Y
LG31	308378	7906897	1162	-90°	0	153.1	134		Y
U167B	309238	7910297	1203	-90°	0	160.3	132		Y
LG13	307755	7909404	1157	-90°	0	125.4	91		Y
LG28	307468	7907937	1158	-90°	0	126.05	126		Y
FSN30A	306492	7907072	1203	-90°	0	146.35	144		Y
L167	309266	7909481	1177	-90°	0	143.35	90		Y
FSN1A	304021	7907991	1241	-90°	0	120.1	113		Y
R179	309568	7910037	1209	-90°	0	157.2	106		Y
OA167	309223	7909703	1169	-90°	0	127.55	127		Y
X191	309848	7910617	1233	-90°	0	145.3	95		Y

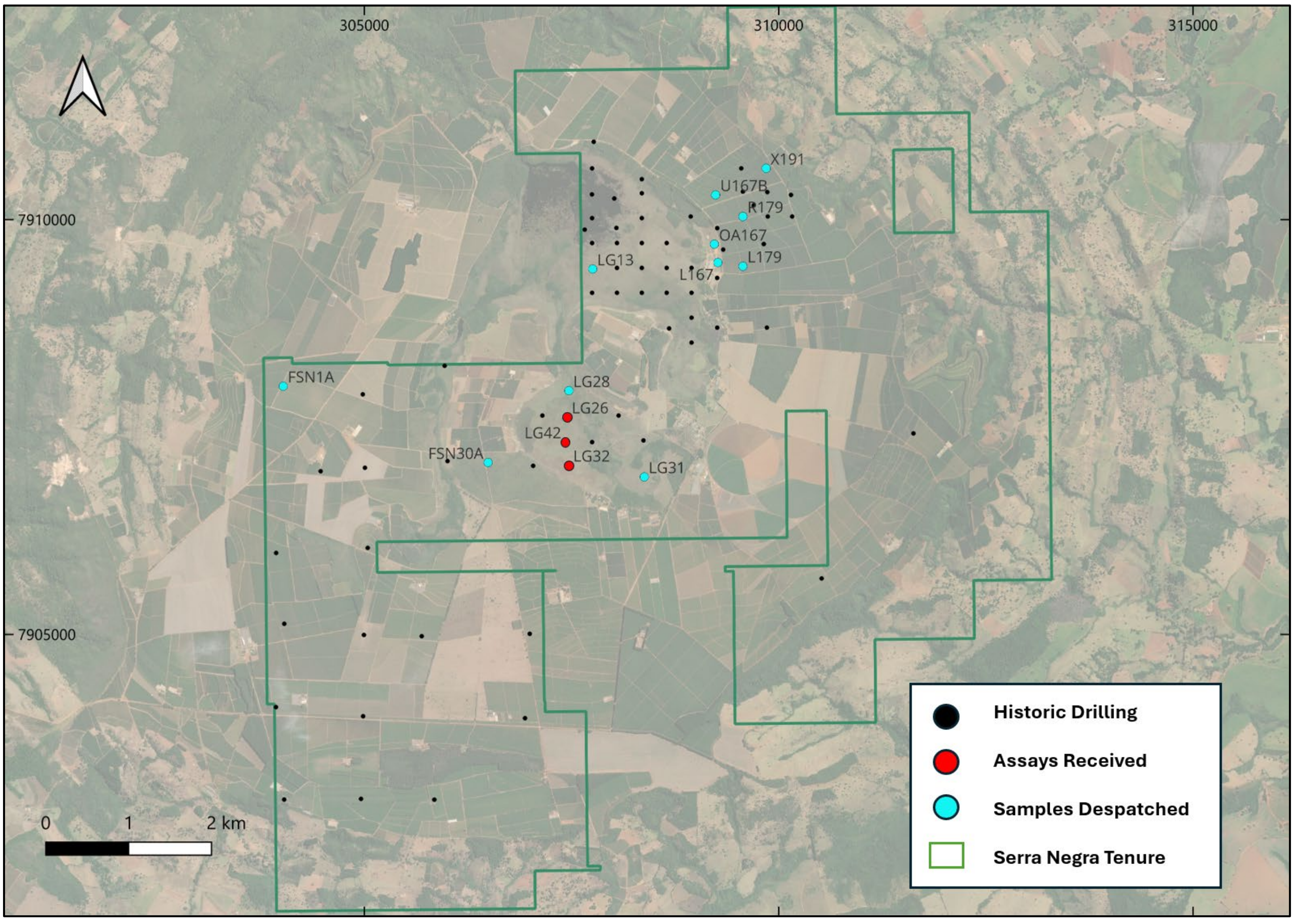

Figure 3: *Map view of Serra Negra tenement area with all historic drill locations, drill holes resampled so far, and collars of holes with assays received.*

Geological Model and Target Definition

A key component of Oceana's evaluation of Serra Negra has been the systematic re-sampling of historical drill core to validate prospectivity and generate a modern analytical dataset across the project area.

Historical core from multiple drilling campaigns has been relocated to a modern logging and sampling facility, where it is being re-logged, photographed, sampled and analysed using modern analytical methods (refer Figure 4). The program is providing an important opportunity to verify historical assay results and improve the Company's geological understanding of the project, to define and refine exploration targeting ahead of the initial 20,000m drill campaign.

A review of historical drilling, geological logging and assay datasets completed during Oceana's due diligence evaluation identified a coherent mineralised target zone within the centre of the Serra Negra Project. This target area hosts several of the strongest historical drill intersections and forms the basis of the Company's initial 20,000m drill program.

Portable XRF analysis completed during the Company's due diligence investigations identified increasing rare earth enrichment towards the base of several historical drill holes within the priority target area. While portable XRF data is not considered sufficiently reliable for reporting exploration results, these combinations of observations provide an important vector towards potentially higher-grade portions of the carbonatite system and have contributed to development of the Company's geological model and exploration plans (refer OCN's ASX announcement dated 28 April 2026 - Serra Negra Acquisition.)

Figure 4. *Historical drill core being relocated and processed as part of Oceana's ongoing re-sampling program. Historical drill core is being systematically re-logged, photographed and re-sampled to validate previous results and support development of a modern geological and geochemical database for the Serra Negra Project.*

The geological review has enabled Oceana to prioritise a central target block that combines independently validated high-grade REE mineralisation, favourable host lithologies and evidence of continuity across a broad mineralised area. Historical drilling within the area remains relatively sparse (300m spacing between drill collars) and was not designed to systematically define the limits of the REE system, presenting a significant opportunity for the upcoming 20,000m drilling campaign to expand the known extent of REE mineralisation and further test the Company's evolving geological model.

While the current drilling campaign will focus on expanding this central mineralised target area, the Company believes significant exploration upside remains across the broader Serra Negra carbonatite complex. Importantly, the re-sampling program provides an opportunity to build a regional perspective and highlight areas that were never assayed for REE in the past. As additional re-sampling results are received and incorporated into the geological model, Oceana expects further target refinement and believes there remains strong potential for additional REE and niobium targets to emerge beyond the current priority area.

Initial 20,000m Drill Program

Oceana's initial drilling campaign is scheduled to commence in coming weeks and will comprise approximately 20,000 metres of drilling focused initially on the priority central target block measuring approximately 1.0 km × 1.5 km.

The program has been designed to validate historical drilling results and to expand the known mineralised corridor, while testing extensions to the favourable lithological units interpreted to control REE mineralisation. Oceana expects the program to significantly improve the Company's understanding of the geological controls on mineralisation and generate a modern dataset capable of supporting future resource estimation studies.

Initial drilling will focus on step-out holes around the strongest validated intersections reported in this announcement, while also testing areas where the geological model suggests continuation of the mineralised horizon beyond the limits of historical drilling.

The current drill plan focuses on the central mineralised area, where historical drilling, re-sampling results and geological interpretation collectively indicate the highest probability of rapidly expanding the known REE system. However, with approximately 8,000m of historical core re-sampling underway, the Company believes significant exploration upside remains across the broader Serra Negra Project area. Additional target areas may be incorporated into the drilling program as new assay results highlight new prospective areas at Serra Negra.

The drill program has been designed as a progressive ramp-up campaign, enabling Oceana to rapidly commence drilling while retaining flexibility to incorporate ongoing geological observations into drill planning. Operations will initially commence with a small fleet of portable rigs capable of efficiently testing priority targets with minimal ground disturbance and a relatively small operating footprint. Drilling capacity is expected to increase as the program advances through the introduction of track-mounted rigs, providing greater productivity and broader access across the project area.

The Company believes this strategy provides the most efficient pathway to advance Serra Negra, balancing operational flexibility, exploration effectiveness and responsible land access practices. By progressively increasing drilling activity, Oceana expects to maximise the geological information gained during the early stages of the program while maintaining the flexibility to rapidly follow up encouraging results as they emerge.

Program Execution Milestones

Significant progress has been made across activities required to support the commencement of drilling at Serra Negra.

Drilling Contract Awarded: The Company has awarded a drilling contract for the initial phase of drilling and remains on schedule to commence drilling in the coming weeks.

Landowner Engagement: The Company has initiated and progressed discussions with local landowners across the planned drilling area. Landowner engagement has been positive, with priority access areas secured and additional agreements progressing well.

Environmental Permitting: Environmental studies and regulatory applications are progressing in accordance with the planned drilling schedule. The Company has received environmental approvals for Phase 1 drilling. Permitting applications for follow-up campaigns are progressing.

Figure 5. *Oceana Metals personnel meeting with local landowners. The Company has commenced engagement with landowners across the proposed drilling area. Access discussions have been positive, with agreements secured over priority areas targeted in the initial drilling program. Local employment and economic opportunities are expected to increase as exploration activities advance.*

Geophysical Surveys Underway

To further refine district-scale drill targeting and improve the geological understanding of the project area, Oceana has commenced a high-resolution drone geophysics program (refer Figure 6). Surveys commenced on 29 June 2026 and are expected to be completed ahead of drill mobilisation.

The program comprises high-resolution LiDAR surveying, to provide a detailed digital elevation model for the project, which is 60% complete and is being followed by a high-resolution drone magnetic survey that commenced this week. These datasets will be integrated into the evolving 3D geological model of Serra Negra.

The LiDAR and drone mag surveys are being undertaken by Brazil-based Avant Geofisica over the entire Serra Negra tenement package (5,810 Ha). The drone mag is being completed at 50m north-south line spacing (with 500m west-east tie line spacing).

The results will complement geological mapping, the structural interpretation, and assist in refining target generation and drill planning.

Figure 6. *Drone geophysical surveys underway at Serra Negra. Drone-based geophysical surveys commenced on 29 June 2026. The program comprises high-resolution LiDAR surveying followed by drone magnetic surveying across the priority target areas. Data will be integrated with geological and drilling datasets to refine targeting ahead of the initial drilling campaign.*

The first independent assays from the re-sampling program validate Oceana's acquisition thesis for Serra Negra, confirming extensive, high-grade rare earth mineralisation across a broad, continuous corridor. With the majority of historical drilling still to be re-assayed, and a fully funded 20,000m initial drill program about to commence, the Company believes it is entering a period of sustained news flow and significant potential for value creation.

Corporate and Next Steps

The Company continues to strengthen its Brazilian Operations Team ahead of drilling, with the recently appointed Exploration Manager expected to commence in the last week of July 2026.

The majority of conditions precedent for completion of the Company's acquisition of the Serra Negra Project have been satisfied, including substantial completion of Oceana's due diligence on Songeo, the Vendors and the Project. Both parties and their Brazilian legal representatives are working on satisfying the remaining conditions precedent, including formal responses from ANM, which are mostly procedural and expected to be resolved and received in the near term. Refer to the Company's ASX announcement dated 28 April 2026 for further details regarding the acquisition and conditions precedent.

Table 3: Upcoming Milestones

Milestone	Timing
Additional re-sampling assay results	Ongoing
Completion of drone magnetics surveys	July 2026
Final drill planning and targeting for Phase 1 drilling	July 2026
Exploration Manager commencement	Late July 2026
Drill mobilisation	Early August 2026
Commencement of drill program	Early August 2026
Ongoing drilling results	H2 2026
Maiden MRE for Serra Negra	In the coming months

The above timetable is indicative only and is subject to change.

Authorised for release by the Board of Oceana Metals Ltd.

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Competent Person Statement

The information in this announcement that relates to Exploration Results at the Serra Negra Project is based on, and fairly represents, information and supporting documentation prepared by Mr Michael Wilson, Managing Director of Oceana, who is a Member of the Australian Institute of Mining and Metallurgy. Mr Wilson has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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' ("JORC Code"). Mr Wilson holds performance rights in Oceana. In addition, subject to shareholders approving the relevant resolutions at the general meeting of shareholders on 14 July 2026, Mr Wilson is expected to be issued shares and further performance rights. Mr Wilson consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

Forward Looking Statements

This announcement may contain certain forward-looking statements and projections, including statements regarding Oceana's plans, forecasts and projections with respect to its mineral properties and exploration programs. Although the forward-looking statements contained in this release reflect management's current beliefs based upon information currently available to management and based upon what management believes to be reasonable assumptions, such forward looking statements/projections are estimates for discussion purposes only and should not be relied upon. They are not guarantees of future performance and involve known and unknown risks, uncertainties and other factors many of which are beyond the control of the Company.

The forward-looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved. For example, there can be no assurance that Oceana will be able to confirm the presence of Mineral Resources or Ore Reserves, that Oceana's plans for development of its mineral properties will proceed, that any mineralisation will prove to be economic, or that a mine will be successfully developed on any of Oceana's mineral properties. The performance of Oceana may be influenced by a number of factors which are outside the control of the Company, its directors, staff or contractors.

The Company does not make any representations and provides no warranties concerning the accuracy of the projections, and disclaims any obligation to update or revise any forward-looking statements/projections based on new information, future events or otherwise except to the extent required by applicable laws.

