

## KANGANKUNDE CONTINUES TO DELIVER HIGH-GRADE RARE EARTH ASSAYS AND EXTENSIVE INTERSECTIONS

*ALL HOLES INTERSECTED RARE EARTHS; GRADES OF UP TO 18.8% TREO*

### HIGHLIGHTS

- Assay results for a further 14 RC holes and 1 Diamond hole, all with extensive mineralisation and each having significant levels of neodymium-praseodymium (NdPr); average NdPr of ~21%
- Significant intersections include:
  - ❖ KGKRC029: 26 metres from 58 to EOH averaging 6.15% TREO in including:
    - 3 metres at 15.16% from 69 metres
  - ❖ KGKRC020: 167 metres from surface to EOH averaging 2.85% TREO in including:
    - 134 metres @ 3.18% TREO from surface
  - ❖ KGKRC027: 80 metres from surface averaging 2.63% TREO in including:
    - 38 metres @ 3.46% TREO from surface
- KGKRC031: 175 metres from surface to EOH averaging 2.31% TREO in including:
  - 29 metres @ 2.93% TREO from 127 metres; and
  - 5 metres @ 3.28% TREO from 162 metres.
- KGKRC015: 160 metres from surface to EOH averaging 2.04% TREO in including:
  - 126 metres @ 2.82% TREO from 62.2 metres
- Assay results again show non-radioactive rare earths mineralisation
- Multiple holes ending in mineralisation
- As well as high grade TREO mineralisation continuing to occur in the Carbonatite, encouragingly, lower grade mineralisation is also evident in the breccia material
- Over [11,200] metres of drilling completed in Phase 1 12,500 metre program with assays from another [43] holes pending
- Preliminary metallurgy results expected in the near term
- On-track to achieve Mineral Resource Estimate next quarter

**Lindian's Chief Executive Officer, Alistair Stephens commented:** *"As we expected, these latest assays continue to demonstrate high grade and very broad, consistent intersections of non-radioactive mineralisation that is present at Kangankunde. The NdPr ratio is again very favourable averaging ~21%. Also encouraging is the consistent rare earths grades in areas of breccia mineralisation. Current drilling across multiple drill holes is demonstrating that the grade of the breccia is in many places well above 1% TREO, and as high as 2% TREO. This potentially adds to the inventory of mineralisation at depth and peripheral to the central carbonatite mineralised system. Lindian expects to deliver its maiden Mineral Resource Estimate next quarter. I can also confirm that the metallurgical test work in Perth is progressing well and we expect to report results in the near term.*

*Concurrently with the mine development drill program and the metallurgy, we are advancing investigations in to a low capex, first phase production facility which we are targeting to have operational in 2024 given we are fully permitted to commence mining operations. Interest from rare earths industry participants in this project is encouraging and we expect to report on progress more fully in the coming month."*

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**Lindian Resources Limited (ASX:LIN) ("Lindian" or "the Company")** is pleased to advise of the receipt further assays from the Phase 1 drilling program at the Kangankunde Rare Earths Project in Malawi.

The assays reported below are from fourteen (14) additional reverse circulation (RC) drill holes (being holes **KGKRC015 to KGKRC031 inclusive**, excepting holes **KGKRC017, KGKRC018** and **KGKRC026**, which remain in the laboratory undergoing analysis.

The assays reported include results from one core drill hole (DD), hole **KGKDD002**.

All holes have extensive intersections of mineralisation which are non-radioactive and having significant percentages of critical Rare Earths metal elements neodymium and praseodymium (NdPr).

The Company also confirms that metallurgical test work is underway in Perth Australia on a 1 tonne sample with preliminary results anticipated in the near term.

## **DRILL ASSAY RESULTS**

The holes being reported in this announcement were designed to evaluate three areas:

- a) the central northern area of the carbonatite complex; and
- b) the central western side of the carbonatite complex; and
- c) the central ridge of the carbonatite complex.

### **1. Central Northern Carbonatite Complex**

Holes KGKRC20, KGKRC025, KGKRC028, KGKRC030 are part of a radial pattern of holes testing the central northern area of the carbonatite complex.

KGKRC020 drilled on an azimuth of 290 at a dip angle of -45° and intersected carbonatite/carbonatite breccia zones over its entire length, assaying 167 metres at 2.85% TREO; including 134 metres at 3.14% TREO from surface.

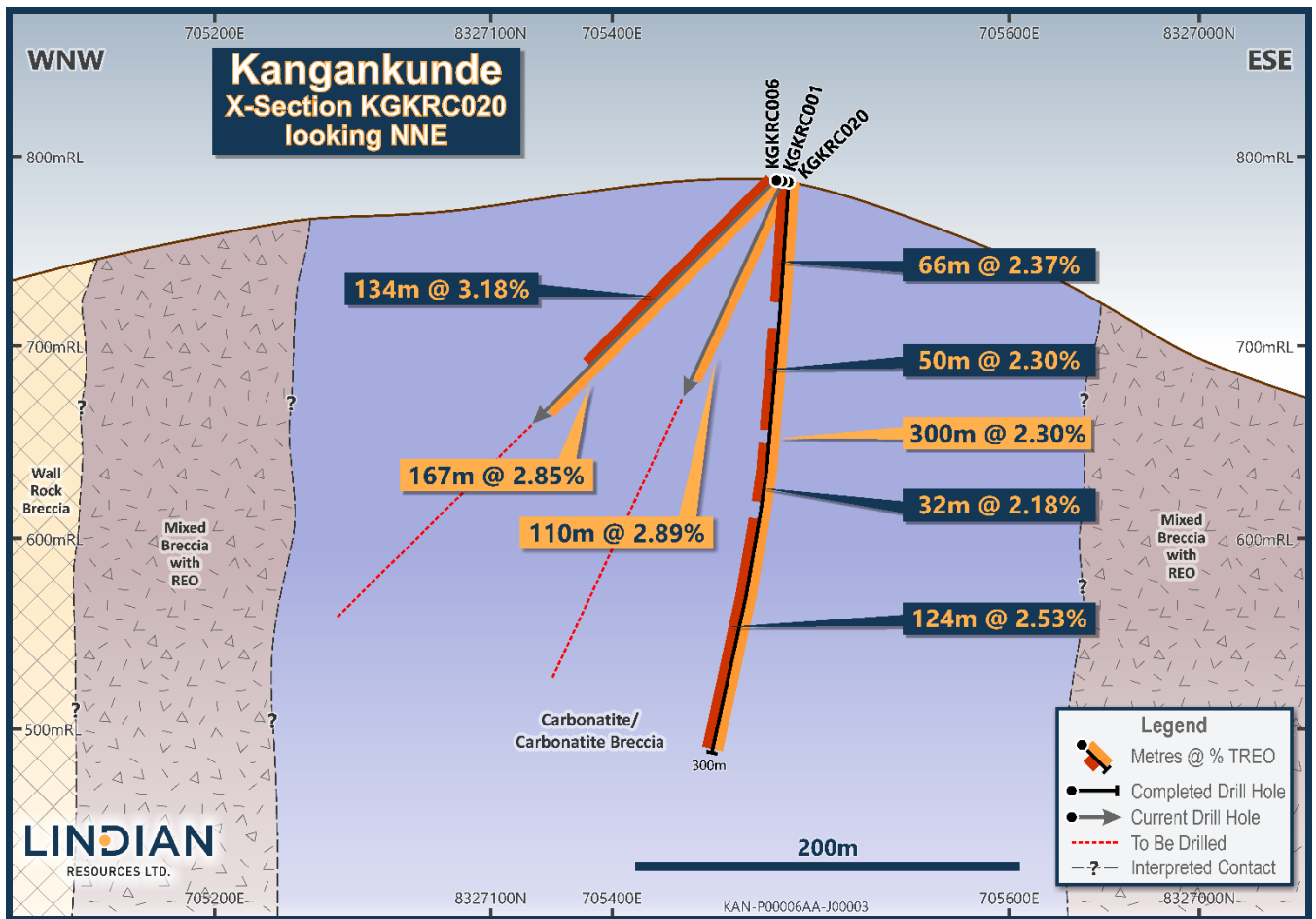
The distribution of grade is very similar to the corresponding portion of that previously reported for hole KGKRC001<sup>1</sup> (110 metres from surface averaging 2.89% TREO) and hole KGKRC006<sup>2</sup> (300 metres from surface averaging 2.30% TREO), both of which were drilled in the same section. Refer over.

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<sup>1</sup> ASX:LIN Release 5 January 2023; "KANGANKUNDE DELIVERS OUTSTANDING HIGH GRADE RARE EARTHS ASSAYS"

<sup>2</sup> ASX:LIN Release 16 January 2023; "KANGANKUNDE DELIVERS MORE OUTSTANDING RARE EARTHS ASSAYS"

Figure 1 below is an east facing cross section showing KGKRC020 in relation to the previously reported holes KGKRC001 and KGKRC006. This section is shown as section line A-A' on the drill status plan shown in Figure 4.



**Figure 1: Cross section facing north east (A-A' Figure 4) showing KGKRC020 in relation to the previously reported KGKRC001 and KGKRC006**

Holes KGKRC025, KGKRC028 and KGKRC030 were designed to drill the north-eastern sector of the carbonatite complex.

All holes intersected carbonatite and mixed carbonatite/gneiss breccia. Intersections in this area are lower grade than those of the north-western area due to a greater abundance of carbonatite/gneiss mixed breccia.

All holes achieved lengthy intersections averaging between 1.56% and 1.74% TREO as listed in Table 1.

Figure 2 below is north facing cross section 8327100mN showing KGKRC025 in relation to previously reported holes KGKRC002, KGKRC003 and KGKRC006, and KGKRC014.

This section also shows the planned depth extension drill hole to be drilled on completion of the Phase 1 definition drilling.

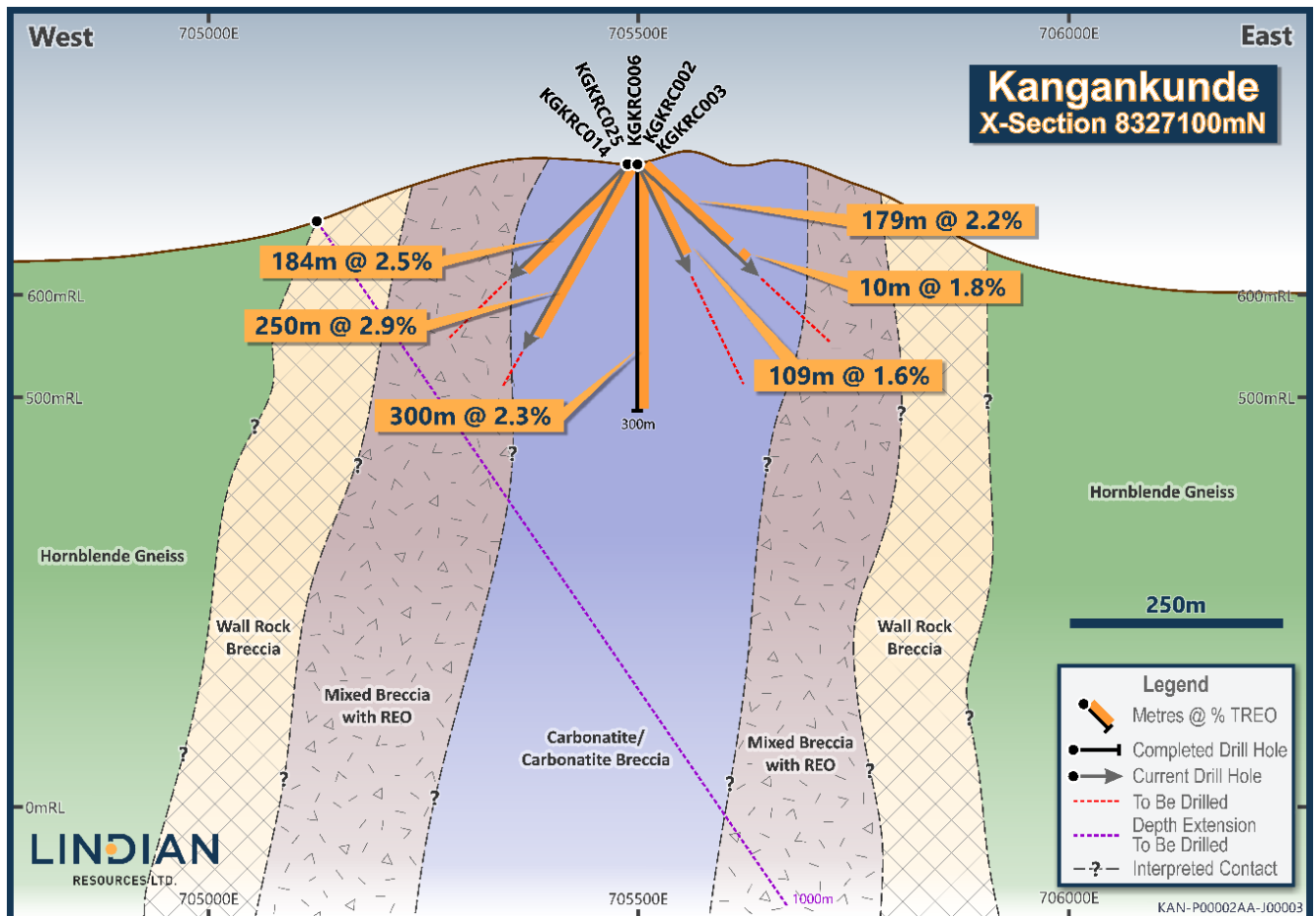


Figure 2: 8327100mN (B-B' Figure 4) cross section showing Phase 1 holes with reported results and planned Phase 2 depth extension hole.

## 2. Central Western Carbonatite Complex

Holes KGKDD002, KGKRC015 and KGKRC016 were drilled in the western side of the central carbonatite targeting western zones of high-grade carbonatite hosted mineralisation previously reported<sup>3</sup> in KGKRC005 (117 m at 2.8% TREO) and KGKRC007 (186 metres at 3.0% TREO).

All holes returned mineralised intervals of carbonatite and mixed breccia, with grades consistently at or above 2% TREO. The best results for these holes were returned for hole KGKDD002 with 126 metres at 2.82%.

**The existence of lower grade mineralisation in the breccia material is highly encouraging as the breccia had received little historic exploration interest for rare earths mineralisation.**

<sup>3</sup> ASX:LIN Release 24 January 2023; "KANGANKUNDE CONTINUES TO DELIVER OUTSTANDING HIGH GRADE RARE EARTHS ASSAYS"

Figure 3 below is a north facing cross section illustrating holes KGKDD002, KGKRC015 and KGKRC027 in relation to previously reported KGKRC13 and KGKRC011.

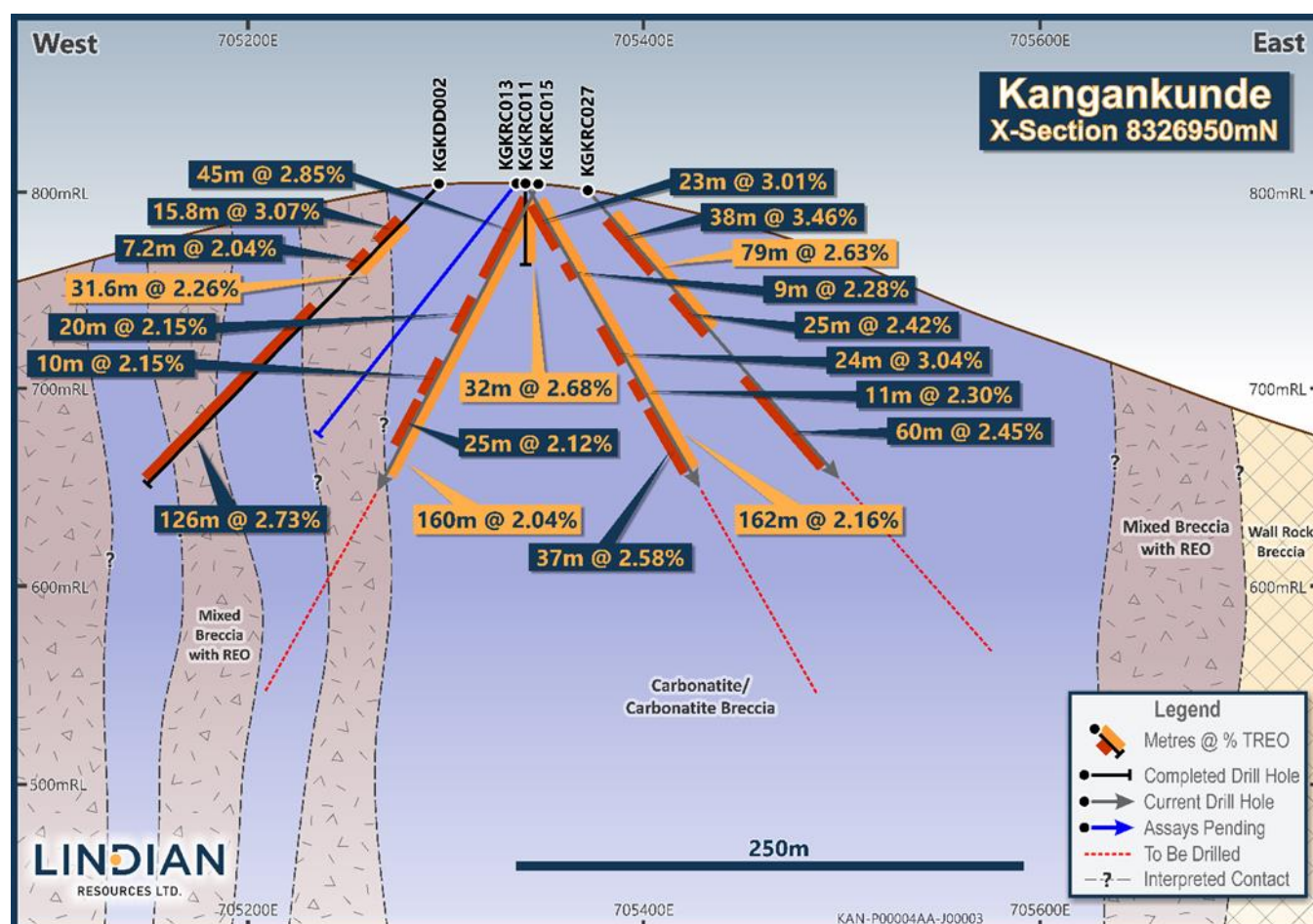


Figure 3: North facing cross section 8326950mN (C-C' Figure 4) showing KGKDD002, KGKRC015 and KGKRC027 in relation to the previously reported KGKRC011 and KGKRC13.

### 3. Central Ridge of the Carbonatite Complex

Holes KGKRC019, KGKRC021, KGKRC022, KGKRC024, KGKRC027, KGKRC029, and KGKRC031 all tested the central ridge area of the carbonatite.

Mineralisation was mixed with carbonatite intersected in KGKRC027 (80 metres at 2.63% TREO from surface then 60 metres at 2.45% TREO from 100 metres) being the most consistent. Further south of KGKRC027, intersections were lower grading between 1.3% and 1.5% TREO with holes KGKRC021, KGKRC022 and KGKRC024 and the upper portion of KGKRC029 potentially within a fault disrupted zone.

The lower 26 metres of KGKRC029 gave the highest-grade intersection seen at Kangankunde to date (**26 metres at 6.15% TREO**) this included a **3 metre zone averaging 15.26% TREO** with a peak assay of 18.8% TREO in a 1 metre interval. Core drilling is currently extending this hole to establish the full extent of the intersection.

Hole KGKRC031, the southern-most hole with assay data received, intersected 175 metres at 2.31% TREO. The intersection in KGKRC031 is very encouraging for more high-grade mineralisation to exist in this area given that this southern area has not been historically tested by trenching or drilling and little is known about the geology.

Table 1 below lists the significant intersections reported in this announcement.



**Table 1: Significant rare earth intersections\***

Hole ID	From (m)	To (m)	Intersection (m)	TREO %	NdPrO** ppm	NdPrO% of TREO***
<b>KGKDD002</b>	<b>0</b>	<b>31.6</b>	<b>31.6</b>	<b>2.26</b>	<b>3,816</b>	<b>17.5%</b>
Including	0	15.8	15.8	3.07	5,027	16.7%
and	24.4	31.6	7.2	2.04	3,632	18.0%
<b>then</b>	<b>62.2</b>	<b>188.2</b>	<b>126</b>	<b>2.82</b>	<b>4,793</b>	<b>17.1%</b>
<b>KGKRC0015</b>	<b>0</b>	<b>160</b>	<b>160</b>	<b>2.04</b>	<b>3,813</b>	<b>19.1%</b>
Including	0	45	45	2.85	5,403	19.1%
	57	77	20	2.15	3,876	18.5%
	100	110	10	2.16	3,929	19.2%
	116	141	25	2.12	3,773	18.2%
<b>KGKRC0016</b>	<b>0</b>	<b>171</b>	<b>171</b>	<b>1.71</b>	<b>3,438</b>	<b>20.4%</b>
Including	24	108	84	2.02	3,964	19.7%
	160	169	9	2.35	4,713	20.2%
<b>KGKRC0019</b>	<b>0</b>	<b>56</b>	<b>56</b>	<b>1.78</b>	<b>3,967</b>	<b>22.6%</b>
Including	16	56	40	1.97	4,321	21.9%
<b>then</b>	<b>65</b>	<b>169</b>	<b>104</b>	<b>1.98</b>	<b>4,177</b>	<b>22.2%</b>
Including	65	75	10	2.12	4,477	22.4%
	94	97	3	2.29	4,541	20.2%
	112	169	57	2.50	5,066	20.7%
<b>KGKRC020</b>	<b>0</b>	<b>167</b>	<b>167</b>	<b>2.85</b>	<b>5,836</b>	<b>20.7%</b>
Including	0	134	134	3.18	6,523	20.6%
	141	145	4	2.09	3,813	18.3%
	145	159	7	2.14	4,196	20.0%
<b>KGKRC021</b>	<b>0</b>	<b>89</b>	<b>89</b>	<b>1.26</b>	<b>2,851</b>	<b>24.0%</b>
Including	68	89	21	2.17	4,708	21.7%
<b>KGKRC022</b>	<b>0</b>	<b>146</b>	<b>146</b>	<b>1.34</b>	<b>3,195</b>	<b>24.2%</b>
Including	0	15	15	1.81	4,265	23.5%
	41	46	5	2.54	5,478	21.6%
<b>KGKRC023</b>	<b>0</b>	<b>28</b>	<b>28</b>	<b>2.87</b>	<b>6,136</b>	<b>21.4%</b>
<b>KGKRC024</b>	<b>0</b>	<b>169</b>	<b>169</b>	<b>1.50</b>	<b>3,520</b>	<b>23.8%</b>
Including	84	107	33	2.11	4,917	23.6%
	115	131	16	2.08	4,762	23.0%
<b>KGKRC0025</b>	<b>0</b>	<b>109</b>	<b>109</b>	<b>1.56</b>	<b>3,454</b>	<b>20.8%</b>
Including	0	4	4	2.75	5,470	20.3%
	12	16	4	2.83	4,913	17.1%
	27	31	4	2.61	4,775	18.3%
	61	69	8	2.09	5,076	24.2%
	102	108	6	2.00	4,288	21.5%
<b>KGKRC027</b>	<b>0</b>	<b>80</b>	<b>80</b>	<b>2.63</b>	<b>5,625</b>	<b>22.4%</b>
Including	0	38	38	3.46	7,308	21.7%
and	55	80	25	2.42	4,890	20.8%
<b>then</b>	<b>110</b>	<b>170</b>	<b>60</b>	<b>2.45</b>	<b>5,466</b>	<b>22.6%</b>
<b>KGKRC0028</b>	<b>0</b>	<b>169</b>	<b>169</b>	<b>1.74</b>	<b>3,818</b>	<b>22.2%</b>
Including	1	11	10	2.61	4,558	17.3%
	29	81	52	2.12	4,515	21.5%
	159	169	10	2.19	4,983	22.3%
<b>KGKRC029</b>	<b>58</b>	<b>84</b>	<b>26</b>	<b>6.15</b>	<b>11,912</b>	<b>20.2%</b>
<b>KGKRC030</b>	<b>0</b>	<b>188</b>	<b>188</b>	<b>1.61</b>	<b>3,396</b>	<b>21.3%</b>
Including	0	6	6	2.36	4,338	18.1%
	11	32	22	2.08	3,687	17.9%
	60	66	6	2.10	5,098	24.2%
	159	166	7	2.15	4,004	19.6%
<b>KGKRC031</b>	<b>0</b>	<b>175</b>	<b>175</b>	<b>2.31</b>	<b>4,794</b>	<b>20.9%</b>
Including	25	95	70	2.74	5,488	20.2%
	103	121	18	2.16	4,465	20.8%
	127	156	29	2.93	6,331	20.8%
	162	167	5	3.28	6,902	21.1%

\* Bold text entire hole no cut-off applied; internal intersections accumulated at > 2% TREO cut-off.

\*\* NdPrO = Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub>, \*\*\* NdPrO% / TREO% x 100

### Neodymium and Praseodymium Ratio

The mineralisation is dominated by light rare earths cerium (Ce), lanthanum (La), neodymium (Nd) and praseodymium (Pr). The total of Nd+Pr content in oxide form constitutes on average of about 21% of the TREO in all holes reported in this release.

### Non-Radioactive Mineralisation

Radionuclides uranium (U) and thorium (Th) continue to be low in all drilling. Table 2 shows the average content for the each of the reported drill holes. Detailed individual interval assays are shown in Appendix 2 of this release.

**Table 2: Average radionuclides thorium and uranium content of mineralisation**

Hole ID	From (m)	To (m)	Intersection (m)	Th ppm	U ppm
KGKDD002	0	188.17 (EOH)	188.17	33	3
KGKRC015	0	160 (EOH)	160	39	7
KGKRC016	0	171 (EOH)	171	43	4
KGKRC019	0	169 (EOH)	169	48	5
KGKRC020	0	167 (EOH)	167	62	8
KGKRC021	0	89 (EOH)	89	37	5
KGKRC022	0	147 (EOH)	147	51	8
KGKRC023	0	23 (EOH)	23	50	7
KGKRC024	0	169 (EOH)	169	50	6
KGKRC025	0	109 (EOH)	109	39	8
KGKRC027	0	170 (EOH)	170	56	8
KGKRC028	0	169 (EOH)	169	46	8
KGKRC029	0	84 (EOH)	84	61	5
KGKRC030	0	188 (EOH)	188	40	9
KGKRC031	0	175 (EOH)	175	34	5

**KANGANKUNDE SIMPLIFIED GEOLOGY PLAN AND DRILL HOLE LOCATIONS**

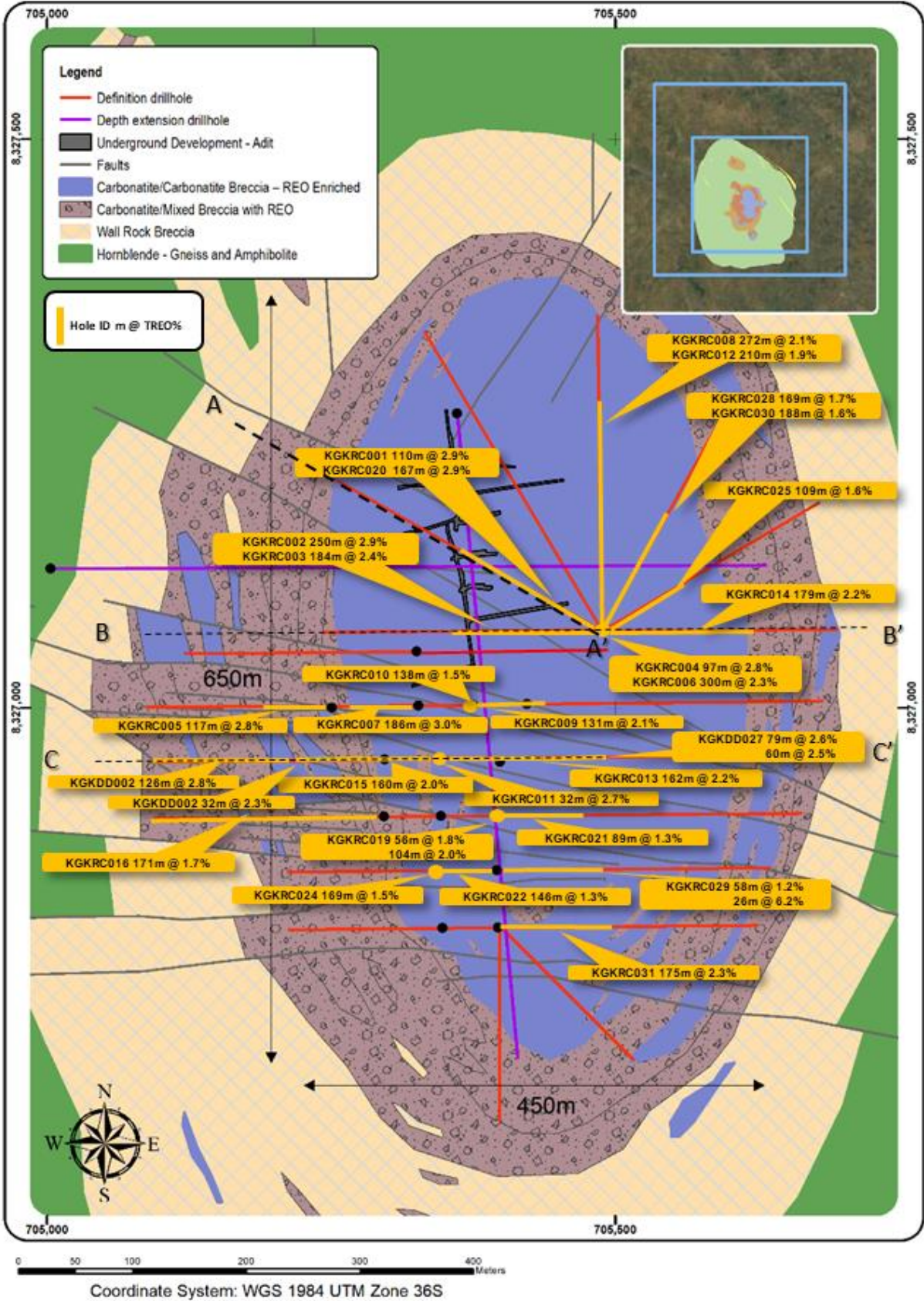


Figure 4 Kangankunde central carbonatite geology plan with drill intersections reported to date



**PHASE 1 PROGRAM STATUS**

A total of 62 RC holes for 9,813 drill metres and 10 core drill holes, including 6 core tails to RC holes, for 1461.6 metres had been completed as at the end of day on 08 March 2023, the status of the drill hole sampling and assay is as follows:

**Table 3: Completed drill hole sampling and assay status at 8th March 2023**

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC001	✓				
KGKRC002	✓				
KGKRC003	✓				
KGKRC004	✓				
KGKRC005	✓				
KGKRC006	✓				
KGKRC007	✓				
KGKRC008	✓				
KGKRC009	✓				
KGKRC010	✓				
KGKRC011	✓				
KGKRC012	✓				
KGKRC013	✓				
KGKRC014	✓				
KGKRC015	✓				
KGKRC016	✓				
KGKRC017		✓			
KGKRC018		✓			
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KGKRC026		✓			
KGKRC027	✓				
KGKRC028	✓				
KGKRC029	✓				
KGKRC030	✓				
KGKRC031	✓				
KGKRC032		✓			
KGKRC033		✓			
KGKRC034			✓		
KGKRC035			✓		
KGKRC036			✓		

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC037		✓			
KGKRC038		✓			
KGKRC039		✓			
KGKRC040		✓			
KGKRC041			✓		
KGKRC042			✓		
KGKRC043			✓		
KGKRC044			✓		
KGKRC045			✓		
KGKRC046			✓		
KGKRC047			✓		
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KGKRC062					✓
KGK DD001		✓			
KGK DD002	✓				
KGKDD003		✓			
KGKDD004			✓		
KGKRCDD001			✓		
KGKRCDD002					✓
KGKRCDD003			✓		
KGKRCDD009		✓			
KGKRCDD018					✓
KGKRCDD029					Sampling in progress

## PREVIOUSLY REPORTED DRILL RESULTS

Table 4 below summarises previous drill results and the related ASX release date. **Error! Reference source not found.** 4 shows previously reported intersections and pending drill results with the planned deep exploration hole to be conducted in Phase 2 of the drilling program.

Table 4: Previously released drilling results;

Hole ID	From (m)	To (m)	Intersection (m)	TREO %	NdPrO% of TREO**	ASX release Date*
KGKRC001	0	110	110	2.9	21%	5 <sup>th</sup> January 2023
KGKRC002	0	250	250	2.9	21%	5 <sup>th</sup> January 2023
KGKRC003	0	184	184	2.5	21%	16 <sup>th</sup> January 2023
KGKRC004	0	97	97	2.8	20%	16 <sup>th</sup> January 2023
KGKRC005	0	117	117	2.8	16%	24 <sup>th</sup> January 2023
KGKRC006	0	300	300	2.3	20%	16 <sup>th</sup> January 2023
KGKRC007	0	186	186	3.0	17%	24 <sup>th</sup> January 2023
KGKRC008	0	272	272	2.1	19%	16 <sup>th</sup> January 2023
KGKRC009	0	131	131	2.1	22%	24 <sup>th</sup> January 2023
KGKRC010	0	138	138	1.5	22%	24 <sup>th</sup> January 2023
KGKRC011	0	32	32	2.7	17%	24 <sup>th</sup> January 2023
KGKRC012	0	210	210	1.9	20%	6 <sup>th</sup> February 2023
KGKRC013	0	162	162	2.2	22%	6 <sup>th</sup> February 2023
KGKRC014	0	179	179	2.2	23%	6 <sup>th</sup> February 2023

\*refer to Company website for the date of the ASX announcement for the reporting of exploration results

## PROGRAM SUMMARY

The Kangankunde drilling program is planned in separate phases with distinct target outcomes. The Company commenced drilling at Kangankunde in late October 2023 with the intention to undertake a drill program that will culminate in a mineral resources estimate during the upcoming quarter.

### PHASE 1 DRILL PROGRAM (MINE DEFINITION)

The Phase 1 program consists of 10,000 metres of RC drilling and 2,500 metres of core drilling on the Kangankunde hill top. The drill pattern is based on 50 metre east-west sections, and as radial fans perpendicular to the interpreted carbonatite boundary where topography provides access. The program is designed to give initial data for resource evaluation and mine planning.

### PHASE 2 DRILL PROGRAM (DEPTH EXTENSION)

Two additional deep drill holes are planned from drill pads near the base of the Kangankunde hill and are designed to allow drilling to continue during the wet season. These two drill holes, each planned to be 1,000 metres in length, are designed to test the N-S and E-W axes of the carbonatite between 300 metres and 800 metres below the hill top. The Phase 2 Drill Program is likely to commence in the second half of the 2023.

## **METALLURGICAL TEST WORK**

The Company is undertaking metallurgical testwork on a one tonne sample in Perth Australia. The sample will be used for pilot scale test work. Preliminary metallurgical test work results are anticipated in the near term.

## **MINERAL RESOURCE ESTIMATION**

Lindian expects to deliver its maiden Mineral Resource Estimate next quarter incorporating the drilling results from the Phase One Drill program and metallurgical work programs currently in progress.

-ENDS-

This ASX announcement was authorised for release by the Lindian Board.

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## **Competent Persons Statements**

The information in this Report that relates to drilling, sampling, and assay results is based on information compiled by Mr. Alistair Stephens, who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Stephens is the Chief Executive Officer of Lindian Resources Limited. Mr. Stephens has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code).

Unless otherwise stated, where reference is made to previous releases of exploration results in this announcement, the Company conforms that it is not aware of any new information or data that materially affects the information included in those announcements and all material assumptions and technical parameters underpinning the exploration results included in those announcements continue to apply and have not materially changed.

The information in this report that relates to previous Exploration Results was prepared and first disclosed under the JORC Code 2012 and has been properly and extensively cross-referenced in the text to the date of the original announcement to the ASX.

## **Forward Looking Statements**

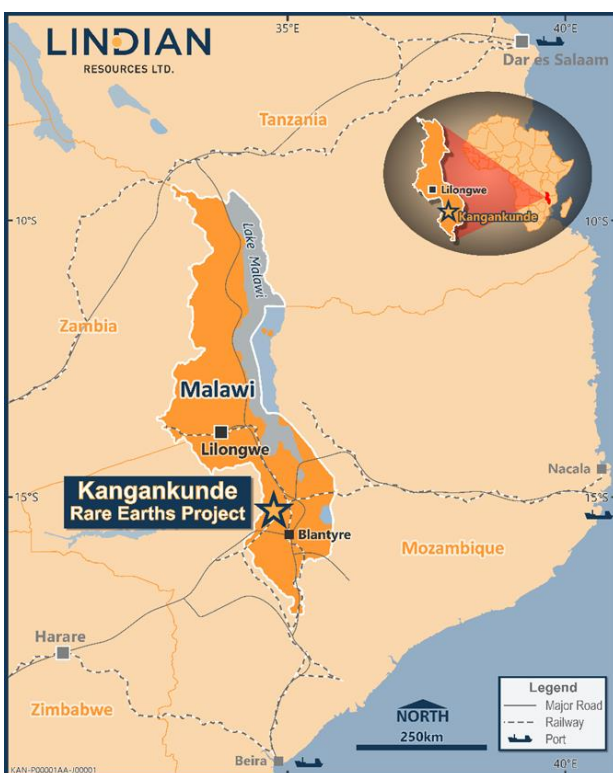
This announcement may include forward-looking statements, based on Lindian's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Lindian, which could cause actual results to differ materially from such statements. Lindian makes no undertaking to subsequently update or revise the forward-looking statements made in this announcement, to reflect the circumstances or events after the date of the announcement.



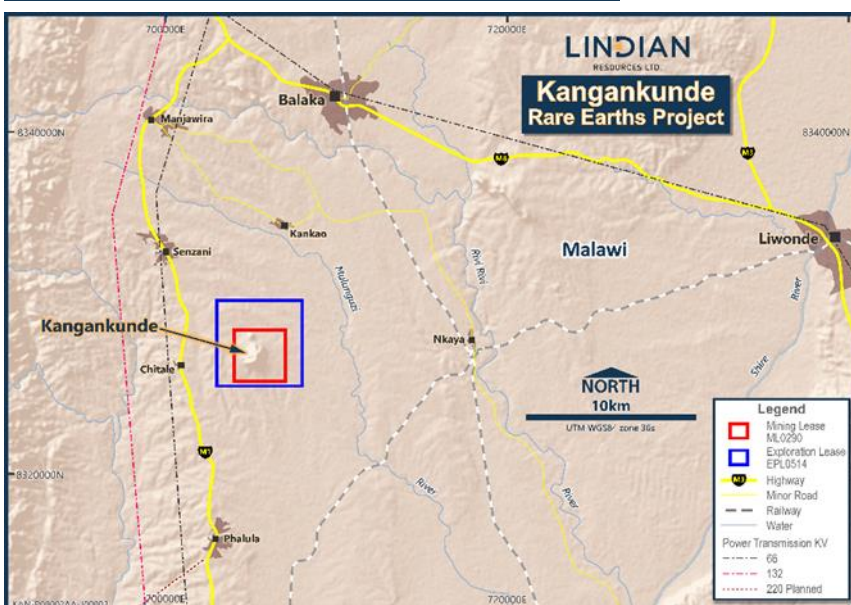
## About Lindian

### RARE EARTHS

**Lindian Resources Limited** will progressively acquire 100% of Malawian registered Rift Valley Resource Developments Limited and its 100% owned title to Exploration Licence EPL0514/18R and Mining Licence MML0290/22 (refer ASX announcement ASX:LIN dated 1 August 2022) issued under the Malawi Mines and Minerals Act 2018. The Exploration and Mining Licences have an Environmental and Social Impact Assessment Licence No.2:10:16 issued under the Malawi Environmental Management Act No. 19 of 2017. The Kangankunde Project, located within MML0290, has been subject to significant historic exploration by Lonrho Plc (Lonrho) in the 1970's and the French geoscience Bureau de Recherches Géologiques et Minières (BRGM) in the 1990's. The project has an underground adit (a horizontal drive with cross cuts extending at least 300 metre underground) and exploration sampling by trenching and drilling has identified significant non-radioactive monazite mineralisation over a footprint of at least 800m by 800m.



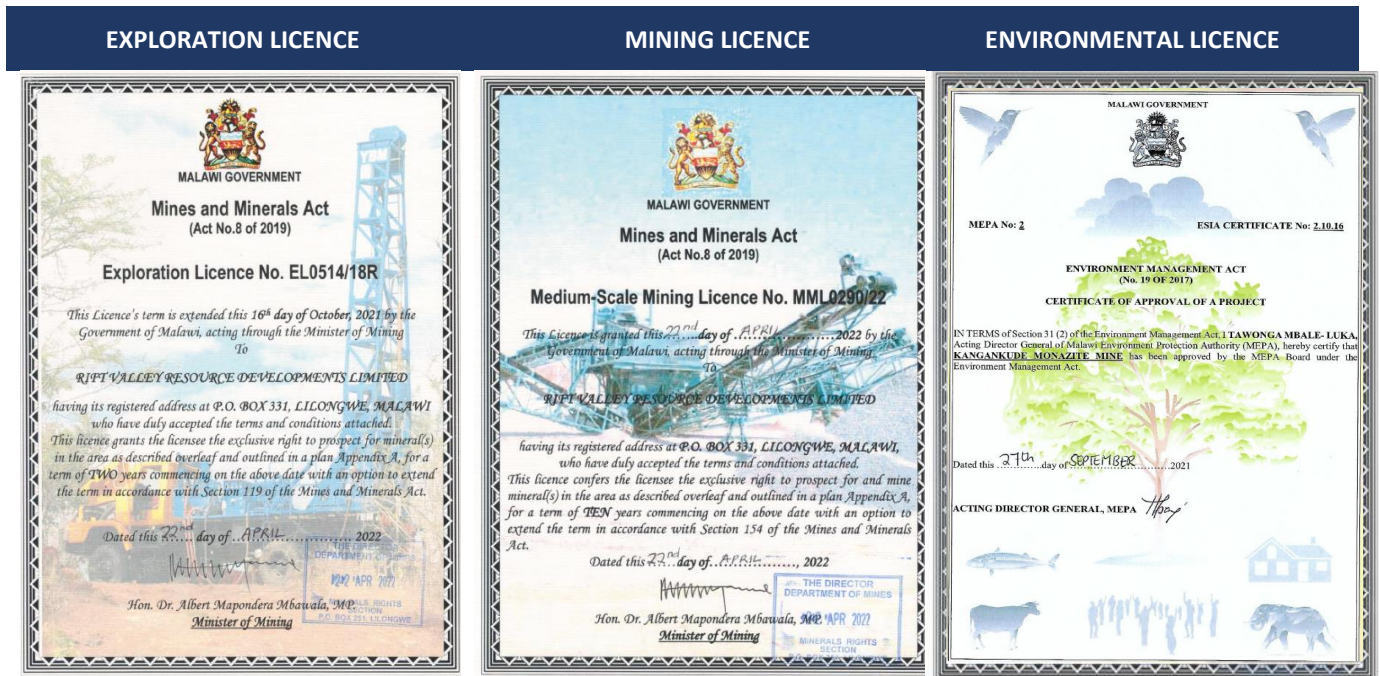
**Malawi** is a country in southern and eastern Africa that parallels the great Lake Malawi, the 5th largest freshwater lake in the world that fills part of the massive rift valley of the Africa continent. Malawi is a peaceful country known ubiquitously as “the warm heart of Africa”, with a government and legal system emanated from the English Westminster system (from colonial rule up to 1964). The Malawi economy is currently heavily reliant on agriculture, a small manufacturing sector and foreign aid. Over 80% of Malawians living in rural areas are engaged in traditional subsistence agriculture. The mining industry in Malawi is in its infancy with a new Mining Act introduced in 2019 expected to forge the way for significant expansion and growth. Having seen the impact of mining in neighbouring countries, the Malawi Government has placed mining as the primary growth sector to diversify the Malawi economy and improve living conditions for its people. A growing mining industry is the central plank of the current President’s plans for employment. Significant mineral endowment exists in the form of rare earths, uranium, niobium, tantalum, and graphite in a country substantially underexplored.



**Kangankunde** is located 90 kilometres north of the city of Blantyre, the main economic and commercial centre in Malawi. The town of Balaka, 15 kilometres to the north of Kangankunde, a regional trade centre, has a population of about 36,000 people. The project is located close to the main M1 highway, rail lines to ports and high voltage transmission lines.

## Tenure and licences

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## BAUXITE

**Lindian Resources Limited** has over 1 billion tonnes of **Bauxite** resources (refer company website for access to resources statements and competent persons statements) in Guinea with the Gaoual, Lelouma and Woula projects. Guinean bauxite is known as the premier bauxite location in the world, having high grade and low impurities premium quality bauxite.

**Guinea** is a country in western Africa located on the Atlantic coast. Most of the country has a humid tropical climate. Its topography varies from coastal plains to inland mountains that account for about 60 per cent of the land area. Several of West Africa's major rivers, in particular the Niger, Senegal and Gambia, all originate from these highlands, making Guinea the 'water tower' of West Africa. Its developing mixed economy is based on agriculture, mining, and trade. Over 80% of its population of ~12 million people are engaged in agriculture. Major crops include rice, bananas, cashews, cocoa and coffee. Its Atlantic shoreline supports a large-scale fishing industry and has developed large commercial harbors, such as Conakry and Kamsar. Guinea is endowed with huge deposits of mineral resources. It has extremely large high-quality deposits of bauxite (nearly one-third of the world's total bauxite resources) and iron ore and is a gold and diamond producer. Mining currently contributes 25% of Guinea's GDP. Thanks to these mineral resources, Guinea has the potential of being one of Africa's richest countries. Guinea, under the name French Guinea, was a part of French West Africa achieved independence in 1958. It remained relatively stable politically until the 1990s when Guinea accommodated several hundred thousand war refugees from neighbouring Liberia and Sierra Leone, and since this time conflicts between those countries and Guinea have continued to flare up over the refugee population since. Recently in September 2021, Lt Col Doumouya, the commander of country's special forces, overthrew the President in a military coup; establishing a National Committee of Reconciliation and Development with himself as chairman, ordering the release of political prisoners, and announcing an 18-month transition to democracy. In recent months, despite the current complex political landscape, tensions in the country have settled and life in Guinea has returned to normality.

**Appendix 1: Kangankunde Rare Earths Project Hole Details (Datum UTM WGS84 Zone 36S)**

Drill Hole ID	Drill Type	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Hole Length EOH (m.)	Azimuth	Inclination
KGKDD002	DD	705277	8326957	786	188.2	257	-45
KGKRC015	RC	705342	8326941	796	160	270	-60
KGKRC016	RC	705277	8326897	793	171	263	-47
KGKRC019	RC	705346	8326893	794	169	286	-86
KGKRC020	RC	705483	8327048	786	167	288	-44
KGKRC021	RC	705348	8326891	794	89	078	-62
KGKRC022	RC	705338	8326846	792	147	076	-62
KGKRC023*	RC	705486	8327053	786	28	330	-45
KGKRC024	RC	705337	8326846	792	169	296	-84
KGKRC025*	RC	705491	8327071	788	127	060	-65
KGKRC027	RC	705380	8326928	791	170	082	-48
KGKRC028	RC	705500	8327068	787	169	020	-45
KGKRC029	RC	705370	8326853	788	84	081	-47
KGKRC030	RC	705500	8327067	787	188	018	-64
KGKRC031	RC	705342	8326798	798	175	081	-65

\* Planned hole orientations.

## Appendix 2: Analytical Results This Release

Note: NS= No sample, -ve values: Below detection limit

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
KGKDD002	0.0	1.4	11963	17136	1456	3849	231	36.7	58.7	3.4	10.7	1.3	2.2	0.2	1.3	0.1	33.0	34,783	3.48	29.8	2.4
	1.4	2.3	7518	11031	927	2484	164	26.6	50.9	3.5	12.4	1.5	3.3	0.3	1.8	0.3	40.6	22,265	2.23	20.6	1.3
	2.3	3.1	15891	23217	1994	5295	317	49.7	89.0	5.8	17.7	1.9	3.0	0.3	1.4	0.2	44.5	46,927	4.69	39.5	1.9
	3.1	4.8	13311	20576	1855	5179	344	54.4	95.8	6.0	20.7	2.3	4.6	0.4	2.3	0.2	59.7	41,511	4.15	48.1	2.6
	4.8	6.1	14484	22357	2030	5634	361	57.6	100.7	6.5	21.4	2.5	4.2	0.5	2.2	0.4	58.4	45,119	4.51	59.1	2.9
	6.1	7.5	12725	18549	1595	4316	282	47.5	86.5	5.7	20.0	2.1	3.9	0.4	1.9	0.3	52.1	37,686	3.77	46.6	3.4
	7.5	8.5	600	1103	110	370	32	6.4	12.5	1.3	4.9	0.7	1.4	0.1	0.8	0.1	16.5	2,260	0.23	22.1	3.5
	8.5	9.7	3812	6179	532	1598	110	19.5	38.6	3.1	10.7	1.2	2.3	0.2	1.4	0.2	33.0	12,341	1.23	28	5.2
	9.7	11.1	7482	11879	1009	2893	183	29.9	56.6	4.4	13.9	1.5	2.9	0.3	1.7	0.3	40.6	23,597	2.36	39.4	4.2
	11.1	12.0	17064	26411	2338	6404	419	69.2	128.5	9.2	26.7	2.8	4.5	0.4	1.7	0.2	64.8	52,943	5.29	88	2.3
	12.0	13.0	4679	7579	651	1919	119	19.8	35.6	2.6	8.0	0.9	1.7	0.1	0.8	0.1	21.6	15,039	1.50	20.9	5.8
	13.0	14.2	4762	7763	669	1965	130	20.7	38.7	2.9	8.3	1.0	1.6	0.2	0.8	0.1	24.1	15,389	1.54	23.6	3.2
	14.2	15.0	13546	21313	1891	5039	304	47.7	87.4	6.5	19.1	2.1	3.8	0.3	1.5	0.1	48.3	42,309	4.23	62.6	1.9
	15.0	15.8	11963	19102	1704	4596	271	44.5	78.2	5.7	16.3	1.7	2.9	0.3	1.3	0.1	39.4	37,825	3.78	44.5	2.2
	15.8	16.6	5219	8746	790	2368	161	26.4	52.0	4.2	13.5	1.8	4.0	0.4	2.1	0.3	48.3	17,437	1.74	23.5	2.5
	16.6	17.2	2545	4545	408	1266	88	14.8	28.7	2.3	8.4	1.2	3.0	0.4	2.5	0.3	36.8	8,950	0.89	12.5	3
	17.2	17.7	2193	3734	327	1004	71	11.8	23.3	2.0	7.2	0.9	1.6	0.2	0.9	0.1	20.3	7,398	0.74	15.8	2.2
	17.7	18.6	1654	3071	273	835	56	9.6	17.8	1.3	3.9	0.5	0.9	0.1	0.7	0.1	12.7	5,937	0.59	9.2	5.4
	18.6	19.5	1519	2862	249	772	52	8.5	15.4	1.1	3.8	0.5	1.1	0.1	0.7	0.1	12.7	5,498	0.55	7.8	4
	19.5	20.5	3425	5540	480	1429	94	16.1	29.7	2.4	7.1	0.9	1.8	0.2	1.1	0.1	22.9	11,050	1.10	18.4	3.1
	20.5	21.0	1343	2653	239	755	53	8.2	15.1	1.4	4.3	0.6	1.4	0.1	0.9	0.2	16.5	5,091	0.51	11.5	3.7
	21.0	21.8	1267	2543	236	753	56	10.1	19.1	1.6	5.3	0.7	1.1	0.2	0.8	0.1	17.8	4,911	0.49	11.8	1.4
	21.8	22.8	1900	3550	321	1017	71	11.7	21.6	1.6	4.9	0.6	1.3	0.1	0.8	0.1	15.2	6,918	0.69	11.3	2.9
	22.8	23.6	4539	7776	690	2111	142	23.4	44.0	3.2	10.1	1.2	2.1	0.2	1.1	0.2	29.2	15,372	1.54	26.7	2
	23.6	24.4	4586	7493	658	1989	129	20.6	35.5	2.9	9.2	1.0	2.1	0.2	1.1	0.2	29.2	14,957	1.50	15.6	0.9
	24.4	25.2	15891	25919	2350	6369	376	59.2	102.7	6.6	17.0	1.7	3.0	0.3	1.3	0.2	38.1	51,135	5.11	46.6	0.6
	25.2	25.9	2369	3919	340	1031	69	11.2	19.9	1.4	4.6	0.5	1.0	0.1	0.6	0.1	11.4	7,778	0.78	9.2	4.4
	25.9	26.7	3624	6044	533	1633	107	17.7	33.1	2.5	7.7	0.8	1.6	0.2	0.9	0.1	20.3	12,025	1.20	17.2	3.3
	26.7	27.7	5371	8623	743	2175	130	21.1	38.0	3.1	10.0	1.2	2.3	0.2	1.3	0.1	29.2	17,150	1.72	15.8	2.5
	27.7	28.5	5454	8930	790	2333	144	22.7	42.3	3.3	10.7	1.3	2.6	0.3	1.6	0.3	35.6	17,771	1.78	24.6	2.3
	28.5	29.1	6403	10601	922	2741	174	26.6	47.1	3.6	10.3	1.2	2.1	0.2	1.0	0.1	29.2	20,963	2.10	21.7	3.2
	29.1	30.1	6427	11068	987	2998	194	32.2	57.4	4.0	11.8	1.3	2.1	0.2	0.9	0.1	30.5	21,814	2.18	22.9	3.9
	30.1	31.0	4210	7702	732	2315	163	26.1	44.3	3.2	9.8	1.1	2.1	0.2	1.0	0.1	25.4	15,236	1.52	25.2	2.8
	31.0	31.6	5758	10306	941	2893	198	31.8	55.1	3.8	11.0	1.2	2.2	0.2	0.9	0.1	27.9	20,231	2.02	31.6	3.2
31.6	32.6	4902	9262	878	2823	198	31.6	58.0	4.3	14.5	1.6	3.3	0.3	1.8	0.3	43.2	18,223	1.82	36	2.9	
32.6	33.0	4316	7628	706	2193	155	25.4	43.0	3.4	11.3	1.2	1.9	0.2	0.8	0.1	26.7	15,112	1.51	22.2	1.7	
33.0	34.4	1325	2156	237	709	67	11.8	23.9	2.2	10.2	1.3	2.5	0.3	1.5	0.2	33.0	4,581	0.46	19.9	1.4	
34.4	35.2	4726	6633	633	1732	126	20.8	34.7	2.7	8.6	1.0	1.7	0.2	0.8	0.1	25.4	13,947	1.39	21	1.9	



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	35.2	35.7	2217	3661	365	1047	83	13.2	23.9	1.8	6.8	0.8	1.6	0.2	1.1	0.1	19.1	7,441	0.74	16.8	1.4
	35.7	36.9	1941	3157	313	903	77	13.2	25.0	2.3	9.1	1.1	2.7	0.3	1.7	0.2	33.0	6,479	0.65	16.3	2.4
	36.9	37.9	4234	6179	596	1639	122	19.2	31.8	2.3	6.7	0.9	1.5	0.1	0.7	0.1	20.3	12,853	1.29	17.6	1.9
	37.9	38.8	1231	1959	209	602	45	7.2	12.7	0.9	3.0	0.4	0.7	0.1	0.3	-0.1	7.6	4,080	0.41	9.5	1
	38.8	39.8	1765	3071	315	944	80	14.4	29.1	2.5	10.1	1.4	2.9	0.3	1.7	0.3	34.3	6,272	0.63	24.3	1.8
	39.8	40.8	2217	3833	395	1172	91	15.3	26.1	2.1	6.7	0.8	1.7	0.1	0.8	0.1	17.8	7,779	0.78	17.4	0.9
	40.8	41.8	1747	3108	327	970	72	12.0	19.5	1.7	5.1	0.7	1.1	0.1	0.7	0.1	15.2	6,281	0.63	13.2	0.7
	41.8	42.8	1941	3612	383	1128	91	14.7	24.2	2.0	5.9	0.7	1.5	0.2	0.8	0.2	17.8	7,222	0.72	21	1.2
	42.8	43.8	6978	9668	942	2601	192	30.6	53.3	3.7	11.8	1.3	2.2	0.2	0.8	0.1	26.7	20,512	2.05	25.4	1.5
	43.8	44.8	943	1505	159	465	34	5.8	10.3	0.7	2.2	0.3	0.3	-0.1	0.3	-0.1	5.1	3,131	0.31	5.4	0.5
	44.8	45.8	4492	7174	742	2135	152	24.2	40.3	2.7	9.2	1.0	1.7	0.2	0.8	0.1	20.3	14,795	1.48	20.5	1.2
	45.8	46.8	3952	5344	505	1382	103	16.2	28.1	2.2	6.7	0.8	1.5	0.2	0.9	0.1	20.3	11,363	1.14	15	0.8
	46.8	47.8	3225	4963	497	1400	103	15.5	26.5	1.8	5.4	0.7	1.1	0.1	0.6	0.1	14.0	10,253	1.03	13.8	1.2
	47.8	48.8	1384	2365	243	712	57	9.8	16.6	1.2	4.1	0.5	0.9	0.1	0.7	0.1	14.0	4,808	0.48	9.1	0.7
	48.8	49.8	799	1327	143	430	36	6.3	11.8	1.1	3.9	0.7	1.3	0.2	0.8	0.1	14.0	2,775	0.28	7	0.3
	49.8	50.9	878	1437	155	453	34	6.4	11.6	1.0	4.4	0.6	1.1	0.1	0.9	0.1	14.0	2,997	0.30	6.6	0.6
	50.9	51.8	1396	2414	248	721	55	9.6	17.2	1.3	5.3	0.7	1.4	0.2	1.0	0.2	20.3	4,890	0.49	9.6	0.3
	51.8	52.8	1173	1910	197	554	42	6.4	11.0	0.8	2.9	0.4	0.8	0.1	0.6	-0.1	10.2	3,909	0.39	8.3	2.6
	52.8	53.4	446	784	84	247	21	3.2	5.7	0.6	2.3	0.4	0.8	0.1	0.6	0.1	10.2	1,606	0.16	6.6	2.1
	53.4	54.7	2721	4570	475	1411	122	20.6	42.2	3.9	15.0	2.0	3.5	0.4	2.5	0.4	47.0	9,436	0.94	49.1	2.2
	54.7	56.0	1349	2371	244	749	72	14.1	31.5	3.5	14.7	2.1	4.4	0.4	2.6	0.3	55.9	4,914	0.49	32.9	3.2
	56.0	56.5	1407	2531	253	737	52	9.0	16.4	1.5	5.3	0.7	1.4	0.1	0.7	0.2	16.5	5,031	0.50	10.3	1.5
	56.5	57.4	2627	4594	428	1277	96	15.9	27.0	2.0	8.2	0.9	2.4	0.2	1.0	0.2	24.1	9,104	0.91	14.9	1.2
	57.4	58.0	1812	3366	312	933	70	11.9	21.1	1.5	6.1	0.7	1.8	0.2	1.0	0.1	19.1	6,556	0.66	12.9	0.9
	58.0	58.9	5266	8894	851	2508	165	26.8	45.2	3.1	10.6	1.2	2.1	0.2	0.8	0.2	22.9	17,796	1.78	21.9	1.4
	58.9	59.5	579	1080	107	320	24	4.1	6.6	0.6	1.8	0.2	0.3	-0.1	0.3	-0.1	6.4	2,130	0.21	4.8	4.5
	59.5	60.1	863	1542	152	463	36	6.4	11.4	1.0	3.3	0.5	1.4	0.1	0.9	0.1	12.7	3,094	0.31	6.3	0.6
	60.1	60.7	674	1217	120	357	22	4.2	7.6	0.6	2.0	0.2	0.5	-0.1	0.3	-0.1	5.1	2,411	0.24	3.9	1.7
	60.7	61.6	3155	5749	528	1610	111	19.7	34.2	3.1	11.1	1.3	2.7	0.3	1.5	0.2	34.3	11,261	1.13	23.5	6.4
	61.6	62.2	809	1382	132	395	30	5.9	9.9	1.0	3.7	0.5	0.8	0.1	0.6	0.1	10.2	2,781	0.28	9.8	3.2
	62.2	63.1	9523	15908	1474	4304	257	40.0	62.0	4.2	11.5	1.0	1.9	0.1	0.8	0.1	22.9	31,611	3.16	32.6	2.5
	63.1	64.0	15070	27148	2706	8083	531	85.0	133.7	8.8	21.7	2.0	3.2	0.3	1.1	0.1	40.6	53,835	5.38	65.5	1.6
	64.0	64.9	15012	24445	2265	6404	411	65.9	104.8	6.5	17.6	1.9	3.0	0.2	1.0	0.2	36.8	48,774	4.88	53.2	1.4
	64.9	65.6	10579	17505	1631	4677	317	49.6	83.7	5.3	15.5	1.8	2.9	0.3	1.3	0.2	36.8	34,905	3.49	46.6	1.3
	65.6	66.0	8866	12837	1108	3009	186	29.2	49.1	3.3	9.9	1.1	1.9	0.2	0.8	0.1	24.1	26,126	2.61	23.8	4
	66.0	66.8	12080	17259	1474	3989	252	40.9	69.4	4.7	14.0	1.7	2.6	0.2	0.9	0.1	33.0	35,221	3.52	33	1.3
	66.8	67.6	12842	19716	1794	5027	328	51.1	84.5	5.5	14.5	1.7	2.5	0.2	1.1	0.1	33.0	39,902	3.99	39.5	1.4
	67.6	68.5	13604	18057	1462	3767	226	35.6	64.0	4.9	15.6	1.9	2.9	0.3	1.4	0.2	38.1	37,282	3.73	31.6	1.9
	68.5	69.5	1654	2887	280	806	59	9.0	15.6	1.2	4.5	0.5	1.1	0.1	0.7	0.1	11.4	5,729	0.57	9.4	0.8
	69.5	70.5	9277	13697	1202	3301	199	32.2	53.1	3.4	9.3	1.1	1.8	0.1	0.8	0.1	21.6	27,800	2.78	29.2	0.9
	70.5	71.4	21697	32430	2851	7733	471	71.6	113.8	7.5	21.0	2.3	3.3	0.3	1.1	0.2	43.2	65,446	6.54	57.2	1.6
	71.4	72.3	12432	19900	1818	5062	319	49.6	84.1	5.3	16.2	1.8	3.0	0.3	1.1	0.2	38.1	39,731	3.97	37.5	1.7
	72.3	73.3	11552	18733	1740	4969	326	53.6	88.8	5.9	16.4	2.0	3.5	0.3	1.3	0.2	39.4	37,531	3.75	38.7	1.7

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	73.3	74.2	12725	18365	1583	4257	257	41.0	69.0	4.3	12.6	1.5	1.8	0.1	1.0	0.2	26.7	37,345	3.73	33.3	1.2
	74.2	75.1	2340	4238	388	1126	77	14.4	24.9	1.9	7.7	1.1	1.9	0.2	1.3	0.2	27.9	8,249	0.82	17.8	0.8
	75.1	76.0	13135	19102	1619	4479	269	43.1	69.0	5.4	14.5	1.4	2.3	0.2	1.0	0.1	30.5	38,771	3.88	41.3	1
	76.0	77.0	11564	19716	1849	5494	343	55.9	83.9	5.7	16.1	1.6	2.6	0.2	1.1	0.1	33.0	39,165	3.92	48.9	1.2
	77.0	77.5	14191	25059	2428	7138	448	72.4	115.3	7.7	17.7	1.7	2.6	0.3	0.9	0.1	36.8	49,520	4.95	50.2	1.2
	77.5	78.2	20641	32061	2948	7768	457	73.3	113.0	8.0	18.3	1.7	2.7	0.2	0.7	0.1	34.3	64,128	6.41	47.9	1.4
	78.2	79.0	16712	27393	2646	7383	466	76.1	119.9	8.3	21.8	2.1	3.3	0.2	1.5	0.2	45.7	54,880	5.49	62.9	1.1
	79.0	79.7	10156	16461	1498	4351	267	43.5	70.5	5.3	16.3	1.4	2.5	0.2	1.0	0.1	33.0	32,907	3.29	35.8	0.8
	79.7	81.0	8034	13697	1281	3837	256	44.1	74.5	6.1	17.9	1.7	3.0	0.2	1.4	0.2	41.9	27,296	2.73	35.9	1.2
	81.0	81.7	6333	10859	1023	3056	192	30.8	47.3	3.3	9.1	0.9	1.6	0.1	0.8	0.1	20.3	21,578	2.16	20	0.4
	81.7	82.6	13018	20760	1897	5459	332	55.5	88.3	6.1	14.7	1.4	2.5	0.2	0.9	0.1	26.7	41,662	4.17	44.6	0.6
	82.6	83.5	10637	15109	1250	3406	195	33.2	54.6	3.8	9.0	0.9	1.4	0.1	0.2	-0.1	19.1	30,721	3.07	23.2	0.8
	83.5	84.2	3565	5884	523	1452	94	13.8	24.6	1.4	4.8	0.5	0.8	0.1	0.5	0.1	12.7	11,578	1.16	14.6	5.6
	84.2	85.2	11904	19409	1758	5109	321	51.3	78.7	5.5	14.4	1.3	2.1	0.2	1.0	0.1	26.7	38,682	3.87	38.6	2.4
	85.2	86.2	11787	17750	1510	3977	241	37.8	63.1	4.0	11.6	1.2	1.8	0.1	0.8	0.2	26.7	35,413	3.54	35.5	4.2
	86.2	87.0	6403	9324	765	1989	119	20.4	31.7	2.3	6.2	0.8	1.5	0.1	0.7	0.1	20.3	18,683	1.87	15.3	8.3
	87.0	87.5	7928	12960	1168	3243	212	33.1	56.8	3.3	7.6	0.7	1.1	-0.1	0.6	0.1	15.2	25,629	2.56	24.3	1.4
	87.5	88.1	8937	13205	1103	3009	159	28.1	48.4	3.1	8.8	0.9	1.6	0.1	0.6	0.1	19.1	26,525	2.65	19	4.3
	88.1	89.1	9664	16276	1547	4141	244	40.9	68.2	4.5	11.5	1.3	1.9	0.2	0.9	0.1	25.4	32,026	3.20	30.4	2.8
	89.1	89.8	12080	18795	1619	4339	278	46.0	80.1	5.0	14.7	1.5	2.5	0.2	1.0	0.2	35.6	37,297	3.73	42.7	2.9
	89.8	90.3	18530	30833	2779	7768	495	76.2	129.7	8.2	23.2	2.2	3.5	0.3	1.4	0.1	50.8	60,701	6.07	80.1	3.7
	90.3	91.0	15833	21743	1758	4479	260	43.0	74.8	4.6	13.7	1.3	1.9	0.1	0.7	0.2	27.9	44,240	4.42	32.3	3.7
	91.0	92.2	5031	7690	648	1755	111	19.2	35.6	2.6	9.3	1.1	1.9	0.2	1.0	0.2	27.9	15,334	1.53	24.2	5.7
	92.2	92.9	9031	14188	1263	3476	220	36.6	64.7	4.9	14.4	1.8	3.7	0.3	1.6	0.2	45.7	28,350	2.84	30.1	8.6
	92.9	94.1	5266	8267	714	1960	130	20.8	39.3	3.1	10.3	1.1	1.8	0.2	1.0	0.1	27.9	16,443	1.64	25.8	7.8
	94.1	95.3	8151	12530	1070	2869	181	28.3	47.7	2.8	9.3	1.0	1.6	0.1	0.5	0.1	21.6	24,915	2.49	22.5	3.9
	95.3	96.1	4597	7555	687	2012	146	24.3	43.0	3.0	9.4	1.0	1.9	0.2	0.9	0.1	24.1	15,106	1.51	37.8	7.6
	96.1	97.1	5360	8795	789	2234	152	23.7	40.8	2.5	7.9	0.9	1.4	0.1	0.7	0.1	22.9	17,431	1.74	26.1	3.5
	97.1	98.0	10438	16768	1510	4211	274	43.3	70.0	4.2	10.4	1.0	1.9	0.1	0.7	0.1	24.1	33,356	3.34	32.9	4
	98.0	98.9	7658	11621	997	2694	169	25.9	45.0	2.8	8.4	0.8	1.5	0.1	0.3	-0.1	19.1	23,243	2.32	23.6	4.9
	98.9	99.7	7447	11215	934	2473	148	22.7	39.2	2.4	6.9	0.8	1.1	0.1	0.3	0.1	16.5	22,308	2.23	22.5	5.4
	99.7	100.8	9289	14864	1317	3628	230	36.0	58.6	3.5	9.2	1.0	1.5	0.1	0.6	0.1	22.9	29,460	2.95	26.7	5.2
	100.8	101.4	9406	13574	1130	2928	172	27.1	47.0	2.7	8.8	0.9	1.6	0.1	0.5	0.1	22.9	27,321	2.73	19.8	0.5
	101.4	102.2	6638	11129	1032	2974	205	32.1	55.1	3.5	13.1	1.5	2.9	0.3	1.8	0.3	39.4	22,128	2.21	34.3	3.6
	102.2	104.3	11904	18119	1540	4071	242	39.0	65.4	4.2	11.9	1.3	2.4	0.2	1.3	0.1	33.0	36,035	3.60	32.5	5.8
	104.3	104.9	17592	27025	2326	6124	356	55.1	93.0	5.5	14.6	1.5	2.3	0.2	0.9	0.1	34.3	53,630	5.36	43.4	4.2
	104.9	105.9	7365	11264	975	2613	165	25.0	44.0	3.2	8.2	0.8	1.4	0.1	0.7	0.1	20.3	22,486	2.25	22.2	5.8
	105.9	106.9	4855	7911	697	1942	129	20.2	35.3	2.1	6.9	0.7	1.3	0.1	0.8	0.1	19.1	15,621	1.56	16.4	6.4
	106.9	107.6	4668	7272	631	1744	113	18.5	32.4	2.2	6.1	0.7	1.0	0.1	0.6	0.1	16.5	14,505	1.45	14.4	4.8
	107.6	108.3	7389	11289	951	2531	154	25.1	43.3	3.0	7.7	0.9	1.5	0.1	0.6	0.1	20.3	22,416	2.24	21.1	6.4
	108.3	108.9	9206	13758	1144	3009	195	31.4	54.5	3.9	12.2	1.2	2.1	0.1	0.7	0.1	31.8	27,451	2.75	52.7	21.2
	108.9	109.9	4292	7837	739	2199	164	27.1	46.0	2.8	9.1	1.0	2.1	0.1	0.9	0.1	26.7	15,347	1.53	25.7	7.5
	109.9	110.9	3213	5086	419	1117	68	10.9	20.1	1.4	3.7	0.6	1.0	0.1	0.7	0.1	15.2	9,957	1.00	9.4	6.3

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	110.9	111.9	9124	12714	1028	2636	155	24.9	43.2	2.8	9.1	1.1	2.3	0.2	1.3	0.2	29.2	25,772	2.58	17	5.4
	111.9	112.8	5055	7383	650	1779	108	18.6	30.9	2.4	6.8	0.9	1.4	0.1	0.7	0.2	19.1	15,056	1.51	15.4	7.3
	112.8	113.6	4949	7346	671	1855	119	20.5	33.9	2.7	6.9	0.9	1.5	0.1	0.3	0.1	17.8	15,024	1.50	15	-0.3
	113.6	114.3	9558	13820	1232	3336	206	35.7	60.3	4.7	13.0	1.3	2.1	0.2	0.7	0.1	30.5	28,301	2.83	30.3	0.9
	114.3	115.2	7611	10945	980	2613	158	27.9	47.1	3.4	8.8	1.1	1.6	0.2	0.5	-0.1	21.6	22,419	2.24	21	1.8
	115.2	115.7	7107	10626	974	2706	173	28.6	46.8	3.3	8.4	0.9	1.4	0.1	0.6	0.1	19.1	21,695	2.17	23.7	4.6
	115.7	116.7	7283	11756	1127	3231	221	36.5	58.0	3.9	9.9	1.0	1.6	0.1	0.6	0.1	22.9	23,752	2.38	31.1	2.9
	116.7	117.5	6028	8734	771	2123	132	22.8	40.0	2.9	8.6	0.9	1.3	0.1	0.7	0.1	21.6	17,887	1.79	24.7	3.2
	117.5	118.1	7213	10834	1026	2916	195	35.0	56.4	4.4	11.6	1.4	1.7	0.1	0.6	0.1	27.9	22,323	2.23	46	3.1
	118.1	119.1	8526	12837	1206	3359	216	37.2	64.0	4.9	13.0	1.5	2.5	0.2	0.9	0.1	33.0	26,302	2.63	37.4	2.7
	119.1	119.8	7518	12259	1208	3558	263	48.6	85.2	6.5	20.1	2.1	3.1	0.3	1.1	0.2	47.0	25,020	2.50	83.9	3.1
	119.8	120.6	7928	11621	1044	2823	180	29.4	48.4	3.8	11.0	1.2	1.9	0.2	0.8	0.1	27.9	23,720	2.37	28.1	8.2
	120.6	121.3	11787	17259	1571	4281	249	41.0	67.8	4.7	12.7	1.3	1.9	0.2	0.8	-0.1	30.5	35,307	3.53	34.4	4
	121.3	122.2	17357	25674	2332	6357	379	63.2	103.6	7.6	18.4	1.9	3.4	0.3	1.6	0.3	45.7	52,345	5.23	54	1.8
	122.2	122.6	5383	8562	811	2309	152	26.5	42.9	3.1	9.1	1.1	1.6	0.2	1.4	0.2	24.1	17,327	1.73	31.6	0.9
	122.6	123.7	3084	4729	394	1124	68	11.6	20.3	1.6	5.7	0.8	1.9	0.2	1.1	0.2	22.9	9,467	0.95	11.2	1.5
	123.7	124.5	9359	13144	1150	3009	171	30.3	52.8	4.6	12.9	1.5	2.3	0.2	0.8	0.1	38.1	26,977	2.70	33.3	4.7
	124.5	125.5	7600	11412	1063	3009	201	33.7	56.8	4.1	11.6	1.5	2.2	0.2	0.9	0.1	30.5	23,427	2.34	32.8	6.5
	125.5	126.5	10813	14925	1311	3453	208	34.7	58.0	4.5	11.8	1.4	2.2	0.2	0.8	0.1	31.8	30,855	3.09	32.9	5.3
	126.5	127.5	11013	15908	1456	3896	242	39.6	64.9	4.8	12.2	1.4	1.7	0.1	0.6	0.1	29.2	32,669	3.27	33.7	3.3
	127.5	128.4	6204	8930	799	2210	137	22.7	38.2	2.8	7.6	0.9	1.6	0.2	0.9	0.1	24.1	18,380	1.84	19.8	4.9
	128.4	129.4	5688	7579	628	1598	82	14.6	27.0	2.4	8.3	1.0	1.9	0.2	1.3	0.1	26.7	15,659	1.57	20.4	7.6
	129.4	130.4	8292	11400	986	2566	158	28.1	48.6	3.9	12.1	1.4	2.5	0.2	0.8	0.1	36.8	23,536	2.35	31.7	5.5
	130.4	131.4	8350	11621	1027	2788	174	29.6	50.7	4.0	11.1	1.2	2.3	0.2	1.0	0.1	33.0	24,093	2.41	31	5.8
	131.4	132.2	5313	7395	621	1627	96	17.4	30.5	2.7	8.2	1.1	1.7	0.2	1.3	0.2	27.9	15,143	1.51	19.8	4.4
	132.2	133.0	6169	8623	748	1930	112	19.8	32.9	2.8	9.3	1.1	2.2	0.2	1.6	0.2	31.8	17,684	1.77	20.4	7.3
	133.0	134.0	12666	17075	1480	3896	237	39.8	67.5	5.7	17.1	1.8	3.1	0.3	1.5	0.2	41.9	35,532	3.55	40.2	3
	134.0	135.0	8726	12468	1091	2928	179	30.1	49.5	4.4	12.6	1.6	2.6	0.2	1.4	0.2	41.9	25,536	2.55	27.7	2.8
	135.0	135.8	7611	12063	1191	3488	257	46.4	82.4	7.3	21.9	2.3	3.9	0.3	1.5	0.2	50.8	24,828	2.48	82.2	4.3
	135.8	136.4	9359	15048	1480	4269	288	48.6	82.8	6.3	17.6	1.7	2.5	0.2	1.3	0.1	35.6	30,640	3.06	56	2.5
	136.4	137.4	9640	14372	1329	3686	231	39.3	66.9	5.5	15.5	1.8	2.5	0.2	1.1	0.1	39.4	29,431	2.94	38.2	4.8
	137.4	138.4	10379	17628	1764	4817	346	53.5	94.9	6.3	19.7	2.1	3.3	0.3	1.1	0.1	47.0	35,162	3.52	49.7	3.9
	138.4	139.4	7119	11621	1079	3103	215	34.2	63.4	4.4	13.5	1.4	2.4	0.2	1.0	0.1	33.0	23,290	2.33	36	5
	139.4	140.0	6685	10319	911	2508	169	26.5	48.8	3.3	9.8	1.1	1.8	0.2	0.9	0.1	25.4	20,709	2.07	22.9	8.3
	140.0	140.5	8890	13697	1208	3324	228	36.5	66.4	4.5	13.3	1.2	2.1	0.1	0.7	0.1	30.5	27,503	2.75	35	4.9
	140.5	141.5	11482	22541	2428	6998	528	83.8	150.4	10.1	30.9	3.2	4.9	0.4	1.7	0.3	72.4	44,335	4.43	105	4.8
	141.5	142.5	15129	24691	2362	6404	468	78.9	152.7	11.4	38.7	3.9	6.3	0.5	2.5	0.3	94.0	49,443	4.94	111	3.3
	142.5	143.4	10895	20207	2126	6054	452	72.1	133.7	9.1	29.6	3.0	5.0	0.4	2.1	0.3	74.9	40,065	4.01	86.6	3.2
	143.4	144.4	7260	11154	964	2601	175	28.5	56.5	4.4	14.0	1.5	2.4	0.2	0.9	0.1	36.8	22,299	2.23	33.8	4.7
	144.4	145.4	8139	12026	1023	2694	172	28.3	52.1	3.9	11.8	1.3	2.1	0.2	0.8	0.1	29.2	24,184	2.42	27.2	6.4
	145.4	146.2	9019	15109	1395	4024	295	47.1	87.5	6.5	19.1	2.0	2.7	0.3	0.9	0.2	44.5	30,053	3.01	54.2	5
	146.2	147.1	8503	14188	1305	3721	259	41.7	75.8	5.2	15.6	1.5	2.5	0.2	0.9	0.1	35.6	28,154	2.82	40.2	4.7
	147.1	148.1	10391	15724	1347	3569	217	35.3	65.4	4.7	15.4	1.6	2.5	0.2	0.9	0.1	35.6	31,409	3.14	35.2	4.9