Appendix 1: Re-Assay Results

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG26	6	7	1	0.02	654.7	13.2	7.0	6.3	18.7	2.4	287.3	0.9	208.8	59.9	31.7	2.8	1.0	71.1	**0.14**	0.03	20
LG26	7	8	1	0.02	597.0	13.0	5.9	6.3	17.2	2.4	255.7	0.8	193.6	55.0	28.9	2.6	0.9	68.6	**0.12**	0.03	20
LG26	16	17	1	0.02	819.3	13.7	5.6	7.3	20.3	2.2	308.4	0.6	232.1	67.4	34.8	2.9	0.7	57.1	**0.16**	0.03	19
LG26	17	18	1	0.02	788.6	13.7	5.6	6.8	20.3	2.2	299.1	0.6	227.4	64.4	34.2	2.9	0.8	57.1	**0.15**	0.03	19
LG26	30	31	1	0.03	1184.2	20.7	8.8	10.8	29.7	3.5	418.7	1.0	312.6	89.5	48.2	4.3	1.2	94.0	**0.22**	0.04	18
LG26	31	32	1	0.03	1461.8	23.5	10.2	12.2	35.5	4.1	521.9	1.2	367.4	109.2	55.4	4.7	1.3	104.1	**0.27**	0.05	18
LG26	32	33	1	0.04	1535.5	23.4	10.2	12.4	34.6	3.9	565.3	1.2	384.9	114.8	55.2	4.7	1.4	106.7	**0.29**	0.05	18
LG26	33	34	1	0.04	1590.8	22.2	9.0	12.2	33.1	3.9	587.6	1.1	391.9	116.0	56.6	4.7	1.3	96.5	**0.29**	0.05	17
LG26	34	35	1	0.04	1658.3	21.7	9.5	12.6	34.3	3.6	640.3	1.1	412.9	125.0	57.2	4.8	1.2	94.0	**0.31**	0.06	17
LG26	35	36	1	0.04	1646.1	20.3	8.2	12.3	33.0	3.3	652.1	1.1	404.7	123.2	55.8	4.5	1.1	82.5	**0.30**	0.06	17
LG26	36	37	1	0.04	1707.5	22.3	8.2	12.5	33.2	3.6	674.4	0.9	417.6	126.9	57.7	4.8	1.2	87.6	**0.32**	0.06	17
LG26	37	38	1	0.05	1830.3	23.5	9.1	13.4	35.8	3.8	761.1	1.2	442.1	136.5	61.9	5.1	1.2	95.2	**0.34**	0.06	17
LG26	38	39	1	0.05	2008.4	24.1	9.4	15.3	37.9	3.9	967.6	1.2	503.9	160.7	68.5	5.4	1.4	99.1	**0.39**	0.07	17
LG26	39	40	1	0.05	2002.3	22.8	9.3	14.5	35.5	3.8	1014.5	1.1	516.7	164.3	67.0	5.0	1.3	92.7	**0.40**	0.07	17
LG26	40	41	1	0.05	1990.0	23.5	9.8	13.9	34.5	3.8	1006.3	1.3	501.6	160.7	65.9	4.9	1.3	95.2	**0.39**	0.07	17
LG26	41	42	1	0.06	2112.8	23.2	10.2	15.1	35.5	3.9	1121.2	1.1	537.7	176.4	68.3	5.2	1.4	97.8	**0.42**	0.07	17
LG26	42	43	1	0.06	2033.0	20.7	9.0	13.9	33.4	3.5	1121.2	1.0	530.7	171.6	65.9	4.5	1.2	87.6	**0.41**	0.07	17
LG26	43	44	1	0.05	2088.3	20.5	9.1	14.0	33.2	3.5	1184.5	1.1	552.9	180.6	69.0	4.8	1.2	85.1	**0.42**	0.08	17
LG26	44	45	1	0.05	2119.0	20.8	9.1	15.1	34.5	3.4	1196.3	1.3	558.7	183.0	69.3	4.7	1.3	88.9	**0.43**	0.08	17
LG26	45	46	1	0.05	2033.0	19.6	9.0	14.4	32.4	3.5	1190.4	1.1	541.2	175.8	64.6	4.3	1.3	87.6	**0.42**	0.07	17
LG26	46	47	1	0.05	2198.8	20.0	9.0	13.7	32.8	3.6	1295.9	1.3	575.0	189.1	69.8	4.6	1.3	88.9	**0.45**	0.08	17
LG26	47	48	1	0.05	2241.8	19.1	9.9	15.1	33.4	3.5	1413.2	1.3	610.0	201.2	70.4	4.4	1.4	92.7	**0.47**	0.08	17
LG26	48	49	1	0.06	2057.6	17.7	9.0	13.2	32.4	3.5	1342.9	1.1	568.0	202.4	68.5	3.6	1.3	91.4	**0.44**	0.08	17
LG26	49	50	1	0.05	2155.8	18.9	9.0	14.4	31.7	3.3	1419.1	1.2	577.4	202.4	63.9	3.8	1.4	90.2	**0.46**	0.08	17
LG26	50	51	1	0.05	2377.0	20.1	9.8	14.9	33.7	3.4	1471.9	1.4	597.2	212.6	68.1	3.9	1.3	94.0	**0.49**	0.08	16
LG26	51	52	1	0.05	2370.8	16.6	10.2	13.7	32.2	3.3	1524.6	1.3	601.9	218.1	64.9	3.6	1.3	96.5	**0.50**	0.08	17
LG26	52	53	1	0.05	2125.1	16.2	7.7	11.2	26.4	3.1	1360.4	1.0	517.9	190.3	56.4	3.0	1.2	81.3	**0.44**	0.07	16
LG26	53	54	1	0.05	1443.4	15.7	8.6	12.0	26.6	3.3	1548.1	1.1	558.7	208.4	55.9	3.2	1.1	82.5	**0.40**	0.08	19
LG26	54	55	1	0.05	981.5	11.7	6.9	9.3	21.0	2.5	1389.8	0.9	488.7	181.2	46.6	2.4	1.0	68.6	**0.32**	0.07	21
LG26	55	56	1	0.04	767.8	9.0	5.5	7.1	15.9	1.9	982.8	0.9	345.3	129.3	33.7	1.7	0.9	53.3	**0.24**	0.05	20
LG26	56	57	1	0.04	1120.3	11.2	6.6	8.2	18.2	2.2	1202.1	1.2	422.2	157.1	40.1	2.2	1.1	63.5	**0.31**	0.06	19
LG26	57	58	1	0.04	714.9	10.1	5.9	7.3	15.9	2.0	1202.1	1.1	401.2	155.3	37.1	1.8	1.0	59.7	**0.26**	0.06	21
LG26	58	59	1	0.04	1081.0	10.0	6.3	7.9	17.4	2.1	1378.0	1.0	458.4	178.2	41.9	2.0	0.9	59.7	**0.32**	0.06	20
LG26	59	60	1	0.04	968.0	7.5	4.6	5.7	12.2	1.6	1001.6	0.8	335.9	127.5	30.3	1.5	0.9	47.0	**0.25**	0.05	18
LG26	60	61	1	0.04	830.4	6.8	4.2	5.6	11.8	1.5	1036.8	0.7	338.3	131.7	26.7	1.4	0.7	41.9	**0.24**	0.05	19
LG26	61	62	1	0.04	928.7	7.7	5.3	5.8	12.9	1.6	1290.1	0.9	411.7	159.5	33.3	1.4	0.8	50.8	**0.29**	0.06	20
LG26	62	63	1	0.04	885.7	8.4	5.3	6.1	13.4	1.6	1419.1	0.9	445.6	176.4	35.9	1.5	0.8	52.1	**0.31**	0.06	20
LG26	63	64	1	0.04	1076.1	8.5	5.3	6.4	12.7	1.7	1278.4	0.9	407.1	159.5	33.7	1.5	0.9	49.5	**0.30**	0.06	19
LG26	64	65	1	0.04	965.5	6.9	3.9	4.6	9.5	1.4	1040.3	0.7	323.1	129.9	25.9	1.2	0.7	40.6	**0.26**	0.05	18
LG26	65	66	1	0.04	1087.1	6.3	4.1	4.3	9.0	1.4	1030.9	0.7	324.3	129.9	23.2	1.1	0.7	41.9	**0.27**	0.05	17
LG26	66	67	1	0.04	953.2	6.2	4.1	3.9	9.1	1.5	1040.3	0.6	312.6	129.9	22.1	1.2	0.6	39.4	**0.25**	0.04	18
LG26	67	68	1	0.04	869.7	5.7	3.8	3.4	7.4	1.3	979.3	0.6	268.3	115.5	18.1	1.1	0.6	35.6	**0.23**	0.04	17
LG26	68	69	1	0.04	707.6	4.8	3.5	3.0	6.8	1.2	852.6	0.6	258.9	109.1	16.2	0.9	0.6	34.3	**0.20**	0.04	18

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG26	69	70	1	0.04	783.7	5.2	3.4	2.3	6.0	1.0	805.7	0.5	218.7	97.7	14.3	0.8	0.5	31.7	**0.20**	0.03	16
LG26	70	71	1	0.04	829.2	4.5	2.9	2.1	5.4	1.0	689.6	0.5	170.3	77.2	10.7	0.9	0.4	29.2	**0.18**	0.03	14
LG26	71	72	1	0.03	597.0	4.4	2.9	1.3	4.1	1.0	349.5	0.5	87.7	38.3	7.4	0.6	0.5	27.9	**0.11**	0.01	11
LG26	72	73	1	0.02	523.3	4.1	3.0	1.4	3.7	1.0	282.6	0.5	70.5	30.6	5.8	0.6	0.5	30.5	**0.10**	0.01	11
LG26	73	74	1	0.03	616.7	3.8	2.5	1.6	4.1	0.9	349.5	0.5	88.8	36.6	6.7	0.6	0.4	26.7	**0.11**	0.01	11
LG26	74	75	1	0.03	718.6	4.1	2.4	1.7	3.9	1.0	424.6	0.3	105.0	45.5	8.6	0.7	0.4	26.7	**0.13**	0.02	11
LG26	**75**	**101**	**26**	**Missing drill core**																	
LG26	101	102	1	0.03	19408.7	23.2	3.2	77.1	127.9	2.3	12959.4	0.1	4980.5	1860.6	473.1	8.5	0.2	55.9	**4.00**	0.69	17
LG26	102	103	1	0.03	33289.6	36.0	5.3	122.7	200.6	3.7	22928.2	0.1	8409.7	3093.0	722.4	12.9	0.3	83.8	**6.89**	1.16	17
LG26	103	104	1	0.13	24936.5	25.2	3.4	83.1	136.6	2.5	17826.6	0.0	5902.0	2289.5	506.7	8.6	0.3	57.1	**5.18**	0.82	16
LG26	104	105	1	0.08	26164.9	60.6	9.8	160.9	285.8	6.7	14718.6	0.3	8153.1	2790.9	851.1	21.5	0.8	166.4	**5.34**	1.10	20
LG26	105	106	1	0.05	11706.7	35.3	5.3	70.9	156.8	3.9	8162.7	0.1	2741.0	1035.4	316.6	12.3	0.5	96.5	**2.43**	0.38	16
LG26	106	107	1	0.05	21558.4	91.1	13.0	182.4	401.1	9.5	12959.4	0.3	6356.9	2132.5	752.6	32.3	0.9	231.1	**4.47**	0.86	19
LG26	107	108	1	0.06	34026.7	102.4	14.1	221.2	457.6	10.3	19351.2	0.3	10124.4	3479.6	1072.6	36.1	1.0	247.6	**6.91**	1.37	20
LG26	108	109	1	0.20	34149.5	173.3	39.3	188.2	381.5	23.7	22107.3	1.3	9144.6	3298.4	926.5	41.5	3.4	666.7	**7.11**	1.27	17
LG26	109	110	1	0.06	2972.7	71.0	21.2	25.8	77.1	11.3	2175.5	1.0	751.2	269.4	97.3	13.5	1.9	340.3	**0.68**	0.11	15
LG26	110	111	1	0.05	7898.6	65.9	19.8	37.4	87.7	10.6	5242.4	0.8	1942.1	723.7	189.0	12.5	1.9	316.2	**1.65**	0.27	16
LG26	111	112	1	0.05	4950.5	78.6	22.9	40.1	99.6	12.0	3307.3	1.1	1230.6	445.8	154.2	15.2	2.1	346.7	**1.07**	0.18	16
LG26	112	113	1	0.07	11055.6	58.2	16.5	52.2	115.3	8.8	8045.4	0.8	2542.8	961.7	254.0	13.6	1.6	243.8	**2.34**	0.36	15
LG26	113	114	1	0.05	1885.6	24.3	8.8	19.3	47.0	3.8	954.7	0.5	627.5	196.9	85.3	5.6	0.8	107.9	**0.40**	0.09	21
LG26	114	115	1	0.48	44468.1	88.7	14.9	220.0	390.7	9.7	27795.4	0.3	12305.5	4289.1	1158.4	28.5	1.0	241.3	**9.10**	1.67	18
LG26	115	116	1	0.57	30218.6	72.3	12.0	160.9	289.3	8.1	19409.8	0.3	8316.4	2911.8	822.2	23.0	1.0	198.1	**6.24**	1.13	18
LG26	116	117	1	0.08	5478.7	12.2	3.2	21.3	39.5	1.8	3858.5	0.3	1265.5	483.3	115.8	3.4	0.4	43.2	**1.13**	0.18	15
LG26	117	118	1	0.35	29481.6	63.8	12.7	134.3	246.7	7.8	20113.5	0.4	7628.3	2778.9	721.3	19.8	1.0	200.6	**6.14**	1.05	17
LG26	118	119	1	0.08	15477.8	38.9	7.3	82.8	163.7	4.7	10226.8	0.2	3930.8	1510.3	414.0	12.6	0.5	114.3	**3.20**	0.55	17
LG26	119	120	1	0.10	32061.2	41.5	7.7	96.3	176.9	5.0	23045.5	0.4	7068.4	2766.8	534.6	13.0	0.7	129.5	**6.59**	0.99	15
LG26	120	121	1	0.41	48030.4	59.2	10.4	149.4	266.3	6.5	34480.3	0.3	10789.2	4204.5	841.9	19.9	0.8	172.7	**9.90**	1.51	15
LG26	121	122	1	0.05	27516.2	39.3	6.3	101.3	182.7	4.4	17943.8	0.2	6671.8	2609.7	542.7	13.1	0.4	105.4	**5.57**	0.93	17
LG26	122	123	1	0.02	29850.1	47.4	6.6	115.8	216.1	4.9	20699.9	0.1	6671.8	2658.0	564.7	16.3	0.6	116.8	**6.10**	0.94	15
LG26	123	124	1	0.12	10441.4	57.3	11.8	73.6	148.1	7.3	6051.6	0.5	3032.6	1054.8	344.4	15.1	0.9	189.2	**2.14**	0.42	19
LG26	124	125	1	0.05	4127.4	34.4	8.7	36.8	78.4	5.1	2333.9	0.3	1300.5	431.3	164.1	8.2	0.8	133.3	**0.87**	0.18	20
LG26	125	126	1	0.05	8230.3	41.9	8.1	57.1	115.3	5.3	4820.2	0.3	2327.0	816.7	258.6	11.0	0.7	137.1	**1.68**	0.32	19
LG26	126	127	1	0.05	9864.1	33.7	6.1	57.0	115.0	4.1	6098.6	0.2	2612.7	940.0	278.3	10.2	0.5	102.9	**2.01**	0.36	18
LG26	127	128	1	0.04	1572.4	42.6	14.5	15.1	39.0	7.3	871.4	0.6	456.1	156.5	60.8	6.8	1.2	203.2	**0.34**	0.07	18
LG26	128	129	1	0.03	7223.0	49.6	11.2	59.3	125.6	6.8	4304.2	0.5	2093.7	722.5	256.3	12.3	0.9	171.4	**1.50**	0.29	19
LG26	129	130	1	0.04	1492.5	62.0	18.0	24.8	69.7	10.5	756.5	0.5	480.6	152.8	79.7	10.9	1.5	273.0	**0.34**	0.07	18
LG26	130	131	1	0.02	2555.1	43.6	10.5	31.5	72.6	6.4	1565.7	0.3	764.0	247.7	121.2	9.0	0.8	168.9	**0.56**	0.11	18
LG26	131	132	1	0.09	2155.8	26.6	6.9	25.6	56.9	3.8	1113.0	0.3	687.0	218.7	101.7	6.1	0.5	101.6	**0.45**	0.09	20
LG26	132	133	1	0.04	6080.6	29.8	5.1	44.7	97.4	3.5	3882.0	0.1	1522.2	558.2	185.0	9.1	0.4	86.4	**1.25**	0.21	17
LG26	133	134	1	0.04	7161.6	47.9	8.0	58.0	129.1	5.6	4691.2	0.3	1842.9	654.8	226.7	13.5	0.7	135.9	**1.50**	0.26	17
LG26	134	135	1	0.16	13635.2	40.9	7.1	64.7	138.9	4.7	9194.8	0.2	3277.6	1155.0	291.1	13.3	0.4	101.6	**2.79**	0.45	16
LG26	135	136	1	0.06	12406.8	68.5	10.6	85.8	206.9	7.3	8244.8	0.4	3137.6	1063.2	339.8	21.6	0.7	160.0	**2.58**	0.43	16
LG26	136	137	1	0.03	16522.0	93.7	14.6	97.4	231.7	10.2	11165.1	0.5	3942.4	1353.2	391.9	27.5	1.2	224.8	**3.41**	0.54	16

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG26	137	138	1	0.01	16153.5	58.3	9.5	71.3	159.1	6.6	10684.2	0.2	4059.1	1377.3	349.0	16.8	0.7	149.8	**3.31**	0.55	16
LG26	138	139	1	0.01	23032.5	65.0	10.3	90.2	201.7	7.2	15950.1	0.2	5365.4	1860.6	427.9	19.9	0.7	161.3	**4.72**	0.73	15
LG26	139	140	1	0.02	61420.0	59.2	8.8	136.1	260.5	6.0	47850.2	0.3	12655.4	4857.0	760.7	22.2	0.6	134.6	**12.82**	1.76	14
LG26	140	141	1	0.04	8758.5	34.3	7.3	47.0	97.2	4.6	5465.2	0.3	2402.8	778.1	229.0	9.6	0.6	107.9	**1.79**	0.32	18
LG26	141	142	1	0.04	8058.3	46.1	10.5	60.0	133.7	6.1	5043.0	0.4	2274.5	722.5	260.9	13.1	0.9	143.5	**1.68**	0.31	18
LG26	142	143	1	0.10	1265.3	11.6	3.8	8.3	20.7	1.9	757.6	0.4	352.3	111.9	37.3	2.5	0.4	44.4	**0.26**	0.05	18
LG26	143	144	1	0.11	1345.1	17.1	3.9	13.7	33.3	2.3	696.6	0.3	447.9	132.3	53.6	4.2	0.3	55.9	**0.28**	0.06	21
LG26	144	145	1	0.06	2370.8	17.3	4.2	15.3	36.3	2.3	1554.0	0.2	641.5	209.0	64.5	4.5	0.3	58.4	**0.50**	0.09	17
LG26	145	146	1	0.08	2149.7	13.8	3.7	11.2	25.4	2.2	1360.4	0.4	559.9	188.5	48.9	3.1	0.5	49.5	**0.44**	0.08	17
LG26	146	147	1	0.04	1296.0	17.1	4.9	13.0	31.2	2.6	794.0	0.2	402.4	120.8	51.7	4.1	0.4	62.2	**0.28**	0.05	19
LG26	147	148	1	0.14	1627.6	13.0	2.9	15.3	33.8	1.7	737.7	0.2	600.7	171.6	69.0	3.2	0.3	41.9	**0.33**	0.08	23
LG26	148	149	1	0.06	679.3	7.5	2.1	5.7	13.6	1.2	365.9	0.2	213.5	64.4	26.2	1.7	0.2	29.2	**0.14**	0.03	20
LG26	149	150	1	0.02	1207.5	13.8	3.1	12.5	29.2	1.8	702.5	0.2	401.2	117.1	50.2	3.3	0.3	44.4	**0.26**	0.05	20
LG26	150	151	1	0.11	765.3	11.9	3.5	8.9	20.9	1.8	389.4	0.2	279.9	80.5	37.0	2.5	0.3	44.4	**0.16**	0.04	22
LG26	151	152	1	0.05	5994.6	15.6	3.1	22.9	52.6	1.9	4210.4	0.1	1376.4	499.0	108.5	5.0	0.2	45.7	**1.23**	0.19	15
LG26	152	153	1	0.02	759.2	4.1	0.9	4.2	10.5	0.5	496.1	0.1	183.1	63.4	17.3	1.2	0.1	12.7	**0.16**	0.03	16
LG26	153	154	1	0.06	485.2	14.1	4.6	4.4	12.2	2.4	256.8	0.1	152.2	46.8	19.0	2.1	0.3	64.8	**0.11**	0.02	19
LG26	154	155	1	0.09	856.2	8.1	3.0	5.4	13.0	1.4	521.9	0.1	241.4	77.6	24.8	1.6	0.2	36.8	**0.18**	0.03	18
LG26	155	156	1	0.06	1038.0	19.3	6.3	10.5	26.3	3.3	562.9	0.4	337.1	102.3	41.5	3.5	0.6	82.5	**0.22**	0.05	20
LG26	156	157	1	0.01	1042.9	10.0	2.4	5.3	15.4	1.5	704.9	0.1	258.9	88.0	25.3	2.0	0.2	33.0	**0.22**	0.04	16
LG26	157	158	1	0.02	3562.4	13.0	1.9	14.5	34.9	1.5	2615.3	0.1	787.3	288.8	62.9	4.0	0.1	30.5	**0.74**	0.11	15
LG26	158	159	1	0.02	1775.0	10.7	2.3	8.6	21.4	1.4	1202.1	0.2	426.9	146.8	39.9	2.3	0.2	34.3	**0.37**	0.06	16
LG26	159	160	1	0.17	2505.9	12.9	3.5	12.7	29.6	1.9	1747.5	0.2	607.7	206.6	59.5	3.1	0.3	44.4	**0.52**	0.08	16
LG26	160	161	1	0.10	894.3	13.7	5.0	8.9	21.7	2.1	439.8	0.5	300.9	87.8	38.0	2.8	0.6	55.9	**0.19**	0.04	21
LG26	161	162	1	0.01	13512.4	28.3	3.8	47.1	104.1	2.8	9875.0	0.1	2846.0	1059.6	215.7	9.4	0.5	57.1	**2.78**	0.39	14
LG26	162	163	1	0.01	9581.5	16.3	2.1	25.6	56.2	1.6	6989.9	0.0	1977.0	751.5	128.7	5.5	0.1	33.0	**1.96**	0.28	14
LG26	163	164	1	0.00	7321.3	13.9	1.9	20.8	45.2	1.4	5242.4	0.0	1528.0	579.9	105.9	4.5	0.1	29.2	**1.49**	0.21	14
LG26	164	165	1	0.08	7947.7	21.8	3.3	28.1	67.1	2.4	5617.7	0.1	1749.6	641.6	131.6	7.2	0.2	53.3	**1.63**	0.24	15
LG26	165	166	1	0.00	2727.0	11.5	1.6	10.8	27.5	1.2	1952.7	0.1	626.4	221.7	52.4	3.3	0.1	25.4	**0.57**	0.09	15
LG26	166	167	1	0.01	6928.2	21.5	3.2	24.5	56.6	2.5	4878.8	0.1	1580.5	572.7	124.1	6.4	0.2	49.5	**1.42**	0.22	15
LG26	167	168	1	0.00	6215.7	19.7	2.5	22.3	50.4	2.0	4374.5	0.0	1417.2	517.1	110.2	5.8	0.2	44.4	**1.28**	0.20	15
LG26	168	169	1	0.00	4274.8	10.0	1.4	12.4	25.0	1.0	2932.0	0.0	902.8	338.3	61.1	2.7	0.1	22.9	**0.86**	0.13	14
LG26	169	170	1	0.00	7566.9	19.4	3.0	27.3	62.1	1.9	5301.1	0.1	1714.6	662.1	136.8	6.0	0.2	47.0	**1.55**	0.24	15
LG26	170	171	1	0.01	20514.3	33.1	5.1	55.7	114.5	3.5	14015.0	0.1	4479.0	1812.3	310.8	10.4	0.4	86.4	**4.14**	0.63	15
LG26	171	172	1	0.01	6645.6	25.6	4.6	25.8	64.2	3.0	4609.1	0.2	1528.0	586.0	127.0	7.4	0.3	72.4	**1.37**	0.21	15
LG26	172	173	1	0.00	1101.9	8.1	1.6	5.4	12.7	1.1	751.8	0.0	242.6	92.7	21.6	1.7	0.1	26.7	**0.23**	0.03	15
LG26	173	174	1	0.00	1603.1	9.2	1.6	8.1	16.8	1.2	1166.9	0.0	370.9	138.9	34.0	2.0	0.1	29.2	**0.34**	0.05	15
LG26	174	175	1	0.00	1412.7	9.1	1.9	6.7	14.2	1.2	1030.9	0.0	318.4	121.4	27.5	1.8	0.2	29.2	**0.30**	0.05	15
LG26	176	177	1	0.00	1848.7	11.4	1.9	9.5	20.5	1.4	1313.5	0.1	412.9	155.9	38.7	2.5	0.2	34.3	**0.39**	0.06	15
LG26	177	178	1	0.01	4999.6	19.3	3.8	37.5	67.4	2.5	2732.6	0.2	1592.1	519.5	167.6	5.4	0.3	62.2	**1.02**	0.21	21
LG26	178	179	1	0.01	912.7	4.8	1.0	5.1	11.5	0.6	646.2	0.0	222.8	81.1	20.4	1.2	0.1	14.0	**0.19**	0.03	16
LG26	179	180	1	0.02	1375.8	15.4	3.5	14.1	34.0	2.2	783.4	0.1	424.6	137.7	52.0	3.9	0.3	53.3	**0.29**	0.06	19
LG26	180	181	1	0.00	303.4	3.0	0.6	2.2	5.8	0.3	185.3	0.0	74.6	26.3	8.5	0.7	0.1	10.2	**0.06**	0.01	16