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	148.1	149.1	3823	6265	562	1598	115	19.5	40.8	4.1	17.7	2.2	4.8	0.4	2.5	0.3	63.5	12,519	1.25	25.3	3.7
	149.1	150.0	296	528	55	180	22	5.0	12.5	1.4	7.8	1.3	3.3	0.4	2.5	0.4	36.8	1,152	0.12	7.2	1
	150.0	151.0	7506	11596	1011	2741	183	29.8	56.7	4.6	14.9	1.5	2.3	0.2	1.0	0.1	36.8	23,185	2.32	41.3	4.4
	151.0	152.0	10919	20269	2132	6042	465	72.5	133.1	8.9	27.0	2.5	3.3	0.2	1.1	0.2	54.6	40,130	4.01	111	2.8
	152.0	152.9	8515	15294	1601	4537	359	57.6	103.0	7.2	21.6	2.0	3.0	0.2	0.8	0.1	45.7	30,547	3.05	70.1	1.7
	152.9	153.9	20114	30956	2839	7337	521	86.6	165.4	12.0	36.8	3.7	5.5	0.4	1.7	0.2	83.8	62,162	6.22	65.8	3.8
	153.9	154.8	20348	31447	2888	7827	496	79.7	146.4	10.6	33.1	3.0	4.5	0.3	1.3	0.2	69.8	63,354	6.34	76	2.5
	154.8	155.8	6063	9250	776	2129	126	24.1	46.9	4.9	17.9	2.0	2.9	0.2	0.9	0.1	45.7	18,489	1.85	44.2	3.5
	155.8	156.8	12080	18365	1637	4222	259	48.4	87.9	7.4	25.0	2.9	3.8	0.3	1.1	0.1	64.8	36,804	3.68	56.8	4
	156.8	157.8	18941	28990	2694	6835	459	73.6	140.0	10.2	32.6	3.2	4.6	0.3	1.5	0.1	72.4	58,258	5.83	84.1	4.3
	157.8	158.7	9875	15355	1341	3721	246	40.3	76.2	5.8	19.3	1.8	2.6	0.2	0.9	0.1	45.7	30,731	3.07	44.6	6.6
	158.7	159.7	9441	15109	1359	3872	283	46.2	84.1	5.8	17.3	1.5	2.4	0.2	0.8	0.1	36.8	30,260	3.03	49.6	0.9
	159.7	160.7	8655	13820	1226	3394	231	38.8	71.8	5.1	15.8	1.5	2.6	0.2	1.0	0.1	38.1	27,501	2.75	38.8	0.7
	160.7	161.7	5606	9668	924	2671	202	33.1	64.4	5.1	18.8	1.9	3.1	0.2	0.9	0.1	45.7	19,245	1.92	43.1	0.9
	161.7	162.7	4117	6560	582	1650	115	19.7	39.5	3.0	10.4	1.2	1.9	0.2	0.9	0.2	26.7	13,128	1.31	22.4	0.4
	162.7	163.7	4046	6511	591	1715	133	22.9	45.5	3.3	10.6	1.2	1.8	0.2	0.9	0.1	27.9	13,110	1.31	24.5	0.5
	163.7	164.7	4891	7874	724	2135	173	30.1	59.0	4.5	14.5	1.5	2.2	0.2	1.1	0.1	34.3	15,943	1.59	33.8	-0.3
	164.7	165.7	3354	5405	500	1487	122	21.7	40.9	3.3	10.3	1.1	1.7	0.1	0.6	0.1	24.1	10,973	1.10	23.2	0.3
	165.7	166.7	31548	48276	4289	11897	719	125.6	214.4	16.5	46.1	4.3	5.8	0.4	1.5	0.2	86.4	97,231	9.72	113.5	2.1
	166.7	167.7	8831	13635	1160	3278	235	42.2	74.8	5.6	16.5	1.7	2.5	0.2	0.8	0.2	36.8	27,321	2.73	40.3	0.6
	167.7	168.7	3131	5479	492	1499	121	22.7	39.9	3.0	8.7	0.9	1.6	0.1	0.7	0.1	19.1	10,818	1.08	20.9	-0.3
	168.7	169.7	5020	8611	770	2304	175	32.8	59.5	4.4	12.6	1.3	1.8	0.2	0.6	0.1	26.7	17,019	1.70	32.6	-0.3
	169.7	170.7	3964	6916	625	1907	147	27.1	48.6	3.4	10.2	1.0	1.5	0.2	0.6	-0.1	21.6	13,672	1.37	25.4	-0.3
	170.7	171.7	5911	10601	997	3068	247	45.2	79.6	5.8	16.0	1.5	2.5	0.2	0.8	0.1	33.0	21,008	2.10	52.3	0.5
	171.7	172.7	5395	10306	991	3044	230	42.5	74.6	5.6	16.2	1.6	2.6	0.2	0.9	0.2	35.6	20,146	2.01	54.8	0.5
	172.7	173.3	12197	18917	1577	4304	257	43.3	78.8	5.6	16.1	1.6	2.4	0.2	1.0	0.1	35.6	37,437	3.74	38.8	0.8
	173.3	174.0	2920	5872	575	1855	147	26.5	47.8	3.1	10.4	1.2	1.7	0.2	0.9	0.1	22.9	11,484	1.15	25.2	-0.3
	174.0	174.5	6990	12063	1098	3289	238	44.4	76.9	5.4	14.7	1.4	2.1	0.1	0.6	0.1	29.2	23,853	2.39	36	-0.3
	174.5	175.0	5958	10454	958	2904	214	36.9	66.4	4.9	14.9	1.5	2.2	0.2	0.8	0.1	33.0	20,649	2.06	38.9	0.6
	175.0	176.0	1695	3378	309	976	85	16.8	32.0	2.7	9.1	1.0	1.5	0.1	0.6	0.1	22.9	6,530	0.65	19.4	-0.3
	176.0	177.0	2580	4815	457	1476	137	27.3	50.1	4.2	13.3	1.4	2.3	0.2	0.9	0.1	29.2	9,594	0.96	38.6	0.3
	177.0	178.0	6274	9852	855	2449	177	33.5	65.2	5.2	18.1	2.0	3.4	0.4	2.2	0.3	53.3	19,792	1.98	40.8	1.2
	178.0	179.0	5993	9545	824	2315	158	30.2	56.8	4.8	16.4	2.0	3.9	0.4	2.4	0.3	52.1	19,005	1.90	32.1	4.5
	179.0	180.0	6228	11129	1031	3149	240	42.8	78.5	6.1	18.1	1.7	2.4	0.2	0.8	0.1	38.1	21,966	2.20	57.2	1
	180.0	181.0	4844	7972	686	1995	146	27.0	48.1	3.7	10.4	1.1	1.7	0.1	0.6	0.1	22.9	15,759	1.58	25.8	0.5
	181.0	182.4	5571	9176	788	2239	154	27.6	51.3	3.8	11.7	1.2	2.2	0.2	0.9	0.2	29.2	18,056	1.81	30.4	0.9
	182.4	183.0	4480	7653	685	2024	150	27.0	47.5	3.5	9.6	0.9	1.5	0.1	0.5	-0.1	19.1	15,101	1.51	26.2	-0.3
	183.0	184.0	1431	3059	297	963	84	15.8	27.6	1.9	5.6	0.5	0.9	0.1	0.5	0.1	12.7	5,900	0.59	16	-0.3
	184.0	185.0	4058	8021	826	2823	279	52.9	91.5	6.1	17.3	1.6	3.1	0.3	1.5	0.2	36.8	16,219	1.62	68.8	2.4
	185.0	186.0	3917	6781	620	1895	161	32.4	65.1	5.7	23.1	3.1	6.8	0.6	3.6	0.5	80.0	13,595	1.36	35.2	3.2
	186.0	186.3	9934	18795	1849	5797	456	82.3	142.9	10.1	28.8	2.8	4.2	0.3	1.4	0.2	58.4	37,161	3.72	96.9	2.6
	186.3	186.6	10086	16829	1486	4257	296	52.5	93.6	7.1	19.4	2.0	2.9	0.2	0.9	0.2	41.9	33,175	3.32	57.5	1.6



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	186.6	188.2	7447	12247	1069	3091	215	38.9	71.1	5.1	14.5	1.4	2.2	0.2	0.8	-0.1	29.2	24,233	2.42	36.8	0.4
KGKRC015	0.0	1.0	10755	17689	1740	5214	393	68.9	118.7	8.6	25.4	2.6	4.0	0.3	1.8	0.2	57.2	36,078	3.61	75.3	3.1
	1.0	2.0	12725	19962	1849	5214	363	65.0	114.3	9.1	28.4	2.9	4.7	0.4	1.8	0.2	69.8	40,408	4.04	79.5	3.7
	2.0	3.0	9969	14557	1311	3663	257	43.8	76.2	5.9	18.0	1.8	2.4	0.2	0.9	0.1	40.6	29,946	2.99	49	2.2
	3.0	4.0	10156	15171	1395	4001	305	55.1	98.8	8.8	28.7	2.9	4.2	0.3	1.7	0.3	69.8	31,299	3.13	73.3	3.7
	4.0	5.0	8690	13205	1238	3651	292	53.7	99.2	8.7	30.3	3.3	5.0	0.4	2.3	0.3	81.3	27,362	2.74	83.3	3.8
	5.0	6.0	10168	16276	1601	4817	397	68.9	117.0	8.7	23.8	2.3	3.3	0.3	1.0	0.2	53.3	33,538	3.35	83.4	2.8
	6.0	7.0	8069	13512	1353	4094	330	58.2	100.5	7.5	22.3	2.2	3.2	0.3	1.4	0.2	50.8	27,605	2.76	76.4	2.6
	7.0	8.0	8538	15294	1559	4619	347	62.8	109.7	8.4	25.1	2.6	3.3	0.3	1.3	0.1	54.6	30,624	3.06	74.7	2.5
	8.0	9.0	9312	15048	1468	4421	368	61.6	108.2	8.1	23.6	2.3	3.3	0.3	1.4	0.2	54.6	30,880	3.09	81.7	3.2
	9.0	10.0	7916	13820	1456	4596	387	66.7	117.0	8.9	27.0	2.8	3.9	0.3	1.4	0.2	63.5	28,466	2.85	94.8	4.1
	10.0	11.0	9113	15171	1522	4596	358	59.6	102.7	8.2	25.7	2.5	4.0	0.3	1.6	0.3	61.0	31,026	3.10	78.7	2.9
	11.0	12.0	10332	15171	1420	4117	322	58.4	104.2	9.1	30.1	3.1	4.7	0.4	1.8	0.2	76.2	31,651	3.17	72	3.1
	12.0	13.0	6591	10638	1056	3208	268	47.8	87.6	6.9	22.7	2.5	4.7	0.4	2.6	0.2	64.8	22,001	2.20	47.4	3.4
	13.0	14.0	7717	12026	1144	3324	268	49.3	86.1	6.7	20.1	1.9	3.5	0.3	1.7	0.2	48.3	24,697	2.47	57.5	2.9
	14.0	15.0	6767	10626	1028	3103	259	44.4	72.8	5.0	14.8	1.7	2.6	0.3	1.4	0.1	38.1	21,963	2.20	40.2	2.6
	15.0	16.0	6966	11092	1070	3266	267	46.1	79.4	6.3	18.9	2.0	2.7	0.2	1.4	0.1	44.5	22,864	2.29	57.3	1.9
	16.0	17.0	7072	11596	1186	3779	332	58.4	99.8	8.0	25.0	2.5	3.2	0.2	1.4	0.2	55.9	24,220	2.42	101	2.7
	17.0	18.0	6169	10233	965	3044	261	46.4	91.5	7.6	24.1	2.3	3.8	0.3	1.7	0.2	53.3	20,903	2.09	70.3	3.7
	18.0	19.0	5700	9348	894	2823	233	40.2	71.7	5.6	19.1	2.0	3.5	0.3	1.4	0.2	49.5	19,191	1.92	38.1	2.5
	19.0	20.0	5242	8685	832	2671	226	40.4	70.5	5.6	16.9	1.7	2.6	0.2	1.1	0.1	35.6	17,831	1.78	53.4	1.2
	20.0	21.0	5805	9434	904	2893	250	43.8	77.6	6.5	20.9	2.1	3.2	0.2	0.9	0.1	43.2	19,485	1.95	59.5	0.9
	21.0	22.0	6450	9582	842	2496	188	34.5	70.1	7.5	25.5	2.4	3.3	0.3	1.3	0.2	52.1	19,755	1.98	76.5	1.3
	22.0	23.0	9934	15048	1317	3872	284	50.7	93.9	8.3	26.1	2.4	3.8	0.3	1.3	0.2	54.6	30,697	3.07	74.2	2
	23.0	24.0	11118	18119	1788	5179	426	79.7	165.4	19.7	75.3	7.3	11.0	1.0	4.6	0.7	191.8	37,186	3.72	214	4.7
	24.0	25.0	11060	17689	1673	4759	359	62.9	117.0	10.8	33.1	3.2	4.7	0.3	1.6	0.2	76.2	35,850	3.59	100.5	1.8
	25.0	26.0	13604	21558	1994	5552	404	68.7	128.5	11.5	39.4	3.6	5.0	0.4	1.6	0.3	81.3	43,452	4.35	103.5	3.4
	26.0	27.0	12784	20637	2018	5762	458	81.1	151.6	12.6	38.8	3.7	5.3	0.4	1.9	0.3	81.3	42,035	4.20	122.5	3.1
	27.0	28.0	14777	26042	2682	8328	617	101.1	175.2	13.2	39.6	3.5	5.3	0.5	2.4	0.3	83.8	52,871	5.29	128.5	5.7
	28.0	29.0	17240	28867	2851	8655	630	104.7	182.1	12.6	36.5	3.4	4.9	0.4	1.7	0.2	74.9	58,665	5.87	103.5	4.1
	29.0	30.0	19820	30956	2960	8573	657	112.1	200.0	14.2	40.1	3.9	6.1	0.4	1.9	0.3	81.3	63,427	6.34	110.5	8.3
	30.0	31.0	7459	13390	1402	4164	305	55.2	95.7	6.5	17.9	2.0	3.3	0.3	1.4	0.2	41.9	26,943	2.69	46.5	3.2
	31.0	32.0	8174	14004	1438	4176	304	54.9	95.4	6.7	19.1	1.9	3.0	0.2	1.3	0.2	41.9	28,320	2.83	46.8	3.4
32.0	33.0	5512	9925	996	3208	252	47.4	84.4	6.1	18.9	2.3	3.8	0.3	1.7	0.2	49.5	20,107	2.01	36.7	5.5	
33.0	34.0	6310	10687	1025	3161	242	46.1	87.6	6.7	22.6	2.9	5.3	0.4	2.4	0.3	67.3	21,666	2.17	32.3	4	
34.0	35.0	7611	13205	1335	4071	322	55.6	90.0	6.1	18.6	2.1	3.7	0.4	2.1	0.2	49.5	26,773	2.68	51.4	5.2	
35.0	36.0	6087	10589	1075	3324	278	49.6	82.3	5.7	15.2	1.6	2.3	0.3	1.0	0.2	36.8	21,548	2.15	43.9	1.9	
36.0	37.0	6403	9876	939	2788	222	40.9	69.2	5.1	16.8	1.8	2.9	0.3	1.4	0.1	43.2	20,410	2.04	36.4	3.2	
37.0	38.0	5970	9606	935	2799	227	40.3	70.1	4.4	13.4	1.3	2.1	0.2	0.9	-0.1	30.5	19,701	1.97	38.8	3.8	
38.0	39.0	4820	7837	778	2403	208	36.4	62.9	4.3	12.5	1.3	2.6	0.2	1.1	0.1	31.8	16,200	1.62	29.7	3.3	
39.0	40.0	7295	11584	1125	3313	250	44.8	76.5	5.7	18.4	1.9	3.1	0.3	1.3	0.2	43.2	23,762	2.38	48.4	4	
40.0	41.0	7740	12468	1238	3732	291	49.8	80.3	5.3	16.4	1.6	2.7	0.2	1.5	0.1	38.1	25,667	2.57	44	2.4	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	41.0	42.0	3800	6719	683	2175	175	31.6	56.0	4.4	14.0	1.4	2.4	0.2	1.7	0.2	33.0	13,697	1.37	39.2	4.3	
	42.0	43.0	4926	8058	778	2379	200	36.6	65.2	5.1	16.2	1.9	3.4	0.3	1.9	0.2	45.7	16,518	1.65	25.7	4	
	43.0	44.0	7189	11879	1096	3476	270	46.9	86.1	6.4	22.4	2.6	4.5	0.4	1.9	0.3	55.9	24,137	2.41	39.6	3.4	
	44.0	45.0	6134	9827	898	2846	222	39.0	70.7	5.5	18.0	2.0	3.8	0.4	1.9	0.2	49.5	20,118	2.01	32.3	3.2	
	45.0	46.0	3237	5466	497	1580	128	22.1	39.8	3.4	13.2	1.4	2.4	0.2	1.0	0.1	33.0	11,025	1.10	32.3	4.8	
	46.0	47.0	3823	6363	567	1732	124	20.7	39.3	3.7	16.3	2.0	3.2	0.3	1.4	0.2	50.8	12,747	1.27	31.9	10.1	
	47.0	48.0	4199	7051	733	2239	171	29.2	56.5	4.8	16.0	1.7	2.3	0.2	1.0	0.1	38.1	14,543	1.45	49.1	9	
	48.0	49.0	4679	6904	691	2076	180	34.4	66.0	5.5	20.2	2.6	5.0	0.5	2.5	0.3	64.8	14,732	1.47	33	16.2	
	49.0	50.0	2146	3243	301	886	72	14.6	30.3	2.9	13.0	1.9	4.0	0.5	3.2	0.4	48.3	6,768	0.68	19	10	
	50.0	51.0	5313	7727	761	2309	214	43.1	88.5	7.8	30.5	3.8	7.4	0.8	4.2	0.5	92.7	16,603	1.66	27	15.8	
	51.0	52.0	3870	6228	591	1849	156	32.1	65.9	5.5	20.2	2.7	5.0	0.5	2.9	0.3	63.5	12,892	1.29	19.6	8	
	52.0	53.0	4656	7628	718	2228	181	37.9	76.8	6.6	23.3	3.1	6.1	0.6	3.1	0.3	74.9	15,643	1.56	24.1	8.4	
	53.0	54.0	3929	6621	636	2030	180	36.9	76.7	6.2	22.7	3.1	6.0	0.5	3.0	0.3	71.1	13,622	1.36	21.6	8.7	
	54.0	55.0	3870	6756	673	2234	211	45.9	87.3	6.9	23.0	3.0	5.5	0.6	2.7	0.4	67.3	13,986	1.40	44.3	8.6	
	55.0	56.0	3671	6154	587	1866	158	33.6	71.0	6.1	23.2	3.4	6.4	0.6	3.2	0.4	78.7	12,663	1.27	24.5	10.5	
	56.0	57.0	6544	9299	829	2228	173	32.9	63.9	5.1	18.4	2.3	4.5	0.5	1.9	0.3	58.4	19,261	1.93	19.4	10	
	57.0	58.0	10391	13758	1143	2881	182	31.4	53.8	3.8	12.4	1.5	2.6	0.2	1.0	0.1	34.3	28,496	2.85	23.7	4.4	
	58.0	59.0	11083	15294	1335	3429	240	41.9	75.2	5.4	15.7	1.7	3.0	0.3	1.7	0.2	41.9	31,568	3.16	35.4	3.3	
	59.0	60.0	7307	10712	946	2519	180	31.3	55.6	4.0	11.3	1.2	2.1	0.2	1.0	0.2	30.5	21,801	2.18	28.2	11	
	60.0	61.0	8491	12407	1142	3103	228	39.7	69.5	5.0	15.2	1.6	2.7	0.3	1.5	0.2	39.4	25,545	2.55	32.8	10.2	
	61.0	62.0	12314	18672	1710	4677	349	60.2	106.9	7.9	23.0	2.7	4.6	0.4	2.1	0.3	64.8	37,995	3.80	44.6	32.7	
	62.0	63.0	4257	6289	556	1510	114	19.3	35.4	2.9	11.9	1.7	4.1	0.4	2.5	0.3	43.2	12,849	1.28	26.9	20.6	
	63.0	64.0	10121	15294	1420	3907	290	53.3	94.9	7.0	21.8	2.5	4.5	0.4	2.3	0.3	58.4	31,277	3.13	46	27.1	
	64.0	65.0	11728	17812	1637	4432	322	54.3	98.7	7.0	21.8	2.5	4.0	0.3	1.6	0.2	54.6	36,177	3.62	48.1	22.6	
	65.0	66.0	3706	5810	535	1487	111	18.9	34.4	2.8	10.8	1.4	3.5	0.4	2.5	0.3	40.6	11,765	1.18	27.3	22.6	
	66.0	67.0	644	1174	121	358	34	7.0	14.5	1.8	9.4	1.5	4.2	0.5	3.0	0.5	40.6	2,415	0.24	26.9	4.7	
	67.0	68.0	5887	9950	974	2811	231	42.3	74.3	5.2	17.6	2.1	4.2	0.4	3.2	0.4	54.6	20,057	2.01	41.5	15	
	68.0	69.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	69.0	70.0	3495	5859	616	1930	164	31.8	63.4	5.0	16.6	2.3	4.9	0.4	2.5	0.3	55.9	12,248	1.22	21.8	7.3	
	70.0	71.0	4679	7813	811	2461	196	36.0	65.1	4.8	15.8	2.0	3.7	0.4	1.6	0.2	43.2	16,133	1.61	26.3	7.4	
	71.0	72.0	5336	8894	934	2869	219	40.6	76.4	5.2	18.0	2.2	4.1	0.4	2.3	0.3	54.6	18,456	1.85	30	6.6	
	72.0	73.0	5454	9139	973	3021	238	41.9	74.7	5.2	17.2	1.8	3.5	0.4	2.1	0.3	47.0	19,018	1.90	35	6.3	
	73.0	74.0	5618	10147	1101	3499	264	45.2	79.1	5.1	15.5	1.6	2.7	0.3	1.6	0.2	36.8	20,817	2.08	34	3.5	
	74.0	75.0	7119	12026	1293	4036	308	53.6	98.0	6.5	20.4	2.3	4.4	0.4	1.8	0.2	53.3	25,023	2.50	41.9	3.8	
	75.0	76.0	5125	8206	846	2636	221	40.6	74.5	5.8	19.2	2.2	4.1	0.4	2.1	0.3	53.3	17,236	1.72	35.2	4.1	
	76.0	77.0	6157	9496	963	3021	245	45.2	83.8	5.8	18.3	2.1	3.9	0.3	1.8	0.2	48.3	20,091	2.01	29.4	2.6	
	77.0	78.0	4445	7149	721	2239	186	35.7	70.3	5.6	19.7	2.5	4.6	0.5	2.6	0.2	58.4	14,941	1.49	24	3.5	
	78.0	79.0	4363	7063	723	2245	185	37.1	69.9	5.4	20.5	2.4	4.9	0.4	2.3	0.2	57.2	14,779	1.48	22.5	4.2	
	79.0	80.0	4152	6768	698	2181	191	37.4	74.8	6.1	22.6	2.8	5.2	0.5	2.7	0.3	67.3	14,211	1.42	23	4.6	
	80.0	81.0	4621	7383	761	2356	204	38.6	78.2	6.7	23.3	3.1	5.7	0.6	3.3	0.4	73.7	15,558	1.56	26.5	5.6	
	81.0	82.0	4539	7174	725	2170	181	34.2	67.7	5.4	20.9	2.5	4.9	0.5	2.5	0.4	63.5	14,990	1.50	20.6	4.8	
	82.0	83.0	4891	7616	760	2269	181	35.4	69.5	5.6	20.4	2.6	4.8	0.5	2.5	0.2	66.0	15,924	1.59	22.4	3.9	
	83.0	84.0	5629	8243	813	2391	198	38.7	78.2	6.6	22.4	2.8	5.7	0.5	2.4	0.3	71.1	17,503	1.75	27.2	4.6	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	84.0	85.0	6122	8930	857	2484	181	34.5	62.2	4.6	16.1	2.0	3.7	0.4	1.8	0.2	47.0	18,748	1.87	25.8	4.8
	85.0	86.0	4140	6584	662	1995	165	29.6	60.6	5.4	20.8	2.7	5.7	0.6	4.1	0.6	80.0	13,756	1.38	44.3	8
	86.0	87.0	5102	7358	715	2088	163	30.2	56.7	4.2	14.8	1.6	3.0	0.4	2.2	0.2	43.2	15,582	1.56	28.3	9.7
	87.0	88.0	5454	8132	791	2368	185	32.7	61.7	4.9	14.9	1.6	2.3	0.2	1.0	0.2	30.5	17,080	1.71	42.7	10
	88.0	89.0	8339	12038	1164	3406	260	44.9	82.3	6.6	21.1	2.3	4.1	0.4	2.1	0.3	55.9	25,426	2.54	46.7	12
	89.0	90.0	3577	6339	689	2245	198	37.6	74.5	6.5	22.2	2.5	5.3	0.5	3.3	0.5	69.8	13,271	1.33	45.6	7.5
	90.0	91.0	2557	4668	492	1563	147	28.3	56.9	5.1	19.1	2.4	5.5	0.6	3.8	0.4	64.8	9,613	0.96	27.5	6.4
	91.0	92.0	4034	6412	645	1960	169	34.0	67.3	6.3	21.6	2.6	5.3	0.6	3.4	0.4	69.8	13,431	1.34	30.7	9.8
	92.0	93.0	3436	5528	555	1691	152	30.0	61.8	5.7	20.9	2.7	4.8	0.5	2.9	0.4	66.0	11,558	1.16	34.9	9.4
	93.0	94.0	5207	7739	762	2222	158	27.7	48.1	3.5	11.4	1.2	1.9	0.2	1.1	0.2	26.7	16,211	1.62	31.4	6.1
	94.0	95.0	3870	6167	567	1580	123	20.4	36.9	2.5	8.7	0.9	1.7	0.2	0.8	0.2	21.6	12,401	1.24	16	4.9
	95.0	96.0	3671	6302	617	1802	151	24.3	45.2	3.4	11.1	1.4	2.9	0.3	1.3	0.2	30.5	12,663	1.27	18.6	8.3
	96.0	97.0	4996	8844	892	2578	197	29.4	50.1	3.0	8.7	0.9	1.7	0.2	0.9	0.1	19.1	17,621	1.76	20.8	5.3
	97.0	98.0	2076	3882	388	1178	124	23.5	50.8	4.8	20.1	2.8	6.5	0.7	3.3	0.5	73.7	7,834	0.78	19.9	12.2
	98.0	99.0	924	1707	191	619	88	19.9	49.9	5.3	23.9	3.8	9.0	0.9	4.8	0.7	100.3	3,749	0.37	22.1	11.6
	99.0	100.0	2463	4828	491	1452	131	24.6	49.2	4.3	16.2	2.2	5.7	0.5	3.0	0.4	58.4	9,529	0.95	21.8	10.8
	100.0	101.0	7400	12014	1143	3138	231	34.5	58.9	3.6	10.4	1.0	2.3	0.1	1.0	0.1	22.9	24,060	2.41	30.8	6.1
	101.0	102.0	10520	16031	1474	3919	271	44.0	75.2	5.0	15.3	1.6	3.0	0.2	1.6	0.2	34.3	32,395	3.24	43.6	1.3
	102.0	103.0	9406	14557	1335	3523	235	38.3	66.2	4.3	11.7	1.3	2.4	0.2	1.5	0.2	29.2	29,211	2.92	40.4	2.3
	103.0	104.0	8890	14311	1329	3581	245	41.8	67.7	4.4	12.2	1.3	2.2	0.2	1.1	0.1	27.9	28,514	2.85	43	2.2
	104.0	105.0	7471	13758	1389	4024	285	46.4	72.8	4.5	12.3	1.2	1.9	0.2	1.0	0.2	27.9	27,096	2.71	31.2	2.1
	105.0	106.0	3237	6203	625	1866	147	25.6	44.6	3.2	10.7	1.4	2.9	0.3	1.9	0.2	36.8	12,206	1.22	19.6	4.6
	106.0	107.0	1671	3452	365	1151	118	25.0	53.0	4.7	20.7	2.8	6.6	0.7	4.2	0.6	81.3	6,957	0.70	25.5	6.7
	107.0	108.0	1865	4078	447	1406	126	22.0	42.9	3.5	12.2	1.7	4.1	0.5	2.3	0.4	45.7	8,057	0.81	20	7.2
	108.0	109.0	2451	4742	480	1429	119	20.8	39.7	3.1	11.8	1.7	4.0	0.4	2.9	0.4	47.0	9,352	0.94	21.1	7
	109.0	110.0	11517	19224	1812	4852	303	46.9	76.1	4.9	13.3	1.3	2.3	0.2	0.8	0.1	29.2	37,884	3.79	27.3	4
	110.0	111.0	4375	7948	790	2309	182	31.5	59.6	4.5	15.8	2.0	4.6	0.5	2.2	0.3	54.6	15,779	1.58	22.2	8.2
	111.0	112.0	2967	5528	523	1709	141	27.0	53.4	4.4	14.1	2.0	4.0	0.4	2.1	0.3	45.7	11,021	1.10	19.8	9
	112.0	113.0	2826	5258	497	1621	129	21.7	39.0	2.8	8.4	0.9	1.6	0.2	1.1	0.1	20.3	10,427	1.04	19.2	11.5
	113.0	114.0	3741	6400	594	1919	144	25.6	44.8	3.1	10.2	1.1	1.9	0.2	1.1	0.2	24.1	12,911	1.29	19.4	5.9
	114.0	115.0	3847	6535	609	2000	168	31.8	60.3	5.2	18.8	2.6	5.7	0.6	3.4	0.4	66.0	13,354	1.34	23.2	12
	115.0	116.0	3307	6031	579	1936	192	37.9	77.0	7.2	27.5	3.8	8.1	0.8	4.2	0.6	97.8	12,310	1.23	27.4	12.8
	116.0	117.0	8233	12898	1162	3534	246	44.5	77.1	5.5	16.6	1.8	3.5	0.3	1.7	0.2	40.6	26,265	2.63	31	12.7
	117.0	118.0	4199	7727	756	2309	157	26.6	44.1	2.8	7.7	0.8	1.4	0.2	0.7	0.1	19.1	15,252	1.53	18.9	10.2
	118.0	119.0	2967	5614	551	1703	130	25.6	49.3	4.1	16.1	2.2	4.7	0.6	2.9	0.4	55.9	11,127	1.11	22.2	10.2
	119.0	120.0	5465	8820	842	2327	177	28.7	49.8	3.3	9.5	1.1	2.3	0.2	1.0	0.2	24.1	17,752	1.78	20	9.4
	120.0	121.0	3870	6425	608	1691	126	20.6	36.9	2.7	8.6	0.9	1.9	0.2	1.1	0.1	22.9	12,816	1.28	18.6	6.7
	121.0	122.0	13839	21681	1994	5272	365	56.9	94.7	6.3	18.0	1.7	3.1	0.2	1.0	0.1	36.8	43,370	4.34	44.6	4.1
	122.0	123.0	8655	13512	1250	3359	234	38.1	64.7	4.4	13.2	1.4	2.7	0.2	1.0	0.2	27.9	27,165	2.72	32.4	3.1
	123.0	124.0	8081	12247	1085	2823	191	29.3	51.4	3.6	11.0	1.0	2.1	0.1	1.0	0.1	26.7	24,552	2.46	24.6	1.3
	124.0	125.0	9617	15109	1389	3697	260	42.3	74.2	5.1	15.4	1.6	3.0	0.3	1.4	0.2	36.8	30,253	3.03	39.9	1.6
	125.0	126.0	7987	12468	1155	3126	223	33.9	62.2	4.4	13.0	1.4	2.3	0.2	1.0	0.2	31.8	25,110	2.51	35.8	5
	126.0	127.0	8913	14372	1311	3523	240	37.9	66.3	4.7	13.1	1.3	2.3	0.2	1.3	0.1	27.9	28,514	2.85	34.8	7.1