HoleID	From	To	Interval	Nb2O5 %	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sm2O3	Tb4O7	Tm2O3	Y2O3	TREO %	MREO %	NdPr:TREO
LG26	182	183	1	0.03	1431.1	10.3	3.4	10.4	22.6	1.5	885.5	0.2	400.1	136.5	44.2	2.3	0.4	43.2	**0.30**	0.05	18
LG26	183	184	1	0.01	920.1	6.1	1.7	6.8	14.8	0.8	621.6	0.1	247.3	84.6	27.3	1.6	0.2	22.9	**0.20**	0.03	17
LG26	184	185	1	0.01	565.1	6.5	1.7	5.3	12.4	1.0	370.6	0.1	165.0	53.5	19.9	1.4	0.2	25.4	**0.12**	0.02	18
LG26	185	186	1	0.00	603.1	5.4	1.0	4.3	9.6	0.7	426.9	0.0	153.4	54.5	16.9	1.2	0.1	17.8	**0.13**	0.02	16
LG26	186	187.2	1.2	0.01	640.0	5.2	0.9	4.7	12.0	0.6	407.0	0.0	159.2	55.0	18.1	1.4	0.1	14.0	**0.13**	0.02	16
LG32	1	2	1	0.02	285.0	5.2	3.1	2.1	5.9	1.0	106.7	0.4	58.0	18.8	8.2	1.0	0.5	39.4	**0.05**	0.01	14
LG32	2	3	1	0.02	426.3	7.8	4.2	3.2	8.4	1.5	152.5	0.7	90.7	29.1	13.0	1.3	0.7	49.5	**0.08**	0.01	15
LG32	3	4	1	0.03	484.0	9.1	5.3	3.6	10.1	1.8	172.4	0.7	103.5	32.5	14.1	1.5	0.8	58.4	**0.09**	0.01	15
LG32	4	5	1	0.04	551.6	12.7	7.3	4.3	12.4	2.5	179.4	0.9	110.8	34.9	17.7	2.0	1.1	77.5	**0.10**	0.02	14
LG32	5	6	1	0.04	625.3	18.8	8.8	7.4	22.6	3.5	225.2	1.2	162.1	47.8	29.1	3.4	1.3	96.5	**0.13**	0.02	17
LG32	6	7	1	0.04	918.8	22.0	9.8	10.8	32.6	4.0	463.3	1.2	278.8	83.2	41.9	4.5	1.4	133.3	**0.20**	0.04	18
LG32	7	8	1	0.09	1308.2	18.4	8.3	9.8	25.7	3.2	696.6	1.2	344.1	112.5	42.6	3.3	1.3	92.7	**0.27**	0.05	17
LG32	8	9	1	0.08	1412.7	16.6	7.7	10.5	25.0	2.9	702.5	0.9	362.8	123.2	44.5	3.2	1.0	86.4	**0.28**	0.05	17
LG32	9	10	1	0.03	859.9	14.2	5.7	8.7	22.6	2.4	412.8	0.7	263.6	81.6	35.9	2.8	0.8	66.0	**0.18**	0.04	19
LG32	10	11	1	0.03	821.8	14.8	6.4	8.5	22.6	2.3	384.7	0.7	256.6	77.6	37.6	2.9	0.9	64.8	**0.17**	0.04	20
LG32	11	12	1	0.03	755.5	14.2	6.3	8.1	22.0	2.4	330.7	0.8	229.8	69.0	32.8	2.8	0.9	64.8	**0.15**	0.03	19
LG32	12	13	1	0.03	780.0	14.0	6.1	8.5	21.0	2.3	335.4	0.8	234.4	69.7	35.1	2.8	0.9	66.0	**0.16**	0.03	19
LG32	13	14	1	0.03	734.6	14.0	6.1	8.1	21.9	2.4	316.7	0.7	226.9	66.1	35.0	2.8	0.9	66.0	**0.15**	0.03	20
LG32	14	15	1	0.03	778.8	13.5	6.3	7.9	21.7	2.3	357.7	0.8	240.3	72.1	34.7	2.6	0.8	63.5	**0.16**	0.03	19
LG32	15	16	1	0.03	845.1	14.5	7.2	8.2	23.4	2.6	342.5	0.9	246.1	73.8	36.2	3.0	0.9	67.3	**0.17**	0.03	19
LG32	16	17	1	0.03	775.1	13.8	6.5	7.8	22.9	2.4	302.6	0.9	234.4	68.3	37.0	2.9	0.9	64.8	**0.15**	0.03	20
LG32	17	18	1	0.05	1046.6	15.6	6.6	8.8	23.9	2.7	459.7	0.9	296.3	92.1	39.0	3.2	0.9	73.7	**0.21**	0.04	19
LG32	18	19	1	0.02	769.0	13.9	5.7	7.9	22.2	2.4	295.5	0.9	229.2	67.9	35.4	2.8	0.8	62.2	**0.15**	0.03	20
LG32	19	20	1	0.02	773.9	13.7	5.8	7.8	22.8	2.4	299.1	0.9	235.6	67.2	35.0	3.0	0.9	61.0	**0.15**	0.03	20
LG32	20	21	1	0.03	783.7	14.2	6.6	8.5	22.8	2.4	303.8	0.8	242.6	69.7	36.3	2.9	0.9	64.8	**0.16**	0.03	20
LG32	21	22	1	0.03	760.4	13.5	5.9	7.4	22.9	2.7	290.9	0.9	228.0	65.8	35.0	3.0	0.9	63.5	**0.15**	0.03	20
LG32	22	23	1	0.03	743.2	13.8	6.3	7.5	21.1	2.5	286.2	0.7	225.7	64.3	30.7	2.7	0.9	66.0	**0.15**	0.03	20
LG32	23	24	1	0.03	723.5	13.5	6.2	7.3	21.6	2.5	276.8	0.8	215.8	61.6	31.7	2.8	0.9	64.8	**0.14**	0.03	19
LG32	24	25	1	0.03	791.1	14.0	6.7	7.4	22.6	2.7	295.5	0.9	229.8	66.5	33.6	2.9	1.1	68.6	**0.15**	0.03	19
LG32	25	26	1	0.03	823.0	14.9	7.7	8.1	23.6	2.8	308.4	0.9	241.4	69.5	33.7	3.1	1.0	72.4	**0.16**	0.03	19
LG32	26	27	1	0.03	834.1	14.6	6.4	8.1	22.1	2.6	309.6	1.0	241.4	69.6	33.6	3.2	0.9	64.8	**0.16**	0.03	19
LG32	27	28	1	0.03	926.2	15.8	7.3	8.6	25.7	2.9	344.8	0.8	262.4	77.1	40.1	3.3	1.0	71.1	**0.18**	0.04	19
LG32	28	29	1	0.03	907.8	15.6	6.9	9.0	24.2	2.6	342.5	0.9	262.4	76.8	40.0	3.2	1.0	69.8	**0.18**	0.04	19
LG32	29	30	1	0.03	878.3	14.7	7.3	8.2	23.2	2.9	335.4	0.9	254.3	75.3	36.8	3.0	1.0	73.7	**0.17**	0.03	19
LG32	30	31	1	0.03	886.9	15.1	7.0	8.5	24.6	3.1	340.1	0.9	265.9	77.2	38.8	3.3	1.1	73.7	**0.17**	0.04	20
LG32	31	32	1	0.03	893.0	16.8	7.2	8.9	25.2	2.9	343.6	0.9	270.6	77.1	41.9	3.2	1.0	71.1	**0.18**	0.04	20
LG32	32	33	1	0.03	808.3	14.7	6.9	7.9	21.9	2.6	314.3	0.8	244.9	71.2	34.6	3.2	1.0	68.6	**0.16**	0.03	20
LG32	33	34	1	0.03	852.5	15.6	7.0	8.1	23.9	2.7	333.1	1.0	257.8	73.6	36.4	3.2	0.9	67.3	**0.17**	0.04	20
LG32	34	35	1	0.03	941.0	15.4	7.4	8.9	25.2	3.0	384.7	1.0	277.6	81.9	37.6	3.3	1.0	73.7	**0.19**	0.04	19
LG32	35	36	1	0.03	953.2	13.9	6.2	8.7	22.0	2.5	439.8	0.8	290.4	89.5	38.8	2.9	0.9	59.7	**0.19**	0.04	20
LG32	36	37	1	0.05	1400.4	16.5	8.6	12.0	27.9	3.2	741.2	1.2	447.9	140.2	53.2	3.4	1.2	83.8	**0.29**	0.06	20
LG32	37	38	1	0.05	1339.0	14.1	6.4	12.2	27.1	2.6	776.4	0.9	464.2	145.6	53.6	3.0	1.0	63.5	**0.29**	0.06	21
LG32	38	39	1	0.05	1357.4	11.5	6.5	9.4	20.2	2.1	675.5	1.0	352.3	118.6	41.6	2.4	1.0	53.3	**0.27**	0.05	18

HoleID	From	To	Interval	Nb2O5 %	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sm2O3	Tb4O7	Tm2O3	Y2O3	TREO %	MREO %	NdPr:TREO
LG32	39	40	1	0.06	1066.3	11.0	5.9	9.6	20.3	2.0	767.0	0.9	401.2	135.9	45.5	2.4	0.8	55.9	**0.25**	0.06	21
LG32	40	41	1	0.06	1363.5	11.7	6.5	9.5	20.9	2.2	747.1	0.9	396.6	133.5	44.4	2.4	0.9	54.6	**0.28**	0.05	19
LG32	41	42	1	0.06	1480.2	14.0	7.1	10.3	22.9	2.5	786.9	1.1	410.6	138.9	49.2	2.9	1.0	62.2	**0.30**	0.06	18
LG32	42	43	1	0.05	1314.4	12.2	6.5	9.7	22.0	2.3	714.2	1.0	393.1	128.1	47.0	2.6	1.0	59.7	**0.27**	0.05	19
LG32	43	44	1	0.02	402.9	5.5	3.2	2.8	6.9	1.0	200.5	0.5	105.3	35.6	12.6	0.9	0.5	30.5	**0.08**	0.01	17
LG32	44	45	1	0.01	282.5	4.0	2.5	1.9	4.4	0.8	153.6	0.4	75.3	26.8	8.2	0.7	0.4	22.9	**0.06**	0.01	17
LG32	45	46	1	0.02	476.6	6.9	4.5	3.1	8.5	1.4	218.1	0.7	111.3	39.3	13.3	1.3	0.7	34.3	**0.09**	0.02	16
LG32	46	47	1	0.02	422.6	5.6	3.3	2.1	6.2	1.1	109.1	0.5	64.0	21.4	9.9	0.9	0.5	29.2	**0.07**	0.01	13
LG32	47	48	1	0.02	705.1	9.1	4.5	4.7	13.5	1.6	240.4	0.7	155.1	48.6	20.6	1.7	0.7	40.6	**0.12**	0.02	16
LG32	48	49	1	0.02	701.4	7.0	3.5	3.6	9.9	1.3	218.1	0.5	128.9	41.9	16.1	1.3	0.6	31.7	**0.12**	0.02	15
LG32	49	50	1	0.01	339.0	5.0	2.6	2.3	6.8	1.0	125.5	0.5	76.3	23.4	11.2	1.0	0.4	25.4	**0.06**	0.01	16
LG32	50	51	1	0.01	208.8	3.4	1.8	1.5	4.7	0.7	79.8	0.3	48.8	15.1	6.4	0.6	0.3	17.8	**0.04**	0.01	16
LG32	51	52	1	0.02	378.3	4.8	2.6	2.3	6.3	1.0	195.9	0.4	88.6	31.8	10.1	0.9	0.4	24.1	**0.07**	0.01	16
LG32	52	53	1	0.01	207.6	3.7	2.1	1.6	4.6	0.7	111.4	0.3	54.0	19.0	6.5	0.6	0.3	19.0	**0.04**	0.01	17
LG32	53	54	1	0.04	346.4	5.4	2.7	2.3	7.1	1.1	193.5	0.5	86.9	30.0	9.7	1.1	0.4	27.9	**0.07**	0.01	16
LG32	54	55	1	0.05	708.8	7.6	3.8	4.2	12.4	1.5	301.4	0.6	153.4	51.5	17.2	1.7	0.6	39.4	**0.13**	0.02	16
LG32	55	56	1	0.05	447.1	5.6	3.0	2.9	7.5	1.1	202.9	0.4	100.1	33.3	11.7	1.0	0.4	26.7	**0.08**	0.01	16
LG32	56	57	1	0.04	331.7	4.2	2.4	2.0	6.2	0.9	150.1	0.4	69.6	23.3	9.4	0.9	0.3	21.6	**0.06**	0.01	15
LG32	57	58	1	0.05	353.8	4.9	2.5	2.2	6.6	1.0	126.7	0.3	65.8	21.3	9.0	1.0	0.4	22.9	**0.06**	0.01	14
LG32	58	59	1	0.04	318.2	4.6	2.3	2.0	6.2	0.8	131.4	0.3	57.7	19.5	7.9	0.8	0.3	20.3	**0.06**	0.01	13
LG32	59	60	1	0.03	484.0	4.1	2.1	2.7	7.1	0.8	209.9	0.3	80.8	28.0	10.4	1.0	0.3	20.3	**0.09**	0.01	13
LG32	60	61	1	0.04	613.0	5.6	2.2	3.6	9.6	1.0	303.8	0.3	123.6	43.6	14.5	1.3	0.3	21.6	**0.11**	0.02	15
LG32	61	62	1	0.07	514.7	4.5	2.2	2.7	6.9	0.8	281.5	0.3	106.4	37.1	11.4	1.0	0.3	20.3	**0.10**	0.01	14
LG32	62	63	1	0.09	1206.3	6.5	2.6	6.5	13.8	1.0	743.6	0.2	279.9	99.3	28.4	1.6	0.3	29.2	**0.24**	0.04	16
LG32	63	64	1	0.16	7223.0	35.6	10.5	40.9	80.0	5.0	3494.9	1.0	1942.1	709.2	213.4	8.5	1.2	129.5	**1.39**	0.27	19
LG32	64	65	1	0.21	12898.2	66.9	16.9	81.6	163.7	9.0	5934.4	1.1	3802.5	1316.9	422.1	17.6	1.7	240.0	**2.50**	0.52	21
LG32	65	66	1	0.13	10637.9	64.6	16.6	77.0	164.8	8.6	5348.0	1.2	3347.6	1094.6	378.0	17.1	1.6	250.2	**2.14**	0.45	21
LG32	66	67	1	0.12	10711.6	60.8	14.9	63.5	138.3	7.9	5078.2	0.9	2472.8	833.7	293.4	15.3	1.4	214.6	**1.99**	0.34	17
LG32	67	68	1	0.14	6363.1	38.8	9.0	39.4	89.1	5.0	3295.6	0.6	1399.7	478.4	170.5	10.2	0.9	119.4	**1.20**	0.19	16
LG32	68	69	1	0.13	6461.4	45.0	12.1	42.8	100.9	6.1	3412.8	1.0	1685.4	559.4	202.4	11.5	1.3	151.1	**1.27**	0.23	18
LG32	69	70	1	0.10	9667.5	76.8	17.7	79.1	183.3	9.5	5641.2	0.8	3056.0	977.4	365.3	19.9	1.6	223.5	**2.03**	0.41	20
LG32	70	71	1	0.09	9716.6	83.0	18.5	72.0	173.5	10.2	3764.7	0.8	2344.5	711.6	306.1	20.0	1.6	221.0	**1.74**	0.32	18
LG32	71	72	1	0.14	6215.7	44.8	8.2	47.0	113.6	5.2	2216.6	0.3	1428.8	430.1	199.5	12.1	0.8	106.7	**1.08**	0.19	17
LG32	72	73	1	0.16	10158.9	77.5	14.3	82.9	201.1	8.8	4280.7	0.6	2694.4	833.7	366.4	20.9	1.2	174.0	**1.89**	0.36	19
LG32	73	74	1	0.08	4385.4	46.8	11.4	38.2	105.5	6.2	2451.2	0.7	1160.6	360.0	153.6	12.9	1.0	153.7	**0.89**	0.16	17
LG32	74	75	1	0.09	3513.2	34.4	8.0	28.5	73.8	4.4	2128.6	0.4	1040.4	327.4	127.0	9.3	0.7	105.4	**0.74**	0.14	18
LG32	75	76	1	0.20	7628.4	73.1	14.5	65.4	151.0	8.6	4022.7	0.6	2233.7	717.7	259.8	20.1	1.1	165.1	**1.54**	0.30	19
LG32	76	77	1	0.20	8832.2	72.2	16.1	67.3	157.3	8.9	4386.3	0.8	2309.5	751.5	273.7	20.4	1.4	201.9	**1.71**	0.32	18
LG32	77	78	1	0.14	8353.1	60.4	14.2	66.6	156.8	7.2	3764.7	0.8	2163.7	670.6	286.4	18.5	1.2	175.2	**1.57**	0.29	18
LG32	78	79	1	0.37	14986.5	148.1	31.1	121.0	282.4	17.5	7154.1	1.3	4035.7	1365.3	490.5	39.8	2.6	433.0	**2.91**	0.56	19
LG32	79	80	1	0.51	16583.4	118.2	26.9	112.7	252.4	14.6	8174.4	1.4	4525.6	1522.3	482.4	33.1	2.4	379.7	**3.22**	0.62	19
LG32	80	81	1	0.27	13451.0	97.8	24.5	107.7	231.7	12.9	6860.9	1.3	4210.7	1365.3	485.9	28.0	2.2	360.7	**2.72**	0.57	20
LG32	81	82	1	0.21	4852.2	50.4	11.1	36.2	90.6	6.5	3084.5	0.4	1434.7	449.5	167.0	12.6	0.9	165.1	**1.04**	0.19	18

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG32	82	83	1	0.36	5490.9	34.4	7.7	34.6	78.0	4.2	3459.8	0.4	1388.0	465.2	150.2	10.2	0.6	109.2	**1.12**	0.19	16
LG32	83	84	1	0.13	3144.7	27.4	5.8	29.3	66.2	3.3	1835.4	0.4	853.8	282.7	110.9	8.0	0.6	88.9	**0.65**	0.12	18
LG32	84	85	1	0.38	2788.5	20.2	4.3	25.1	54.6	2.4	1583.3	0.2	813.0	261.0	104.4	6.1	0.5	64.8	**0.57**	0.11	19
LG32	85	86	1	0.51	2162.0	21.8	5.8	26.3	56.8	2.9	1243.2	0.4	706.8	214.5	103.8	6.1	0.6	77.5	**0.46**	0.09	20
LG32	86	87	1	0.08	1009.7	22.2	8.3	13.1	33.7	3.7	534.8	0.7	347.6	102.7	52.5	4.9	0.9	109.2	**0.22**	0.05	20
LG32	87	88	1	0.07	1031.9	24.2	8.7	14.6	37.3	3.8	531.3	0.6	354.6	108.0	55.8	5.2	1.0	106.7	**0.23**	0.05	20
LG32	88	89	1	0.07	1560.1	21.8	7.4	16.2	39.4	3.4	584.1	0.5	431.6	126.3	64.5	5.4	0.9	90.2	**0.30**	0.06	19
LG32	89	90	1	0.06	1246.8	20.4	7.0	14.1	34.0	3.0	528.9	0.5	382.6	112.2	54.5	4.6	0.8	87.6	**0.25**	0.05	20
LG32	90	91	1	0.06	1375.8	18.4	7.2	12.9	31.9	2.8	464.4	0.6	347.6	102.2	50.8	4.2	0.8	81.3	**0.25**	0.05	18
LG32	91	92	1	0.07	1339.0	19.4	6.5	13.0	31.8	3.1	541.8	0.6	369.7	110.6	48.8	4.4	0.8	86.4	**0.26**	0.05	19
LG32	92	93	1	0.14	1406.5	20.2	4.7	16.9	38.3	2.7	768.2	0.2	503.9	148.6	65.6	5.0	0.4	61.0	**0.30**	0.07	21
LG32	93	94	1	0.07	1400.4	25.5	5.1	18.1	45.0	3.2	1011.0	0.2	470.1	152.2	66.2	6.5	0.5	69.8	**0.33**	0.07	19
LG32	94	95	1	0.35	1977.7	18.5	3.9	20.6	49.3	2.2	1331.1	0.2	545.9	183.0	76.5	5.7	0.4	54.6	**0.43**	0.08	17
LG32	95	96	1	0.10	1811.9	16.0	3.7	20.6	49.2	1.6	1046.1	0.2	557.5	179.4	74.3	4.5	0.3	44.4	**0.38**	0.08	19
LG32	96	97	1	0.09	2131.3	25.6	6.1	34.3	73.7	3.1	1159.9	0.2	858.5	238.6	133.4	7.0	0.4	80.0	**0.48**	0.11	23
LG32	97	98	1	0.11	1394.2	17.8	4.3	20.5	48.1	2.1	757.6	0.3	447.9	134.7	74.0	4.8	0.3	54.6	**0.30**	0.06	20
LG32	98	99	1	0.22	4410.0	35.5	6.3	50.5	122.8	3.6	2791.3	0.2	1388.0	451.9	185.0	11.2	0.4	90.2	**0.95**	0.19	19
LG32	99	100	1	0.36	22971.1	77.6	15.2	133.2	263.9	8.2	13604.5	0.5	6671.8	2223.1	638.9	24.2	1.1	208.3	**4.68**	0.90	19
LG32	100	101	1	0.11	4041.4	29.4	5.1	47.4	103.8	2.9	2263.5	0.1	1411.3	436.2	177.4	9.2	0.4	66.0	**0.86**	0.19	21
LG32	101	102	1	0.21	2358.5	18.4	3.8	19.0	51.6	2.2	1530.5	0.1	591.4	208.4	69.9	5.4	0.3	53.3	**0.49**	0.08	16
LG32	102	103	1	0.17	1977.7	21.2	4.1	18.5	49.0	2.7	1260.8	0.2	547.0	184.9	69.8	6.0	0.4	54.6	**0.42**	0.08	17
LG32	103	104	1	0.05	960.6	18.8	5.8	13.7	33.9	2.5	509.0	0.5	376.7	113.1	52.0	4.3	0.5	72.4	**0.22**	0.05	23
LG32	104	105	1	0.06	1351.2	24.1	7.8	16.0	42.5	3.4	710.7	0.4	477.1	143.2	62.9	5.0	0.7	97.8	**0.29**	0.06	21
LG32	105	106	1	0.06	1223.5	22.3	7.5	15.2	40.1	3.2	640.3	0.5	454.9	134.7	61.1	4.7	0.6	92.7	**0.27**	0.06	22
LG32	106	107	1	0.06	1049.1	18.9	7.0	14.1	35.2	3.0	536.0	0.5	409.4	120.1	54.5	4.2	0.7	86.4	**0.23**	0.06	23
LG32	107	108	1	0.05	1164.5	19.7	6.6	13.4	34.1	2.8	571.2	0.5	414.1	126.3	54.3	4.2	0.6	82.5	**0.25**	0.06	22
LG32	108	109	1	0.14	1787.3	23.5	7.3	15.1	36.4	3.4	1136.4	0.3	543.5	183.0	61.5	4.8	0.5	88.9	**0.39**	0.08	19
LG32	109	110	1	0.18	1492.5	20.9	5.4	15.5	38.5	2.9	891.3	0.3	470.1	147.4	57.9	5.0	0.4	77.5	**0.32**	0.06	19
LG32	110	111	1	0.04	1719.8	22.2	4.9	18.8	47.4	2.5	1052.0	0.2	521.4	170.4	65.3	5.7	0.3	71.1	**0.37**	0.07	19
LG32	111	112	1	0.10	1541.6	22.5	4.7	13.2	36.9	2.7	960.5	0.2	446.7	148.0	52.9	4.9	0.4	68.6	**0.33**	0.06	18
LG32	112	113	1	0.45	2266.4	20.3	4.5	27.8	63.6	2.1	1313.5	0.1	835.1	246.5	115.6	6.1	0.4	54.6	**0.50**	0.11	22
LG32	113	114	1	0.09	2026.9	21.1	7.3	15.6	44.0	3.3	1337.0	0.5	568.0	190.9	70.7	4.9	0.7	95.2	**0.44**	0.08	17
LG32	114	115	1	0.06	1051.5	20.1	8.0	13.7	36.0	3.1	519.6	0.6	396.6	117.2	57.2	4.3	0.8	99.1	**0.23**	0.05	22
LG32	115	116	1	0.05	4066.0	39.0	9.6	41.6	96.0	4.7	2240.0	0.5	1510.5	470.0	180.3	10.2	0.8	116.8	**0.88**	0.20	23
LG32	116	117	1	0.18	2800.8	42.2	10.9	28.0	78.0	5.9	1524.6	0.5	929.6	292.4	120.0	9.3	0.9	154.9	**0.60**	0.13	20
LG32	117	118	1	0.10	1603.1	56.9	16.9	25.7	74.0	8.4	893.7	0.7	614.7	179.4	93.2	11.0	1.3	209.5	**0.38**	0.09	21
LG32	118	119	1	0.06	1523.2	45.8	9.8	21.7	62.9	5.9	806.9	0.4	537.7	161.3	81.8	9.5	0.7	123.2	**0.34**	0.08	21
LG32	119	120	1	0.15	9004.2	65.8	12.8	86.4	202.3	7.0	5477.0	0.5	2729.4	897.7	357.2	18.3	1.1	174.0	**1.90**	0.37	19
LG32	120	121	1	0.20	10613.4	86.0	17.6	126.2	295.1	9.2	6591.1	0.8	3394.2	1057.2	503.3	25.5	1.3	237.5	**2.30**	0.46	19
LG32	121	122	1	0.28	7186.1	134.3	50.1	75.4	194.2	20.7	4972.7	2.5	2227.8	731.0	298.0	24.8	4.3	624.8	**1.65**	0.31	18
LG32	122	123	1	0.33	8549.7	56.0	10.7	84.6	192.5	5.8	4433.2	0.4	3032.6	947.2	364.1	17.4	0.8	144.8	**1.78**	0.41	22
LG32	123	124	1	0.32	3869.5	26.3	5.9	35.4	78.8	3.0	2081.7	0.2	1376.4	433.7	158.3	7.1	0.4	92.7	**0.82**	0.18	22
LG32	124	125	1	0.07	4299.4	24.0	4.9	35.9	78.5	2.6	2322.1	0.2	1288.9	422.9	154.2	6.9	0.4	82.5	**0.87**	0.17	20

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG32	125	126	1	0.22	3734.3	46.8	10.9	49.0	113.6	5.3	2028.9	0.3	1347.2	409.6	193.7	11.7	0.9	146.0	**0.81**	0.18	22
LG32	126	127	1	0.32	1443.4	11.4	3.0	13.0	31.2	1.3	873.7	0.1	436.2	140.8	55.8	2.9	0.3	38.1	**0.31**	0.06	19
LG32	127	128	1	0.09	886.9	11.9	3.1	11.1	27.3	1.6	499.6	0.1	309.1	95.7	44.6	2.7	0.2	44.4	**0.19**	0.04	21
LG32	128	129	1	0.64	3365.8	24.3	5.0	28.3	62.5	2.8	1776.8	0.2	1084.8	354.0	127.0	5.9	0.4	77.5	**0.69**	0.15	21
LG32	129	130	1	0.15	1553.9	23.6	5.9	20.3	51.2	3.0	789.3	0.4	579.7	172.8	84.3	5.3	0.6	76.2	**0.34**	0.08	22
LG32	130	131	1	0.24	4876.7	41.4	9.0	43.0	105.1	5.2	2427.7	0.5	1446.3	468.8	182.1	11.3	0.8	143.5	**0.98**	0.20	20
LG32	131	132	1	0.08	1646.1	19.4	5.9	13.4	35.7	2.8	789.3	0.5	471.2	148.0	54.7	4.2	0.7	74.9	**0.33**	0.06	19
LG32	132	133	1	0.18	2008.4	23.1	7.1	19.0	46.4	3.6	947.6	0.7	580.9	182.4	75.6	5.2	0.9	90.2	**0.40**	0.08	19
LG32	133	134	1	0.39	4373.1	34.8	7.4	41.6	95.1	4.4	1999.6	0.4	1481.3	455.5	174.5	9.7	0.6	109.2	**0.88**	0.20	22
LG32	134	135	1	0.26	3918.6	32.6	6.1	38.0	87.0	3.7	1741.6	0.2	1312.2	401.1	165.8	8.9	0.5	94.0	**0.78**	0.18	22
LG32	135	136	1	0.09	1609.2	13.2	3.8	14.6	34.0	1.8	701.3	0.3	513.2	157.7	62.3	3.2	0.3	47.0	**0.32**	0.07	21
LG32	136	137	1	0.12	3550.1	24.6	7.4	20.4	50.6	3.6	1741.6	0.5	928.5	310.5	95.1	5.7	0.7	96.5	**0.68**	0.13	18
LG32	137	138	1	0.22	4729.3	59.6	16.5	47.7	119.3	8.6	2287.0	0.7	1574.6	479.7	197.1	13.6	1.4	218.4	**0.98**	0.21	21
LG32	138	139	1	0.16	10515.1	69.2	16.8	56.7	137.7	9.3	5359.7	0.8	2717.7	948.4	271.3	16.0	1.6	250.2	**2.04**	0.38	18
LG32	139	140	1	0.31	11547.0	163.5	42.5	122.2	312.4	23.6	5418.3	1.8	3814.1	1208.2	503.3	37.1	4.1	567.6	**2.38**	0.52	21
LG32	140	141	1	0.51	12185.7	158.4	32.8	147.1	386.1	19.9	5523.9	1.2	4012.4	1250.5	577.5	42.7	2.9	490.2	**2.48**	0.55	21
LG32	141	142	1	0.29	12591.1	216.3	55.8	137.8	364.2	31.6	5899.2	2.4	4152.4	1298.8	549.7	47.3	5.0	772.1	**2.61**	0.57	21
LG32	142	143	1	0.53	5122.4	138.9	44.1	56.7	160.8	22.9	2380.8	1.3	1685.4	526.8	220.9	25.5	3.6	575.3	**1.10**	0.24	20
LG32	143	144	1	0.46	2168.1	20.0	4.7	15.4	35.2	2.8	1009.8	0.3	639.2	211.4	68.0	4.5	0.4	64.8	**0.42**	0.09	20
LG32	144	145	1	0.16	1756.6	63.5	19.2	22.0	67.5	10.7	829.2	0.6	584.4	180.0	82.0	11.0	1.6	251.4	**0.39**	0.08	20
LG32	145	146	1	0.11	1639.9	42.8	14.6	15.9	45.8	7.5	744.7	0.5	554.0	165.5	71.0	7.1	1.2	179.1	**0.35**	0.08	21
LG32	146	147	1	0.11	1375.8	24.1	8.6	13.0	33.3	4.4	633.3	0.4	442.1	135.9	57.6	4.5	0.8	110.5	**0.28**	0.06	20
LG32	147	148	1	0.07	649.8	23.1	10.4	8.7	26.5	4.5	272.1	0.3	233.3	69.7	35.9	3.8	1.0	118.1	**0.15**	0.03	21
LG32	148	149	1	0.10	3660.6	31.9	7.9	28.4	73.1	4.3	1882.3	0.4	1027.6	327.4	125.8	8.2	0.7	95.2	**0.73**	0.14	19
LG32	149	150	1	0.12	1701.3	28.1	10.9	14.8	40.7	4.9	789.3	0.6	512.0	159.5	66.0	5.2	1.1	129.5	**0.35**	0.07	19
LG32	150	151	1	0.05	960.6	20.3	8.0	9.1	25.6	3.5	443.3	0.3	298.6	95.2	38.5	3.4	0.7	97.8	**0.20**	0.04	20
LG32	151	152	1	0.06	899.2	13.1	5.0	8.7	22.0	2.2	409.3	0.2	286.9	90.0	36.1	2.6	0.4	63.5	**0.18**	0.04	20
LG32	152	153	1	0.07	1214.9	20.7	8.6	10.3	27.3	3.6	521.9	0.7	334.8	106.1	46.5	3.8	1.0	97.8	**0.24**	0.05	18
LG32	153	154	1	0.11	1196.5	31.1	16.9	13.3	37.3	6.4	510.2	0.6	403.6	120.3	56.0	5.2	1.8	182.9	**0.26**	0.06	20
LG32	154	155	1	0.08	859.9	18.4	7.4	10.7	28.1	3.1	416.3	0.2	286.9	83.6	42.7	3.5	0.7	87.6	**0.18**	0.04	20
LG32	155	156	1	0.10	2260.3	34.0	11.2	20.6	54.2	5.4	1041.4	0.6	646.2	203.6	86.9	6.9	1.1	154.9	**0.45**	0.09	19
LG32	156	157	1	0.03	718.6	10.4	3.2	6.6	18.0	1.5	341.3	0.1	229.8	71.2	28.1	2.1	0.3	41.9	**0.15**	0.03	20
LG32	157	158	1	0.09	861.1	29.3	11.5	12.7	39.0	5.2	367.1	0.4	310.3	89.0	49.4	5.4	1.2	132.1	**0.19**	0.04	21
LG32	158	159	1	0.05	800.9	13.8	6.5	7.2	18.3	2.8	365.9	0.3	257.8	80.0	31.0	2.5	0.7	71.1	**0.17**	0.04	20
LG32	159	160	1	0.04	511.0	7.2	2.3	5.4	14.2	1.1	202.9	0.3	183.1	54.4	25.9	1.6	0.2	26.7	**0.10**	0.02	23
LG32	160	161	1	0.03	644.9	12.3	5.7	6.9	18.4	2.2	319.0	0.4	204.7	62.8	27.0	2.4	0.7	63.5	**0.14**	0.03	20
LG32	161	162	1	0.04	1615.3	16.5	4.0	15.5	38.2	2.2	639.2	0.2	617.0	178.8	75.3	4.1	0.4	54.6	**0.33**	0.08	24
LG32	162	163	1	0.35	3574.6	23.6	4.7	28.1	64.9	3.0	1636.1	0.1	1253.9	378.2	141.5	6.7	0.3	66.0	**0.72**	0.17	23
LG32	163	164	1	0.04	1486.4	21.2	4.7	17.6	44.7	2.6	665.0	0.3	579.7	161.9	81.6	5.1	0.4	62.2	**0.31**	0.08	24
LG32	164	164.4	0.4	0.03	1382.0	31.2	8.9	18.1	47.7	4.2	592.3	0.4	543.5	154.6	71.9	6.5	0.7	111.8	**0.30**	0.07	23
LG42	4.3	5	0.7	0.04	969.2	14.6	5.7	8.3	21.9	2.3	426.9	0.6	284.6	87.4	37.3	2.8	0.8	62.2	**0.19**	0.04	19
LG42	5	6	1	0.02	827.9	13.5	5.7	7.5	21.7	2.3	340.1	0.6	249.6	75.6	35.4	2.6	0.7	57.1	**0.16**	0.03	20
LG42	6	7	1	0.02	737.0	13.4	6.1	6.6	21.1	2.0	293.2	0.8	231.5	66.5	31.5	2.8	0.7	53.3	**0.15**	0.03	20