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	127.0	128.0	3518	5638	518	1411	97	14.6	24.2	1.7	4.8	0.5	1.0	0.1	0.6	0.1	12.7	11,244	1.12	11.2	10.8
	128.0	129.0	9863	15232	1389	3663	253	38.2	64.6	4.1	11.7	1.2	2.3	0.2	1.0	0.1	25.4	30,549	3.05	26.2	4.3
	129.0	130.0	6556	10343	983	2706	194	31.2	52.1	3.5	10.2	1.2	1.9	0.2	1.1	0.2	24.1	20,909	2.09	24.5	8.1
	130.0	131.0	7858	13021	1226	3313	216	32.3	53.4	3.4	9.8	1.1	2.1	0.2	1.0	0.1	22.9	25,760	2.58	21.5	13.7
	131.0	132.0	7834	12259	1149	3138	223	34.2	58.4	3.8	11.8	1.1	2.3	0.2	1.0	0.2	27.9	24,745	2.47	26.3	6.6
	132.0	133.0	6533	10085	905	2356	154	24.0	41.2	2.6	9.3	1.0	1.8	0.2	1.0	0.1	22.9	20,136	2.01	18.9	4
	133.0	134.0	5559	9606	936	2624	193	29.2	50.4	3.4	10.4	1.1	1.9	0.2	0.9	0.2	24.1	19,041	1.90	23.9	4.5
	134.0	135.0	11165	19839	2000	5704	428	66.8	110.0	6.6	18.1	1.7	2.6	0.2	1.0	0.1	33.0	39,375	3.94	57.4	4.4
	135.0	136.0	3495	6314	631	1890	169	29.8	56.3	4.5	16.2	2.1	5.0	0.6	3.1	0.4	55.9	12,672	1.27	23.2	9.7
	136.0	137.0	3905	6756	663	1855	138	23.3	40.5	2.7	9.0	0.9	1.8	0.2	0.7	0.1	22.9	13,419	1.34	16.2	9.2
	137.0	138.0	2885	5687	581	1755	165	29.9	62.1	5.3	20.8	2.7	6.6	0.7	4.0	0.6	71.1	11,278	1.13	26.7	12.4
	138.0	139.0	2510	4852	484	1452	150	29.1	63.2	6.2	24.1	3.4	7.7	0.8	4.0	0.6	85.1	9,672	0.97	25.4	9.8
	139.0	140.0	1818	3513	362	1101	122	24.2	54.9	5.7	22.8	3.4	7.7	0.8	4.6	0.7	85.1	7,126	0.71	27.6	11.9
	140.0	141.0	5946	10834	1015	3033	232	39.6	73.0	5.9	17.9	2.4	4.2	0.5	2.4	0.4	54.6	21,261	2.13	30.2	7.2
	141.0	142.0	4375	8599	851	2601	204	34.0	64.1	5.6	17.6	2.2	3.9	0.4	2.4	0.4	49.5	16,809	1.68	43.9	7.1
	142.0	143.0	1777	3440	350	1124	118	24.2	57.6	6.6	26.4	4.4	10.8	1.2	6.3	0.9	113.0	7,060	0.71	40	12
	143.0	144.0	3530	6683	650	1983	157	26.5	50.9	4.2	14.0	1.9	4.0	0.4	2.2	0.2	44.5	13,151	1.32	19	7.6
	144.0	145.0	1437	2764	283	925	105	22.7	55.2	6.2	26.3	4.0	9.0	1.1	5.7	0.7	107.9	5,752	0.58	19.3	15
	145.0	146.0	1525	3194	341	1114	114	23.3	52.3	5.5	23.4	3.6	9.3	1.0	5.4	0.6	97.8	6,510	0.65	23.4	11.7
	146.0	147.0	4328	8267	796	2403	187	31.2	56.5	4.2	13.4	1.6	2.6	0.3	1.5	0.2	38.1	16,131	1.61	28	9.8
	147.0	148.0	3659	6695	639	1942	161	28.4	55.3	4.7	17.0	2.4	4.8	0.6	3.0	0.3	59.7	13,272	1.33	23.8	9.1
	148.0	149.0	2199	4140	410	1289	122	23.7	53.0	5.2	20.0	2.9	6.1	0.7	3.5	0.4	80.0	8,355	0.84	21.5	12.2
	149.0	150.0	1923	3624	366	1172	120	24.3	54.6	5.5	22.0	3.4	7.0	0.7	3.9	0.5	87.6	7,415	0.74	23.2	13.4
	150.0	151.0	1075	2101	221	762	93	21.3	50.0	5.7	24.8	3.7	8.7	0.9	4.7	0.7	102.9	4,474	0.45	30.8	8.9
	151.0	152.0	3342	6191	592	1790	142	25.0	49.3	4.5	14.7	2.1	4.0	0.5	2.1	0.3	50.8	12,211	1.22	19.4	12.7
	152.0	153.0	3835	6940	655	1971	168	30.5	64.0	5.8	19.7	2.6	5.6	0.5	2.6	0.4	67.3	13,769	1.38	19.6	9
	153.0	154.0	3812	6842	637	1837	125	20.2	35.2	2.7	7.6	1.0	1.8	0.2	0.9	0.1	20.3	13,343	1.33	18.6	11.4
	154.0	155.0	4867	8660	795	2309	162	25.6	46.0	3.4	10.4	1.2	1.9	0.3	1.3	0.2	26.7	16,911	1.69	26.4	6.8
	155.0	156.0	4433	7948	725	2070	139	22.9	40.2	3.2	10.4	1.4	2.5	0.3	1.6	0.2	33.0	15,431	1.54	16.4	8.9
	156.0	157.0	2404	4459	435	1324	119	21.7	44.8	4.3	15.6	2.4	4.9	0.6	3.1	0.4	58.4	8,897	0.89	17.1	7.7
	157.0	158.0	3319	6068	573	1715	124	19.9	37.1	2.5	7.9	1.0	1.7	0.2	1.0	0.1	24.1	11,894	1.19	18.1	6.2
	158.0	159.0	3741	6953	668	2006	166	29.4	59.5	5.5	19.3	2.5	5.4	0.5	2.5	0.3	64.8	13,724	1.37	20.9	7
	159.0	160.0	8644	16891	1698	5167	373	58.8	97.6	6.4	17.9	2.0	3.1	0.3	1.6	0.2	44.5	33,004	3.30	41.1	11.4
<b>KGKRC016</b>	0.0	1.0	3800	7579	774	2473	223	41.2	84.7	7.9	29.4	4.4	10.0	1.1	5.8	0.8	114.3	15,148	1.51	50	10.5
	1.0	2.0	2252	4521	477	1551	149	28.1	58.4	5.4	21.7	3.3	6.9	0.8	4.7	0.6	87.6	9,167	0.92	34.7	6
	2.0	3.0	2064	4066	429	1423	144	28.3	61.2	6.1	24.3	3.6	7.6	0.9	4.9	0.6	94.0	8,357	0.84	36.2	7.9
	3.0	4.0	4386	8021	784	2473	219	39.1	73.3	6.6	23.2	3.3	7.2	0.8	4.8	0.7	85.1	16,128	1.61	39.9	7.7
	4.0	5.0	2123	4324	453	1476	141	25.8	54.6	5.2	20.0	3.1	6.8	0.7	4.4	0.6	81.3	8,719	0.87	32.1	8.6
	5.0	6.0	3413	6609	669	2146	196	35.9	71.8	6.4	22.7	3.4	7.0	0.9	4.6	0.5	87.6	13,274	1.33	43.7	9.1
	6.0	7.0	1794	3661	388	1289	133	25.6	55.9	5.8	22.7	3.4	8.0	0.9	4.7	0.6	94.0	7,486	0.75	40.4	8.2
	7.0	8.0	1589	3354	373	1295	146	29.9	65.0	6.8	26.7	4.2	8.8	0.9	5.6	0.7	111.8	7,017	0.70	33.6	6.2
	8.0	9.0	1736	3919	433	1464	155	29.8	62.9	6.3	24.5	3.6	8.2	0.9	5.0	0.7	100.3	7,948	0.79	41.5	7

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	9.0	10.0	1613	3317	365	1260	140	29.5	65.0	6.7	28.0	4.5	10.5	1.1	6.6	0.9	120.6	6,968	0.70	49	7.6
	10.0	11.0	1976	4078	435	1452	151	29.4	66.7	6.2	26.3	4.0	9.2	1.1	5.5	0.9	109.2	8,351	0.84	45.1	9.2
	11.0	12.0	5184	10208	1040	3289	262	44.0	82.8	6.2	20.4	2.9	5.8	0.6	3.5	0.4	72.4	20,222	2.02	38.9	9.1
	12.0	13.0	2029	4164	437	1435	135	24.3	52.1	4.8	17.2	2.5	5.6	0.6	3.4	0.5	67.3	8,378	0.84	29.5	13.4
	13.0	14.0	1413	2985	325	1106	117	23.7	54.6	5.5	22.3	3.5	7.9	0.9	4.8	0.7	91.4	6,161	0.62	39.1	17.2
	14.0	15.0	1243	2666	300	1022	114	23.6	54.3	5.5	23.1	3.6	8.2	0.9	5.0	0.7	94.0	5,564	0.56	41.2	6.3
	15.0	16.0	1255	2739	309	1074	127	26.1	58.0	5.9	24.9	4.0	9.6	1.0	5.6	0.8	107.9	5,748	0.57	52.1	10.4
	16.0	17.0	1454	2997	329	1096	122	26.5	62.4	6.9	28.8	4.2	9.3	1.1	6.2	0.9	115.6	6,260	0.63	47.8	16.5
	17.0	18.0	5794	11780	1214	3732	292	47.5	89.7	7.0	22.7	2.9	6.3	0.6	4.0	0.5	74.9	23,069	2.31	60.4	13
	18.0	19.0	2967	5872	602	1907	172	30.3	62.1	5.6	21.8	3.5	8.5	1.0	5.9	0.9	107.9	11,768	1.18	40.9	5.8
	19.0	20.0	2991	6044	626	2024	179	32.7	65.1	6.1	21.8	2.9	6.0	0.7	5.2	0.9	81.3	12,085	1.21	53.7	6.3
	20.0	21.0	3296	6928	720	2298	190	32.3	59.5	5.1	18.6	2.6	6.3	0.7	4.9	0.7	72.4	13,634	1.36	36	5.1
	21.0	22.0	4492	9618	1017	3301	267	40.8	73.3	4.6	13.8	1.7	3.7	0.4	2.1	0.3	41.9	18,878	1.89	34.7	5.2
	22.0	23.0	2651	5614	596	1960	174	30.8	62.0	5.2	18.7	2.6	5.7	0.7	3.9	0.6	69.8	11,193	1.12	45.1	6.1
	23.0	24.0	2000	4398	472	1534	125	20.8	36.0	2.6	7.2	1.0	2.1	0.2	1.3	0.2	22.9	8,623	0.86	26.5	8.5
	24.0	25.0	5371	11314	1166	3674	267	42.7	72.3	4.6	12.1	1.5	2.6	0.3	1.4	0.3	33.0	21,962	2.20	38.7	3.1
	25.0	26.0	6509	13021	1305	4024	286	45.4	77.1	5.3	15.3	1.9	3.4	0.3	1.4	0.2	45.7	25,341	2.53	44.4	3.6
	26.0	27.0	15657	25182	2151	5820	383	61.8	112.7	8.8	24.8	2.7	4.2	0.3	1.9	0.2	57.2	49,467	4.95	69.4	4.5
	27.0	28.0	7178	13205	1238	3628	253	40.6	74.7	5.4	15.2	1.8	2.7	0.3	1.6	0.2	40.6	25,685	2.57	48.2	2
	28.0	29.0	3601	6904	662	1971	141	23.0	41.6	2.9	8.2	0.9	1.4	0.2	0.8	0.1	21.6	13,379	1.34	22.9	1.9
	29.0	30.0	4633	9373	936	2869	209	32.9	56.4	3.6	9.5	1.1	1.5	0.1	0.7	0.1	21.6	18,148	1.81	28.5	0.3
	30.0	31.0	4633	9360	928	2846	213	33.8	58.7	3.7	10.9	1.2	2.2	0.2	1.1	0.2	26.7	18,119	1.81	34.8	0.5
	31.0	32.0	4808	9901	1006	3138	247	40.2	71.2	4.9	12.9	1.4	2.2	0.2	1.0	0.2	31.8	19,266	1.93	47.4	2.7
	32.0	33.0	3671	7530	759	2368	179	29.0	54.5	3.6	9.9	1.1	1.7	0.2	0.8	0.1	22.9	14,630	1.46	29.4	0.4
	33.0	34.0	2991	6437	675	2170	179	29.3	54.2	3.7	10.6	1.2	2.4	0.2	1.1	0.2	29.2	12,583	1.26	34.9	0.4
	34.0	35.0	5676	11694	1173	3674	279	44.8	77.0	5.5	16.3	1.8	3.2	0.3	2.1	0.3	41.9	22,691	2.27	47.3	0.8
	35.0	36.0	13898	29482	3093	9728	704	107.2	182.1	11.7	33.6	3.8	6.0	0.6	3.1	0.4	78.7	57,331	5.73	91.8	1.2
	36.0	37.0	5301	11461	1205	3837	288	45.2	82.0	5.4	14.0	1.5	2.5	0.2	1.3	0.2	34.3	22,278	2.23	45.6	0.6
	37.0	38.0	1443	3169	343	1109	93	15.1	26.6	1.9	6.2	0.7	1.4	0.2	0.9	0.1	19.1	6,229	0.62	16.5	-0.3
	38.0	39.0	3061	6609	716	2280	171	27.9	48.8	3.2	9.6	1.0	1.9	0.2	0.8	0.1	22.9	12,954	1.30	28.3	0.6
	39.0	40.0	6509	13697	1426	4467	335	54.7	99.7	7.4	25.8	3.3	6.6	0.7	3.2	0.5	83.8	26,719	2.67	40.3	0.7
	40.0	41.0	3272	7026	754	2414	201	34.5	67.4	6.0	21.0	2.8	5.5	0.7	3.6	0.6	73.7	13,883	1.39	35.1	1.4
	41.0	42.0	6450	13390	1383	4269	292	45.5	77.5	5.5	16.5	1.8	3.3	0.4	1.9	0.3	45.7	25,983	2.60	43.8	1.3
	42.0	43.0	4609	9704	1010	3196	227	34.7	57.8	3.7	10.7	1.0	1.9	0.1	0.6	0.1	21.6	18,879	1.89	32.8	1.4
	43.0	44.0	3812	8107	843	2636	195	31.6	55.1	3.9	11.3	1.2	2.1	0.2	0.8	0.1	24.1	15,724	1.57	28	0.4
	44.0	45.0	5770	10945	1085	3278	230	36.2	63.2	4.2	12.2	1.2	1.8	0.2	0.7	0.1	24.1	21,451	2.15	38.1	0.9
	45.0	46.0	4117	7592	724	2111	141	21.7	39.3	2.6	7.6	0.7	1.4	0.1	0.6	0.1	16.5	14,775	1.48	21.7	0.5
	46.0	47.0	3964	8058	824	2578	184	28.5	47.6	3.3	9.6	1.0	1.7	0.2	0.8	0.1	21.6	15,722	1.57	28.5	0.5
	47.0	48.0	4656	8550	819	2403	164	25.2	43.2	2.8	8.3	0.8	1.5	0.1	0.5	0.1	17.8	16,692	1.67	23.6	0.4
	48.0	49.0	4210	7678	739	2181	152	24.7	45.1	3.2	9.3	1.0	1.7	0.2	0.7	0.1	22.9	15,070	1.51	27.9	0.7
	49.0	50.0	3788	7370	738	2228	161	26.9	48.9	4.0	11.9	1.3	2.3	0.2	1.1	0.2	31.8	14,414	1.44	38.2	0.8
	50.0	51.0	6298	11719	1155	3476	249	40.6	74.3	5.6	15.7	1.6	2.7	0.2	1.4	0.2	35.6	23,075	2.31	53.6	0.7
	51.0	52.0	4961	9029	870	2601	192	31.3	57.4	4.0	11.4	1.2	1.8	0.2	0.7	0.1	26.7	17,788	1.78	37.5	0.6



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	52.0	53.0	5348	8844	787	2170	132	20.4	37.5	2.7	7.7	0.8	1.5	0.1	0.6	0.1	19.1	17,371	1.74	21.8	1.4
	53.0	54.0	5043	8820	823	2368	166	26.5	47.8	3.7	10.8	1.0	1.9	0.2	0.8	0.1	25.4	17,338	1.73	32.1	0.6
	54.0	55.0	5465	10048	983	2939	213	34.0	62.8	4.3	12.4	1.3	2.1	0.2	0.8	0.1	29.2	19,796	1.98	47.5	2.2
	55.0	56.0	6673	11854	1154	3394	235	36.9	63.6	4.4	13.3	1.2	1.9	0.1	0.6	0.1	27.9	23,461	2.35	40.5	0.4
	56.0	57.0	5371	9557	900	2601	173	27.9	49.0	3.4	10.0	1.1	1.8	0.1	0.7	0.1	24.1	18,721	1.87	26.1	0.4
	57.0	58.0	3577	6302	593	1709	111	18.3	32.9	2.2	6.9	0.7	1.4	0.1	0.5	0.1	16.5	12,371	1.24	18.3	1.4
	58.0	59.0	9488	16829	1613	4736	324	53.3	90.7	6.5	17.2	1.8	2.5	0.2	1.0	0.2	38.1	33,201	3.32	56.6	1.4
	59.0	60.0	5594	10675	1072	3266	246	39.5	69.9	4.8	14.2	1.4	2.6	0.2	1.0	0.1	33.0	21,019	2.10	47.2	2.2
	60.0	61.0	5348	9631	924	2718	189	29.5	52.3	3.7	11.1	1.2	1.9	0.2	0.8	0.1	25.4	18,936	1.89	31.5	3.3
	61.0	62.0	5336	8869	793	2251	158	26.5	48.6	3.8	12.4	1.3	2.3	0.2	1.0	0.1	30.5	17,533	1.75	37.5	2.6
	62.0	63.0	6638	10429	911	2484	162	28.6	53.4	4.7	14.1	1.5	2.2	0.2	1.0	0.1	33.0	20,763	2.08	39.3	3
	63.0	64.0	5278	9102	845	2438	170	28.5	51.8	4.3	14.0	1.4	2.4	0.2	0.8	0.1	31.8	17,968	1.80	40.4	1.9
	64.0	65.0	5606	10355	1022	3103	231	38.0	66.9	4.9	13.8	1.2	1.9	0.2	0.8	0.1	29.2	20,474	2.05	46.1	0.6
	65.0	66.0	6110	11375	1121	3394	250	41.8	75.5	5.7	16.8	1.7	2.4	0.2	0.9	0.1	35.6	22,432	2.24	60.1	1.2
	66.0	67.0	6427	11645	1109	3278	231	36.9	62.6	4.3	12.9	1.3	2.1	0.2	0.6	0.1	26.7	22,837	2.28	36.1	-0.3
	67.0	68.0	5606	10441	994	2916	213	35.3	62.2	4.5	13.1	1.2	2.4	0.2	0.8	0.1	27.9	20,319	2.03	39.1	0.5
	68.0	69.0	4984	8881	838	2531	190	36.2	65.6	5.4	16.8	1.8	2.6	0.3	1.4	0.2	41.9	17,598	1.76	46.5	1.2
	69.0	70.0	11552	19470	1812	5155	377	65.7	121.6	9.9	33.2	3.4	4.8	0.4	2.2	0.3	80.0	38,688	3.87	99.7	3.1
	70.0	71.0	6685	11903	1157	3394	256	45.5	89.1	7.4	24.8	2.4	3.3	0.3	1.1	0.2	54.6	23,625	2.36	82.4	2.1
	71.0	72.0	5383	8673	802	2578	195	34.0	64.9	5.9	18.3	1.8	3.0	0.2	1.5	0.2	40.6	17,802	1.78	53.9	4
	72.0	73.0	4715	8046	755	2473	201	33.7	60.6	4.7	13.1	1.5	2.1	0.2	0.9	0.1	30.5	16,337	1.63	36.4	0.4
	73.0	74.0	3413	6105	574	1890	157	27.6	50.5	3.9	10.9	1.2	2.2	0.2	0.9	0.1	26.7	12,262	1.23	29.9	-0.3
	74.0	75.0	4011	6584	598	1907	144	25.8	46.3	3.5	10.7	1.2	1.8	0.2	0.8	0.1	22.9	13,358	1.34	26.4	0.3
	75.0	76.0	10039	15355	1377	4222	300	51.8	90.7	7.5	21.9	2.2	2.6	0.2	1.1	0.1	47.0	31,519	3.15	60	1.5
	76.0	77.0	4656	7849	737	2356	190	35.3	71.1	6.7	22.6	2.3	4.4	0.3	2.1	0.3	59.7	15,993	1.60	45.6	0.5
	77.0	78.0	3776	6560	602	1936	152	27.8	50.5	4.1	12.1	1.4	2.4	0.2	1.4	0.2	33.0	13,159	1.32	28.6	-0.3
	78.0	79.0	4891	8464	784	2531	192	31.4	57.2	4.7	14.7	1.8	3.0	0.2	1.1	0.2	38.1	17,014	1.70	33.2	1.1
	79.0	80.0	5289	8894	831	2659	197	32.4	60.3	4.9	17.5	1.8	3.0	0.3	1.8	0.2	43.2	18,036	1.80	36.7	1.2
	80.0	81.0	5113	8648	806	2531	198	33.9	62.4	5.3	16.9	1.8	3.0	0.3	1.7	0.2	41.9	17,463	1.75	42	0.7
	81.0	82.0	6662	11559	1106	3651	303	53.0	96.5	7.1	20.8	2.1	3.3	0.3	2.2	0.2	48.3	23,513	2.35	81.1	1.4
	82.0	83.0	6439	10392	961	3091	247	43.8	74.5	5.3	14.9	1.5	2.4	0.2	1.1	0.2	34.3	21,308	2.13	56.6	0.8
	83.0	84.0	4785	7776	718	2298	190	34.6	62.7	4.8	13.8	1.5	2.4	0.2	1.4	0.3	33.0	15,921	1.59	52.3	0.9
	84.0	85.0	5137	8501	776	2496	200	34.2	63.2	4.9	13.9	1.5	2.2	0.2	1.0	0.1	31.8	17,262	1.73	45.4	1.1
	85.0	86.0	4668	7690	719	2315	176	30.6	53.1	4.0	11.8	1.2	1.9	0.2	0.9	0.1	27.9	15,699	1.57	31.3	0.3
	86.0	87.0	7776	12210	1148	3616	271	44.1	76.3	5.0	13.8	1.4	1.8	0.1	0.5	0.1	31.8	25,196	2.52	41.6	0.3
	87.0	88.0	5055	8415	791	2543	204	36.8	66.4	5.1	16.9	1.8	2.5	0.2	1.1	0.2	39.4	17,178	1.72	47.6	0.5
	88.0	89.0	5031	8574	812	2671	224	37.2	66.9	4.8	14.1	1.3	2.3	0.2	0.8	0.1	30.5	17,470	1.75	43.5	0.7
	89.0	90.0	6204	9766	886	2648	187	33.1	60.4	4.6	15.5	1.8	2.5	0.2	0.8	0.1	38.1	19,848	1.98	38	0.5
	90.0	91.0	4187	6683	634	1989	154	25.7	45.1	3.3	10.3	1.1	1.9	0.1	0.8	0.1	24.1	13,759	1.38	26.3	-0.3
	91.0	92.0	6251	9729	905	2764	201	34.0	60.9	4.6	15.6	1.6	2.7	0.2	1.0	0.2	38.1	20,009	2.00	37.5	0.3
	92.0	93.0	6802	10478	980	3021	219	37.3	62.9	4.3	13.5	1.4	2.1	0.2	0.8	0.1	31.8	21,654	2.17	37.5	-0.3
	93.0	94.0	3894	6388	622	2024	165	29.9	55.2	4.6	14.2	1.5	2.4	0.2	1.3	0.1	35.6	13,238	1.32	54.2	0.3
	94.0	95.0	6357	9778	899	2729	197	33.6	61.8	4.5	14.8	1.6	3.0	0.2	1.0	0.2	38.1	20,119	2.01	41.3	0.5

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	95.0	96.0	2744	4508	413	1283	103	18.3	36.0	3.1	10.6	1.4	2.3	0.2	1.5	0.1	31.8	9,157	0.92	34	0.4
	96.0	97.0	5231	8169	760	2368	187	33.0	62.2	5.0	16.0	1.6	2.3	0.2	0.9	0.1	36.8	16,872	1.69	48.8	0.5
	97.0	98.0	3554	5700	515	1575	118	21.3	37.0	3.3	10.6	1.1	1.9	0.2	1.0	0.1	27.9	11,565	1.16	23.5	0.4
	98.0	99.0	4175	6646	620	1925	141	25.6	45.0	3.2	11.0	1.3	1.9	0.2	0.9	0.1	26.7	13,622	1.36	25.4	0.3
	99.0	100.0	7623	12837	1257	4001	295	50.1	85.5	6.2	18.4	2.0	2.9	0.2	0.9	0.2	44.5	26,223	2.62	64.1	1.6
	100.0	101.0	6603	10982	1064	3336	240	41.0	68.2	5.1	13.5	1.6	2.1	0.2	0.8	0.1	34.3	22,392	2.24	42.1	0.9
	101.0	102.0	5571	9139	872	2764	208	35.1	61.1	4.3	12.9	1.4	2.2	0.2	0.7	0.2	30.5	18,703	1.87	36.7	2
	102.0	103.0	5735	8992	831	2554	193	34.5	60.6	5.0	15.3	1.7	2.5	0.2	0.9	0.1	38.1	18,464	1.85	40.2	0.5
	103.0	104.0	5934	9889	945	2998	231	42.2	74.8	5.2	16.0	1.5	2.3	0.2	1.0	0.2	34.3	20,174	2.02	56.4	0.7
	104.0	105.0	10450	17750	1734	5470	412	68.1	117.6	8.7	27.4	3.4	4.5	0.5	2.3	0.3	76.2	36,125	3.61	86.5	2.7
	105.0	106.0	13956	22234	2132	6613	477	82.2	138.3	9.2	28.0	3.0	4.1	0.3	1.5	0.2	63.5	45,743	4.57	98.9	2.2
	106.0	107.0	4152	7026	677	2158	173	31.0	52.9	4.0	13.1	1.4	2.2	0.2	0.8	0.1	31.8	14,323	1.43	29.9	0.3
	107.0	108.0	5160	10491	1035	3278	270	44.8	77.7	5.8	15.8	1.7	2.6	0.2	0.9	0.1	36.8	20,421	2.04	52.4	0.5
	108.0	109.0	4480	8808	860	2659	217	37.8	64.4	4.6	13.0	1.5	2.3	0.2	1.0	0.2	31.8	17,181	1.72	39.9	0.5
	109.0	110.0	3155	5761	547	1656	140	25.0	45.5	3.5	10.4	1.2	1.9	0.2	0.7	0.1	24.1	11,373	1.14	28.4	-0.3
	110.0	111.0	5184	9508	896	2694	206	35.0	59.5	4.2	12.3	1.2	2.1	0.1	0.7	0.1	27.9	18,632	1.86	34.1	0.4
	111.0	112.0	6321	11326	1050	3079	221	37.3	64.3	4.2	11.4	1.4	2.1	0.1	0.6	0.1	25.4	22,144	2.21	33.9	0.4
	112.0	113.0	4691	8660	816	2438	181	31.4	53.7	3.7	10.8	1.2	1.7	0.1	0.5	0.1	25.4	16,915	1.69	29.7	0.4
	113.0	114.0	5442	10257	982	3009	232	39.0	65.5	4.5	12.9	1.4	1.9	0.2	0.5	0.1	26.7	20,075	2.01	38.7	0.5
	114.0	115.0	4633	8734	841	2566	204	34.7	64.0	4.8	14.0	1.5	2.3	0.2	0.8	0.1	29.2	17,129	1.71	38.8	0.4
	115.0	116.0	3788	7137	696	2129	176	30.7	56.8	4.0	11.9	1.3	1.9	0.2	0.8	0.1	27.9	14,061	1.41	37.5	0.7
	116.0	117.0	4984	9410	905	2776	224	38.1	68.0	5.1	15.2	1.5	2.4	0.2	0.8	0.1	34.3	18,464	1.85	48.6	2.2
	117.0	118.0	2346	4471	434	1341	112	20.2	35.9	2.9	8.7	1.0	1.6	0.1	0.6	0.1	21.6	8,797	0.88	24	1.3
	118.0	119.0	3073	5761	555	1697	145	28.5	60.1	6.4	21.9	2.4	3.3	0.3	1.7	0.2	50.8	11,406	1.14	72.3	14.8
	119.0	120.0	3577	7002	697	2193	199	36.4	67.3	5.6	17.1	1.9	3.2	0.3	1.5	0.3	40.6	13,842	1.38	60.2	12.6
	120.0	121.0	1888	3636	361	1142	105	19.7	36.8	3.0	9.3	1.1	1.8	0.2	1.1	0.2	24.1	7,230	0.72	26.4	8
	121.0	122.0	2768	5196	500	1540	132	24.0	45.9	3.4	11.3	1.4	2.5	0.2	1.1	0.2	27.9	10,254	1.03	38.1	14.2
	122.0	123.0	4961	9176	872	2636	223	41.5	81.4	6.4	23.2	3.0	6.4	0.6	3.9	0.5	82.5	18,117	1.81	63.4	20
	123.0	124.0	1964	3992	417	1400	158	35.6	80.9	8.4	36.2	5.7	13.0	1.4	7.9	1.1	156.2	8,278	0.83	51.5	22.5
	124.0	125.0	1718	3661	394	1336	152	32.9	74.5	9.3	42.5	7.1	15.6	1.6	8.3	1.1	199.4	7,652	0.77	69.5	24.7
	125.0	126.0	1255	2899	329	1165	135	26.6	59.8	6.6	27.1	4.2	10.1	1.1	6.4	0.9	123.2	6,049	0.60	64.5	22.9
	126.0	127.0	2176	4877	533	1814	196	41.8	95.7	12.1	63.4	11.3	27.0	2.6	13.7	1.8	332.7	10,197	1.02	74.7	25.4
	127.0	128.0	2920	6154	644	2123	206	38.9	77.6	8.7	36.4	5.3	11.9	1.2	7.1	1.0	152.4	12,388	1.24	91	29.1
	128.0	129.0	3624	7456	758	2403	211	36.2	67.8	5.1	15.4	1.7	2.7	0.3	1.4	0.3	39.4	14,622	1.46	75.2	18
	129.0	130.0	4105	7985	776	2344	188	33.7	56.9	4.1	11.4	1.3	2.3	0.2	0.9	0.2	30.5	15,539	1.55	38.3	6.5
	130.0	131.0	5770	11694	1173	3663	297	51.2	89.1	5.9	16.1	1.7	2.3	0.2	0.8	0.1	34.3	22,799	2.28	52.2	8.3
	131.0	132.0	1489	3378	383	1353	166	33.2	77.0	8.1	35.9	5.8	14.4	1.8	10.0	1.5	170.2	7,128	0.71	45.3	23.1
	132.0	133.0	733	1836	224	840	120	27.8	68.1	7.7	32.0	5.1	12.0	1.4	8.2	1.1	143.5	4,060	0.41	32.3	20.9
	133.0	134.0	1009	2432	285	1038	125	26.5	60.9	6.3	26.1	4.2	10.4	1.1	6.7	0.9	114.3	5,147	0.51	43.9	22.9
	134.0	135.0	2826	5823	592	1913	175	30.9	58.3	4.5	13.4	1.9	3.7	0.3	1.9	0.3	39.4	11,484	1.15	29.1	6.8
	135.0	136.0	3448	6818	677	2117	191	36.0	70.4	5.5	17.5	2.3	4.0	0.5	2.4	0.3	53.3	13,443	1.34	37.7	12.5
	136.0	137.0	3331	6867	700	2234	194	33.7	58.6	4.0	11.4	1.4	2.4	0.2	0.8	0.1	30.5	13,467	1.35	36.3	8.9
	137.0	138.0	2369	5073	493	1580	128	22.7	38.7	2.7	8.7	0.9	1.6	0.1	0.7	0.1	20.3	9,741	0.97	21	2.2

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	138.0	139.0	4046	7935	764	2438	196	33.8	57.1	4.4	11.1	1.1	1.9	0.1	0.8	0.1	25.4	15,515	1.55	38	0.8
	139.0	140.0	2498	5049	481	1499	114	20.4	35.6	2.7	7.8	0.8	1.3	0.1	0.6	0.1	19.1	9,728	0.97	21.7	-0.3
	140.0	141.0	4468	8095	733	2210	169	31.0	54.9	4.1	10.9	1.2	1.5	0.1	0.7	0.1	25.4	15,806	1.58	33.4	2.1
	141.0	142.0	4257	7899	754	2368	186	34.9	60.3	4.4	13.3	1.4	1.6	0.1	0.6	0.1	27.9	15,608	1.56	45.3	2.1
	142.0	143.0	4292	8795	876	2846	228	39.1	69.6	4.9	14.5	1.3	2.3	0.2	0.9	0.1	30.5	17,201	1.72	50.1	2.6
	143.0	144.0	7916	13451	1196	3546	241	41.0	71.8	5.4	16.0	1.6	2.3	0.2	0.9	0.1	34.3	26,524	2.65	41.4	1.7
	144.0	145.0	3178	6646	643	2059	166	29.2	50.3	3.3	8.8	0.8	1.7	0.1	0.6	0.1	20.3	12,806	1.28	25.4	0.6
	145.0	146.0	5512	9876	900	2683	185	32.5	56.3	3.7	11.4	1.1	1.7	0.2	0.8	0.1	26.7	19,291	1.93	29.1	0.7
	146.0	147.0	2058	4164	382	1207	97	18.2	31.0	2.3	7.7	0.9	1.4	0.2	0.8	0.1	21.6	7,993	0.80	16.6	-0.3
	147.0	148.0	2568	5319	504	1604	125	22.9	39.7	3.0	8.6	1.0	1.8	0.2	0.7	0.1	24.1	10,222	1.02	23.3	0.4
	148.0	149.0	3143	6240	576	1790	147	25.7	46.1	3.6	11.1	1.1	1.9	0.1	0.7	0.1	26.7	12,015	1.20	34.5	0.8
	149.0	150.0	5606	10220	922	2776	197	34.3	61.2	4.3	11.7	1.2	1.6	0.1	0.6	-0.1	25.4	19,861	1.99	29.3	0.3
	150.0	151.0	4457	8329	779	2449	191	33.8	62.7	4.5	13.4	1.3	2.1	0.1	0.7	0.1	31.8	16,355	1.64	46.1	0.7
	151.0	152.0	9992	18979	1855	5727	431	74.9	138.9	10.9	31.9	3.1	4.6	0.3	1.7	0.3	71.1	37,322	3.73	141.5	1.8
	152.0	153.0	5043	9324	877	2636	198	37.5	66.6	5.1	14.6	1.4	2.2	0.2	1.0	0.1	34.3	18,240	1.82	51.9	0.6
	153.0	154.0	5712	9741	947	3021	233	39.7	65.7	4.7	13.3	1.4	1.6	0.1	0.5	0.1	27.9	19,809	1.98	38.5	0.3
	154.0	155.0	5325	8685	816	2508	181	31.7	54.9	3.5	11.3	1.2	1.7	0.1	0.7	0.1	24.1	17,643	1.76	30.7	-0.3
	155.0	156.0	4175	6793	644	2006	153	27.7	48.6	3.8	12.7	1.5	1.9	0.2	0.9	0.1	29.2	13,898	1.39	34.3	0.5
	156.0	157.0	3976	6621	621	1919	144	25.1	43.9	3.2	10.0	1.1	1.7	0.2	0.8	0.1	26.7	13,394	1.34	24.8	0.3
	157.0	158.0	4492	7518	719	2280	178	31.5	56.1	4.0	13.0	1.4	2.4	0.2	0.9	0.1	30.5	15,327	1.53	35	0.3
	158.0	159.0	4058	6879	658	2076	156	26.4	45.4	3.1	9.5	1.0	1.6	0.2	0.6	0.1	24.1	13,940	1.39	25.8	0.3
	159.0	160.0	3366	6117	622	2082	170	30.1	53.1	4.4	14.5	1.6	2.5	0.2	1.0	0.2	39.4	12,505	1.25	41.6	1
	160.0	161.0	6450	11768	1244	4257	366	61.7	100.4	6.6	20.7	2.3	3.0	0.3	1.4	0.2	49.5	24,333	2.43	83.2	1.1
	161.0	162.0	4996	8476	811	2566	191	33.1	57.4	3.8	11.1	1.2	1.7	0.2	0.9	0.1	26.7	17,176	1.72	31.7	0.5
	162.0	163.0	10473	16645	1559	4712	322	56.7	101.5	7.4	20.3	2.2	3.3	0.2	0.9	0.1	47.0	33,951	3.40	56.6	1.1
	163.0	164.0	10895	17812	1698	5155	359	61.4	105.2	7.4	21.0	2.1	3.1	0.3	0.9	0.1	45.7	36,167	3.62	58	0.6
	164.0	165.0	4468	7702	760	2438	188	32.8	57.3	4.0	12.1	1.2	2.2	0.1	0.9	0.1	26.7	15,693	1.57	34.8	0.6
	165.0	166.0	6650	11829	1180	3709	289	49.8	87.9	6.4	17.8	1.9	2.9	0.2	0.9	0.1	38.1	23,864	2.39	61.5	1.1
	166.0	167.0	6837	12112	1220	3802	286	50.8	88.5	6.5	19.3	2.1	2.9	0.3	1.0	0.1	44.5	24,475	2.45	62.4	3.2
	167.0	168.0	3460	6375	620	1890	148	26.5	46.3	3.6	9.3	1.0	1.6	0.1	0.7	0.1	22.9	12,605	1.26	25.3	1.2
	168.0	169.0	6251	11412	1157	3639	279	46.4	79.0	5.7	15.0	1.5	2.2	0.2	0.9	0.2	30.5	22,920	2.29	51.5	1
	169.0	170.0	2580	5282	522	1662	129	22.9	42.1	3.3	9.0	1.2	1.6	0.1	0.7	0.1	22.9	10,279	1.03	24.5	0.3
	170.0	171.0	1665	3403	338	1084	89	16.3	30.8	2.4	7.4	0.9	1.3	0.1	0.5	0.1	20.3	6,659	0.67	16.8	-0.3
<b>KGKRC019</b>	0.0	1.0	4586	9876	1067	3604	268	42.5	67.4	4.5	12.2	1.2	2.3	0.2	1.0	0.1	30.5	19,563	1.96	40.7	7.2
	1.0	2.0	7869	17382	1885	6170	484	79.0	121.6	7.3	18.5	1.9	2.3	0.2	0.9	0.2	34.3	34,056	3.41	59.8	9.2
	2.0	3.0	3038	6830	755	2671	231	39.4	69.9	5.1	17.0	2.2	4.7	0.5	3.9	0.6	57.2	13,725	1.37	54.7	9.5
	3.0	4.0	1255	2899	317	1196	148	31.3	70.0	7.4	31.0	4.8	11.4	1.2	7.0	0.9	133.3	6,112	0.61	51.7	3.9
	4.0	5.0	1196	2801	312	1166	146	33.2	73.5	7.4	31.8	4.9	11.7	1.3	7.0	0.9	135.9	5,928	0.59	49.6	6.1
	5.0	6.0	1789	4029	449	1668	177	33.9	66.4	5.8	22.3	3.3	6.9	0.8	4.3	0.7	87.6	8,344	0.83	47.7	6.5
	6.0	7.0	2193	5061	576	2111	217	39.8	76.2	6.7	25.3	3.4	8.0	0.8	4.8	0.7	96.5	10,421	1.04	50	5.8
	7.0	8.0	1108	2567	282	1059	133	28.0	62.2	6.5	27.2	4.2	9.8	1.1	6.0	0.9	116.8	5,412	0.54	41.8	5.8
	8.0	9.0	2604	5823	644	2292	206	38.2	74.1	6.2	24.3	3.4	7.8	0.8	4.4	0.6	90.2	11,819	1.18	46.2	7.4

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	9.0	10.0	2897	7051	808	2916	266	46.4	80.9	5.8	19.5	2.5	5.3	0.5	3.4	0.6	67.3	14,170	1.42	52.7	4.1
	10.0	11.0	1894	4091	437	1575	161	32.4	67.2	6.5	27.0	4.1	9.2	1.0	5.7	0.9	111.8	8,423	0.84	54.9	7.3
	11.0	12.0	2381	4828	497	1668	133	21.5	37.1	2.9	9.4	1.2	2.3	0.2	1.1	0.2	26.7	9,609	0.96	26.5	11.5
	12.0	13.0	3260	6633	703	2379	192	32.1	56.5	4.3	13.3	1.5	2.3	0.2	0.8	0.1	31.8	13,311	1.33	46	5.6
	13.0	14.0	3155	6228	638	2123	163	27.1	46.1	3.6	12.5	1.3	2.3	0.2	1.1	0.2	31.8	12,433	1.24	38.1	5.7
	14.0	15.0	3730	8439	893	2998	278	47.9	79.2	5.5	17.3	1.6	2.5	0.2	1.5	0.2	36.8	16,530	1.65	63.4	5
	15.0	16.0	3976	8341	835	2624	218	36.5	62.8	4.8	16.0	1.7	2.6	0.2	1.3	0.1	38.1	16,158	1.62	47.5	3.8
	16.0	17.0	5782	10589	1010	3044	246	44.5	78.4	6.2	20.9	2.0	3.5	0.3	1.3	0.2	48.3	20,876	2.09	58.8	3.7
	17.0	18.0	5723	11056	1178	3604	259	40.5	66.3	4.7	14.6	1.6	2.5	0.2	1.1	0.1	35.6	21,987	2.20	45.7	2.3
	18.0	19.0	4621	8341	910	2741	196	30.6	50.7	3.6	12.3	1.4	2.4	0.1	0.9	0.1	33.0	16,944	1.69	31.7	2.4
	19.0	20.0	5067	9606	1074	3336	247	39.6	62.5	4.3	13.8	1.5	2.5	0.1	1.1	0.1	35.6	19,491	1.95	41.5	3
	20.0	21.0	6380	12468	1444	4374	339	52.5	84.5	5.7	17.3	1.8	2.9	0.2	1.0	0.1	39.4	25,210	2.52	53.3	1.9
	21.0	22.0	3671	7162	835	2741	246	40.3	68.0	4.6	13.9	1.5	2.4	0.2	1.1	0.1	34.3	14,821	1.48	46.6	2.8
	22.0	23.0	4316	8378	945	3009	234	38.2	61.4	4.5	14.8	1.6	2.5	0.2	1.1	0.1	36.8	17,043	1.70	39.5	2
	23.0	24.0	5149	10011	1104	3383	253	38.8	63.5	4.6	14.4	1.6	2.5	0.1	1.1	0.1	35.6	20,062	2.01	45.4	2
	24.0	25.0	3436	6535	730	2309	189	30.7	51.4	3.7	11.9	1.2	2.1	0.1	1.1	0.1	27.9	13,330	1.33	39.5	1.5
	25.0	26.0	3647	7186	731	2356	184	30.7	50.9	3.7	11.0	1.2	2.1	0.2	1.0	0.1	26.7	14,232	1.42	37.2	3.4
	26.0	27.0	3601	7456	782	2589	215	35.7	60.3	4.3	12.6	1.3	1.9	0.2	1.0	0.2	27.9	14,788	1.48	43.5	3
	27.0	28.0	3471	7616	837	2904	253	42.6	71.8	5.1	15.3	1.7	2.6	0.2	1.4	0.2	35.6	15,258	1.53	57.9	3
	28.0	29.0	4492	10061	1113	3837	320	52.0	84.0	5.8	17.0	1.7	2.2	0.2	1.0	0.2	34.3	20,021	2.00	67.9	2.3
	29.0	30.0	5160	11203	1250	3989	317	52.3	86.1	5.8	16.3	1.6	2.4	0.2	1.4	0.2	36.8	22,123	2.21	73.3	3.3
	30.0	31.0	4996	10724	1128	3697	285	47.6	78.3	5.6	17.2	2.0	3.3	0.4	2.7	0.4	47.0	21,036	2.10	60.9	2.7
	31.0	32.0	3671	7579	789	2624	221	37.4	64.4	4.4	13.1	1.5	2.3	0.2	1.0	0.2	29.2	15,039	1.50	47.3	1.6
	32.0	33.0	4199	8083	793	2484	183	30.7	50.5	3.6	10.8	1.3	2.1	0.2	1.0	0.2	27.9	15,869	1.59	33.4	1.4
	33.0	34.0	6861	14372	1559	4677	328	52.2	87.7	6.2	19.3	2.1	3.1	0.3	1.5	0.2	44.5	28,014	2.80	66.1	2.4
	34.0	35.0	8139	16031	1691	4899	337	54.0	90.7	6.5	19.3	1.9	2.5	0.2	1.0	0.1	39.4	31,313	3.13	71.4	4.1
	35.0	36.0	3542	7149	723	2327	181	29.3	50.1	3.5	10.9	1.2	1.9	0.2	1.0	0.1	26.7	14,047	1.40	34.3	4.6
	36.0	37.0	3237	6498	657	2076	154	24.9	42.4	3.5	11.1	1.2	1.9	0.2	1.3	0.2	27.9	12,737	1.27	36.3	6.9
	37.0	38.0	8444	17320	1800	5237	337	53.6	90.3	6.5	20.7	2.2	3.2	0.3	1.6	0.3	48.3	33,366	3.34	64.7	3.5
	38.0	39.0	5489	11744	1281	4152	322	52.7	86.6	6.1	17.6	1.8	2.6	0.2	1.1	0.2	36.8	23,193	2.32	68.7	3.4
	39.0	40.0	3894	8832	970	3359	284	47.5	81.0	6.3	17.8	1.8	2.4	0.2	1.3	0.2	36.8	17,535	1.75	76.5	2.1
	40.0	41.0	5970	12272	1365	4339	375	63.1	110.2	8.2	25.1	2.5	3.7	0.3	1.5	0.2	50.8	24,586	2.46	100.5	3.4
	41.0	42.0	5887	11535	1154	3639	270	47.4	84.3	6.3	19.3	2.1	2.9	0.3	1.4	0.1	43.2	22,692	2.27	80.8	4.1
	42.0	43.0	5454	10884	1102	3499	261	43.1	75.4	5.7	17.6	2.0	3.2	0.3	1.7	0.3	45.7	21,394	2.14	63.6	7.4
	43.0	44.0	4316	8255	819	2601	209	36.1	66.0	5.0	16.0	2.0	3.3	0.3	2.2	0.3	45.7	16,377	1.64	47.5	6.3
	44.0	45.0	6263	11965	1199	3709	292	53.4	94.2	6.8	21.4	2.2	3.7	0.4	1.8	0.3	48.3	23,660	2.37	75.8	6.5
	45.0	46.0	4492	8132	776	2333	167	29.4	51.9	3.8	13.3	1.5	2.5	0.2	1.3	0.2	31.8	16,035	1.60	35.4	4.5
	46.0	47.0	4175	8365	828	2589	191	33.8	61.2	4.6	13.5	1.4	2.2	0.2	1.3	0.2	30.5	16,298	1.63	48.5	4.2
	47.0	48.0	6122	12653	1341	4292	336	59.8	100.9	7.2	21.1	2.1	3.2	0.3	1.6	0.3	48.3	24,989	2.50	76.5	5.2
	48.0	49.0	6720	12837	1305	4036	296	49.8	86.2	6.3	20.0	1.9	3.0	0.2	1.1	0.2	41.9	25,404	2.54	67	5.7
	49.0	50.0	3753	7518	776	2449	206	38.3	68.2	5.4	17.7	1.9	3.3	0.3	1.9	0.3	47.0	14,887	1.49	43	7.3
	50.0	51.0	4292	8795	927	3009	244	42.6	70.4	5.0	15.4	1.5	2.5	0.2	1.1	0.1	33.0	17,439	1.74	47.1	5.9
	51.0	52.0	3647	7174	721	2263	163	28.3	46.7	3.1	9.1	1.0	1.6	0.2	1.0	0.1	22.9	14,082	1.41	23.7	3.7

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	52.0	53.0	5899	10957	1045	3114	213	36.0	63.3	4.9	17.0	1.7	3.0	0.3	1.4	0.2	36.8	21,394	2.14	47.6	4.9
	53.0	54.0	5407	10208	981	2928	205	35.9	61.7	4.9	16.1	1.6	2.5	0.2	1.1	0.1	35.6	19,888	1.99	50.7	4.8
	54.0	55.0	5383	10110	1011	3103	227	40.6	70.5	5.1	16.0	1.6	2.6	0.2	1.1	0.2	35.6	20,008	2.00	53.8	3.7
	55.0	56.0	5876	11215	1110	3394	242	42.3	75.0	5.7	17.0	1.7	2.5	0.3	1.5	0.2	38.1	22,022	2.20	60.2	4.6
	56.0	57.0	4363	8808	911	2893	216	37.2	64.3	4.8	13.1	1.3	1.9	0.2	0.9	0.1	29.2	17,343	1.73	48.9	3.3
	57.0	58.0	4586	8795	859	2578	182	31.6	55.4	3.8	11.7	1.4	2.3	0.2	1.4	0.2	29.2	17,137	1.71	42.5	5.4
	58.0	59.0	178	357	36	115	15	3.8	9.7	1.5	7.5	1.4	3.7	0.4	2.6	0.4	40.6	773	0.08	19.2	4.4
	59.0	60.0	148	300	31	100	14	3.9	9.7	1.4	7.2	1.2	3.3	0.4	2.7	0.4	36.8	659	0.07	22.8	3.4
	60.0	61.0	125	244	25	83	13	3.5	8.5	1.2	5.7	1.3	3.3	0.5	3.3	0.5	35.6	554	0.06	21.8	2.7
	61.0	62.0	366	853	101	352	37	7.4	14.3	1.4	6.7	1.2	3.8	0.5	3.6	0.5	35.6	1,783	0.18	20.2	3.4
	62.0	63.0	1777	4140	463	1691	189	37.3	67.2	5.4	17.2	2.5	5.0	0.6	3.9	0.5	61.0	8,460	0.85	61.6	4.6
	63.0	64.0	1765	4263	477	1738	174	32.9	56.3	4.1	14.9	1.8	4.7	0.4	2.7	0.4	48.3	8,583	0.86	39.3	6
	64.0	65.0	1824	4643	528	1843	165	29.4	50.0	3.5	11.9	1.5	3.1	0.3	2.1	0.3	38.1	9,143	0.91	28.4	7.2
	65.0	66.0	6568	12898	1365	4421	334	54.9	90.0	5.3	16.1	1.8	3.2	0.3	1.4	0.2	38.1	25,797	2.58	53.9	4.9
	66.0	67.0	2768	6081	660	2327	203	37.8	67.0	4.7	14.9	1.9	3.2	0.4	2.3	0.4	43.2	12,214	1.22	39.6	3.4
	67.0	68.0	7600	13451	1293	3837	279	50.1	86.1	6.0	16.6	1.9	3.2	0.3	1.4	0.2	39.4	26,666	2.67	54.1	7.7
	68.0	69.0	2217	5675	690	2578	262	43.9	75.2	4.6	13.9	1.5	3.0	0.3	2.1	0.3	35.6	11,602	1.16	44.3	3.3
	69.0	70.0	2005	4889	553	1948	179	33.0	55.3	3.6	10.6	1.3	2.5	0.3	1.5	0.2	29.2	9,712	0.97	35	3.6
	70.0	71.0	5043	9962	1020	3161	234	40.5	67.2	4.6	12.9	1.5	2.5	0.2	1.3	0.2	30.5	19,582	1.96	46.2	7.3
	71.0	72.0	9547	16522	1534	4549	310	51.0	83.9	4.9	13.5	1.4	2.2	0.2	0.8	0.1	29.2	32,649	3.26	44.7	4.7
	72.0	73.0	11517	20207	1861	5517	383	63.3	103.4	6.2	17.1	1.7	2.6	0.2	1.0	0.2	36.8	39,717	3.97	55.7	3.5
	73.0	74.0	3038	6683	739	2484	204	34.2	54.5	3.4	9.8	1.1	2.1	0.2	1.1	0.1	22.9	13,277	1.33	27.4	4.5
	74.0	75.0	5512	10294	1051	3184	250	42.0	70.2	4.6	12.4	1.4	2.6	0.2	1.4	0.2	33.0	20,460	2.05	38.3	4.5
	75.0	76.0	2580	5712	655	2187	197	32.9	52.4	3.4	9.2	1.0	1.8	0.2	0.7	0.1	21.6	11,454	1.15	29.1	6.3
	76.0	77.0	3460	7493	842	2718	232	39.6	64.8	4.0	11.7	1.3	2.4	0.2	1.3	0.2	27.9	14,898	1.49	43.6	4.9
	77.0	78.0	2475	5479	614	1989	165	27.4	43.8	2.7	7.8	1.0	1.7	0.2	0.9	0.1	19.1	10,826	1.08	24.6	7.6
	78.0	79.0	2439	5356	604	1960	164	27.0	42.0	2.6	7.4	0.8	1.5	0.2	0.8	0.1	16.5	10,621	1.06	21.7	5.6
	79.0	80.0	1724	3943	448	1470	132	22.2	36.5	2.4	6.7	0.9	1.7	0.2	1.3	0.2	19.1	7,808	0.78	20.6	4.1
	80.0	81.0	1841	4336	505	1703	147	23.6	36.8	2.2	6.4	0.8	1.5	0.2	0.9	0.1	17.8	8,623	0.86	17	2
	81.0	82.0	2568	6154	733	2438	207	33.6	52.1	3.3	9.0	1.1	1.8	0.2	0.9	0.2	21.6	12,225	1.22	26.7	1
	82.0	83.0	2035	4410	504	1720	183	35.1	63.6	5.2	19.7	2.8	6.5	0.7	4.3	0.6	77.5	9,068	0.91	47.3	4.5
	83.0	84.0	1789	3759	428	1458	170	34.5	68.6	5.7	22.3	3.2	7.3	0.8	5.2	0.6	91.4	7,843	0.78	57	5.3
	84.0	85.0	2369	5172	591	2006	201	36.1	63.6	4.8	17.2	2.2	4.8	0.5	2.7	0.3	58.4	10,530	1.05	53.7	5
	85.0	86.0	2955	6768	783	2578	225	37.2	58.2	3.7	9.8	1.1	1.7	0.2	0.8	0.1	21.6	13,444	1.34	33.5	6.5
	86.0	87.0	2105	4778	564	1960	204	37.4	65.6	5.1	18.4	2.5	5.4	0.6	3.3	0.5	67.3	9,818	0.98	43.7	5
	87.0	88.0	3436	8329	1010	3476	322	54.0	88.3	6.0	18.1	1.7	2.5	0.2	0.9	0.2	36.8	16,782	1.68	64.2	2.1
	88.0	89.0	1859	4201	497	1738	195	38.2	69.7	5.9	20.4	2.8	5.6	0.7	3.8	0.4	72.4	8,710	0.87	53.5	5.5
	89.0	90.0	1824	4201	505	1779	184	32.1	56.3	3.9	12.4	1.6	3.2	0.3	2.3	0.3	38.1	8,643	0.86	40.9	6
	90.0	91.0	2322	4889	557	1872	194	36.7	67.1	5.5	19.7	2.8	6.1	0.7	4.2	0.6	78.7	10,056	1.01	69.5	6.7
	91.0	92.0	2615	5933	695	2356	220	38.0	63.9	4.2	12.4	1.4	2.4	0.3	1.4	0.2	33.0	11,977	1.20	43.4	7.1
	92.0	93.0	1988	4594	546	1930	216	41.0	74.2	5.7	20.3	2.7	5.7	0.7	3.8	0.5	73.7	9,503	0.95	49.5	6.5
	93.0	94.0	2047	4631	547	1901	208	39.1	75.3	6.4	22.5	3.1	7.2	0.7	4.9	0.6	85.1	9,579	0.96	50.8	4.5
	94.0	95.0	4797	10147	1142	3744	353	60.4	101.0	6.4	17.1	1.9	3.1	0.3	1.6	0.3	44.5	20,418	2.04	61.1	4.4



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	95.0	96.0	5125	8685	835	2473	212	39.4	70.4	5.5	18.7	2.5	5.3	0.6	3.2	0.3	64.8	17,540	1.75	47.6	4.3
	96.0	97.0	9465	15232	1498	3931	283	48.4	79.5	5.7	18.1	2.0	3.2	0.3	1.4	0.2	43.2	30,611	3.06	55.5	5.3
	97.0	98.0	1865	3955	455	1592	186	37.8	75.8	6.6	23.4	3.3	6.9	0.7	4.6	0.6	91.4	8,305	0.83	53.2	4.8
	98.0	99.0	2252	4914	562	1855	165	27.2	45.2	3.1	9.1	1.1	1.9	0.2	1.3	0.2	24.1	9,860	0.99	27.5	7.5
	99.0	100.0	2733	6081	692	2269	205	36.9	63.3	4.6	15.4	2.0	4.1	0.5	3.1	0.4	53.3	12,162	1.22	42.1	4.5
	100.0	101.0	2217	5024	585	1995	206	38.3	73.5	6.3	25.0	3.5	7.3	0.9	5.2	0.7	96.5	10,284	1.03	52.6	6.9
	101.0	102.0	1847	4152	493	1715	188	36.2	67.2	5.5	20.2	2.8	6.6	0.8	4.1	0.5	81.3	8,620	0.86	47.3	6.5
	102.0	103.0	3026	7198	870	2939	274	46.9	78.0	5.1	14.8	1.7	2.9	0.3	1.5	0.2	39.4	14,498	1.45	51.6	5
	103.0	104.0	1718	3783	435	1510	168	32.4	63.7	5.2	19.3	2.7	6.0	0.6	3.2	0.5	72.4	7,821	0.78	40.7	7.5
	104.0	105.0	1489	3354	394	1365	163	33.5	65.9	5.4	22.3	3.1	6.9	0.7	4.7	0.6	82.5	6,990	0.70	44.7	6.3
	105.0	106.0	2463	4901	552	1779	171	34.4	67.0	5.5	23.4	3.4	7.7	0.8	4.6	0.6	88.9	10,102	1.01	39	8.8
	106.0	107.0	2029	4115	478	1575	171	34.3	67.9	5.5	21.6	2.7	6.2	0.6	3.3	0.4	71.1	8,582	0.86	40.9	7.9
	107.0	108.0	1818	3661	413	1406	170	36.9	78.3	7.2	31.3	4.5	9.7	1.1	6.0	0.8	120.6	7,764	0.78	58.3	8.8
	108.0	109.0	1824	4238	522	1802	177	32.8	56.8	3.6	13.5	1.5	3.2	0.3	1.6	0.3	40.6	8,717	0.87	30.9	6.9
	109.0	110.0	2269	4778	569	1895	195	35.0	60.6	3.7	11.9	1.4	2.6	0.3	1.6	0.2	31.8	9,856	0.99	36.5	3.8
	110.0	111.0	3601	7383	710	2391	209	38.4	68.2	5.9	20.0	2.6	5.5	0.6	3.5	0.5	67.3	14,506	1.45	47.2	8
	111.0	112.0	3049	6044	582	1971	194	38.0	75.3	7.1	29.5	4.9	9.3	1.2	6.5	0.9	128.3	12,142	1.21	52.3	8.7
	112.0	113.0	8350	13512	1323	3674	259	43.9	72.4	4.9	15.8	1.9	3.4	0.3	1.9	0.2	43.2	27,306	2.73	43.4	5.3
	113.0	114.0	4163	7530	796	2368	194	33.2	56.5	4.0	14.0	1.7	3.4	0.4	2.3	0.3	43.2	15,211	1.52	35.6	4.6
	114.0	115.0	5817	9594	938	2671	195	33.6	58.0	4.1	14.0	1.5	2.7	0.3	1.5	0.2	38.1	19,368	1.94	37.3	4.9
	115.0	116.0	6685	10785	1045	2928	223	39.8	70.8	5.2	18.4	2.3	4.8	0.5	2.3	0.3	61.0	21,871	2.19	41.7	4.7
	116.0	117.0	3601	7358	855	2811	274	49.7	91.1	6.6	24.1	3.0	6.6	0.7	4.1	0.5	82.5	15,168	1.52	59.7	6
	117.0	118.0	3718	6744	730	2280	210	37.2	66.2	4.9	17.6	2.3	4.7	0.5	3.0	0.4	61.0	13,880	1.39	47.7	4.1
	118.0	119.0	4539	8722	965	2974	235	38.4	62.8	3.8	10.9	1.1	1.9	0.2	1.0	0.1	25.4	17,581	1.76	35.7	4
	119.0	120.0	5876	10503	1085	3219	259	43.4	74.5	4.8	14.9	1.7	2.7	0.3	1.4	0.2	38.1	21,123	2.11	44.3	4.4
	120.0	121.0	5559	9520	977	2881	234	40.4	71.1	4.8	16.1	1.8	3.5	0.3	1.9	0.3	43.2	19,355	1.94	44	4.7
	121.0	122.0	9230	16276	1770	5039	405	70.4	117.0	7.2	22.0	2.1	3.3	0.3	1.4	0.2	48.3	32,992	3.30	66.8	2.3
	122.0	123.0	6638	11510	1196	3558	292	50.3	84.5	5.2	16.3	1.8	3.2	0.3	1.5	0.2	43.2	23,400	2.34	49.6	4.8
	123.0	124.0	5876	11228	1244	3907	318	51.4	85.8	5.0	15.2	1.5	2.6	0.2	1.0	0.2	33.0	22,769	2.28	47	3.3
	124.0	125.0	5794	10515	1124	3453	292	50.5	85.5	5.6	18.8	2.0	3.5	0.3	1.8	0.3	45.7	21,391	2.14	52.5	4.4
	125.0	126.0	8526	15478	1498	4841	351	57.9	94.3	6.9	18.3	1.8	2.9	0.2	1.6	0.2	39.4	30,918	3.09	64.9	3.4
	126.0	127.0	3155	7100	736	2543	220	36.4	61.0	4.4	11.6	1.4	1.8	0.2	1.4	0.2	27.9	13,900	1.39	38.3	5.6
	127.0	128.0	6216	12235	1220	4047	305	52.1	83.8	5.3	15.2	1.5	2.4	0.3	1.4	0.1	38.1	24,223	2.42	52.3	3.7
	128.0	129.0	6685	12775	1269	4152	324	54.3	89.7	6.7	17.2	2.1	4.2	0.5	2.4	0.3	52.1	25,434	2.54	56.3	4.3
	129.0	130.0	3260	6474	625	2146	194	34.5	68.2	5.9	22.0	3.0	6.8	0.7	4.3	0.5	80.0	12,925	1.29	47.6	5.3
	130.0	131.0	7166	12001	1200	3441	264	47.0	81.3	5.4	19.2	2.2	4.4	0.4	2.3	0.2	54.6	24,289	2.43	53.5	4.9
	131.0	132.0	14601	23401	2362	6392	460	75.4	124.5	7.9	23.2	2.4	3.4	0.3	1.6	0.2	49.5	47,505	4.75	69	2.9
	132.0	133.0	9418	15355	1565	4339	329	57.8	99.5	6.4	21.4	2.2	3.9	0.3	1.6	0.2	48.3	31,247	3.12	57.9	5.1
	133.0	134.0	9793	15232	1480	4222	306	50.8	87.9	6.3	21.7	2.6	5.3	0.5	2.6	0.3	63.5	31,275	3.13	45.5	4.6
	134.0	135.0	5758	9471	981	2893	209	37.1	63.9	4.4	15.6	1.8	3.4	0.4	1.8	0.3	43.2	19,484	1.95	31.8	5.2
	135.0	136.0	3471	6179	680	2181	208	39.5	76.7	5.9	23.4	2.9	6.3	0.7	3.8	0.5	76.2	12,956	1.30	45	7
	136.0	137.0	9300	14065	1420	3861	290	51.4	88.8	6.3	21.2	2.5	4.9	0.5	2.5	0.4	57.2	29,171	2.92	49.3	7.5
	137.0	138.0	20055	29113	2803	7243	427	69.5	115.8	7.5	23.6	2.4	4.2	0.3	1.8	0.3	57.2	59,924	5.99	56.1	3

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	138.0	139.0	12901	19102	1885	4876	317	54.1	96.5	7.0	25.1	2.9	5.5	0.6	3.3	0.4	74.9	39,350	3.93	46.8	4.2
	139.0	140.0	19938	29359	2888	7593	462	75.7	123.3	7.6	22.3	2.3	4.1	0.3	1.9	0.2	53.3	60,530	6.05	62.6	3.6
	140.0	141.0	2826	5417	623	2030	184	33.8	62.5	4.8	17.9	2.3	5.2	0.6	3.1	0.4	62.2	11,273	1.13	32	4.4
	141.0	142.0	8561	13390	1311	3721	257	42.3	72.6	5.0	16.5	1.8	3.5	0.3	1.7	0.2	41.9	27,426	2.74	41.1	3
	142.0	143.0	15364	22910	2271	5867	388	62.9	103.7	7.0	21.1	2.4	3.9	0.3	2.1	0.3	53.3	47,057	4.71	56	2.7
	143.0	144.0	3835	6498	689	2123	187	33.2	63.7	5.3	20.4	2.7	6.5	0.7	4.0	0.6	72.4	13,541	1.35	38.1	5
	144.0	145.0	5008	8292	875	2706	234	40.9	74.2	5.3	18.6	2.3	4.8	0.5	2.5	0.3	55.9	17,320	1.73	43.9	4.4
	145.0	146.0	5465	9311	974	2928	239	40.9	71.4	5.1	17.6	2.0	3.9	0.4	2.2	0.3	49.5	19,110	1.91	42.2	3.7
	146.0	147.0	6556	11080	1160	3441	260	41.9	70.5	4.6	14.5	1.5	2.7	0.3	1.5	0.2	34.3	22,669	2.27	40	4
	147.0	148.0	4562	7800	822	2496	214	37.8	68.5	5.1	18.1	2.2	4.4	0.5	2.5	0.3	52.1	16,085	1.61	41.6	4
	148.0	149.0	6263	10503	1098	3266	268	47.1	87.7	6.5	24.1	2.9	6.2	0.6	3.9	0.6	76.2	21,653	2.17	50.1	4.2
	149.0	150.0	9019	14495	1492	4176	296	50.1	81.5	5.3	17.5	1.9	3.2	0.3	1.5	0.2	43.2	29,682	2.97	45.5	2.1
	150.0	151.0	6333	10319	1057	3114	248	43.2	79.5	5.7	19.5	2.4	4.9	0.5	2.6	0.4	58.4	21,288	2.13	48.8	5.3
	151.0	152.0	3882	6805	747	2344	215	39.5	75.3	6.0	23.3	3.1	7.1	0.8	4.6	0.6	83.8	14,237	1.42	48.6	6.1
	152.0	153.0	8303	14741	1704	5027	436	74.7	127.9	8.4	26.2	3.0	5.7	0.5	3.0	0.4	68.6	30,529	3.05	75.1	4
	153.0	154.0	12197	20821	2290	6462	482	79.3	136.6	8.8	26.6	2.8	4.5	0.4	1.7	0.3	58.4	42,572	4.26	77.2	3.4
	154.0	155.0	10508	18180	2006	5599	404	68.3	115.8	8.0	24.7	2.6	4.4	0.4	1.7	0.2	55.9	36,978	3.70	68.9	3.8
	155.0	156.0	8597	18057	2320	7605	682	111.6	176.9	10.1	27.2	2.5	3.9	0.3	1.7	0.2	50.8	37,646	3.76	105	3.8
	156.0	157.0	4586	9066	1056	3429	279	46.7	74.6	4.7	14.2	1.6	3.2	0.3	1.7	0.3	35.6	18,599	1.86	37.7	4.3
	157.0	158.0	7940	13021	1329	3872	298	52.9	93.0	7.3	25.8	3.1	6.0	0.6	3.4	0.5	76.2	26,729	2.67	58.6	4.2
	158.0	159.0	6005	11117	1200	3686	279	47.6	79.5	5.1	15.3	1.7	2.7	0.3	1.5	0.2	35.6	22,476	2.25	42.4	3.3
	159.0	160.0	5289	9274	998	3044	240	42.3	73.1	5.1	15.7	1.7	3.4	0.3	1.5	0.2	41.9	19,031	1.90	41.4	3.4
	160.0	161.0	6063	10527	1127	3429	277	47.5	83.1	5.8	18.4	2.1	3.8	0.4	2.5	0.3	48.3	21,637	2.16	46.7	3.3
	161.0	162.0	5454	9483	1002	2998	226	37.4	64.4	4.5	14.7	1.5	2.6	0.3	1.4	0.2	33.0	19,322	1.93	36.7	2.8
	162.0	163.0	5278	9360	1000	3056	250	42.6	78.6	5.6	20.7	2.5	5.6	0.5	3.4	0.4	67.3	19,172	1.92	46.8	3.8
	163.0	164.0	5993	11191	1214	3744	285	46.7	81.3	6.0	18.6	1.9	3.0	0.3	1.6	0.2	40.6	22,627	2.26	54	2.8
	164.0	165.0	4902	9422	1033	3254	259	41.2	73.2	5.3	17.8	2.0	3.7	0.4	2.1	0.2	47.0	19,063	1.91	49.7	2.8
	165.0	166.0	3589	6818	759	2449	213	36.8	67.7	5.3	18.6	2.3	4.8	0.6	3.1	0.4	61.0	14,028	1.40	43.7	3.7
	166.0	167.0	4257	8034	882	2799	225	38.4	65.5	4.8	15.6	1.8	3.7	0.4	1.9	0.2	44.5	16,374	1.64	40.2	3.3
	167.0	168.0	10567	18119	1975	5610	412	65.8	106.7	7.3	19.9	1.9	3.2	0.3	1.3	0.1	40.6	36,930	3.69	62.4	2.6
<b>KGKRC020</b>	0.0	1.0	6110	12038	1353	4339	359	59.4	105.6	8.2	25.5	2.5	4.1	0.3	1.6	0.2	61.0	24,469	2.45	80.8	8.5
	1.0	2.0	4246	7997	878	2729	219	36.9	62.0	4.9	16.5	1.7	3.0	0.3	1.4	0.2	44.5	16,241	1.62	49.8	7
	2.0	3.0	8550	16952	2072	6299	518	84.4	144.1	9.7	25.3	2.4	3.5	0.3	1.1	0.1	50.8	34,712	3.47	97	4.9
	3.0	4.0	8245	17750	2217	6870	544	86.3	139.5	9.2	25.8	2.4	3.5	0.3	1.5	0.2	49.5	35,944	3.59	93.6	3.2
	4.0	5.0	9500	17996	2102	6030	448	73.5	126.2	9.2	26.5	2.5	3.9	0.3	1.5	0.2	50.8	36,371	3.64	97.5	4.5
	5.0	6.0	4808	9754	1114	3558	285	47.2	80.3	5.7	18.8	2.0	3.7	0.4	1.7	0.2	45.7	19,725	1.97	55.7	7.8
	6.0	7.0	5911	11768	1317	4152	325	52.3	92.6	7.0	21.6	2.0	3.0	0.3	1.3	0.2	41.9	23,695	2.37	78.8	4.7
	7.0	8.0	4832	9520	1064	3383	255	40.4	74.0	5.5	17.8	1.7	2.4	0.2	1.1	0.1	36.8	19,234	1.92	61.9	7.3
	8.0	9.0	4808	9004	962	2916	205	32.0	55.0	4.1	12.4	1.3	2.4	0.2	1.5	0.2	31.8	18,036	1.80	34.8	7.9
	9.0	10.0	12138	19654	2054	5517	349	54.7	86.9	6.6	20.9	2.0	3.2	0.2	1.3	0.2	45.7	39,935	3.99	42.9	3
	10.0	11.0	12901	22725	2489	7057	529	82.6	138.3	9.2	27.7	2.8	4.4	0.3	1.7	0.2	62.2	46,030	4.60	92.2	2.1
	11.0	12.0	7260	14495	1746	5074	400	64.2	107.9	7.3	20.2	2.0	2.9	0.3	1.5	0.2	43.2	29,224	2.92	74.2	4.3

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	12.0	13.0	10895	21128	2428	7138	544	90.9	156.2	10.4	27.8	2.6	4.1	0.3	1.4	0.2	53.3	42,482	4.25	115.5	2.4
	13.0	14.0	10508	20084	2296	6707	506	82.2	138.3	9.4	26.5	2.5	3.7	0.3	1.3	0.1	50.8	40,416	4.04	98	1.5
	14.0	15.0	7201	13574	1595	4619	349	54.1	93.6	6.5	18.9	1.9	3.1	0.3	1.3	0.2	41.9	27,559	2.76	68.8	8.4
	15.0	16.0	4386	8488	928	2893	225	36.7	64.7	4.6	13.9	1.5	3.0	0.3	1.5	0.2	36.8	17,083	1.71	47.4	7.7
	16.0	17.0	6767	13635	1540	4887	380	59.6	97.4	6.1	18.0	1.9	3.2	0.2	1.5	0.2	39.4	27,438	2.74	56.2	6.7
	17.0	18.0	2234	4533	516	1715	154	26.4	49.6	4.1	13.9	1.7	3.5	0.4	2.3	0.3	44.5	9,298	0.93	30.8	10.5
	18.0	19.0	4105	7862	863	2694	212	35.3	65.9	5.3	19.7	2.8	6.2	0.7	3.8	0.5	73.7	15,949	1.59	34.6	6.5
	19.0	20.0	6403	12837	1438	4537	332	49.3	79.0	4.8	13.1	1.3	2.1	0.2	0.9	0.1	27.9	25,726	2.57	42.5	5.7
	20.0	21.0	4070	8415	973	3103	239	37.2	61.1	4.2	11.6	1.3	2.2	0.2	1.0	0.1	26.7	16,944	1.69	38	8.8
	21.0	22.0	5395	10429	1131	3453	255	41.0	69.3	5.0	15.4	1.5	2.5	0.2	1.1	0.1	33.0	20,832	2.08	54.4	10.1
	22.0	23.0	6486	12837	1426	4432	337	53.7	93.1	6.9	23.4	2.5	4.6	0.5	3.0	0.3	62.2	25,768	2.58	67.1	3.3
	23.0	24.0	10649	20391	2374	6847	513	80.8	137.2	9.4	27.8	2.8	5.2	0.4	2.2	0.3	62.2	41,102	4.11	101.5	5.7
	24.0	25.0	12080	25182	2586	8048	624	100.7	161.4	10.5	33.6	3.9	6.3	0.7	3.5	0.5	92.7	48,934	4.89	107	9.7
	25.0	26.0	10473	21804	2229	6870	509	80.8	133.1	8.6	26.5	2.8	4.6	0.4	2.2	0.3	66.0	42,211	4.22	103	6.9
	26.0	27.0	8292	16031	1661	4922	364	62.0	104.4	7.8	23.8	2.6	4.8	0.4	2.5	0.3	58.4	31,537	3.15	76.4	20
	27.0	28.0	19468	39554	4374	13239	874	141.8	227.1	14.9	41.6	4.1	6.9	0.5	3.2	0.4	85.1	78,035	7.80	160	15
	28.0	29.0	27092	51716	5497	16155	988	153.4	235.1	15.1	38.7	3.8	5.7	0.5	2.5	0.3	78.7	101,981	10.20	127.5	6.7
	29.0	30.0	11435	21866	2344	6404	436	67.6	113.0	8.0	21.5	2.1	3.3	0.3	1.6	0.2	45.7	42,747	4.27	72.9	6.5
	30.0	31.0	10192	19286	2054	5529	353	53.5	85.2	6.0	16.8	1.7	2.7	0.3	1.4	0.2	39.4	37,620	3.76	45.4	5.2
	31.0	32.0	8960	17013	1667	4864	321	51.4	82.4	6.3	16.3	1.7	2.5	0.2	1.3	0.1	35.6	33,024	3.30	61.9	7.5
	32.0	33.0	5665	10798	1070	3149	207	30.8	49.1	3.6	10.2	1.2	2.2	0.2	1.4	0.2	29.2	21,017	2.10	27	7.2
	33.0	34.0	9394	17873	1879	5342	366	55.5	88.2	5.5	14.5	1.4	2.3	0.2	0.8	0.1	29.2	35,052	3.51	44.1	8.3
	34.0	35.0	6626	12837	1287	3861	271	43.3	68.4	4.6	12.6	1.2	2.1	0.2	1.1	0.2	26.7	25,042	2.50	33.6	3.2
	35.0	36.0	6497	11965	1183	3464	249	40.9	66.7	4.4	11.1	1.2	1.9	0.2	1.0	0.1	25.4	23,511	2.35	42.6	7.5
	36.0	37.0	8479	16153	1625	4747	297	45.0	72.8	5.2	14.9	1.4	2.3	0.2	1.1	0.2	33.0	31,478	3.15	50.3	4.9
	37.0	38.0	11845	21927	2326	6170	401	61.5	98.7	6.9	18.4	1.8	2.9	0.3	1.1	0.2	38.1	42,899	4.29	54.3	2.5
	38.0	39.0	12842	24261	2586	7057	466	73.3	115.8	7.5	19.1	1.8	2.7	0.2	1.1	0.1	36.8	47,470	4.75	60	3.4
	39.0	40.0	13722	25551	2658	6882	413	63.1	99.2	6.6	17.9	1.7	3.0	0.2	1.5	0.2	38.1	49,457	4.95	52	4.1
	40.0	41.0	10215	18733	1897	4957	306	49.0	85.0	6.5	19.7	2.2	3.2	0.3	1.8	0.2	47.0	36,323	3.63	68.4	6.2
	41.0	42.0	11728	22418	2277	5949	322	49.4	82.5	6.7	20.9	2.0	3.0	0.3	1.1	0.2	47.0	42,908	4.29	78.7	1.9
	42.0	43.0	24160	39800	3745	9588	479	75.6	127.9	11.4	35.7	3.6	5.5	0.4	2.1	0.2	83.8	78,118	7.81	112	2.3
	43.0	44.0	26505	44591	4253	11536	617	97.7	166.0	12.3	36.5	3.7	5.5	0.5	2.6	0.3	90.2	87,917	8.79	130	3.1
	44.0	45.0	10696	19470	1994	5167	315	50.3	83.2	6.2	16.3	1.7	2.9	0.3	1.4	0.2	39.4	37,844	3.78	62.2	5.5
	45.0	46.0	6626	13881	1480	4666	356	58.4	99.2	7.6	25.8	3.0	6.2	0.6	3.5	0.5	81.3	27,295	2.73	77	7
	46.0	47.0	6134	12960	1383	4327	329	54.5	93.9	7.9	24.8	2.9	5.6	0.6	3.5	0.4	82.5	25,410	2.54	74.3	7
	47.0	48.0	7529	14434	1438	4246	286	44.6	75.7	6.1	20.2	2.3	4.0	0.4	2.4	0.3	58.4	28,147	2.81	60.2	8.9
	48.0	49.0	8714	17628	1824	5657	423	66.1	104.7	6.8	18.5	1.8	3.4	0.3	1.6	0.2	44.5	34,494	3.45	73.8	13.5
	49.0	50.0	8737	19040	2223	6590	507	81.1	140.6	10.7	33.4	3.5	5.8	0.5	2.9	0.3	91.4	37,468	3.75	112.5	2.3
	50.0	51.0	12842	23401	2410	6217	366	53.7	86.0	6.2	17.9	1.9	3.2	0.3	1.4	0.2	41.9	45,449	4.54	56.4	8.3
	51.0	52.0	8620	16276	1571	4561	282	43.8	70.8	5.0	14.7	1.5	2.7	0.2	1.4	0.2	35.6	31,485	3.15	48.7	14.2
	52.0	53.0	5278	9839	962	2811	184	28.7	52.0	4.3	12.7	1.3	1.9	0.2	1.1	0.2	29.2	19,206	1.92	53.2	5.2
	53.0	54.0	5067	9508	917	2636	168	27.3	47.3	3.4	11.1	1.1	1.9	0.2	0.9	0.2	26.7	18,415	1.84	34.1	9.4
	54.0	55.0	7189	13512	1329	3861	242	38.4	59.8	4.5	13.1	1.3	2.1	0.2	0.9	0.1	26.7	26,281	2.63	46.9	7.9