HoleID	From	To	Interval	Nb2O5 %	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sm2O3	Tb4O7	Tm2O3	Y2O3	TREO %	MREO %	NdPr:TREO
LG42	7	8	1	0.02	739.5	13.8	5.8	7.1	20.6	2.2	293.2	0.7	228.6	67.5	32.8	2.6	0.7	58.4	**0.15**	0.03	20
LG42	8	9	1	0.02	721.1	13.7	5.5	6.7	20.1	2.1	285.0	0.6	224.5	65.4	31.7	2.5	0.7	53.3	**0.14**	0.03	20
LG42	9	10	1	0.02	759.2	13.8	5.9	7.2	21.6	2.4	301.4	0.8	240.3	70.3	33.2	2.8	0.7	58.4	**0.15**	0.03	20
LG42	10	11	1	0.02	754.2	14.8	5.9	7.3	22.2	2.5	299.1	0.7	246.1	69.5	34.7	3.0	0.8	59.7	**0.15**	0.03	21
LG42	11	12	1	0.02	757.9	16.4	6.9	7.6	24.2	2.6	295.5	0.7	242.6	69.1	34.3	3.3	0.8	63.5	**0.15**	0.03	20
LG42	12	13	1	0.02	719.8	16.8	7.2	7.2	22.8	2.7	279.1	0.9	229.8	66.1	32.2	3.2	0.8	66.0	**0.15**	0.03	20
LG42	13	14	1	0.02	647.4	13.9	5.8	7.1	19.1	2.1	253.3	0.6	205.3	59.1	28.9	2.4	0.7	55.9	**0.13**	0.03	20
LG42	14	15	1	0.02	628.9	12.9	5.3	6.0	18.2	2.3	243.9	0.6	202.4	56.5	31.3	2.3	0.7	52.1	**0.13**	0.03	20
LG42	15	16	1	0.02	663.3	13.0	5.0	7.1	20.5	2.2	260.4	0.7	212.3	60.9	31.3	2.6	0.6	55.9	**0.13**	0.03	20
LG42	16	17	1	0.02	663.3	14.1	5.8	6.5	19.1	2.3	260.4	0.6	211.7	61.1	29.8	2.6	0.7	55.9	**0.13**	0.03	20
LG42	17	18	1	0.02	657.2	13.3	6.1	6.5	19.4	2.3	256.8	0.6	208.8	59.0	29.5	2.4	0.7	55.9	**0.13**	0.03	20
LG42	18	19	1	0.02	679.3	14.1	5.6	6.8	20.7	2.1	265.1	0.6	213.5	62.3	32.1	2.8	0.7	59.7	**0.14**	0.03	20
LG42	19	20	1	0.02	692.8	14.2	5.9	6.7	20.6	2.3	269.7	0.6	217.5	61.3	31.9	2.8	0.7	59.7	**0.14**	0.03	20
LG42	20	21	1	0.02	675.6	14.1	5.8	6.9	19.9	2.3	260.4	0.7	210.5	60.9	31.2	2.6	0.7	55.9	**0.13**	0.03	20
LG42	21	22	1	0.02	690.4	13.8	6.3	6.5	19.7	2.4	261.5	0.8	213.5	62.3	29.6	2.7	0.8	57.1	**0.14**	0.03	20
LG42	22	23	1	0.02	683.0	14.8	6.2	6.5	19.1	2.2	260.4	0.7	214.6	62.0	31.5	2.7	0.7	59.7	**0.14**	0.03	20
LG42	23	24	1	0.02	686.7	13.8	6.3	6.7	19.9	2.3	260.4	0.6	219.9	62.7	32.4	2.7	0.8	63.5	**0.14**	0.03	20
LG42	24	25	1	0.02	689.1	15.0	5.6	6.8	21.2	2.4	261.5	0.7	211.1	61.5	31.0	2.8	0.8	61.0	**0.14**	0.03	20
LG42	25	26	1	0.02	697.7	15.4	5.7	6.7	20.4	2.3	262.7	0.7	214.0	62.2	30.1	2.9	0.7	62.2	**0.14**	0.03	20
LG42	26	27	1	0.02	700.2	14.1	5.9	6.7	20.7	2.3	268.6	0.5	220.4	62.0	32.7	2.7	0.7	63.5	**0.14**	0.03	20
LG42	27	28	1	0.02	702.6	14.2	5.8	6.6	20.6	2.4	262.7	0.7	212.3	61.5	32.0	2.7	0.8	62.2	**0.14**	0.03	20
LG42	28	29	1	0.02	705.1	14.8	5.8	7.4	21.6	2.4	265.1	0.6	222.2	62.7	31.2	2.8	0.8	63.5	**0.14**	0.03	20
LG42	29	30	1	0.02	730.9	15.0	6.4	7.2	22.1	2.5	269.7	0.6	224.5	62.8	32.2	2.9	0.8	63.5	**0.14**	0.03	20
LG42	30	31	1	0.02	760.4	17.0	7.1	7.6	24.0	2.8	280.3	0.7	237.9	65.8	35.1	3.1	0.8	71.1	**0.15**	0.03	20
LG42	31	32	1	0.02	777.6	17.4	7.3	7.8	25.0	3.0	286.2	0.8	244.9	70.2	38.5	3.6	0.9	76.2	**0.16**	0.03	20
LG42	32	33	1	0.02	764.1	17.1	7.7	7.8	24.3	2.9	281.5	0.8	234.4	66.1	35.5	3.4	0.8	72.4	**0.15**	0.03	20
LG42	33	34	1	0.02	767.8	17.4	7.9	8.2	25.0	3.1	279.1	0.8	235.6	66.5	35.9	3.1	1.0	73.7	**0.15**	0.03	20
LG42	34	35	1	0.03	834.1	20.0	9.3	8.7	27.2	3.5	306.1	1.1	256.6	73.0	36.8	3.6	1.1	92.7	**0.17**	0.04	20
LG42	35	36	1	0.03	863.6	20.8	9.5	8.7	27.8	3.6	327.2	1.2	268.3	76.1	41.6	3.9	1.2	102.9	**0.18**	0.04	20
LG42	36	37	1	0.03	873.4	22.2	10.2	8.8	27.8	3.7	329.6	1.0	270.6	78.3	38.7	4.2	1.2	97.8	**0.18**	0.04	20
LG42	37	38	1	0.03	909.0	18.9	7.9	8.8	26.4	3.2	340.1	0.9	253.1	75.9	39.8	3.7	1.1	80.0	**0.18**	0.04	19
LG42	38	39	1	0.03	948.3	17.2	6.6	8.7	25.5	2.9	350.7	0.8	260.1	77.2	40.1	3.4	0.9	69.8	**0.18**	0.04	19
LG42	39	40	1	0.03	955.7	17.4	8.0	9.1	25.7	3.1	369.4	0.9	274.1	81.3	39.9	3.6	1.0	76.2	**0.19**	0.04	19
LG42	40	41	1	0.03	1017.1	18.5	7.9	9.7	26.7	3.2	405.8	0.9	285.8	85.7	42.2	3.6	1.1	78.7	**0.20**	0.04	19
LG42	41	42	1	0.03	1081.0	19.3	8.1	9.8	29.6	3.3	433.9	1.0	302.1	90.6	44.1	3.8	1.1	80.0	**0.21**	0.04	19
LG42	42	43	1	0.03	1137.5	20.2	8.6	10.4	30.4	3.3	472.6	1.0	314.9	94.5	46.0	4.0	1.0	83.8	**0.22**	0.04	18
LG42	43	44	1	0.03	1151.0	20.2	8.5	10.4	29.6	3.4	487.9	1.1	314.9	96.8	46.4	4.0	1.1	86.4	**0.23**	0.04	18
LG42	44	45	1	0.03	1117.8	18.9	8.1	10.3	29.5	3.3	455.0	1.0	299.8	92.8	43.9	3.8	1.0	82.5	**0.22**	0.04	18
LG42	45	46	1	0.03	899.2	14.5	5.9	7.6	21.7	2.4	360.0	0.7	237.9	73.2	33.9	3.0	0.8	59.7	**0.17**	0.03	18
LG42	46	47	1	0.05	998.7	12.2	5.1	6.5	18.6	2.1	505.5	0.6	226.3	77.4	29.1	2.4	0.6	49.5	**0.19**	0.03	16
LG42	47	48	1	0.05	742.0	9.8	4.5	5.2	14.2	1.8	309.6	0.5	161.5	52.8	22.5	1.9	0.6	41.9	**0.14**	0.02	16
LG42	48	49	1	0.05	549.1	7.0	3.2	3.4	9.3	1.2	246.3	0.4	109.4	37.9	14.4	1.3	0.4	27.9	**0.10**	0.02	15
LG42	49	50	1	0.05	1013.4	9.2	4.3	5.0	12.9	1.7	523.1	0.5	176.7	65.8	21.8	1.9	0.5	36.8	**0.19**	0.03	13