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	55.0	56.0	7541	14004	1371	3942	250	38.4	64.8	4.7	13.3	1.3	2.1	0.2	0.8	0.1	29.2	27,264	2.73	48.4	8.5
	56.0	57.0	7025	13267	1432	4397	303	48.5	81.8	5.9	15.6	1.6	2.3	0.3	1.0	0.2	33.0	26,614	2.66	56.6	7.7
	57.0	58.0	6110	10712	1109	3208	208	32.2	50.7	3.6	10.4	1.1	1.8	0.2	1.3	0.2	25.4	21,473	2.15	32.4	11.6
	58.0	59.0	9101	16706	1758	5167	332	51.8	83.7	6.0	17.5	1.8	3.1	0.3	1.4	0.2	40.6	33,270	3.33	55.3	13.2
	59.0	60.0	11001	20699	2404	6567	406	64.2	106.0	7.2	19.5	2.0	3.3	0.3	1.4	0.2	43.2	41,324	4.13	66.3	7.1
	60.0	61.0	8315	15355	1631	4817	308	48.3	85.1	6.7	17.2	1.7	2.5	0.2	1.1	0.2	35.6	30,625	3.06	69.5	6.3
	61.0	62.0	6579	11817	1244	3686	237	37.6	65.5	5.1	13.5	1.3	1.8	0.2	0.8	0.1	24.1	23,713	2.37	63.8	3.7
	62.0	63.0	7553	14004	1468	4327	262	42.3	73.9	6.0	17.7	1.6	2.7	0.2	1.3	0.1	36.8	27,797	2.78	64.4	3.5
	63.0	64.0	6861	12653	1335	3966	256	38.7	64.4	4.8	13.8	1.4	2.4	0.2	0.8	0.1	29.2	25,226	2.52	54.1	3.2
	64.0	65.0	6521	11682	1208	3511	218	33.6	55.8	4.1	12.1	1.3	2.3	0.2	0.9	0.1	27.9	23,278	2.33	40.8	2.6
	65.0	66.0	5442	10024	1050	3103	194	28.8	45.5	3.5	10.2	1.0	1.8	0.2	0.9	0.1	24.1	19,929	1.99	27.6	6.2
	66.0	67.0	7881	14679	1547	4619	300	45.6	75.2	5.6	14.8	1.5	2.5	0.2	1.0	0.1	31.8	29,205	2.92	47.5	5
	67.0	68.0	4152	7506	789	2304	147	23.9	40.9	3.6	12.1	1.2	1.9	0.2	0.9	0.1	26.7	15,008	1.50	36.6	5.8
	68.0	69.0	6638	12161	1299	3826	254	40.0	68.8	5.6	15.6	1.5	1.8	0.2	0.8	0.1	31.8	24,344	2.43	65.2	5.2
	69.0	70.0	7095	12775	1335	3884	239	36.7	58.3	4.3	10.9	1.2	1.8	0.2	0.8	0.1	25.4	25,469	2.55	36.5	5.7
	70.0	71.0	6016	11006	1149	3383	209	33.5	58.6	4.7	14.0	1.4	2.1	0.2	1.1	0.2	31.8	21,911	2.19	53	3.1
	71.0	72.0	8022	15294	1661	5027	328	49.9	83.6	5.9	17.2	1.8	3.1	0.2	1.5	0.2	40.6	30,536	3.05	59.1	1.1
	72.0	73.0	6556	13512	1335	4047	266	40.2	59.2	3.8	10.6	1.2	1.6	0.2	0.9	0.2	25.4	25,860	2.59	33.1	4.4
	73.0	74.0	4703	9692	959	2893	188	28.1	44.3	3.3	10.1	1.1	1.7	0.3	1.1	0.3	25.4	18,551	1.86	34.6	6.6
	74.0	75.0	3976	8193	819	2461	166	24.4	37.8	2.8	9.2	1.0	1.7	0.2	0.9	0.1	22.9	15,717	1.57	26.1	7
	75.0	76.0	8397	16583	2000	5809	428	69.0	113.9	8.1	22.4	2.3	4.2	0.4	1.8	0.3	57.2	33,496	3.35	83.7	3.8
	76.0	77.0	8726	15294	1577	4631	290	45.3	73.0	5.3	15.6	1.6	2.9	0.3	1.4	0.2	38.1	30,700	3.07	46.5	5
	77.0	78.0	4973	9287	994	3009	206	33.7	58.8	5.3	17.9	2.2	3.9	0.4	2.2	0.3	52.1	18,646	1.86	44.7	7.4
	78.0	79.0	6732	12345	1317	3919	253	38.9	62.9	4.4	12.3	1.3	2.9	0.3	1.7	0.3	36.8	24,728	2.47	36.9	3.9
	79.0	80.0	6978	12591	1335	3872	239	36.2	56.1	3.8	10.2	1.2	2.3	0.2	1.3	0.2	27.9	25,155	2.52	28.2	5.3
	80.0	81.0	5149	9336	979	2916	187	28.1	47.6	3.6	11.1	1.2	1.8	0.2	1.1	0.1	25.4	18,686	1.87	32.9	9.8
	81.0	82.0	7975	14372	1522	4444	288	44.9	75.2	5.8	16.3	1.7	2.7	0.3	1.7	0.2	40.6	28,791	2.88	54.6	4.5
	82.0	83.0	7694	13574	1402	4106	257	40.1	67.8	5.4	15.2	1.5	2.6	0.2	1.4	0.2	36.8	27,203	2.72	49.5	3.5
	83.0	84.0	9019	16031	1734	4957	306	49.0	79.0	5.6	16.0	1.7	3.2	0.3	1.7	0.2	41.9	32,245	3.22	51.2	4.1
	84.0	85.0	8092	14741	1583	4794	334	54.1	89.1	6.4	16.8	1.9	3.1	0.3	1.8	0.3	47.0	29,764	2.98	55.4	3.9
	85.0	86.0	6650	14127	1691	5587	463	76.5	125.1	8.2	21.6	2.2	3.7	0.3	1.9	0.3	52.1	28,809	2.88	88.8	3.1
	86.0	87.0	12549	27762	3250	10439	787	128.0	205.2	14.0	39.4	3.9	6.6	0.7	3.4	0.4	105.4	55,295	5.53	168	3.5
	87.0	88.0	7330	14127	1383	4071	271	41.1	67.2	4.7	13.8	1.3	2.3	0.2	0.9	0.1	30.5	27,344	2.73	55.9	4.4
	88.0	89.0	5958	11154	1087	3184	219	33.8	56.6	4.4	13.4	1.3	1.9	0.2	0.9	0.1	27.9	21,742	2.17	44.6	5.1
	89.0	90.0	7881	14741	1420	4199	279	41.3	65.5	4.6	12.9	1.3	2.1	0.2	1.0	0.1	31.8	28,681	2.87	37.6	4.6
	90.0	91.0	4855	8955	869	2566	173	26.8	40.7	2.7	8.5	0.8	1.6	0.2	0.8	0.1	20.3	17,521	1.75	25.3	8.4
	91.0	92.0	5055	9483	977	2998	201	33.4	61.3	4.8	15.8	1.5	2.4	0.2	0.9	0.2	35.6	18,870	1.89	64.8	3.2
	92.0	93.0	7318	14127	1486	4607	315	48.6	81.3	5.6	17.0	1.7	2.9	0.3	1.3	0.2	41.9	28,054	2.81	74.8	4.9
	93.0	94.0	9359	17750	1830	5482	359	56.0	96.6	7.3	24.6	2.6	4.4	0.4	2.1	0.2	69.8	35,045	3.50	81.8	8.5
	94.0	95.0	6791	12591	1226	3697	263	41.8	68.7	4.7	14.2	1.4	2.3	0.2	1.4	0.2	35.6	24,739	2.47	52.7	6.9
	95.0	96.0	10497	19532	2036	5564	386	60.2	105.7	8.0	25.6	2.5	4.7	0.5	2.5	0.3	71.1	38,295	3.83	95.8	8.5
	96.0	97.0	16712	30219	3190	9110	573	94.0	155.6	12.2	42.1	4.6	8.6	0.8	4.1	0.6	135.9	60,262	6.03	141.5	3.6
	97.0	98.0	13370	24077	2416	6334	423	70.5	121.6	10.4	38.8	4.6	10.0	1.0	5.6	0.7	148.6	47,032	4.70	116.5	2.1

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	98.0	99.0	13194	24691	2537	6695	438	69.8	118.1	9.4	31.0	3.5	6.9	0.7	4.3	0.4	107.9	47,908	4.79	101.5	4
	99.0	100.0	6802	12026	1136	3254	224	36.9	65.2	5.6	20.7	2.4	5.3	0.6	4.1	0.5	80.0	23,664	2.37	56.5	9.2
	100.0	101.0	19703	34272	3468	9763	602	93.6	151.6	11.2	39.4	5.1	10.9	1.3	8.1	1.0	168.9	68,298	6.83	103	3.4
	101.0	102.0	13077	22357	2181	5564	371	62.0	114.5	9.9	38.3	4.6	9.4	1.0	6.3	0.7	146.0	43,942	4.39	105	2.8
	102.0	103.0	10590	20330	2169	5879	405	61.7	99.8	7.9	28.8	3.5	7.0	0.8	4.3	0.6	114.3	39,701	3.97	76.3	4.2
	103.0	104.0	6533	11608	1078	3033	199	32.4	58.6	5.5	19.1	2.0	3.4	0.4	1.9	0.3	54.6	22,628	2.26	64.8	3.3
	104.0	105.0	12666	23770	2441	6380	405	64.6	111.2	9.0	29.5	3.1	5.8	0.5	3.0	0.4	83.8	45,972	4.60	106	6.1
	105.0	106.0	13780	25428	2561	6567	394	61.3	99.8	7.1	21.1	2.3	4.2	0.3	2.1	0.2	61.0	48,990	4.90	66.5	3.4
	106.0	107.0	7213	13512	1311	3837	259	41.9	70.0	5.4	17.0	1.8	3.3	0.3	2.2	0.3	47.0	26,321	2.63	52.8	6
	107.0	108.0	8597	16461	1625	4817	328	51.1	81.1	5.8	17.2	1.7	3.1	0.3	1.8	0.3	40.6	32,031	3.20	53.7	6.1
	108.0	109.0	6873	12284	1156	3324	217	32.8	53.7	3.7	11.5	1.2	2.5	0.3	1.5	0.2	30.5	23,992	2.40	39.6	16.2
	109.0	110.0	8128	14249	1311	3686	248	41.7	76.9	7.5	25.7	3.1	6.8	0.6	3.6	0.5	97.8	27,886	2.79	86.3	9
	110.0	111.0	7952	14925	1432	4234	297	49.6	86.1	6.0	18.4	2.0	3.5	0.4	2.1	0.3	53.3	29,061	2.91	74.9	4.2
	111.0	112.0	5371	10257	1008	2998	220	36.1	62.1	4.5	13.5	1.6	2.5	0.3	1.3	0.2	38.1	20,014	2.00	64	10.6
	112.0	113.0	8620	16768	1679	5062	398	65.3	110.0	8.0	25.8	2.9	5.7	0.5	3.0	0.3	83.8	32,832	3.28	87.5	6.4
	113.0	114.0	7963	14434	1365	3861	249	41.9	71.8	6.8	26.5	3.0	6.3	0.7	3.4	0.4	88.9	28,122	2.81	81.5	9.1
	114.0	115.0	7342	13697	1329	3779	245	35.8	57.4	3.8	11.7	1.4	3.0	0.3	1.9	0.3	39.4	26,546	2.65	37.1	14.8
	115.0	116.0	10098	18795	1915	5109	325	49.2	78.8	6.2	20.0	2.1	4.6	0.5	2.3	0.3	58.4	36,463	3.65	63	8.6
	116.0	117.0	6181	11670	1126	3453	226	37.8	68.4	5.9	20.1	2.2	3.9	0.4	2.2	0.3	61.0	22,857	2.29	78.1	6.2
	117.0	118.0	9816	17566	1752	5062	325	52.1	85.4	6.7	24.7	3.0	6.2	0.6	3.0	0.4	94.0	34,797	3.48	70.7	11.8
	118.0	119.0	6427	11731	1104	3313	216	35.1	58.3	4.6	16.3	2.0	3.9	0.4	2.1	0.3	58.4	22,972	2.30	49	7.5
	119.0	120.0	5758	11522	1168	3639	237	37.4	59.1	4.1	11.7	1.3	2.3	0.2	1.4	0.1	31.8	22,474	2.25	35.6	7.5
	120.0	121.0	9723	18426	1855	5319	347	57.2	103.0	8.3	29.0	3.4	6.0	0.5	2.6	0.3	94.0	35,973	3.60	92	3.7
	121.0	122.0	7131	14188	1426	4351	275	43.7	73.1	5.9	21.4	2.6	4.9	0.5	2.4	0.3	77.5	27,602	2.76	64.9	8.1
	122.0	123.0	5090	9385	896	2659	157	25.1	46.2	4.4	15.6	1.7	3.2	0.3	1.6	0.2	48.3	18,334	1.83	53.6	6.4
	123.0	124.0	13194	23155	2211	6112	382	64.6	116.4	10.1	34.0	3.8	6.5	0.5	2.9	0.4	102.9	45,396	4.54	125	3.5
	124.0	125.0	15070	25919	2453	6742	397	66.2	115.3	10.1	32.7	3.6	7.1	0.7	3.5	0.5	102.9	50,923	5.09	106.5	2.8
	125.0	126.0	8808	16031	1577	4339	247	38.0	62.1	4.9	14.9	1.7	2.7	0.3	1.7	0.2	44.5	31,172	3.12	51.7	3.3
	126.0	127.0	5981	11277	1070	3219	196	31.4	52.8	4.3	14.5	1.6	2.9	0.3	1.4	0.2	43.2	21,896	2.19	50.9	3.8
	127.0	128.0	9124	16583	1601	4397	252	38.6	64.1	5.3	17.5	2.1	3.7	0.3	2.1	0.2	58.4	32,150	3.21	44.5	5.7
	128.0	129.0	9582	17443	1710	4666	257	41.1	68.8	5.6	18.7	2.2	4.2	0.4	2.2	0.3	61.0	33,862	3.39	58.8	2.8
	129.0	130.0	7588	14311	1414	4071	245	38.3	66.2	5.1	16.0	1.7	2.7	0.2	1.4	0.2	41.9	27,802	2.78	67.9	7.5
	130.0	131.0	6087	11178	1055	3138	189	29.9	52.0	4.2	15.4	1.7	3.0	0.3	1.7	0.2	44.5	21,799	2.18	41.2	8.3
	131.0	132.0	4269	7567	698	2035	125	20.5	34.1	2.7	9.9	1.2	2.2	0.2	1.0	0.1	31.8	14,799	1.48	28	11.2
	132.0	133.0	4058	7309	675	1983	124	19.8	34.8	2.9	9.8	1.1	1.9	0.2	0.9	0.2	27.9	14,249	1.42	33.1	16.8
	133.0	134.0	7049	12775	1174	3418	202	32.0	54.8	4.4	15.3	1.7	2.9	0.3	1.4	0.2	43.2	24,774	2.48	43.8	6.3
	134.0	135.0	5594	10159	959	2881	192	32.8	55.9	4.4	14.5	1.6	2.9	0.3	1.6	0.2	44.5	19,944	1.99	48.4	12.4
	135.0	136.0	4410	7911	744	2245	158	28.0	51.2	4.4	15.4	1.9	3.5	0.3	1.7	0.3	49.5	15,625	1.56	41.3	17.8
	136.0	137.0	1202	2678	282	960	96	20.2	43.6	4.6	21.1	3.2	7.8	0.8	5.1	0.7	95.2	5,420	0.54	38.8	30.6
	137.0	138.0	1402	3231	352	1219	121	24.1	49.7	4.6	18.9	2.6	5.8	0.6	3.1	0.5	72.4	6,506	0.65	61.7	15.1
	138.0	139.0	2287	4643	476	1563	140	27.4	56.0	4.7	19.4	2.8	6.3	0.7	4.2	0.5	76.2	9,307	0.93	44.3	26.5
	139.0	140.0	4597	9225	954	3114	256	45.5	79.2	5.8	20.0	2.3	4.1	0.4	1.8	0.3	57.2	18,364	1.84	77.2	13.1
	140.0	141.0	1636	3734	406	1394	128	24.6	53.9	5.7	24.5	3.5	8.0	1.0	5.8	0.7	102.9	7,528	0.75	73.5	15.8



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	141.0	142.0	6075	10319	919	2636	167	28.7	53.8	4.6	17.3	2.1	3.5	0.4	2.1	0.2	54.6	20,284	2.03	54.9	13.7
	142.0	143.0	7002	11768	1049	3044	203	35.4	65.2	5.6	20.9	2.8	5.5	0.6	3.2	0.5	74.9	23,280	2.33	65	15.6
	143.0	144.0	4246	7420	696	2117	162	31.4	67.1	8.1	38.7	5.8	14.2	1.5	8.3	1.0	176.5	14,993	1.50	85.9	13.9
	144.0	145.0	7119	12530	1177	3616	284	53.2	102.6	9.7	34.0	3.6	5.6	0.4	2.3	0.3	88.9	25,026	2.50	128	5
	145.0	146.0	3038	6265	683	2135	171	29.1	56.1	5.3	21.0	2.6	5.5	0.6	3.2	0.4	74.9	12,489	1.25	51.7	10.6
	146.0	147.0	2674	5466	584	1796	133	22.5	40.6	3.8	12.7	1.9	3.5	0.7	2.4	0.6	43.2	10,785	1.08	42	15.8
	147.0	148.0	4844	9274	942	2718	178	26.8	45.9	3.8	12.6	1.4	2.4	0.2	1.3	0.2	36.8	18,087	1.81	46.2	9.7
	148.0	149.0	2381	5036	539	1691	147	25.7	52.3	6.3	27.7	3.7	7.0	0.7	3.9	0.5	104.1	10,026	1.00	67.6	10.6
	149.0	150.0	1372	2899	307	976	87	16.7	37.2	4.3	19.2	2.3	5.0	0.5	3.0	0.4	67.3	5,798	0.58	64.1	12.8
	150.0	151.0	1237	2666	284	875	77	13.9	28.0	2.5	10.0	1.4	3.0	0.4	2.1	0.2	36.8	5,237	0.52	39.1	14.6
	151.0	152.0	1290	2764	289	899	80	15.4	31.9	3.2	12.7	1.8	4.2	0.4	2.5	0.3	50.8	5,446	0.54	41.9	12.9
	152.0	153.0	7095	12259	1167	3184	206	33.7	58.1	5.4	19.7	2.4	4.2	0.3	1.9	0.3	61.0	24,100	2.41	69.2	8.5
	153.0	154.0	10379	18672	1885	5202	357	56.2	96.7	7.5	22.7	2.5	3.9	0.3	1.7	0.2	59.7	36,746	3.67	102.5	9.8
	154.0	155.0	1994	4115	442	1382	128	24.6	54.5	6.6	32.6	5.1	11.9	1.4	8.4	1.0	151.1	8,358	0.84	63	9.1
	155.0	156.0	3131	6265	665	2030	157	27.2	53.3	5.3	23.4	3.4	7.6	0.9	5.1	0.7	100.3	12,474	1.25	44.3	21.8
	156.0	157.0	4292	8144	825	2356	158	24.2	39.5	3.2	9.6	1.1	1.9	0.2	0.9	0.1	25.4	15,882	1.59	34.1	17.1
	157.0	158.0	7494	14004	1395	3872	230	33.7	54.5	3.8	10.6	1.2	2.3	0.2	1.1	0.2	26.7	27,130	2.71	32.3	7.3
	158.0	159.0	6802	13082	1293	3674	217	31.7	49.9	3.4	9.6	1.0	1.9	0.2	0.8	0.1	22.9	25,190	2.52	30.1	8.3
	159.0	160.0	2897	5798	608	1785	114	16.4	26.3	1.8	6.2	0.7	1.5	0.2	1.0	0.1	17.8	11,273	1.13	21	19.6
	160.0	161.0	2393	5036	550	1715	121	17.4	26.6	1.9	5.1	0.6	1.1	0.1	0.9	0.1	14.0	9,882	0.99	20.6	20.7
	161.0	162.0	2803	5687	609	1837	128	19.2	31.9	2.5	7.5	0.9	1.6	0.2	1.0	0.2	21.6	11,151	1.12	27.7	7.1
	162.0	163.0	2428	5000	533	1610	106	15.8	25.1	2.0	6.9	0.7	1.5	0.2	0.8	0.2	17.8	9,746	0.97	18.2	10.2
	163.0	164.0	4070	8083	847	2484	160	23.3	35.9	2.4	7.1	0.8	1.3	0.1	0.8	0.1	17.8	15,733	1.57	23.5	5.8
	164.0	165.0	4644	9029	941	2718	166	23.2	34.9	2.3	6.4	0.7	1.6	0.1	0.8	0.1	17.8	17,586	1.76	20.6	5.3
	165.0	166.0	5606	10970	1127	3254	196	27.1	42.2	3.0	9.5	1.1	1.9	0.2	0.9	0.1	29.2	21,268	2.13	28.1	6.7
	166.0	167.0	4703	8157	787	2181	143	20.4	34.9	2.5	7.6	0.9	1.7	0.2	0.9	0.1	21.6	16,061	1.61	25.5	8.3
<b>KGKRC021</b>	0.0	1.0	9640	17689	1873	5237	398	65.2	112.4	8.6	27.1	3.0	5.8	0.5	2.9	0.4	74.9	35,138	3.51	87	7.3
	1.0	2.0	14836	24199	2416	6730	482	84.1	140.0	9.7	26.6	2.7	3.8	0.3	1.6	0.2	55.9	48,989	4.90	91.2	5.8
	2.0	3.0	3389	6068	621	1849	159	29.9	57.6	5.4	18.5	2.2	3.9	0.5	2.3	0.3	55.9	12,263	1.23	43	7.8
	3.0	4.0	4832	9471	1011	3138	256	43.3	77.1	6.2	21.1	2.7	5.5	0.5	3.4	0.6	67.3	18,936	1.89	55.6	7.7
	4.0	5.0	3741	7383	801	2543	235	43.4	81.7	7.4	26.9	3.5	7.3	0.8	4.7	0.6	100.3	14,980	1.50	54.3	6.2
	5.0	6.0	2709	5737	646	2135	214	40.2	78.4	7.3	29.5	4.1	9.4	0.9	6.0	0.8	115.6	11,733	1.17	50.2	6.3
	6.0	7.0	1876	4324	523	1866	216	39.8	78.6	7.7	31.3	4.4	10.1	1.1	6.7	0.9	128.3	9,115	0.91	61.6	5.8
	7.0	8.0	2733	6154	737	2543	253	43.4	78.5	6.7	24.3	3.1	7.1	0.7	4.1	0.6	87.6	12,676	1.27	61.2	6.8
	8.0	9.0	5653	12714	1486	5062	433	71.0	119.3	8.2	22.7	2.2	3.4	0.3	1.7	0.2	54.6	25,631	2.56	76.6	4.5
	9.0	10.0	3436	7641	878	3243	303	51.0	84.5	5.1	14.0	1.3	2.2	0.2	1.1	0.1	33.0	15,693	1.57	65.7	3.3
	10.0	11.0	2099	4459	484	1773	176	32.0	58.4	4.2	13.4	1.4	2.4	0.2	1.5	0.2	36.8	9,143	0.91	36.2	3.6
	11.0	12.0	1296	2739	292	1082	128	26.2	51.4	4.5	16.1	2.1	4.2	0.4	2.7	0.3	57.2	5,703	0.57	30.9	4.5
	12.0	13.0	2533	4643	466	1598	152	27.9	51.2	3.8	11.7	1.4	2.7	0.2	1.4	0.1	34.3	9,528	0.95	29.9	4.7
	13.0	14.0	1724	3685	404	1476	154	29.4	57.2	4.7	17.9	2.4	4.5	0.5	3.1	0.3	61.0	7,623	0.76	31.8	5.7
	14.0	15.0	1742	3906	441	1656	173	31.2	54.8	3.6	11.3	1.3	2.3	0.3	1.4	0.1	30.5	8,055	0.81	32.4	4.3
	15.0	16.0	2088	4041	408	1406	139	28.0	57.2	5.1	20.7	2.5	5.2	0.5	3.3	0.4	67.3	8,272	0.83	35.2	5.6

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	16.0	17.0	2011	3722	370	1271	130	24.8	50.6	4.1	15.2	2.1	4.0	0.4	1.9	0.3	50.8	7,659	0.77	27.2	5.1
	17.0	18.0	2070	3796	367	1207	109	19.9	39.3	3.3	10.9	1.4	2.5	0.3	1.7	0.2	36.8	7,666	0.77	25.2	4.4
	18.0	19.0	1501	3501	399	1487	147	26.5	48.1	3.6	10.9	1.3	2.2	0.2	1.3	0.1	30.5	7,159	0.72	32.7	3.9
	19.0	20.0	2393	4975	523	1820	161	28.4	50.0	3.7	11.4	1.3	2.2	0.2	1.3	0.1	31.8	10,002	1.00	31	3.8
	20.0	21.0	2047	4324	463	1668	155	27.2	47.7	3.2	10.0	1.2	1.9	0.2	1.0	0.1	24.1	8,773	0.88	28.6	4.2
	21.0	22.0	2697	5847	654	2368	217	37.1	65.5	4.5	13.5	1.3	2.3	0.2	1.1	0.1	31.8	11,940	1.19	44.5	4.8
	22.0	23.0	1876	3894	419	1516	153	28.1	52.4	3.8	11.7	1.4	2.2	0.3	1.4	0.2	30.5	7,991	0.80	31.2	4.1
	23.0	24.0	2791	6621	787	2986	283	48.1	81.0	4.8	13.1	1.4	2.2	0.2	1.0	0.1	27.9	13,648	1.36	48.3	3.4
	24.0	25.0	2211	4717	535	1989	201	35.0	61.4	4.0	11.9	1.2	2.2	0.2	1.1	0.1	29.2	9,799	0.98	35	3.7
	25.0	26.0	1894	3919	428	1575	176	35.2	70.5	5.9	22.0	3.0	6.5	0.7	3.9	0.5	81.3	8,221	0.82	38	6.5
	26.0	27.0	3131	5761	575	1930	169	32.9	63.1	5.4	20.8	2.9	6.4	0.6	3.4	0.4	76.2	11,779	1.18	33.8	7.2
	27.0	28.0	3917	8513	929	3196	254	39.7	66.5	4.2	12.4	1.4	2.6	0.3	1.3	0.1	33.0	16,970	1.70	34	5.8
	28.0	29.0	2088	5380	678	2718	278	43.9	70.7	4.2	12.2	1.5	3.3	0.3	1.9	0.2	38.1	11,318	1.13	40.9	5.6
	29.0	30.0	1419	3071	330	1196	125	24.1	47.1	3.9	14.9	2.1	4.4	0.5	2.7	0.3	54.6	6,295	0.63	26.3	4.6
	30.0	31.0	1941	4496	511	1878	177	30.8	54.1	3.7	11.3	1.2	2.1	0.2	1.1	0.1	26.7	9,134	0.91	33	4.1
	31.0	32.0	1419	3034	327	1201	120	21.5	39.7	2.7	8.4	1.1	1.9	0.2	1.0	0.1	25.4	6,204	0.62	24.1	3.4
	32.0	33.0	1841	4557	550	2094	207	35.4	60.6	4.0	11.4	1.2	1.7	0.2	1.0	0.1	26.7	9,391	0.94	37.9	2.4
	33.0	34.0	1982	4213	458	1615	154	27.2	49.5	3.5	10.2	1.1	1.9	0.2	1.1	0.1	27.9	8,545	0.85	27.7	3.7
	34.0	35.0	1419	3206	354	1277	123	22.7	39.8	2.8	8.7	1.1	1.8	0.2	0.9	0.1	25.4	6,483	0.65	24.5	3
	35.0	36.0	934	2199	209	670	63	12.5	23.1	1.9	7.7	1.0	1.8	0.2	1.0	0.2	24.1	4,147	0.41	16	2.5
	36.0	37.0	1113	2911	303	1022	100	19.0	32.9	2.4	8.7	1.0	2.2	0.2	0.9	0.1	25.4	5,542	0.55	22.1	2.6
	37.0	38.0	1407	3685	398	1371	136	24.9	43.5	3.3	11.0	1.2	2.3	0.2	1.0	0.2	30.5	7,115	0.71	32	3.6
	38.0	39.0	1753	4459	477	1645	165	31.4	52.8	3.6	11.9	1.3	2.3	0.2	1.1	0.2	30.5	8,635	0.86	40.5	4.4
	39.0	40.0	2439	6375	732	2589	253	45.3	72.5	4.7	14.2	1.6	2.7	0.2	1.1	0.2	34.3	12,566	1.26	56.3	4
	40.0	41.0	1255	3292	356	1236	128	24.0	41.5	3.1	10.1	1.1	2.2	0.2	1.3	0.2	27.9	6,379	0.64	30.6	3.8
	41.0	42.0	1871	4729	495	1674	171	34.7	65.7	5.4	21.6	2.9	6.8	0.7	4.1	0.5	73.7	9,156	0.92	33.8	5.3
	42.0	43.0	1460	3857	416	1417	139	25.1	43.8	2.9	11.1	1.4	2.5	0.2	1.3	0.1	30.5	7,408	0.74	33.9	5.4
	43.0	44.0	1349	3562	384	1330	130	24.2	42.4	3.2	10.9	1.3	2.5	0.2	1.3	0.2	30.5	6,872	0.69	29.5	5.2
	44.0	45.0	1093	2862	304	1029	96	18.5	32.9	2.7	10.0	1.2	2.4	0.3	1.3	0.2	30.5	5,484	0.55	24.3	4.1
	45.0	46.0	1431	3304	329	1033	93	18.1	31.9	2.8	10.0	1.1	2.3	0.2	1.1	0.2	29.2	6,287	0.63	24.5	4.1
	46.0	47.0	1736	4533	484	1610	144	25.2	42.7	2.9	9.4	1.1	2.1	0.2	1.0	0.2	27.9	8,620	0.86	27.1	5
	47.0	48.0	1135	2973	312	1024	93	16.9	27.6	2.0	7.1	0.9	1.8	0.2	1.0	0.2	22.9	5,618	0.56	17.2	4
	48.0	49.0	1366	3673	393	1324	121	22.5	37.6	2.7	9.8	1.2	2.2	0.2	1.1	0.2	26.7	6,981	0.70	27.2	3
	49.0	50.0	1138	2567	246	774	68	12.7	22.7	1.9	7.8	1.0	2.3	0.2	1.3	0.2	26.7	4,870	0.49	15.3	2.8
	50.0	51.0	1918	4115	382	1158	104	21.1	39.8	3.5	14.2	2.1	4.8	0.5	3.0	0.4	57.2	7,823	0.78	20.6	7.4
	51.0	52.0	3859	7665	724	2146	158	29.3	50.9	4.0	15.0	2.2	4.7	0.5	2.9	0.3	54.6	14,716	1.47	31.1	5.6
	52.0	53.0	3847	7592	703	2000	136	23.3	38.2	3.1	13.1	1.5	2.7	0.2	1.4	0.1	39.4	14,400	1.44	26.5	5.9
	53.0	54.0	4199	8660	838	2554	198	34.4	58.1	4.6	16.6	1.8	3.2	0.3	1.7	0.2	45.7	16,616	1.66	43.3	4.7
	54.0	55.0	2639	5380	504	1505	113	21.4	38.7	3.3	13.2	1.8	4.2	0.4	2.5	0.3	49.5	10,276	1.03	21	7.2
	55.0	56.0	1624	3759	370	1163	100	18.3	31.4	2.4	9.3	1.2	2.4	0.2	1.1	0.2	31.8	7,114	0.71	23.3	5.4
	56.0	57.0	1577	3587	337	1022	87	16.7	29.6	2.5	10.6	1.3	2.4	0.2	1.3	0.2	34.3	6,709	0.67	20.4	6.8
	57.0	58.0	2486	4987	472	1411	118	22.9	42.3	3.6	15.3	2.0	4.4	0.5	2.7	0.3	52.1	9,621	0.96	25.3	6.4
	58.0	59.0	1847	3599	378	1162	99	19.2	33.2	2.6	9.4	1.2	2.7	0.3	1.4	0.2	31.8	7,188	0.72	20.7	8.6