HoleID	From	To	Interval	Nb_2O_5 %	CeO_2	Dy_2O_3	Er_2O_3	Eu_2O_3	Gd_2O_3	Ho_2O_3	La_2O_3	Lu_2O_3	Nd_2O_3	Pr_6O_{11}	Sm_2O_3	Tb_4O_7	Tm_2O_3	Y_2O_3	TREO %	MREO %	NdPr:TREO
LG42	50	51	1	0.05	622.8	6.4	3.7	2.8	7.5	1.3	302.6	0.5	108.4	40.8	13.0	1.2	0.5	30.5	**0.11**	0.02	13
LG42	51	52	1	0.05	866.0	6.1	3.3	4.1	9.2	1.1	455.0	0.5	165.0	62.0	17.7	1.2	0.5	27.9	**0.16**	0.02	14
LG42	52	53	1	0.04	2530.5	8.5	3.5	11.0	22.4	1.4	1331.1	0.5	515.5	189.7	53.9	2.3	0.5	33.0	**0.47**	0.07	15
LG42	53	54	1	0.15	10650.2	27.9	7.4	49.8	95.1	3.5	6907.8	0.7	2787.7	1064.4	252.8	8.7	0.7	92.7	**2.19**	0.39	18
LG42	54	55	1	0.09	25673.6	84.1	22.0	130.3	266.3	10.8	15950.1	1.5	6601.8	2440.6	629.7	24.9	2.2	295.9	**5.21**	0.92	17
LG42	55	56	1	0.06	13205.3	42.6	10.2	69.2	144.7	5.3	7599.7	0.8	3312.6	1172.0	320.0	12.9	1.1	133.3	**2.60**	0.45	17
LG42	56	57	1	0.11	21926.9	62.7	13.4	114.4	228.8	7.2	14015.0	0.9	5843.7	2096.2	548.5	19.3	1.3	184.1	**4.51**	0.80	18
LG42	57	58	1	0.12	17320.4	44.9	8.7	90.3	175.2	4.9	10930.5	0.7	4665.6	1691.5	452.2	14.3	0.9	124.5	**3.55**	0.64	18
LG42	58	59	1	1.02	26042.1	49.5	10.7	97.5	182.1	5.8	16360.6	0.7	6123.6	2307.7	523.0	15.6	1.1	130.8	**5.19**	0.85	16
LG42	59	60	1	0.13	27516.2	59.8	12.8	126.2	234.0	7.0	18999.4	0.8	7360.0	2742.6	662.1	19.4	1.2	171.4	**5.79**	1.02	17
LG42	60	61	1	0.05	8009.2	46.4	9.1	54.3	121.6	5.3	6063.4	0.5	2297.8	815.5	237.7	12.7	0.8	124.5	**1.78**	0.32	17
LG42	61	62	1	0.05	4090.6	39.1	9.0	37.5	94.2	5.1	2814.7	0.6	1172.2	368.5	145.5	9.9	0.9	118.1	**0.89**	0.16	17
LG42	62	63	1	0.03	3771.2	46.7	12.1	36.8	99.6	6.3	2152.1	0.7	1076.6	310.5	150.2	11.2	1.2	177.8	**0.79**	0.14	18
LG42	63	64	1	0.04	2241.8	27.8	7.3	21.5	54.4	3.7	1005.1	0.5	607.7	186.7	82.2	6.6	0.7	83.8	**0.43**	0.08	18
LG42	64	65	1	0.04	5233.0	65.2	20.4	34.4	103.3	9.9	975.8	1.2	760.5	212.0	120.0	13.9	2.1	274.3	**0.78**	0.11	12
LG42	65	66	1	0.04	3574.6	102.8	57.9	29.2	103.8	22.7	1512.9	4.8	803.6	252.5	106.9	16.7	6.4	1226.7	**0.78**	0.12	14
LG42	66	67	1	0.06	11510.1	31.6	8.6	50.4	93.0	4.4	7447.3	0.4	3126.0	1104.3	273.7	8.3	0.8	141.0	**2.38**	0.43	18
LG42	67	68	1	0.10	37711.9	54.9	12.1	115.2	197.7	7.1	23104.2	0.3	9167.9	3503.8	698.1	16.0	0.8	205.7	**7.48**	1.27	17
LG42	68	69	1	0.05	13696.7	50.5	9.9	85.2	164.8	6.1	8045.4	0.3	4012.4	1359.2	429.1	14.6	0.7	166.4	**2.80**	0.54	19
LG42	69	70	1	0.09	17443.3	70.5	10.5	115.3	252.4	7.5	10824.9	0.2	4770.6	1673.4	516.0	22.5	0.6	185.4	**3.59**	0.65	18
LG42	70	71	1	0.05	10687.1	38.7	7.2	63.9	128.5	4.6	6215.8	0.2	3230.9	1081.3	339.8	11.4	0.4	115.6	**2.19**	0.44	20
LG42	71	72	1	0.06	14249.4	55.1	11.1	84.9	169.4	6.6	7693.6	0.4	4117.4	1437.8	426.7	18.1	0.7	151.1	**2.84**	0.56	20
LG42	72	73	1	0.17	20084.3	74.0	15.4	109.0	220.7	8.7	10918.8	0.4	5528.7	1957.3	535.7	24.9	1.1	204.5	**3.97**	0.76	19
LG42	73	74	1	0.10	14433.7	53.5	10.9	83.0	166.6	5.8	7869.5	0.4	3895.8	1329.0	401.2	18.0	0.7	139.7	**2.84**	0.53	18
LG42	74	75	1	0.09	18180.3	74.3	15.1	94.3	198.8	8.8	10508.3	0.3	4805.6	1727.7	460.4	24.2	1.0	201.9	**3.63**	0.66	18
LG42	75	76	1	0.19	25550.7	104.6	20.8	144.2	302.0	12.0	14835.9	0.7	7255.0	2386.2	685.3	33.4	1.3	280.6	**5.16**	0.98	19
LG42	76	77	1	0.34	26410.6	100.4	22.2	138.4	287.0	12.2	15422.3	0.7	7884.9	2537.2	701.6	32.0	1.5	290.8	**5.38**	1.06	19
LG42	77	78	1	0.07	35377.9	107.2	22.6	158.6	317.0	12.8	21169.0	0.6	9996.0	3334.6	811.7	36.9	1.6	280.6	**7.16**	1.35	19
LG42	78	79	1	0.10	25305.0	96.5	20.1	128.5	268.6	11.1	14953.2	0.7	6905.1	2398.3	629.7	31.8	1.4	247.6	**5.10**	0.94	18
LG42	79	80	1	0.09	15416.4	77.5	15.7	100.4	216.1	9.0	8280.0	0.4	4467.3	1534.4	478.9	24.7	1.0	204.5	**3.08**	0.61	19
LG42	80	81	1	0.15	23953.8	92.4	18.4	126.8	267.4	10.6	13487.2	0.5	7091.7	2349.9	623.9	29.5	1.1	238.7	**4.83**	0.96	20
LG42	81	82	1	0.16	24568.0	83.0	17.2	116.9	236.3	9.6	14894.6	0.5	6263.6	2289.5	585.6	27.9	1.3	226.0	**4.93**	0.87	17
LG42	82	83	1	0.13	13635.2	57.7	12.3	81.9	172.9	6.9	8174.4	0.4	3662.5	1192.5	401.2	18.1	0.9	171.4	**2.76**	0.49	18
LG42	83	84	1	0.16	11338.1	67.5	13.0	85.6	190.2	7.7	6403.5	0.5	3195.9	1028.2	374.6	21.2	1.0	191.8	**2.29**	0.43	18
LG42	84	85	1	0.17	11792.6	46.9	10.4	60.8	125.6	5.7	7072.0	0.4	3044.3	1014.9	296.9	14.9	0.7	138.4	**2.36**	0.41	17
LG42	85	86	1	0.14	23093.9	87.0	16.7	137.8	285.8	9.5	13369.9	0.5	6286.9	2241.2	659.8	30.2	1.1	210.8	**4.64**	0.86	18
LG42	86	87	1	0.05	15539.3	50.2	9.9	93.9	194.8	5.9	9124.4	0.4	4105.7	1449.8	440.6	19.5	0.8	125.7	**3.12**	0.56	18
LG42	87	88	1	0.05	34640.9	92.8	18.0	171.4	353.8	9.9	21696.8	0.6	9121.2	3129.2	815.2	35.6	1.3	210.8	**7.03**	1.24	17
LG42	88	89	1	0.11	47661.9	156.7	34.4	216.5	434.5	18.3	27326.2	1.0	13530.2	4470.3	1121.3	51.9	2.2	411.4	**9.54**	1.82	19
LG42	89	90	1	0.14	28744.6	114.1	26.1	148.2	304.3	13.5	16067.4	0.7	8631.4	2778.9	764.2	35.2	1.8	322.6	**5.80**	1.16	20
LG42	90	91	1	0.05	19163.0	51.8	11.9	89.7	170.6	6.2	10989.1	0.4	5213.8	1854.6	480.1	18.8	0.9	137.1	**3.82**	0.71	19
LG42	91	92	1	0.05	57489.1	106.2	25.2	180.1	333.1	12.4	36356.8	0.7	14230.1	4929.5	1004.2	42.0	1.8	278.1	**11.50**	1.93	17
LG42	92	93	1	0.03	26042.1	68.3	14.6	112.2	226.5	8.0	15481.0	0.5	6788.4	2404.3	590.2	25.6	1.1	162.5	**5.19**	0.93	18

HoleID	From	To	Interval	Nb2O5 %	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sm2O3	Tb4O7	Tm2O3	Y2O3	TREO %	MREO %	NdPr:TREO
LG42	93	94	1	0.08	29850.1	91.1	19.9	143.6	293.9	10.5	17298.8	0.7	8643.0	2839.3	729.4	32.6	1.5	241.3	**6.02**	1.16	19
LG42	94	95	1	0.05	24813.7	72.3	15.8	118.1	244.4	8.0	15129.1	0.5	6263.6	2253.3	592.6	26.7	1.1	189.2	**4.97**	0.86	17
LG42	95	96	1	0.04	21435.6	60.9	12.3	92.3	194.8	6.7	13487.2	0.4	5073.8	1921.0	460.4	22.1	0.9	154.9	**4.29**	0.71	16
LG42	96	97	1	0.02	24506.6	76.4	13.8	113.1	242.0	8.3	16301.9	0.4	5458.8	2126.4	512.5	28.2	0.9	190.5	**4.96**	0.77	15
LG42	97	98	1	0.03	18487.4	58.9	12.5	82.7	173.5	6.8	12255.8	0.3	4035.7	1576.7	369.9	20.7	0.9	175.2	**3.73**	0.57	15
LG42	98	99	1	0.12	24015.2	88.6	19.0	106.6	229.9	10.5	15422.3	0.5	5458.8	2126.4	497.5	28.2	1.3	257.8	**4.83**	0.77	16
LG42	99	100	1	0.09	32552.6	103.5	20.0	149.4	315.8	11.3	19703.0	0.6	8818.0	2996.3	710.8	36.3	1.2	254.0	**6.57**	1.20	18
LG42	100	101	1	0.16	7087.9	102.6	29.6	55.7	148.7	15.2	4327.6	0.8	1889.6	623.4	216.8	22.6	2.4	400.0	**1.49**	0.26	17
LG42	101	102	1	0.18	8230.3	51.3	15.2	38.3	85.8	7.5	4878.8	0.4	2122.8	718.9	192.5	11.8	1.3	189.2	**1.65**	0.29	17
LG42	102	103	1	0.05	5306.7	42.4	15.8	30.6	69.8	7.3	3225.2	0.5	1358.9	449.5	136.8	9.2	1.5	187.9	**1.08**	0.19	17
LG42	103	104	1	0.04	3869.5	25.4	7.9	21.5	51.2	3.7	2328.0	0.3	1003.1	332.3	105.6	6.4	0.7	92.7	**0.78**	0.14	17
LG42	104	105	1	0.03	3562.4	19.5	5.7	19.7	43.9	2.6	2052.4	0.3	965.8	312.9	95.3	5.0	0.5	64.8	**0.72**	0.13	18
LG42	105	106	1	0.03	1879.5	10.4	3.2	12.2	26.7	1.7	1003.9	0.2	531.9	176.4	55.9	2.9	0.3	41.9	**0.37**	0.07	19
LG42	106	107	1	0.03	1725.9	21.5	6.3	14.4	35.7	3.5	952.3	0.3	505.1	159.5	61.9	4.5	0.5	88.9	**0.36**	0.07	19
LG42	107	108	1	0.03	1848.7	28.6	8.2	17.0	44.8	4.5	1070.8	0.3	545.9	172.8	71.8	6.4	0.8	119.4	**0.39**	0.08	18
LG42	108	109	1	0.03	1283.7	27.1	8.7	15.9	39.9	4.4	717.8	0.3	425.7	126.9	58.4	5.8	0.8	114.3	**0.28**	0.06	20
LG42	109	110	1	0.03	1639.9	17.1	5.0	13.7	33.9	2.7	921.8	0.2	489.9	156.5	59.7	4.0	0.5	61.0	**0.34**	0.07	19
LG42	110	111	1	0.01	2168.1	30.0	8.9	19.5	47.1	4.8	1260.8	0.2	622.9	200.0	79.5	6.4	0.7	119.4	**0.46**	0.09	18
LG42	111	112	1	0.02	2653.3	51.6	10.9	28.3	74.2	7.3	1536.4	0.3	766.3	244.1	110.6	10.9	0.8	184.1	**0.57**	0.11	18
LG42	112	113	1	0.02	1517.1	15.1	4.9	10.8	24.7	2.5	917.1	0.2	405.9	136.5	47.3	3.2	0.4	64.8	**0.32**	0.06	17
LG42	113	114	1	0.03	1750.5	13.3	4.9	11.8	28.0	2.2	1048.5	0.3	478.2	157.7	54.7	3.3	0.5	58.4	**0.36**	0.07	18
LG42	114	115	1	0.02	5048.7	34.1	8.8	32.8	74.5	5.2	3377.7	0.3	1329.7	445.8	141.5	8.8	0.8	139.7	**1.06**	0.18	17
LG42	115	116	1	0.01	5503.2	18.1	3.5	34.6	70.8	2.1	3201.7	0.1	1708.8	526.8	175.1	5.9	0.1	53.3	**1.13**	0.23	20
LG42	116	117	1	0.01	2960.4	33.7	10.6	21.5	52.9	5.3	1929.3	0.3	704.5	248.9	77.0	7.5	1.1	137.1	**0.62**	0.10	15
LG42	117	118	1	0.00	1357.4	17.7	4.2	9.6	24.9	2.7	858.5	0.1	339.4	115.4	36.9	3.6	0.3	68.6	**0.28**	0.05	16
LG42	118	119	1	0.03	1480.2	10.2	2.9	10.8	24.1	1.5	830.3	0.2	411.7	136.5	49.1	2.5	0.3	38.1	**0.30**	0.06	18
LG42	119	120	1	0.03	2039.1	14.5	4.6	13.5	28.2	2.4	1172.8	0.3	559.9	185.5	59.4	3.2	0.5	58.4	**0.41**	0.08	18
LG42	120	121	1	0.03	2665.6	15.6	4.5	14.9	34.6	2.4	1495.3	0.2	709.2	237.4	68.3	3.8	0.5	63.5	**0.53**	0.10	18
LG42	121	122	1	0.03	3476.4	24.4	7.0	22.5	52.4	3.6	2093.4	0.3	970.4	317.8	108.8	5.7	0.6	90.2	**0.72**	0.13	18
LG42	122	123	1	0.03	3243.0	19.7	4.8	22.2	48.5	2.8	1911.7	0.3	907.5	294.8	95.3	5.3	0.5	69.8	**0.66**	0.12	18
LG42	123	124	1	0.03	2923.6	16.4	4.3	17.9	39.9	2.4	1694.7	0.2	792.0	263.4	85.8	4.1	0.4	61.0	**0.59**	0.11	18
LG42	124	125	1	0.03	2530.5	14.2	4.2	13.9	29.6	2.2	1454.3	0.2	673.0	227.1	66.0	3.2	0.4	58.4	**0.51**	0.09	18
LG42	125	126	1	0.03	2677.9	14.2	4.2	14.4	31.4	2.1	1606.7	0.2	725.5	246.5	68.9	3.4	0.4	57.1	**0.55**	0.10	18
LG42	126	127	1	0.04	2641.1	15.3	4.3	16.0	35.4	2.2	1653.6	0.2	691.7	235.6	75.7	3.9	0.3	58.4	**0.54**	0.09	17
LG42	127	128	1	0.04	1246.8	13.3	4.1	11.2	25.6	2.1	708.4	0.3	384.9	121.4	48.2	3.0	0.4	55.9	**0.26**	0.05	19
LG42	128	129	1	0.04	530.7	11.8	4.3	7.5	19.5	1.9	275.6	0.4	197.1	56.3	29.7	2.3	0.4	57.1	**0.12**	0.03	21
LG42	129	130	1	0.03	179.3	13.2	4.0	5.0	14.2	2.2	122.0	0.2	63.5	17.0	14.7	2.5	0.3	62.2	**0.05**	0.01	16
LG42	130	131	1	0.03	94.6	17.7	6.1	5.0	16.4	3.2	73.9	0.2	33.2	9.2	9.7	3.2	0.5	90.2	**0.04**	0.01	12
LG42	131	132	1	0.03	65.1	10.9	4.1	2.8	10.3	2.0	53.9	0.3	23.7	6.2	7.2	1.9	0.5	58.4	**0.02**	0.00	12
LG42	132	133	1	0.04	884.4	13.8	5.4	11.8	26.7	2.6	417.5	0.5	346.4	95.0	48.2	3.3	0.6	71.1	**0.19**	0.05	23
LG42	133	134	1	0.03	97.0	13.2	5.9	3.2	11.4	2.4	72.7	0.6	33.5	9.3	8.9	2.2	0.9	76.2	**0.03**	0.01	13
LG42	134	135	1	0.05	1036.8	17.4	6.9	14.4	33.1	3.0	498.4	0.4	404.7	112.4	57.7	4.0	0.7	77.5	**0.23**	0.05	23
LG42	135	136	1	0.04	417.7	12.4	5.8	6.9	17.8	2.4	218.1	0.4	158.0	44.5	25.0	2.3	0.7	68.6	**0.10**	0.02	21

HoleID	From	To	Interval	Nb2O5 %	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sm2O3	Tb4O7	Tm2O3	Y2O3	TREO %	MREO %	NdPr:TREO
LG42	136	137	1	0.04	952.0	15.4	5.1	11.8	27.3	2.7	483.2	0.4	359.3	101.5	48.2	3.3	0.6	71.1	**0.21**	0.05	22
LG42	137	138	1	0.04	3341.2	15.1	3.4	18.2	39.4	2.1	2105.2	0.1	878.3	294.8	88.9	4.0	0.3	57.1	**0.68**	0.12	17
LG42	138	139	1	0.04	2493.7	25.7	7.7	16.6	39.8	3.7	1378.0	0.3	683.5	225.9	77.3	5.5	0.7	111.8	**0.51**	0.09	18
LG42	139	140	1	0.04	2493.7	24.8	7.5	16.2	38.4	3.8	1442.5	0.4	688.2	229.0	69.6	5.1	0.7	109.2	**0.51**	0.09	18
LG42	140	141	1	0.03	1646.1	24.7	6.9	15.2	37.3	3.5	916.0	0.3	519.0	160.1	59.8	5.2	0.7	96.5	**0.35**	0.07	19
LG42	141	142	1	0.02	4520.5	51.1	14.9	30.7	79.0	7.3	2826.4	0.5	1138.4	379.4	124.7	11.3	1.2	207.0	**0.94**	0.16	16
LG42	142	143	1	0.00	11559.2	29.8	5.7	39.4	77.3	3.2	7118.9	0.2	2706.0	955.7	212.8	11.2	0.3	63.5	**2.28**	0.37	16
LG42	143	144	1	0.00	10957.3	29.4	5.7	35.8	70.3	3.2	6602.9	0.2	2554.4	913.4	190.8	9.9	0.4	73.7	**2.14**	0.35	16
LG42	144	145	1	0.00	10945.0	27.2	5.5	35.8	69.7	2.8	6755.3	0.1	2507.8	898.9	189.0	10.2	0.3	61.0	**2.15**	0.34	16
LG42	145	146	1	0.01	13266.7	43.7	8.9	54.1	114.3	4.8	8678.7	0.3	3067.6	1075.3	264.4	14.7	0.6	110.5	**2.67**	0.42	16
LG42	146	147	1	0.01	9311.3	37.0	8.5	51.4	104.5	4.3	5254.1	0.4	2507.8	826.4	255.1	12.5	0.5	97.8	**1.85**	0.34	18
LG42	147	148	1	0.03	5589.2	44.2	9.1	33.0	77.5	5.3	3354.2	0.4	1469.7	476.0	156.5	11.1	0.7	132.1	**1.14**	0.20	17
LG42	148	149	1	0.02	6879.0	54.5	11.3	45.2	112.0	6.5	4362.8	0.5	1662.1	561.8	185.5	14.9	0.9	167.6	**1.41**	0.23	16
LG42	149	150	1	0.03	2972.7	23.6	7.0	21.0	48.3	3.4	1571.6	0.5	807.1	256.1	91.6	6.1	0.7	91.4	**0.59**	0.11	18
LG42	**150**	**153.25**	**3.25**	**Missing drill core**																	
LG42	153.25	154	0.75	0.02	4176.6	25.4	5.1	28.7	62.0	2.9	2451.2	0.3	1096.4	354.0	128.7	7.3	0.5	74.9	**0.84**	0.15	17
LG42	154	155	1	0.00	9630.7	27.3	5.8	36.7	71.7	2.8	5418.3	0.1	2566.1	863.9	211.6	10.1	0.3	68.6	**1.89**	0.35	18
LG42	155	156	1	0.00	11792.6	38.7	7.2	44.0	92.3	4.2	7388.6	0.2	2962.7	1006.4	245.8	13.0	0.5	96.5	**2.37**	0.40	17
LG42	156	157	1	0.00	16460.6	48.5	9.5	56.7	116.4	5.4	11059.5	0.3	3569.2	1298.8	301.5	17.3	0.5	121.9	**3.31**	0.49	15
LG42	157	158	1	0.00	11190.7	37.6	7.4	45.6	90.0	4.0	6591.1	0.2	2927.7	989.5	237.7	12.8	0.4	104.1	**2.22**	0.40	18
LG42	158	159	1	0.00	8930.5	30.8	6.2	40.3	78.6	2.8	4749.8	0.2	2671.1	843.3	222.6	10.1	0.3	73.7	**1.77**	0.36	20
LG42	159	160	1	0.00	9765.8	32.1	6.4	43.4	83.4	3.4	5864.0	0.3	2846.0	898.9	244.7	11.0	0.4	83.8	**1.99**	0.38	19
LG42	160	161	1	0.00	8905.9	21.8	4.3	32.4	59.4	2.1	5265.9	0.2	2379.5	791.4	188.4	8.2	0.3	49.5	**1.77**	0.32	18
LG42	161	162	1	0.00	11952.3	27.3	5.4	41.9	78.8	3.0	6896.1	0.1	3032.6	1042.7	244.7	10.9	0.3	63.5	**2.34**	0.41	17
LG42	162	163	1	0.00	9299.0	17.4	3.8	27.8	51.3	1.7	5758.4	0.1	2181.2	776.9	164.1	7.3	0.2	39.4	**1.83**	0.30	16
LG42	163	164	1	0.00	14188.0	27.0	5.6	40.8	73.5	2.6	9218.2	0.1	3137.6	1140.5	236.6	11.3	0.2	57.1	**2.81**	0.43	15
LG42	164	165	1	0.00	15784.9	24.6	4.8	41.2	76.9	2.4	11118.1	0.2	3149.3	1198.5	240.0	11.6	0.2	50.8	**3.17**	0.44	14
LG42	165	166	1	0.00	10453.7	21.1	4.2	33.6	61.5	2.1	6673.2	0.1	2414.4	855.4	190.2	9.0	0.2	45.7	**2.08**	0.33	16
LG42	166	166.35	0.35	0.00	10773.1	30.5	5.5	42.0	81.9	3.2	7212.7	0.2	2484.4	868.7	216.3	10.8	0.4	82.5	**2.18**	0.34	15

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (eg 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.* • *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 (eg '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 (eg submarine nodules) may warrant disclosure of detailed information.*	• The relogging and resampling program was undertaken on historic diamond drill core. Historic sampling was completed on 3m to 5m composites. The current sampling campaign comprised 1m quarter core samples from start of hole to end of hole from available drill core. The historic drilling was undertaken with diamond drill rigs using HQ with intermittent NQ tails. • Sampling has been undertaken by OCN geologists. Continuous quarter core samples were taken from the same section within each core run/core box to maintain sample integrity. It was noted that some core intervals were missing and this has been discussed in the body of the announcement. In weathered zones quarter core samples were taken using a trowel, mallet and chisel. In hard rock quarter core samples were cut using a diamond saw. • Core sampling was undertaken every 1m respecting geological contacts. Sampling practice is considered appropriate to the geology and style of mineralisation.
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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).*	• All historical drilling was vertical from surface using diamond drill rigs and HQ core diameter, with intermittent NQ tails. • Historic diamond drilling completed by previous operators. Drilling techniques are considered appropriate for the lithologies encountered within the carbonatite complex.

Criteria	JORC Code explanation	Commentary
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.* • *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.*	• Due to the historic nature of the drilling detailed information about recovery during the drilling process is not available, however on observation recovery was generally high within competent carbonatite complex units. Core recovery has been recorded for each drill run and calculated as a percentage of the drilled interval. • Continuous quarter core samples were taken from the same section within each core run/core box to maintain sample integrity. • Historic core recovery has been good, therefore no sample bias introduced.
Logging	• *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.*	• All historic drill core mentioned in this announcement has been relogged by OCN geologists as part of an ongoing relogging and resampling campaign. Lithology, core recovery, alteration, veining, magnetic susceptibility and effervescence have been logged and recorded in the OCN database. • Geological logging of core is qualitative and descriptive in nature. • Core has been rephotographed by OCN geologists and field staff. • Historical drill holes have been logged from start to end of hole on available drill core.

Sub-sampling techniques and sample preparation	• *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 sampling.*
	• *Whether sample sizes are appropriate to the grain size of the material being sampled.*
		• The historical drill core is, for the most part weathered and friable and in most cases the core has been halved and historically sampled. For the OCN resampling, quarter core was used (where possible leaving a full quarter core remaining in the core boxes).
		• Quarter core samples were bagged (plastic sample bags), labelled, and recorded in an Excel spreadsheet prior to dispatch to ALS Belo Horizonte, Brazil (ALS is independent of OCN and its facilities are accredited to the recognized quality standard of International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 17025: 2005 for all relevant procedures).
		• The following sample preparation was undertaken at the ALS Belo Horizonte preparation lab facility:
		  ○ Received Sample Weight (WEI-21)
		  ○ Crushing QC Test (CRU-QC)
		  ○ Pulverising QC Test (PUL-QC)
		  ○ Sample Login (LOG-22)

Criteria	JORC Code explanation	Commentary
		○ Fine Crushing – 70% <2mm (CRU-31) ○ Split Sample – Riffle Splitter (SPL-21) ○ Pulverise up to 250g 85% <75um (PUL-31) • The following analysis was undertaken at the ALS Lima facility: ○ Whole Rock Package – ICP-AES (ME-ICP06) ○ LOI at 1000°C (OA-GRA05) ○ Lithium Borate Fusion ICP-MS (ME-MS81h) ○ Total Calculation for ICP06 (TOT-ICP06) • Internal laboratory control samples included certified standards, blanks, and duplicates.
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 (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	• OCN samples were delivered to external laboratories and analysed as detailed above. Assay and laboratory procedures are considered in line with industry standards. • No geophysical tools (or other tools) were used in this initial due diligence sampling campaign. • Internal and laboratory QA/QC included certified reference material Standards, Blanks and Duplicates inserted at industry-standard frequencies. Results are within acceptable limits.
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.*	• Verification of original drillhole logs and location data was made by OCN geologists. All relogging has been completed and validated by OCN geologists. • No historical twinned holes were completed on the project. • There is no record of original data capture for the historical drilling. For the OCN relogging and resampling, data was captured on laptop and tablet using Excel spreadsheets. • No adjustment has been made to the data. • OCN uses the following definitions:

Criteria	JORC Code explanation	Commentary
		• **TREO (Total Rare Earth Oxides) =** [La2O3] + [CeO2] + [Pr6O11] + [Nd2O3] + [Sm2O3] + [Eu2O3] + [Gd2O3] + [Tb4O7] + [Dy2O3] + [Ho2O3] + [Er2O3] + [Tm2O3] + [Yb2O3] + [Lu2O3] + [Y2O3] • **MREO (Magnet Rare Earth Oxides) =** [Nd2O3] + [Pr6O11] + [Tb4O7] + [Dy2O3] • **NdPr:TREO (NdPr Ratio)** calculation includes the summation of Pr6O11 + Nd2O3 divided by TREO (Total Rare Earth Oxides) • pXRF results were compared against laboratory assays for selected intervals. Correlation was assessed and used qualitatively to validate pXRF trends.
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.*	• The drill hole collar information was sourced from historic records and validated where possible. Coordinates are reported in an appropriate local or WGS84 / UTM Zone 23 South grid system. • Elevations are derived from historic survey data and/or regional topography.
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.*	• The average drill spacing across the project area is 300m x 300m. In the NE section of the project area the drill holes are spaced an average 100 to 150m apart, while to the south a historical regional exploration program spaced drill holes at ~1000m apart. • No Mineral Resource or Ore Reserve estimation has been applied to the project at this time. • No sample compositing was applied to the resampling campaign.
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.*	• All historical drill holes were vertical with no angled holes completed. • No bias is considered to have been introduced by the existing sampling orientation.

Criteria	JORC Code explanation	Commentary
Sample security	• *The measures taken to ensure sample security.*	• Historic drill core is stored in a locked, secure and monitored facility. • For the OCN resampling, Chain of Custody is managed and maintained by OCN geologists. Samples were transported to commercial laboratory (ALS) by OCN geologists and field staff.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No external audits or review of the sampling techniques and data have been completed. • No independent audits of the pXRF data have been completed at this stage. The methodology aligns with accepted industry practice for early-stage REE exploration.

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *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.* • *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.*	• The Serra Negra Project comprises permits 100% held by Songeo Mineração S.A. in the Alto Paranaíba Igneous Province, in the state of Minas Gerais. • As announced on 28 April 2026, Oceana has agreed to acquire 100% of the shares in Songeo Mineração S.A. subject to certain conditions precedent. • Tenement 831.298/1984 is currently under process of application for mining concession. • Tenement 831.299/1984 is an Exploration Permit. • Tenement 831.796/1984 is an Exploration Permit. • Tenement 830.280/1985 is currently under process of application for mining concession. • Tenement 830.077/1988 is currently under process of application for mining concession. • Tenement 832.785/2007 is an Exploration Permit. • Relevant Permits are underway and are a condition precedent of the Acquisition Agreement, to be confirmed prior to Completion.

Criteria	JORC Code explanation	Commentary
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• Historical drilling by previous explorers total 102 diamond drill holes for 13,805m (average depth 135m, max depth drilled 208.75m). • The historic drilling primarily targeted phosphate mineralisation, with no targeting of REE or niobium.
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The Serra Negra Alkaline–Carbonatitic Complex is a circular igneous intrusion located in western Minas Gerais, Brazil, near the municipality of Patrocínio. It formed during the Late Cretaceous (~83 million years ago) as part of the Alto Paranaíba Igneous Province, a region known for alkaline and carbonatite magmatism. The complex was emplaced into older metamorphic rocks of the Brasília Belt and appears as a domed structure, capped by strongly weathered lateritic soils. Serra Negra is composed mainly of ultramafic rocks (dunites and phlogopitites), together with carbonatites. These rock types are genetically related and formed through a combination of fractional crystallization, liquid immiscibility between silicate and carbonatite magmas, and metasomatic alteration. Carbonatite intrusions commonly cut the ultramafic rocks as veins and dikes, locally transforming dunites into phlogopitite-rich rocks. The carbonatites and associated rocks are rich in phosphate (apatite) and niobium and contain minerals such as magnetite, perovskite, and rare earth–bearing phases. Intense tropical weathering has further concentrated these minerals and elements near the surface.

Drill hole Information	• *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:*
	  ◦ *easting and northing of the drill hole collar*
	  ◦ *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*
	  ◦ *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*
		• All requisite drillhole information is tabulated in Table 2 of this release.

Criteria	JORC Code explanation	Commentary
	Person should clearly explain why this is the case.	
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg 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.*	• All significant drill results have been reported using a cut-off grade of 0.5% TREO and 0.1% Nb_2O_5 • No data aggregation has been used in this release. • No metal equivalents have been used in this release.
Relationship between mineralisation widths and intercept lengths	• *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 only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	• Limited information is available on the geometry of mineralisation; however, all historical drilling was vertical and the mineralisation is expected to be flat lying. • True widths are unknown at this stage. All reported intervals refer to downhole lengths.
Diagrams	• *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.*	• Relevant plans and sections showing drill hole locations are presented in the body of the text of this announcement.
Balanced reporting	• *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.*	• All TREO and Niobium exploration results assayed by Oceana are reported. • All significant drill results have been highlighted in the text using a cut-off grade of 0.5% TREO and 0.1% Nb_2O_5
Other substantive exploration data	• *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*	• Discussion of the results is included in detail in the announcement.

Criteria	JORC Code explanation	Commentary
	characteristics; potential deleterious or contaminating substances.	
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• Further systematic sampling, laboratory assays, and potential infill drilling are planned to better define the REE mineralisation.