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	59.0	60.0	2439	5233	605	1925	183	35.6	64.2	5.3	18.1	2.5	4.7	0.5	2.9	0.3	61.0	10,580	1.06	35.7	7.5	
	60.0	61.0	1935	4373	420	1289	108	20.4	36.3	3.1	14.2	1.8	3.1	0.3	1.4	0.2	44.5	8,251	0.83	24.8	6	
	61.0	62.0	1777	4127	405	1254	103	19.2	33.8	3.0	12.2	1.4	2.7	0.3	1.4	0.2	38.1	7,778	0.78	27.7	7.4	
	62.0	63.0	2316	4914	477	1476	118	21.8	36.4	2.9	10.8	1.3	2.6	0.2	1.0	0.2	31.8	9,410	0.94	26.5	6.9	
	63.0	64.0	2850	6167	609	1878	145	25.4	40.3	3.1	11.4	1.3	2.4	0.2	1.1	0.1	31.8	11,765	1.18	28.3	7.9	
	64.0	65.0	2475	5307	509	1563	130	24.6	44.1	3.6	13.1	1.6	3.4	0.4	2.1	0.3	40.6	10,117	1.01	26.1	7.8	
	65.0	66.0	5254	10478	1095	3464	285	48.8	86.0	5.6	17.2	1.9	3.1	0.3	1.6	0.3	41.9	20,783	2.08	50.1	4.9	
	66.0	67.0	3342	6498	663	2123	175	30.2	54.3	3.5	12.1	1.4	2.5	0.3	1.4	0.2	35.6	12,943	1.29	30.9	4.8	
	67.0	68.0	4468	8365	857	2648	197	32.0	56.9	3.9	12.6	1.5	2.6	0.3	1.5	0.2	34.3	16,681	1.67	31.3	5.1	
	68.0	69.0	6040	10785	1050	3056	194	28.5	47.5	3.3	10.6	1.3	2.1	0.2	1.0	0.1	27.9	21,248	2.12	25.1	4.5	
	69.0	70.0	5477	9803	928	2694	169	26.3	42.3	2.9	9.8	1.0	1.7	0.1	0.9	0.1	24.1	19,180	1.92	19.4	4.3	
	70.0	71.0	4210	7911	774	2333	162	25.8	45.1	2.9	9.8	1.1	1.8	0.2	0.9	0.1	25.4	15,504	1.55	27.7	5.4	
	71.0	72.0	5477	9827	927	2683	171	27.2	45.0	3.4	11.5	1.3	2.3	0.2	1.3	0.1	34.3	19,211	1.92	28.9	7.1	
	72.0	73.0	7717	14864	1480	4596	329	49.3	81.6	4.7	14.0	1.4	2.2	0.2	1.0	0.1	31.8	29,172	2.92	46.5	2.5	
	73.0	74.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	74.0	75.0	6439	11621	1122	3278	209	32.4	53.4	3.4	10.9	1.3	2.1	0.2	1.0	0.1	30.5	22,804	2.28	25.4	4.1	
	75.0	76.0	6673	12837	1281	3896	279	44.5	72.7	4.4	13.3	1.5	2.7	0.3	1.4	0.2	34.3	25,141	2.51	36.4	8.8	
	76.0	77.0	4550	9127	954	2998	234	40.1	69.5	4.5	14.4	1.9	4.1	0.5	2.5	0.4	48.3	18,050	1.80	32.3	7.6	
	77.0	78.0	5008	9594	964	2963	210	33.0	55.2	3.4	10.4	1.2	2.4	0.2	1.4	0.2	30.5	18,876	1.89	26.8	5.5	
	78.0	79.0	3683	7530	812	2694	245	43.3	80.3	5.9	20.0	2.6	5.5	0.6	3.5	0.4	64.8	15,190	1.52	40	6.1	
	79.0	80.0	4550	9594	1062	3558	329	57.8	104.1	7.0	22.7	2.8	5.7	0.6	3.3	0.4	68.6	19,366	1.94	61.3	6	
	80.0	81.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	81.0	82.0	4539	10122	1173	4001	363	60.7	105.8	6.0	17.7	1.9	3.4	0.4	2.1	0.3	44.5	20,440	2.04	53.3	4.6	
	82.0	83.0	4691	9496	1037	3394	277	44.5	73.7	4.1	11.4	1.1	1.8	0.2	1.0	0.1	25.4	19,058	1.91	36.3	3.5	
	83.0	84.0	5817	12075	1305	4222	361	57.6	96.6	5.5	15.5	1.6	2.6	0.2	1.1	0.2	33.0	23,994	2.40	49.6	4.3	
	84.0	85.0	4773	11289	1329	4596	419	68.6	114.7	6.9	17.9	1.7	2.5	0.2	1.0	0.2	35.6	22,655	2.27	70.1	2.7	
	85.0	86.0	5125	10245	1070	3348	245	39.1	64.8	4.1	12.9	1.3	1.9	0.2	0.9	0.1	27.9	20,186	2.02	38.5	3.6	
	86.0	87.0	5876	12653	1377	4502	370	60.2	103.4	6.5	18.1	1.8	2.7	0.2	1.0	0.1	36.8	25,009	2.50	67.5	2.5	
	87.0	88.0	8503	16215	1595	4747	305	46.0	75.3	4.8	15.3	1.6	2.5	0.2	1.1	0.2	35.6	31,547	3.15	43.9	5.4	
	88.0	89.0	6544	13082	1365	4292	334	52.2	86.7	5.1	14.0	1.4	2.3	0.2	1.1	0.1	30.5	25,812	2.58	44.3	5.6	
<b>KGKRC022</b>	0.0	1.0	3882	7592	809	2659	234	41.5	73.2	4.6	14.9	1.8	3.4	0.4	2.5	0.4	41.9	15,361	1.54	39.9	6.2	
	1.0	2.0	3988	7813	860	2904	285	46.6	81.7	4.9	15.3	1.7	2.9	0.3	1.8	0.2	39.4	16,045	1.60	46.3	7.4	
	2.0	3.0	4457	9213	994	3278	283	46.4	80.0	4.7	13.1	1.3	2.2	0.2	1.1	0.1	27.9	18,402	1.84	37.7	6.3	
	3.0	4.0	4527	9201	1008	3301	277	45.5	77.6	4.7	13.4	1.5	2.5	0.2	1.7	0.2	31.8	18,493	1.85	41	7.2	
	4.0	5.0	3237	6633	719	2391	205	33.4	57.2	3.6	10.7	1.1	1.9	0.2	1.4	0.2	25.4	13,320	1.33	30.5	4.8	
	5.0	6.0	4574	8808	965	2939	246	44.5	71.9	5.0	14.5	1.5	2.3	0.2	1.4	0.2	31.8	17,705	1.77	45.9	7.4	
	6.0	7.0	4081	8464	982	3114	270	48.2	76.8	5.0	14.1	1.3	2.3	0.2	1.3	0.2	30.5	17,091	1.71	43.2	5.9	
	7.0	8.0	4046	8378	977	3126	274	50.1	82.2	5.3	15.4	1.6	2.4	0.2	1.4	0.3	31.8	16,992	1.70	47.4	6.2	
	8.0	9.0	3624	7813	832	2823	240	41.0	65.5	4.7	13.3	1.5	2.5	0.3	1.5	0.2	31.8	15,494	1.55	44	6.7	
	9.0	10.0	3448	7370	816	2799	234	39.5	65.2	4.6	13.3	1.5	2.6	0.3	1.5	0.3	31.8	14,828	1.48	38.9	8	
	10.0	11.0	2486	5307	580	2024	185	32.4	53.5	3.7	10.3	1.1	1.9	0.2	1.3	0.2	24.1	10,710	1.07	31.3	14.3	
	11.0	12.0	3331	6646	689	2257	187	32.1	52.8	3.5	11.5	1.3	2.4	0.3	1.7	0.2	29.2	13,244	1.32	35	9.3	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	12.0	13.0	8151	17812	2096	6777	552	91.2	140.6	8.7	23.8	2.5	3.9	0.4	1.6	0.2	47.0	35,708	3.57	77.6	9.4
	13.0	14.0	6908	14495	1601	4922	399	66.8	107.0	7.4	22.3	2.5	4.5	0.5	2.7	0.4	52.1	28,591	2.86	72.6	10
	14.0	15.0	4750	10011	1074	3663	339	59.9	101.9	7.5	24.0	2.8	5.2	0.6	3.0	0.4	64.8	20,106	2.01	78.1	7.2
	15.0	16.0	4703	9754	1061	3604	319	55.0	95.1	6.8	20.2	2.2	4.2	0.4	2.3	0.3	50.8	19,678	1.97	65	8.9
	16.0	17.0	2275	4471	472	1680	199	40.5	85.4	8.5	36.7	5.7	13.3	1.6	9.3	1.3	165.1	9,465	0.95	70.9	5.7
	17.0	18.0	2299	4484	481	1720	201	41.0	82.5	7.8	32.5	4.7	11.4	1.3	7.4	1.1	137.2	9,511	0.95	77.6	4.8
	18.0	19.0	3296	7174	773	2659	244	42.7	73.3	6.0	21.1	2.8	5.7	0.6	3.1	0.6	71.1	14,373	1.44	52.7	8.1
	19.0	20.0	2111	4545	503	1796	180	33.2	58.0	4.4	15.3	2.0	3.9	0.5	3.2	0.4	50.8	9,307	0.93	37.5	4.6
	20.0	21.0	4386	9139	965	3184	264	43.7	72.0	4.8	14.9	1.7	2.7	0.3	1.6	0.3	35.6	18,117	1.81	42.8	10.6
	21.0	22.0	3601	8230	944	3394	303	50.3	80.3	5.1	13.7	1.4	2.5	0.2	0.9	0.2	29.2	16,655	1.67	45.3	9
	22.0	23.0	3988	8722	968	3348	285	45.7	75.4	5.0	14.7	1.6	2.4	0.3	1.3	0.3	30.5	17,487	1.75	42.4	7.6
	23.0	24.0	4163	9213	1031	3569	311	51.1	84.3	5.7	17.5	2.0	3.5	0.4	2.3	0.4	44.5	18,498	1.85	55.8	8.5
	24.0	25.0	4867	10282	1125	3802	324	53.5	86.8	6.0	17.9	2.0	3.4	0.4	2.3	0.4	41.9	20,614	2.06	54	5.8
	25.0	26.0	4937	10822	1184	4071	362	59.8	98.1	6.2	18.6	2.0	2.9	0.3	1.6	0.3	39.4	21,605	2.16	58.3	6.1
	26.0	27.0	3929	8709	968	3406	307	52.7	86.7	6.0	17.5	1.9	3.0	0.3	1.7	0.3	38.1	17,527	1.75	56.7	3.6
	27.0	28.0	4410	9827	1089	3802	348	58.1	95.6	6.1	18.1	1.8	3.1	0.2	1.5	0.3	39.4	19,700	1.97	51.6	5
	28.0	29.0	3905	7555	779	2613	238	42.5	74.7	5.5	19.5	2.4	4.9	0.6	3.3	0.5	61.0	15,305	1.53	60.5	8
	29.0	30.0	6427	12468	1365	4316	361	61.7	105.0	7.6	22.7	2.5	4.6	0.5	3.1	0.4	58.4	25,203	2.52	72.9	9.1
	30.0	31.0	3425	7198	793	2729	245	42.5	70.0	4.7	14.0	1.6	2.6	0.3	1.4	0.2	30.5	14,557	1.46	40	12.4
	31.0	32.0	2592	5651	639	2274	213	38.0	68.4	5.7	21.4	2.7	5.7	0.6	3.5	0.5	67.3	11,583	1.16	52.9	7.9
	32.0	33.0	3038	6535	738	2601	237	40.3	67.4	4.9	16.4	2.1	4.0	0.4	2.5	0.3	44.5	13,331	1.33	42	5.6
	33.0	34.0	2815	5909	651	2274	203	33.9	56.7	3.6	11.4	1.2	2.2	0.2	0.8	0.1	22.9	11,985	1.20	33.8	4.6
	34.0	35.0	2744	5835	650	2222	185	30.3	47.7	3.1	9.1	1.0	1.7	0.2	0.9	0.1	19.1	11,749	1.17	28.3	4.7
	35.0	36.0	2944	6474	729	2589	254	45.3	82.0	6.9	24.8	3.4	7.1	0.8	4.8	0.7	86.4	13,251	1.33	63.8	6.6
	36.0	37.0	1560	3366	369	1394	187	39.4	82.5	8.2	35.9	5.2	12.0	1.4	8.0	1.2	144.8	7,213	0.72	81.5	5.7
	37.0	38.0	3577	6560	667	2222	227	43.2	85.4	7.9	32.7	4.7	10.2	1.1	6.2	0.8	127.0	13,572	1.36	77.3	7.3
	38.0	39.0	4269	7518	760	2379	219	42.6	87.4	7.9	32.3	4.6	10.6	1.1	6.2	0.8	120.6	15,459	1.55	71.4	6.8
	39.0	40.0	3026	5995	654	2222	229	44.7	87.5	7.4	26.5	3.5	7.9	0.9	5.8	0.7	90.2	12,400	1.24	77.2	6.4
	40.0	41.0	4386	9102	1023	3418	292	50.1	89.6	5.9	19.5	2.1	4.0	0.5	2.7	0.4	50.8	18,447	1.84	53.2	10.4
	41.0	42.0	5184	10294	1149	3756	333	55.5	94.5	5.7	15.4	1.6	2.5	0.3	1.5	0.2	30.5	20,923	2.09	48.8	10.6
	42.0	43.0	7189	13205	1359	4211	327	54.5	92.8	5.7	16.4	1.7	3.4	0.3	1.7	0.2	38.1	26,506	2.65	46.7	13.6
	43.0	44.0	9242	17198	1836	5552	450	77.8	141.2	10.0	33.7	4.0	8.5	0.8	4.6	0.7	99.1	34,658	3.47	91.2	14.2
	44.0	45.0	6357	11166	1122	3453	282	49.3	93.9	7.3	26.6	3.5	7.3	0.7	4.8	0.6	83.8	22,657	2.27	77.6	8.3
	45.0	46.0	5829	11006	1172	3779	308	51.4	92.2	6.7	21.6	2.4	4.4	0.4	2.5	0.3	53.3	22,330	2.23	68.7	7.6
	46.0	47.0	4210	8071	870	2753	207	35.2	60.3	4.4	14.4	1.6	3.3	0.4	2.4	0.3	41.9	16,275	1.63	40.2	5.8
	47.0	48.0	3049	6326	704	2426	231	41.8	78.0	5.4	19.1	2.3	5.2	0.6	3.5	0.5	55.9	12,949	1.29	50.9	7
	48.0	49.0	3014	6891	808	2858	268	45.3	81.3	6.0	22.4	2.9	5.8	0.7	3.6	0.5	71.1	14,079	1.41	49.8	10.8
	49.0	50.0	2791	6142	723	2624	252	43.2	70.5	4.4	13.9	1.5	2.9	0.3	1.8	0.3	33.0	12,704	1.27	36.7	6.6
	50.0	51.0	2486	5294	599	2158	244	46.9	94.4	7.6	30.1	3.7	8.7	1.0	6.6	1.1	102.9	11,084	1.11	74.7	7.2
	51.0	52.0	2035	4496	518	1913	218	40.0	79.0	6.0	22.7	3.2	7.0	0.9	5.2	0.8	85.1	9,430	0.94	61.5	6.4
	52.0	53.0	8268	16583	1963	6112	523	83.1	139.5	8.0	22.5	2.2	3.3	0.3	1.4	0.2	41.9	33,752	3.38	75.5	11.6
	53.0	54.0	3976	8181	930	3196	311	53.8	97.6	7.1	24.0	3.0	6.3	0.7	4.1	0.6	72.4	16,864	1.69	66.1	5.7
	54.0	55.0	4492	8722	936	3044	252	41.8	72.8	4.5	13.8	1.5	3.0	0.3	1.8	0.3	33.0	17,619	1.76	42.3	7.3

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	55.0	56.0	2944	5933	652	2228	217	38.0	70.5	5.3	18.7	2.4	4.8	0.6	3.4	0.5	57.2	12,175	1.22	41.3	4.9
	56.0	57.0	2381	4778	523	1779	192	38.7	79.6	7.1	27.5	3.6	7.9	0.8	5.0	0.6	97.8	9,922	0.99	58.3	5.8
	57.0	58.0	1935	4201	471	1680	206	42.7	90.0	8.1	31.9	4.4	9.3	1.0	6.2	0.7	118.1	8,806	0.88	61.3	5
	58.0	59.0	2111	4607	515	1779	180	34.7	69.2	5.6	20.1	2.7	6.1	0.7	4.6	0.6	72.4	9,408	0.94	45.6	6.2
	59.0	60.0	2897	5982	657	2222	208	38.0	75.2	6.4	26.3	3.7	8.9	1.1	6.5	0.8	104.1	12,237	1.22	65.1	8.1
	60.0	61.0	4081	10134	1257	4432	356	55.5	94.1	6.3	20.1	2.4	4.9	0.6	3.1	0.4	57.2	20,505	2.05	47.2	14.5
	61.0	62.0	2756	6339	768	2753	262	46.0	85.4	6.6	25.3	3.4	8.4	1.0	5.9	0.8	94.0	13,154	1.32	56.7	9.9
	62.0	63.0	2533	5479	637	2292	252	49.4	101.7	8.8	35.4	5.0	10.8	1.2	7.1	1.0	129.5	11,542	1.15	66.9	10.2
	63.0	64.0	2264	4361	472	1650	215	46.9	102.6	10.0	44.0	6.1	15.0	1.7	9.1	1.0	175.3	9,373	0.94	71.7	6.7
	64.0	65.0	2744	5602	631	2210	246	48.8	103.5	9.0	38.9	5.5	12.9	1.4	7.7	1.1	158.7	11,820	1.18	79.7	9.4
	65.0	66.0	3542	7370	832	2729	237	41.3	74.8	5.4	19.4	2.4	5.2	0.6	3.1	0.4	58.4	14,922	1.49	42	9
	66.0	67.0	5395	11682	1347	4526	377	60.8	104.7	6.6	21.0	2.1	4.2	0.3	2.5	0.3	47.0	23,576	2.36	54.4	10.9
	67.0	68.0	2545	5552	640	2269	199	32.9	58.7	4.5	15.8	1.9	3.9	0.4	2.7	0.3	52.1	11,378	1.14	39.5	8.1
	68.0	69.0	1824	3710	422	1557	188	38.4	80.0	8.3	34.0	4.9	10.8	1.3	7.1	0.9	138.4	8,025	0.80	62.5	5.3
	69.0	70.0	1718	3685	424	1557	175	33.8	71.5	6.9	27.3	3.8	8.8	0.9	4.9	0.7	102.9	7,821	0.78	57.8	6.2
	70.0	71.0	1947	4177	476	1697	176	33.2	63.3	5.7	22.4	2.9	7.0	0.7	4.6	0.5	85.1	8,698	0.87	52.6	5.9
	71.0	72.0	3260	7088	784	2683	216	34.4	60.9	4.9	18.0	2.3	4.9	0.5	3.2	0.4	58.4	14,219	1.42	35.4	7
	72.0	73.0	6345	13820	1613	5214	366	54.3	83.7	5.3	16.8	1.8	3.2	0.3	2.2	0.3	39.4	27,565	2.76	42.7	9
	73.0	74.0	14425	26165	2779	8690	613	101.2	173.5	12.3	36.6	3.8	6.3	0.5	2.4	0.4	72.4	53,082	5.31	116.5	15.4
	74.0	75.0	5465	10970	1269	3919	303	48.3	81.6	6.1	20.0	2.3	4.7	0.5	2.9	0.3	54.6	22,146	2.21	51.4	9.9
	75.0	76.0	3999	8722	982	3406	291	45.5	72.8	4.7	14.1	1.6	2.9	0.3	1.6	0.2	35.6	17,579	1.76	41.4	9.7
	76.0	77.0	4023	8746	973	3383	288	45.0	71.0	4.6	13.1	1.3	2.4	0.2	1.1	0.2	26.7	17,577	1.76	41.6	4.6
	77.0	78.0	3049	6683	770	2776	268	45.3	78.6	5.7	19.7	2.6	5.2	0.6	3.0	0.4	63.5	13,770	1.38	58.8	5.8
	78.0	79.0	1918	3857	424	1545	177	34.6	71.4	7.1	28.9	4.1	9.4	1.1	6.3	0.8	116.8	8,202	0.82	72.9	4
	79.0	80.0	2000	4177	481	1755	190	35.0	68.6	6.0	23.2	3.1	6.8	0.8	4.7	0.6	85.1	8,836	0.88	55.8	4.8
	80.0	81.0	2064	4545	541	2006	228	42.6	83.5	7.4	27.7	3.6	7.9	0.9	5.5	0.8	102.9	9,668	0.97	70.2	4.4
	81.0	82.0	1994	4631	559	2129	244	44.2	85.0	7.6	28.0	3.6	7.6	0.8	4.4	0.7	97.8	9,836	0.98	67.1	10.4
	82.0	83.0	1753	3833	455	1697	213	43.8	91.9	9.2	38.0	5.3	12.8	1.4	8.4	1.0	151.1	8,315	0.83	78	8.4
	83.0	84.0	1988	5012	652	2543	256	40.1	68.6	4.9	16.8	2.1	4.1	0.5	3.1	0.4	54.6	10,646	1.06	48.7	7.2
	84.0	85.0	2099	4803	598	2321	264	47.2	86.2	7.0	23.5	3.0	6.6	0.7	4.1	0.6	80.0	10,345	1.03	55.5	6.1
	85.0	86.0	1402	3206	389	1499	168	28.6	52.8	4.1	14.7	1.8	3.8	0.5	2.5	0.3	49.5	6,822	0.68	36.1	8.1
	86.0	87.0	1019	2715	341	1289	112	17.6	26.9	1.7	6.0	0.7	1.5	0.1	0.9	0.1	16.5	5,547	0.55	14.6	6.7
	87.0	88.0	1900	4029	471	1767	207	38.6	76.1	6.8	25.4	3.4	7.6	0.9	5.0	0.7	96.5	8,635	0.86	68.7	5.5
	88.0	89.0	2733	6498	802	2986	291	47.2	78.3	4.8	13.8	1.5	2.9	0.3	1.6	0.2	33.0	13,494	1.35	44.1	9.7
	89.0	90.0	2428	5675	708	2671	288	50.6	90.5	7.4	26.4	3.6	7.6	0.8	4.2	0.5	91.4	12,052	1.21	55.8	12.2
	90.0	91.0	1935	4041	460	1685	199	39.7	85.4	9.0	37.6	5.4	12.4	1.4	8.4	1.0	152.4	8,674	0.87	81.9	9.2
	91.0	92.0	1572	3378	399	1516	183	37.2	75.6	7.5	29.8	4.1	9.0	1.1	6.3	0.7	116.8	7,335	0.73	82.1	6.6
	92.0	93.0	1976	4127	477	1732	176	31.5	58.2	4.7	16.4	2.3	5.0	0.6	4.0	0.5	62.2	8,674	0.87	44.7	7.1
	93.0	94.0	2498	5221	608	2205	215	36.7	65.1	5.0	17.3	2.3	4.8	0.5	3.3	0.5	57.2	10,938	1.09	38.2	10.2
	94.0	95.0	1531	3145	360	1341	170	35.1	75.4	7.8	31.5	4.6	10.1	1.2	7.1	0.9	137.2	6,857	0.69	64.8	5.6
	95.0	96.0	1753	3771	429	1580	187	38.2	82.0	8.2	34.4	4.9	11.1	1.3	7.1	0.9	133.3	8,043	0.80	56.2	7.1
	96.0	97.0	1648	3575	412	1481	142	23.7	41.5	3.1	10.7	1.3	2.9	0.3	2.2	0.3	34.3	7,378	0.74	20.4	10.6
	97.0	98.0	1865	4422	524	1907	195	34.9	61.0	3.9	13.2	1.6	3.0	0.3	2.2	0.3	39.4	9,073	0.91	29.2	7.9



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	98.0	99.0	541	1370	163	591	63	10.4	19.9	1.4	4.8	0.7	1.5	0.2	0.9	0.2	16.5	2,783	0.28	10.4	3.5
	99.0	100.0	1947	4152	464	1650	169	30.9	59.5	4.2	14.5	1.8	3.5	0.4	2.4	0.3	40.6	8,540	0.85	33.9	6.8
	100.0	101.0	2316	4815	551	1942	202	37.1	71.8	5.3	20.3	2.6	5.6	0.6	3.1	0.4	63.5	10,037	1.00	49.9	10.5
	101.0	102.0	1648	3329	373	1353	179	38.9	86.8	8.1	35.0	5.1	11.7	1.3	7.0	0.9	144.8	7,221	0.72	98.2	5.6
	102.0	103.0	1783	3697	417	1470	161	31.8	64.3	5.5	23.5	3.2	7.6	0.8	4.9	0.6	86.4	7,756	0.78	52.6	6.7
	103.0	104.0	1636	3427	387	1382	164	33.1	71.2	6.1	25.9	3.6	7.7	0.9	4.9	0.6	99.1	7,249	0.72	53.4	5
	104.0	105.0	1513	3194	367	1353	168	34.3	73.0	6.3	25.4	3.7	7.6	0.9	5.1	0.7	100.3	6,852	0.69	59.6	5.5
	105.0	106.0	1947	4115	465	1709	210	42.6	89.1	7.7	30.1	4.1	8.1	0.9	4.8	0.6	107.9	8,742	0.87	67.8	6.4
	106.0	107.0	2123	4447	503	1755	184	36.9	77.1	6.5	27.4	4.0	8.8	1.0	5.5	0.7	104.1	9,284	0.93	61.4	7.1
	107.0	108.0	2000	4324	492	1755	193	37.9	79.2	6.7	27.8	4.0	8.5	1.0	5.4	0.8	104.1	9,039	0.90	47.7	7.6
	108.0	109.0	4199	8709	948	3149	277	48.3	88.9	6.2	22.2	2.8	5.5	0.6	3.5	0.5	67.3	17,528	1.75	56.6	12.9
	109.0	110.0	2005	4263	471	1650	185	38.1	81.8	7.4	32.1	4.7	10.1	1.1	5.8	0.7	120.6	8,877	0.89	62.9	6.1
	110.0	111.0	2416	4778	511	1738	191	40.1	85.4	7.9	34.2	4.9	10.9	1.2	6.5	0.8	134.6	9,961	1.00	44.3	5.7
	111.0	112.0	1267	2629	286	1004	120	26.4	61.7	6.0	26.5	4.0	8.9	1.0	5.6	0.8	113.0	5,560	0.56	36.3	4
	112.0	113.0	1159	2451	262	934	118	26.2	61.7	6.0	26.2	3.9	8.7	0.9	5.1	0.6	107.9	5,171	0.52	36.6	4
	113.0	114.0	1105	2187	228	791	100	22.5	54.5	5.2	22.4	3.2	7.3	0.8	4.1	0.6	90.2	4,621	0.46	22.7	2.8
	114.0	115.0	1027	2137	228	816	108	22.9	53.7	5.2	23.1	3.5	7.9	0.8	4.4	0.6	94.0	4,533	0.45	30.5	3.7
	115.0	116.0	1261	2899	335	1248	152	31.4	67.5	6.3	27.4	4.0	9.0	1.0	5.4	0.7	106.7	6,154	0.62	40.5	5.6
	116.0	117.0	1830	3747	408	1446	160	32.0	70.7	6.1	26.2	3.8	8.2	0.8	4.9	0.6	102.9	7,847	0.78	43.5	4.5
	117.0	118.0	1249	2592	283	1017	132	29.5	66.9	6.7	28.4	4.2	9.5	1.0	5.5	0.8	114.3	5,540	0.55	42.3	4.4
	118.0	119.0	1136	2420	262	934	116	25.0	56.4	5.4	24.3	3.7	8.2	0.9	4.8	0.6	96.5	5,095	0.51	32.5	3.8
	119.0	120.0	1000	2045	216	763	99	22.0	53.3	5.2	23.4	3.7	8.0	1.0	5.0	0.6	101.6	4,347	0.43	33.8	4.4
	120.0	121.0	2615	5331	567	1855	157	27.7	50.9	3.6	13.9	1.8	4.0	0.5	2.7	0.3	44.5	10,675	1.07	23.8	4.2
	121.0	122.0	1789	3648	396	1336	135	26.6	55.4	4.9	21.8	3.1	6.9	0.8	4.7	0.6	85.1	7,514	0.75	32.4	6
	122.0	123.0	2393	5110	581	2035	205	36.1	70.3	5.3	20.9	2.6	5.8	0.7	4.1	0.5	67.3	10,538	1.05	40.4	4.7
	123.0	124.0	2058	4729	539	1884	164	26.2	46.2	3.1	10.2	1.3	2.4	0.3	1.4	0.2	29.2	9,495	0.95	22.7	4
	124.0	125.0	1122	2825	304	1071	88	14.1	22.6	1.5	4.3	0.5	0.9	0.1	0.5	0.1	8.9	5,465	0.55	10.6	0.9
	125.0	126.0	1677	4017	422	1429	111	17.6	28.8	1.9	5.4	0.6	1.1	0.1	0.8	0.1	14.0	7,726	0.77	11.9	2.5
	126.0	127.0	2639	5393	552	1831	166	31.0	62.6	5.7	21.6	2.9	6.3	0.7	4.2	0.6	72.4	10,789	1.08	51	6.5
	127.0	128.0	10215	19102	1969	5622	421	72.5	126.2	8.9	26.6	2.7	5.2	0.5	2.6	0.4	59.7	37,634	3.76	94.8	39.8
	128.0	129.0	2293	5258	593	2123	191	32.7	62.2	5.3	18.8	2.7	5.6	0.7	4.2	0.6	68.6	10,659	1.07	35.3	6.3
	129.0	130.0	2404	5172	547	1884	194	38.1	78.6	7.5	31.7	4.4	10.5	1.2	6.8	0.9	118.1	10,498	1.05	43.4	6.7
	130.0	131.0	2199	4803	526	1860	201	40.0	81.5	7.5	29.7	4.1	8.9	1.0	5.8	0.6	113.0	9,881	0.99	48.3	4.9
	131.0	132.0	2316	5061	550	1965	210	40.8	81.4	7.2	26.7	3.7	7.3	0.8	4.3	0.6	90.2	10,366	1.04	50.3	4.4
	132.0	133.0	1929	4410	462	1621	170	33.0	71.0	7.0	28.2	3.7	9.0	1.0	5.4	0.8	97.8	8,849	0.88	66.3	4.6
	133.0	134.0	2252	5110	565	2000	186	32.5	62.8	5.5	19.5	2.5	6.0	0.6	3.4	0.5	66.0	10,313	1.03	41.5	7.8
	134.0	135.0	2334	4987	522	1831	210	43.8	97.4	9.7	41.1	5.7	12.8	1.4	7.3	1.0	153.7	10,258	1.03	92.4	6.4
	135.0	136.0	2023	4152	416	1464	168	37.4	83.6	8.8	39.4	5.5	13.4	1.5	8.0	0.9	152.4	8,573	0.86	59.2	6.4
	136.0	137.0	1777	4250	476	1715	169	30.2	55.4	4.4	14.8	1.9	4.2	0.5	2.5	0.4	45.7	8,547	0.85	30.9	4.2
	137.0	138.0	2252	5073	552	1965	181	31.6	58.6	4.7	16.8	2.2	4.9	0.5	3.3	0.4	50.8	10,197	1.02	34.6	7.5
	138.0	139.0	1912	4263	465	1627	168	33.8	68.1	6.2	24.1	3.3	7.4	0.8	4.9	0.7	82.5	8,666	0.87	45.5	6.7
	139.0	140.0	2035	4459	477	1697	180	35.4	74.9	6.7	27.5	3.5	8.2	1.0	5.2	0.6	96.5	9,108	0.91	56	7.3
	140.0	141.0	2146	4582	475	1604	138	25.6	46.9	3.8	13.7	1.6	3.8	0.5	2.5	0.4	44.5	9,088	0.91	24.2	7.5

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	141.0	142.0	2428	5344	575	1983	161	28.7	51.2	4.5	15.4	2.1	4.7	0.6	3.0	0.4	53.3	10,654	1.07	25	6.8
	142.0	143.0	5852	12407	1293	4106	266	41.1	68.6	4.4	12.4	1.3	2.4	0.2	1.3	0.2	26.7	24,082	2.41	31.9	34.5
	143.0	144.0	6204	12468	1244	3931	266	41.5	69.5	4.5	13.2	1.4	2.7	0.3	1.6	0.2	29.2	24,277	2.43	37.9	22.8
	144.0	145.0	2428	5098	534	1785	158	28.6	56.4	4.8	18.5	2.4	5.6	0.6	4.0	0.5	59.7	10,183	1.02	41.8	6.6
	145.0	146.0	3518	7530	795	2554	175	27.0	45.6	3.3	9.9	1.1	2.3	0.2	1.4	0.2	24.1	14,688	1.47	21.5	12.6
	146.0	147.0	3859	8341	888	2939	203	32.7	54.1	3.7	11.5	1.2	2.4	0.3	1.5	0.2	25.4	16,362	1.64	30.1	11.1
KGKRC023	0.0	1.0	8163	16952	1861	5610	426	70.9	123.3	9.0	25.4	2.5	3.8	0.4	1.7	0.3	53.3	33,302	3.33	108.5	5.9
	1.0	2.0	12608	26656	2924	9506	663	106.9	182.1	12.6	37.3	3.5	5.7	0.5	2.7	0.4	78.7	52,788	5.28	141.5	8.4
	2.0	3.0	6732	13820	1414	4596	349	57.1	101.8	7.7	24.5	2.7	5.2	0.5	3.0	0.4	62.2	27,175	2.72	69.7	6
	3.0	4.0	4926	10196	1044	3394	255	42.5	73.0	5.1	14.1	1.5	2.5	0.3	1.5	0.3	34.3	19,990	2.00	48.4	3.8
	4.0	5.0	6486	13267	1341	4316	318	50.6	86.0	5.5	15.2	1.5	2.5	0.2	1.0	0.2	31.8	25,921	2.59	59	4
	5.0	6.0	5078	10147	1002	3114	204	32.0	49.5	3.2	9.0	0.9	1.8	0.2	0.9	0.2	19.1	19,661	1.97	25.3	7.6
	6.0	7.0	6544	12530	1226	3767	250	40.5	68.5	5.0	15.0	1.5	2.7	0.2	1.1	0.1	30.5	24,483	2.45	38.5	6.5
	7.0	8.0	4715	9225	901	2764	193	31.8	54.2	4.1	13.8	1.7	3.2	0.4	1.9	0.3	43.2	17,953	1.80	34.6	5.6
	8.0	9.0	9394	17382	1728	4992	337	51.6	86.0	6.1	19.5	2.0	3.0	0.3	1.5	0.2	47.0	34,051	3.41	53.7	1.7
	9.0	10.0	9676	17443	1691	4701	288	42.8	69.0	4.3	12.9	1.3	2.2	0.2	0.9	0.1	30.5	33,963	3.40	35.8	4.7
	10.0	11.0	10391	18610	1830	5144	326	51.6	82.0	5.3	14.9	1.7	2.9	0.3	1.3	0.2	38.1	36,500	3.65	39	5.7
	11.0	12.0	10063	17935	1752	4829	304	46.1	71.5	4.6	13.8	1.5	2.5	0.2	1.1	0.1	34.3	35,058	3.51	25.8	1.9
	12.0	13.0	8808	16399	1673	4782	324	54.1	90.9	6.6	21.8	2.9	5.0	0.5	2.3	0.3	66.0	32,236	3.22	34.1	6.3
	13.0	14.0	9160	19777	2259	7605	574	90.1	138.9	8.1	24.2	2.5	3.9	0.3	1.7	0.3	53.3	39,698	3.97	84.8	10.1
	14.0	15.0	3143	6732	710	2327	177	28.3	48.0	3.3	11.0	1.2	2.1	0.2	1.3	0.2	27.9	13,213	1.32	31.2	8.4
	15.0	16.0	3929	8132	848	2741	195	29.6	46.9	3.2	9.5	1.1	1.8	0.2	0.9	0.2	24.1	15,963	1.60	24.7	8
	16.0	17.0	7295	14311	1534	4607	314	48.9	77.5	4.8	13.5	1.4	2.3	0.2	1.0	0.2	30.5	28,242	2.82	34.9	10
	17.0	18.0	9418	18795	1969	6077	397	62.3	100.5	6.6	21.0	2.7	4.7	0.5	2.6	0.4	61.0	36,917	3.69	46.2	17.7
	18.0	19.0	7764	15969	1722	5249	392	63.0	107.3	7.2	23.3	2.8	5.6	0.6	3.2	0.4	69.8	31,379	3.14	63.7	10.3
	19.0	20.0	6239	12837	1371	4187	315	49.8	87.0	6.1	20.1	2.5	4.1	0.5	2.7	0.4	54.6	25,178	2.52	52	12.9
	20.0	21.0	6755	14004	1522	4619	336	53.7	87.0	5.5	16.3	2.0	3.7	0.4	2.1	0.3	44.5	27,452	2.75	34.7	10.7
21.0	22.0	8292	15294	1522	4316	284	44.5	73.1	4.8	13.4	1.5	2.5	0.2	1.1	0.2	33.0	29,882	2.99	30.9	4.3	
22.0	23.0	10121	18057	1752	4852	320	52.1	89.7	6.8	21.1	2.3	3.7	0.3	1.3	0.2	48.3	35,329	3.53	54.1	2.4	
23.0	24.0	5665	11215	1108	3429	238	36.9	62.5	4.0	12.7	1.3	2.3	0.2	1.1	0.2	30.5	21,807	2.18	34.7	6.8	
24.0	25.0	4269	8562	855	2706	191	30.7	49.0	3.4	10.7	1.2	1.9	0.2	0.9	0.1	26.7	16,708	1.67	31.6	7	
25.0	26.0	8796	18242	1975	6182	428	66.7	109.0	6.5	18.9	1.9	2.6	0.2	1.3	0.1	38.1	35,868	3.59	78.8	4.3	
26.0	27.0	6955	14741	1595	4887	353	54.4	85.8	5.3	14.6	1.5	2.3	0.2	1.0	0.1	30.5	28,726	2.87	48.1	4.7	
27.0	28.0	5618	12075	1341	4024	289	46.6	74.8	4.7	12.7	1.3	2.1	0.2	0.9	0.1	26.7	23,517	2.35	46.3	4.6	
KGKRC024	0.0	1.0	3518	7653	859	2998	281	50.7	92.8	7.1	25.3	3.4	7.1	0.8	5.4	0.7	92.7	15,595	1.56	55.8	11.2
	1.0	2.0	4034	8673	913	3079	259	42.5	71.0	4.4	13.8	1.5	2.7	0.2	1.3	0.2	34.3	17,130	1.71	40.7	6.3
	2.0	3.0	2498	5491	613	2193	223	40.4	73.4	5.1	17.2	2.3	4.6	0.6	3.4	0.6	61.0	11,226	1.12	50.8	5.2
	3.0	4.0	1970	4594	551	2129	238	41.1	71.6	4.9	16.1	2.0	4.4	0.6	3.4	0.6	54.6	9,681	0.97	52.3	6.5
	4.0	5.0	1994	4717	576	2333	291	51.4	89.8	5.7	17.0	2.0	4.0	0.5	2.6	0.4	53.3	10,138	1.01	62.2	7.9
	5.0	6.0	2721	6375	741	2683	252	41.3	70.5	4.6	13.1	1.5	2.7	0.3	1.4	0.2	35.6	12,943	1.29	41.8	6.2
	6.0	7.0	2709	5909	658	2356	240	42.5	79.6	6.1	21.6	3.0	6.6	0.8	4.3	0.7	86.4	12,124	1.21	53.4	7.9
7.0	8.0	3647	7678	825	2811	232	36.5	61.6	3.9	11.5	1.3	2.4	0.3	1.4	0.2	29.2	15,341	1.53	38.8	9.3	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	8.0	9.0	1548	3378	362	1289	146	29.8	66.3	6.7	28.4	4.3	8.9	1.1	5.5	0.8	119.4	6,994	0.70	39.3	7.1
	9.0	10.0	1148	2825	353	1277	167	37.3	79.2	7.7	32.8	4.9	10.8	1.3	6.7	0.9	132.1	6,084	0.61	44.4	7
	10.0	11.0	1513	3587	435	1499	175	36.5	80.6	7.9	33.3	4.9	11.4	1.3	7.3	0.8	139.7	7,532	0.75	43	9.9
	11.0	12.0	1853	3931	453	1499	162	36.2	73.3	7.2	29.7	4.4	9.2	1.0	6.0	0.6	115.6	8,181	0.82	43.9	12
	12.0	13.0	1448	3292	398	1341	152	32.8	67.9	6.8	27.0	4.0	9.2	1.0	5.7	0.7	106.7	6,893	0.69	45.2	9.4
	13.0	14.0	1360	2813	318	1028	105	21.4	40.5	3.8	15.3	2.4	6.0	0.8	4.9	0.6	64.8	5,784	0.58	36.9	7
	14.0	15.0	1724	3685	419	1411	164	35.3	68.5	6.5	26.9	4.0	8.5	1.0	5.6	0.8	109.2	7,670	0.77	56	7.4
	15.0	16.0	1425	3120	381	1341	176	39.6	79.0	8.1	34.3	4.9	10.5	1.2	6.4	0.9	137.2	6,765	0.68	64.9	5.6
	16.0	17.0	1355	3120	390	1417	186	40.6	79.8	7.3	28.6	3.7	8.9	1.0	5.9	0.7	109.2	6,754	0.68	66.5	7.4
	17.0	18.0	4668	8574	938	2963	293	58.9	110.2	8.6	27.9	3.5	7.1	0.7	4.1	0.6	92.7	17,750	1.77	72.8	5
	18.0	19.0	5184	9508	1077	3313	292	54.4	94.1	6.3	19.1	2.2	3.4	0.4	2.2	0.3	49.5	19,605	1.96	56.9	4.9
	19.0	20.0	2199	4864	574	1884	175	32.0	53.5	3.8	12.1	1.4	2.6	0.3	1.7	0.2	35.6	9,839	0.98	33	6.4
	20.0	21.0	2357	5147	608	1995	181	33.5	54.8	3.9	11.0	1.2	2.3	0.2	1.4	0.2	26.7	10,423	1.04	33.1	6
	21.0	22.0	2393	5479	637	2059	174	31.2	51.8	3.3	10.0	1.2	1.9	0.2	1.0	0.1	21.6	10,863	1.09	29.9	5.9
	22.0	23.0	2592	5810	683	2193	182	31.8	49.2	3.4	9.6	1.1	1.9	0.2	0.9	0.1	20.3	11,578	1.16	28.2	5.6
	23.0	24.0	2211	4901	567	1860	173	31.4	52.4	3.6	11.0	1.3	2.3	0.2	1.0	0.2	27.9	9,843	0.98	32.8	5.1
	24.0	25.0	2152	4496	530	1802	196	40.3	76.2	6.5	22.0	2.9	5.5	0.6	3.9	0.4	74.9	9,410	0.94	71.4	5.1
	25.0	26.0	1572	3243	366	1225	145	32.5	65.1	6.1	23.6	3.5	7.1	0.8	5.5	0.7	90.2	6,785	0.68	56.9	5.2
	26.0	27.0	1824	3894	452	1476	145	30.6	55.6	5.0	18.7	2.8	6.4	0.7	4.7	0.6	76.2	7,991	0.80	40.3	4.3
	27.0	28.0	1976	4103	471	1563	185	39.7	83.1	8.0	33.2	4.8	11.0	1.2	6.8	0.8	129.5	8,616	0.86	53	6.1
	28.0	29.0	4539	8230	904	2788	246	46.7	79.2	5.9	19.6	2.3	4.5	0.5	3.0	0.4	54.6	16,923	1.69	54.1	7.2
	29.0	30.0	7447	13942	1595	4981	413	75.7	125.6	8.2	23.0	2.3	3.5	0.3	1.7	0.3	49.5	28,668	2.87	70.8	11
	30.0	31.0	2205	4766	535	1709	151	25.9	44.5	3.5	10.3	1.4	2.5	0.3	1.6	0.2	30.5	9,486	0.95	28.9	10.2
	31.0	32.0	2082	4496	511	1633	148	29.1	52.8	4.3	16.0	1.9	3.9	0.5	2.7	0.4	49.5	9,031	0.90	35.3	11.5
	32.0	33.0	1601	3292	373	1242	141	31.7	67.3	6.2	25.5	3.7	7.6	0.9	4.6	0.6	99.1	6,897	0.69	56.9	6.5
	33.0	34.0	2217	4840	533	1755	157	28.7	50.7	4.1	14.5	2.0	3.8	0.5	2.9	0.3	52.1	9,661	0.97	36.2	5.2
	34.0	35.0	1929	4324	477	1569	139	25.8	45.8	3.9	12.3	1.9	3.4	0.4	2.4	0.3	48.3	8,583	0.86	30.1	4.4
	35.0	36.0	2152	4766	527	1755	171	31.8	56.5	4.4	14.2	1.8	3.7	0.4	2.2	0.3	48.3	9,535	0.95	38.6	5.9
	36.0	37.0	1677	3501	379	1318	150	30.8	62.9	6.0	24.0	3.5	7.2	0.8	4.3	0.6	92.7	7,259	0.73	55.8	5.1
	37.0	38.0	2316	5319	600	2070	188	32.0	51.5	3.5	9.6	1.2	2.1	0.2	1.6	0.2	25.4	10,622	1.06	33	7.5
	38.0	39.0	1794	4127	483	1726	172	31.2	52.3	3.6	11.4	1.5	2.6	0.3	2.3	0.3	38.1	8,446	0.84	37.2	9.5
	39.0	40.0	2017	4803	547	1977	204	38.6	70.7	4.5	13.0	1.5	3.0	0.4	2.4	0.4	41.9	9,725	0.97	39.9	10
	40.0	41.0	2005	4754	536	1936	219	43.2	85.0	6.2	22.7	2.9	5.8	0.6	4.2	0.6	74.9	9,697	0.97	41.5	9.2
	41.0	42.0	2897	6707	768	2694	246	42.4	72.4	4.4	12.4	1.4	2.3	0.2	1.5	0.2	31.8	13,481	1.35	37.8	9.3
	42.0	43.0	3120	6830	773	2694	239	39.3	68.0	3.8	10.6	1.2	2.1	0.2	1.1	0.1	24.1	13,807	1.38	33.1	8.4
	43.0	44.0	2592	5466	620	2152	221	41.5	81.6	5.9	20.8	2.7	5.5	0.6	3.4	0.6	69.8	11,284	1.13	48.8	5.9
	44.0	45.0	2955	6326	724	2543	261	47.6	88.9	6.2	21.4	2.7	5.4	0.5	2.7	0.4	71.1	13,056	1.31	49.8	6.1
	45.0	46.0	3026	6216	694	2414	262	49.2	97.3	6.8	24.5	3.0	5.8	0.6	3.5	0.4	81.3	12,884	1.29	48.4	5.1
	46.0	47.0	2211	5196	593	2117	216	40.6	82.8	6.6	25.5	3.4	7.4	0.9	5.4	0.7	100.3	10,606	1.06	59	7.5
	47.0	48.0	1701	4005	462	1709	192	36.4	72.8	5.6	24.0	3.4	7.3	0.7	4.3	0.6	95.2	8,318	0.83	61.9	8
	48.0	49.0	1923	4521	529	1913	219	41.9	75.8	4.6	13.9	1.6	3.3	0.4	2.5	0.4	45.7	9,295	0.93	52	9
	49.0	50.0	1994	4582	528	1855	200	37.9	77.1	6.2	26.2	3.8	8.4	1.0	5.2	0.7	110.5	9,435	0.94	53.7	9.2
	50.0	51.0	1660	3697	418	1575	211	43.8	94.4	8.4	35.2	5.0	11.3	1.1	6.6	0.8	146.0	7,913	0.79	70.9	6.9

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	51.0	52.0	1531	3366	388	1400	186	40.5	81.0	7.8	29.2	4.3	8.9	0.9	5.1	0.7	116.8	7,165	0.72	83.6	5
	52.0	53.0	1789	3919	436	1487	158	31.5	59.9	5.3	19.5	2.8	5.6	0.7	3.8	0.4	77.5	7,996	0.80	48.2	5
	53.0	54.0	1290	2764	309	1114	148	33.5	71.0	7.6	31.9	5.3	11.8	1.2	6.8	1.0	142.2	5,937	0.59	60.5	5.9
	54.0	55.0	1308	2948	343	1225	146	31.0	63.7	6.2	25.8	3.5	7.1	0.8	4.6	0.6	97.8	6,211	0.62	40.8	5.2
	55.0	56.0	2041	4643	527	1831	201	41.3	79.9	7.2	27.2	4.1	9.2	1.0	6.4	0.8	114.3	9,535	0.95	53.4	5.5
	56.0	57.0	1160	2616	295	1110	161	35.1	79.6	7.4	32.1	4.7	11.0	1.2	7.3	1.0	142.2	5,664	0.57	66.9	6.2
	57.0	58.0	1372	3096	349	1283	176	39.3	88.9	8.1	35.0	4.9	11.1	1.2	6.7	0.8	144.8	6,616	0.66	60.5	5.2
	58.0	59.0	1466	3329	371	1283	135	26.9	53.3	4.1	16.9	2.1	4.7	0.5	3.2	0.4	58.4	6,754	0.68	32.3	5.7
	59.0	60.0	13487	24507	2610	7372	565	98.9	175.2	11.1	31.0	3.0	4.8	0.4	1.8	0.3	67.3	48,934	4.89	122	8.3
	60.0	61.0	2568	5344	574	1954	195	35.7	67.4	5.0	18.6	2.5	4.9	0.5	2.7	0.3	63.5	10,836	1.08	41.4	8.4
	61.0	62.0	2176	4459	463	1499	142	27.4	54.8	4.3	16.2	2.1	4.7	0.5	3.1	0.4	57.2	8,909	0.89	28.2	7.9
	62.0	63.0	1170	2604	285	1003	127	29.9	69.3	6.5	31.2	4.5	10.4	1.1	6.5	0.9	128.3	5,478	0.55	49	12.7
	63.0	64.0	1777	4017	443	1575	187	37.6	79.4	6.6	25.6	3.4	7.2	0.7	4.2	0.5	92.7	8,257	0.83	43.1	5.3
	64.0	65.0	1800	3919	426	1528	205	43.5	96.9	8.6	35.0	4.9	10.8	1.2	7.0	1.0	141.0	8,228	0.82	77.8	5.8
	65.0	66.0	1724	4091	462	1627	171	32.8	68.7	5.6	22.5	3.0	6.1	0.7	3.4	0.4	85.1	8,303	0.83	38	4.3
	66.0	67.0	1970	4471	507	1814	206	40.6	84.4	6.9	28.4	3.8	8.5	0.9	5.5	0.7	110.5	9,259	0.93	55.2	7.6
	67.0	68.0	2627	5405	600	2105	237	47.0	96.2	7.9	30.4	4.0	8.7	1.0	5.5	0.7	111.8	11,288	1.13	62.4	6.5
	68.0	69.0	2088	4312	552	2018	237	46.7	92.0	8.7	34.8	5.3	12.1	1.4	8.5	1.1	144.8	9,561	0.96	81.7	6.5
	69.0	70.0	2369	4889	588	2053	224	45.2	86.8	8.3	31.8	4.5	9.7	1.0	5.5	0.7	118.1	10,435	1.04	70.5	6.6
	70.0	71.0	2199	4533	546	1919	210	42.2	82.0	7.6	27.4	4.2	8.6	1.3	5.6	1.1	95.2	9,682	0.97	63.8	6.5
	71.0	72.0	2463	5049	620	2170	228	44.1	81.5	6.9	23.8	3.0	6.3	0.6	3.4	0.5	76.2	10,776	1.08	66.6	5.7
	72.0	73.0	2211	4312	523	1849	201	41.5	82.2	7.5	28.7	3.8	8.2	0.9	5.4	0.8	99.1	9,373	0.94	68.3	6.5
	73.0	74.0	2281	4742	573	1971	190	36.9	69.3	5.8	22.7	3.2	6.9	0.7	4.7	0.6	81.3	9,988	1.00	52.9	6.4
	74.0	75.0	2170	4275	513	1785	191	38.2	78.4	7.3	30.4	4.4	9.6	1.1	7.0	0.9	113.0	9,224	0.92	52.6	5.9
	75.0	76.0	2791	5933	742	2578	226	38.8	63.3	4.5	14.1	1.7	3.5	0.4	2.4	0.3	41.9	12,441	1.24	32.8	4
	76.0	77.0	3999	8525	1021	3523	318	55.9	89.8	5.3	14.4	1.5	2.3	0.2	1.1	0.2	30.5	17,587	1.76	56.5	5.6
	77.0	78.0	6533	13820	1649	5575	506	87.9	139.5	8.3	20.5	2.0	3.2	0.3	1.4	0.2	40.6	28,386	2.84	88.8	6.2
	78.0	79.0	4351	8881	1078	3674	353	65.8	110.2	8.0	24.5	3.0	6.2	0.6	3.2	0.5	73.7	18,632	1.86	78	7.1
	79.0	80.0	2920	5958	712	2449	252	50.1	95.7	9.0	33.4	4.8	10.1	1.1	6.3	0.8	125.7	12,628	1.26	79.6	7
	80.0	81.0	2651	5331	649	2234	220	41.5	75.7	6.2	21.6	3.0	6.4	0.7	4.2	0.6	78.7	11,323	1.13	60.9	5.9
	81.0	82.0	3178	6461	766	2578	237	44.7	77.0	5.8	19.7	2.5	5.3	0.5	3.0	0.4	63.5	13,442	1.34	54.6	6.6
	82.0	83.0	2756	5393	625	2030	161	27.8	44.6	3.0	9.1	1.1	1.7	0.3	1.3	0.2	20.3	11,073	1.11	24.3	8
	83.0	84.0	3847	7592	872	2858	241	41.2	67.8	4.6	13.0	1.5	2.6	0.4	1.6	0.3	29.2	15,572	1.56	39.9	7.6
	84.0	85.0	8468	15908	1776	5529	449	75.4	116.4	7.3	18.6	1.8	3.0	0.3	1.4	0.2	36.8	32,390	3.24	65	6
	85.0	86.0	6685	12775	1414	4514	358	58.9	90.8	5.5	14.7	1.4	2.2	0.2	1.0	0.1	26.7	25,948	2.59	48.6	5.2
	86.0	87.0	5454	10601	1177	3744	276	45.3	71.5	4.7	13.0	1.3	2.3	0.2	1.0	0.2	24.1	21,415	2.14	38.3	6.6
	87.0	88.0	8690	16952	1987	6275	496	83.3	130.8	8.1	20.5	2.1	3.1	0.2	1.1	0.2	40.6	34,691	3.47	73.9	4.9
	88.0	89.0	5547	10798	1232	3896	306	51.3	80.8	5.0	14.0	1.5	2.6	0.3	1.4	0.2	30.5	21,967	2.20	47.1	5.3
	89.0	90.0	3307	6375	742	2473	213	38.1	64.2	4.3	13.9	1.5	2.9	0.3	1.5	0.3	38.1	13,275	1.33	43.6	7.7
	90.0	91.0	3636	7420	888	3021	264	44.9	73.8	4.6	12.5	1.4	2.4	0.2	1.0	0.2	26.7	15,396	1.54	39.3	5.7
	91.0	92.0	5325	10589	1250	4071	333	56.3	91.4	6.0	16.5	1.8	2.7	0.2	1.1	0.2	35.6	21,779	2.18	50.6	6.9
	92.0	93.0	3518	7297	870	2951	260	44.1	70.5	4.5	13.7	1.5	2.7	0.3	1.8	0.3	34.3	15,069	1.51	49	5.6
	93.0	94.0	3413	7297	904	3126	278	47.0	75.3	4.8	14.0	1.6	2.7	0.3	1.4	0.2	34.3	15,199	1.52	47.1	5.8

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	94.0	95.0	3331	6289	741	2461	207	35.0	57.4	4.0	12.4	1.3	2.4	0.2	1.0	0.2	30.5	13,173	1.32	35	5.1	
	95.0	96.0	4269	8550	1028	3453	295	50.5	81.6	5.2	15.6	1.8	3.2	0.3	1.5	0.2	38.1	17,792	1.78	52.5	6.2	
	96.0	97.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	97.0	98.0	6345	11989	1359	4292	335	56.7	89.7	5.8	15.3	1.6	2.4	0.3	1.3	0.2	31.8	24,526	2.45	53.8	7	
	98.0	99.0	5242	9950	1033	3313	262	44.2	70.9	4.5	12.6	1.4	2.6	0.2	1.3	0.2	31.8	19,970	2.00	41.4	5.1	
	99.0	100.0	9242	16952	1800	5435	416	66.6	104.5	6.3	16.4	1.6	2.4	0.3	0.9	0.2	30.5	34,075	3.41	51	3.8	
	100.0	101.0	5911	11658	1238	4094	353	59.9	98.0	6.3	17.0	1.7	2.9	0.3	1.3	0.2	38.1	23,479	2.35	57.8	4.1	
	101.0	102.0	5395	10577	1121	3721	317	52.3	89.9	6.5	18.8	2.0	3.8	0.4	1.9	0.3	48.3	21,354	2.14	54.2	4.6	
	102.0	103.0	4421	8415	890	2928	256	45.9	80.0	5.9	19.3	2.4	4.6	0.5	2.7	0.4	59.7	17,132	1.71	50.1	7.3	
	103.0	104.0	6427	13144	1462	4887	438	76.1	131.4	9.5	31.2	3.6	7.4	0.7	4.3	0.5	97.8	26,721	2.67	82.1	9.3	
	104.0	105.0	7178	14065	1589	4911	392	63.7	103.0	6.3	18.9	1.9	3.2	0.3	1.4	0.2	41.9	28,375	2.84	61.3	4.6	
	105.0	106.0	4855	9532	1028	3441	308	54.5	92.3	6.4	19.1	2.1	4.2	0.4	2.3	0.3	55.9	19,403	1.94	65.3	4.8	
	106.0	107.0	5606	11215	1188	3837	302	50.4	83.7	5.8	16.2	1.7	2.7	0.3	1.1	0.2	36.8	22,347	2.23	52.3	1.9	
	107.0	108.0	4210	8574	1009	3254	252	39.1	61.9	3.6	10.8	1.1	1.9	0.1	0.8	0.1	22.9	17,442	1.74	32.2	2.7	
	108.0	109.0	4504	9041	1068	3441	274	41.5	65.5	3.9	11.0	1.1	1.9	0.1	1.0	0.1	24.1	18,477	1.85	36.3	4.5	
	109.0	110.0	4633	9606	1120	3581	277	41.7	64.9	3.8	10.4	1.1	1.8	0.1	0.9	-0.1	22.9	19,364	1.94	32.8	5.1	
	110.0	111.0	4058	8439	987	3254	291	47.4	77.1	5.0	13.9	1.6	2.5	0.2	1.1	0.1	33.0	17,211	1.72	48.6	5.2	
	111.0	112.0	4105	8562	1010	3348	317	53.5	89.8	6.0	19.5	2.3	4.2	0.4	2.5	0.3	57.2	17,577	1.76	56.2	6.4	
	112.0	113.0	4750	9668	1099	3546	295	47.5	75.3	4.7	13.2	1.6	2.5	0.2	1.3	0.1	30.5	19,534	1.95	42.2	5.8	
	113.0	114.0	4937	9839	1122	3581	289	45.7	72.5	4.4	11.8	1.3	1.9	0.1	0.8	0.1	24.1	19,932	1.99	38	6.5	
	114.0	115.0	4902	9876	1136	3604	283	44.7	72.0	4.4	12.3	1.2	2.3	0.1	0.9	0.1	25.4	19,965	2.00	40.8	6.6	
	115.0	116.0	5137	10269	1172	3767	308	48.6	78.5	4.9	14.7	1.5	2.7	0.2	1.7	0.2	35.6	20,843	2.08	44.2	6.6	
	116.0	117.0	5993	11535	1365	4211	347	57.2	93.8	6.1	17.6	1.9	3.1	0.2	1.1	0.1	39.4	23,671	2.37	58	4.7	
	117.0	118.0	4375	8992	1096	3744	363	61.3	100.2	6.4	18.3	2.0	3.3	0.3	1.6	0.2	45.7	18,809	1.88	69.8	4.4	
	118.0	119.0	5852	11228	1250	3942	326	52.2	80.6	5.0	15.0	1.5	2.5	0.1	0.8	0.1	31.8	22,788	2.28	50.4	4	
	119.0	120.0	3730	7346	865	2858	270	47.9	84.3	6.3	21.1	3.0	5.7	0.6	3.3	0.5	76.2	15,317	1.53	53.6	5	
	120.0	121.0	5981	12223	1432	4467	358	55.9	89.0	5.5	16.4	1.8	2.6	0.1	1.0	0.1	38.1	24,672	2.47	49.8	2.8	
	121.0	122.0	4316	8599	1003	3313	305	51.6	87.6	6.3	20.7	2.5	4.8	0.4	2.9	0.3	64.8	17,777	1.78	55.9	6.3	
	122.0	123.0	5371	10048	1098	3348	249	39.7	63.3	4.0	13.1	1.6	2.7	0.2	1.4	0.1	38.1	20,279	2.03	37.2	3.6	
	123.0	124.0	5278	9754	1055	3184	233	34.9	55.1	3.5	10.2	1.2	1.9	0.1	0.9	0.1	25.4	19,636	1.96	29.6	3.8	
	124.0	125.0	4398	8157	930	2916	235	38.3	62.4	4.1	11.9	1.4	2.5	0.2	1.4	0.2	31.8	16,790	1.68	36.8	5.3	
	125.0	126.0	4867	9299	1044	3313	286	46.7	79.1	5.3	16.5	2.0	3.2	0.2	1.8	0.2	41.9	19,006	1.90	49.7	4.8	
	126.0	127.0	8069	16583	1716	5097	376	63.3	102.8	6.7	19.2	2.0	3.2	0.3	1.6	0.2	44.5	32,085	3.21	65.3	4.3	
	127.0	128.0	4832	10245	1083	3639	314	53.7	89.7	5.9	17.6	1.9	3.1	0.4	1.6	0.3	43.2	20,330	2.03	55.1	4.6	
	128.0	129.0	5184	10405	1069	3511	299	50.7	85.8	6.0	16.8	2.0	3.2	0.3	1.5	0.2	43.2	20,677	2.07	55.7	4.9	
	129.0	130.0	4808	9790	1004	3301	281	47.6	81.6	5.8	17.3	2.0	3.3	0.3	1.6	0.2	44.5	19,389	1.94	53.5	5	
	130.0	131.0	5090	10147	1023	3371	290	49.0	84.6	5.9	18.5	2.4	4.4	0.5	2.6	0.3	61.0	20,150	2.01	56.7	4.2	
	131.0	132.0	4175	8513	876	2904	253	43.3	75.0	5.4	18.4	2.2	4.0	0.4	2.2	0.3	55.9	16,928	1.69	50.3	5.1	
	132.0	133.0	4093	8537	890	2986	266	46.2	78.5	5.6	17.7	2.3	4.2	0.5	2.3	0.3	57.2	16,987	1.70	49.8	4.9	
	133.0	134.0	3389	7076	743	2496	230	40.4	72.2	5.4	18.6	2.3	4.4	0.5	2.7	0.4	62.2	14,143	1.41	49.8	4.8	
	134.0	135.0	4163	8488	894	2986	266	46.9	79.6	5.6	16.9	2.0	3.5	0.4	1.9	0.3	48.3	17,003	1.70	49	5.3	
	135.0	136.0	4128	8648	900	2998	268	46.7	80.2	5.8	18.5	2.3	4.1	0.5	2.4	0.3	55.9	17,158	1.72	51.2	5.1	
	136.0	137.0	4621	9410	970	3173	271	45.4	77.7	5.4	17.8	2.1	3.8	0.4	1.9	0.3	50.8	18,650	1.87	49.1	4.3	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	137.0	138.0	4961	9680	954	3033	235	39.8	64.3	4.7	14.0	1.7	3.0	0.3	1.5	0.3	41.9	19,035	1.90	40.1	5.5
	138.0	139.0	4504	9274	952	3173	273	44.9	75.2	5.3	15.6	1.9	3.5	0.4	1.9	0.3	47.0	18,371	1.84	46.3	4.9
	139.0	140.0	4386	8844	910	3044	269	46.7	80.0	5.9	18.1	2.3	4.2	0.5	2.4	0.4	58.4	17,673	1.77	51.7	5
	140.0	141.0	4292	8783	913	3044	264	45.9	78.7	5.9	18.6	2.3	4.4	0.5	2.5	0.4	59.7	17,516	1.75	50.7	5.3
	141.0	142.0	4328	8943	924	3068	253	42.3	69.5	4.8	14.1	1.7	3.0	0.3	1.6	0.2	40.6	17,693	1.77	40.7	6.8
	142.0	143.0	5923	12137	1208	3791	268	43.7	72.2	4.8	14.7	1.7	2.7	0.3	1.4	0.3	36.8	23,504	2.35	42.1	3.5
	143.0	144.0	4808	9508	962	3114	252	40.8	68.6	4.7	13.9	1.7	2.6	0.3	1.5	0.2	36.8	18,815	1.88	41	4.6
	144.0	145.0	5196	10257	1022	3278	257	42.4	70.0	4.7	13.9	1.7	3.3	0.3	1.8	0.2	40.6	20,189	2.02	40.3	4.7
	145.0	146.0	4046	8230	855	2881	262	45.0	83.3	6.5	22.0	2.8	5.7	0.6	3.3	0.5	76.2	16,521	1.65	54.8	4.1
	146.0	147.0	4163	8525	878	2928	262	45.9	82.2	6.5	21.8	3.0	5.6	0.7	3.4	0.5	76.2	17,002	1.70	55	5.6
	147.0	148.0	4375	8980	933	3091	269	46.0	77.6	5.5	17.2	2.0	3.4	0.4	2.1	0.3	53.3	17,855	1.79	48.6	6.3
	148.0	149.0	4914	9729	998	3243	275	47.6	80.3	5.7	18.1	2.2	4.2	0.5	2.4	0.3	57.2	19,377	1.94	50.8	5.2
	149.0	150.0	6439	11928	1143	3581	282	46.9	79.1	5.4	16.3	2.0	3.1	0.3	1.6	0.2	45.7	23,573	2.36	46.4	4.3
	150.0	151.0	3847	7960	834	2799	249	43.0	70.9	4.6	13.8	1.6	3.0	0.3	1.6	0.2	40.6	15,869	1.59	43.9	5.2
	151.0	152.0	4844	9839	1010	3336	290	49.1	84.1	6.0	18.4	2.3	4.0	0.4	2.3	0.3	55.9	19,542	1.95	52.8	4.9
	152.0	153.0	4891	10097	1041	3464	297	49.6	86.1	6.2	20.5	2.5	4.8	0.5	2.3	0.3	62.2	20,026	2.00	52.7	6.2
	153.0	154.0	3859	7813	809	2729	248	44.6	82.0	6.8	24.2	3.2	6.6	0.8	4.1	0.6	87.6	15,719	1.57	51.3	7
	154.0	155.0	3413	6940	723	2449	227	42.4	76.5	6.4	23.0	3.2	6.3	0.7	3.8	0.6	85.1	14,000	1.40	51.5	5.4
	155.0	156.0	3929	8144	852	2858	254	44.2	76.8	5.5	17.5	2.1	3.9	0.4	2.1	0.2	53.3	16,243	1.62	48.8	5.1
	156.0	157.0	3120	6818	733	2379	234	43.3	79.6	6.2	19.5	2.5	5.2	0.5	3.1	0.3	63.5	13,508	1.35	51.8	5.1
	157.0	158.0	2920	6449	700	2298	232	42.7	80.8	6.1	20.4	2.7	5.6	0.6	3.1	0.4	68.6	12,830	1.28	56.6	5.1
	158.0	159.0	2522	6007	667	2257	227	41.0	70.1	5.2	15.0	2.0	3.2	0.3	1.7	0.2	41.9	11,860	1.19	47.1	3.1
	159.0	160.0	2897	6523	708	2356	242	44.8	80.9	5.9	18.1	2.4	4.6	0.5	2.6	0.3	54.6	12,941	1.29	49.5	4.4
	160.0	161.0	4304	9336	987	3068	262	46.8	82.5	6.2	16.8	2.2	4.4	0.4	2.4	0.3	50.8	18,169	1.82	52.4	4.5
	161.0	162.0	3565	7137	716	2263	202	38.3	73.5	6.0	21.0	3.0	6.4	0.8	4.1	0.5	77.5	14,115	1.41	46.4	5.9
	162.0	163.0	4128	8623	898	2811	241	41.9	72.0	5.2	14.0	1.8	3.1	0.3	1.5	0.2	39.4	16,881	1.69	38.1	4.4
	163.0	164.0	4222	8562	870	2706	239	41.7	74.3	5.1	14.5	1.7	3.2	0.3	1.9	0.2	39.4	16,781	1.68	40.5	4.9
	164.0	165.0	4363	8734	872	2694	239	43.1	80.9	6.3	20.7	2.7	5.5	0.6	3.2	0.4	67.3	17,133	1.71	44.9	6.1
	165.0	166.0	3835	8071	837	2659	249	45.7	85.6	7.0	23.4	3.3	7.4	0.7	4.1	0.5	86.4	15,916	1.59	57.2	7.3
	166.0	167.0	3120	6572	687	2205	212	39.6	72.6	6.0	18.9	2.7	6.0	0.6	3.3	0.4	66.0	13,011	1.30	46	4.9
	167.0	168.0	3213	6940	737	2379	241	45.3	86.3	6.7	20.7	2.7	5.4	0.5	3.5	0.4	64.8	13,748	1.37	50.3	6.4
	168.0	169.0	3108	6633	712	2327	234	43.0	81.8	6.6	21.8	3.0	6.3	0.7	4.3	0.5	77.5	13,260	1.33	49.7	7.4
<b>KGKRC025</b>	0.0	1.0	7506	15294	1577	4794	343	53.0	73.5	4.4	14.6	1.6	2.5	0.3	1.6	0.2	36.8	29,702	2.97	47.6	5.2
	1.0	2.0	5993	12137	1207	3884	269	40.9	56.0	3.3	11.0	1.2	1.9	0.2	1.1	0.2	26.7	23,632	2.36	35.6	6.4
	2.0	3.0	2920	5614	534	1680	122	20.7	32.0	2.7	10.0	1.3	2.6	0.3	1.5	0.2	33.0	10,974	1.10	21.6	7.2
	3.0	4.0	13663	23033	2126	6077	449	78.5	127.9	10.0	31.5	3.1	4.9	0.4	1.8	0.2	68.6	45,675	4.57	95.8	7.1
	4.0	5.0	2838	5810	578	1890	141	22.9	33.7	2.1	7.7	0.9	1.7	0.2	1.1	0.2	20.3	11,347	1.13	14.9	10.9
	5.0	6.0	3038	5859	557	1779	139	25.6	43.6	3.5	13.3	1.7	3.4	0.4	1.9	0.2	41.9	11,507	1.15	15.8	11.6
	6.0	7.0	3213	6142	578	1825	129	20.8	31.1	2.3	8.4	1.0	2.1	0.2	1.1	0.2	25.4	11,980	1.20	16.2	8.3
	7.0	8.0	4351	7825	720	2193	147	24.0	37.0	3.1	10.3	1.2	2.1	0.2	1.3	0.2	26.7	15,342	1.53	25.8	7.9
	8.0	9.0	2862	5086	457	1376	90	14.5	21.8	1.9	7.0	0.9	1.6	0.2	0.8	0.1	20.3	9,939	0.99	14.9	8
	9.0	10.0	2967	5086	445	1301	85	13.7	21.9	1.9	7.1	0.9	1.5	0.2	0.9	0.1	21.6	9,952	1.00	14.6	7



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	10.0	11.0	2287	3943	346	1030	65	10.1	15.4	1.1	4.5	0.6	1.1	0.1	0.8	0.1	14.0	7,718	0.77	8.5	9.4
	11.0	12.0	2340	3808	318	923	58	9.8	15.0	1.1	4.4	0.6	1.1	0.1	0.9	0.1	14.0	7,494	0.75	7.9	9.7
	12.0	13.0	11060	19470	1879	5319	393	65.1	101.0	7.2	22.3	2.3	3.8	0.3	1.5	0.2	48.3	38,372	3.84	53.8	7.7
	13.0	14.0	8538	14188	1220	3581	249	41.7	68.5	6.0	18.8	2.1	3.7	0.3	1.9	0.3	49.5	27,969	2.80	57.8	11.8
	14.0	15.0	4984	7997	667	1884	122	20.4	30.3	2.4	8.3	1.0	1.6	0.1	0.7	0.1	21.6	15,740	1.57	18.6	5.6
	15.0	16.0	9840	15785	1359	3744	231	36.9	56.4	4.0	13.1	1.3	2.1	0.2	0.8	0.1	30.5	31,104	3.11	35.6	4.2
	16.0	17.0	826	1529	136	422	38	7.3	14.1	1.5	6.0	0.9	2.3	0.3	1.6	0.3	25.4	3,011	0.30	27.3	22.1
	17.0	18.0	1087	2058	183	580	54	10.1	20.1	1.9	7.7	1.1	2.6	0.3	1.9	0.3	27.9	4,035	0.40	20.9	19.4
	18.0	19.0	900	1855	174	567	48	9.2	16.3	1.5	6.9	1.0	2.5	0.3	2.2	0.3	26.7	3,610	0.36	16	18.2
	19.0	20.0	721	1634	164	577	61	11.9	22.5	2.2	8.7	1.2	2.3	0.3	1.9	0.3	29.2	3,239	0.32	19.6	17.5
	20.0	21.0	2955	5036	442	1330	98	16.4	28.4	2.5	9.6	1.4	3.1	0.4	2.5	0.3	36.8	9,964	1.00	21.3	18.4
	21.0	22.0	3049	5049	440	1295	87	14.2	23.7	2.0	7.1	0.9	2.2	0.3	1.7	0.2	24.1	9,996	1.00	23.9	9.7
	22.0	23.0	1531	3083	301	1005	105	22.5	47.7	5.2	22.0	3.0	6.3	0.7	3.5	0.5	77.5	6,214	0.62	30.9	11.4
	23.0	24.0	1027	2242	251	945	118	27.4	68.8	7.4	32.5	4.8	10.6	1.1	6.3	0.8	121.9	4,865	0.49	41.3	16
	24.0	25.0	1048	2076	216	736	75	15.9	38.6	3.9	16.9	2.5	5.6	0.6	3.6	0.5	66.0	4,305	0.43	33.7	17.4
	25.0	26.0	3061	5491	504	1540	99	16.9	30.4	1.9	7.1	1.0	1.8	0.2	1.4	0.2	21.6	10,777	1.08	24.1	19
	26.0	27.0	3753	6425	540	1575	97	15.8	27.2	2.0	6.7	0.9	2.1	0.2	1.0	0.1	21.6	12,467	1.25	28.5	20.4
	27.0	28.0	5817	10724	941	2858	176	26.4	45.1	3.0	9.3	1.1	1.9	0.2	1.1	0.2	25.4	20,629	2.06	27.9	19.1
	28.0	29.0	6310	10884	1020	3068	201	34.4	58.8	4.3	14.2	1.5	2.3	0.2	1.4	0.2	34.3	21,633	2.16	39	9.9
	29.0	30.0	9758	15969	1462	3977	245	41.0	71.2	5.1	15.6	1.6	3.1	0.3	1.3	0.2	40.6	31,591	3.16	30.7	10.3
	30.0	31.0	8855	15601	1516	4257	263	41.5	66.9	4.4	13.1	1.4	2.5	0.2	1.1	0.2	30.5	30,654	3.07	23.5	7.7
	31.0	32.0	5571	9864	918	2741	178	29.3	54.1	4.1	13.8	1.5	2.7	0.3	1.4	0.2	35.6	19,415	1.94	16.4	8
	32.0	33.0	5348	9864	971	3091	246	44.7	87.7	7.3	27.2	3.5	6.6	0.7	3.2	0.4	80.0	19,781	1.98	24.4	8
	33.0	34.0	3483	6904	703	2321	191	34.7	69.2	5.7	20.7	2.6	6.0	0.6	3.2	0.5	66.0	13,811	1.38	19	7.1
	34.0	35.0	2873	5933	623	2146	192	35.9	72.4	6.7	25.1	3.9	9.7	1.8	5.4	1.8	80.0	12,011	1.20	24.9	8.4
	35.0	36.0	3178	6437	691	2368	216	40.1	77.7	6.1	23.3	3.2	7.2	0.8	4.4	0.6	76.2	13,129	1.31	34.3	7.1
	36.0	37.0	3131	6486	694	2391	220	40.9	79.0	6.2	25.1	3.3	7.7	0.9	4.8	0.7	85.1	13,175	1.32	36.1	7.5
	37.0	38.0	2791	5835	629	2164	190	34.6	65.6	5.3	19.1	2.5	5.3	0.6	3.1	0.4	58.4	11,804	1.18	23.2	7
	38.0	39.0	3389	6854	691	2239	166	27.6	48.5	3.2	11.5	1.4	2.9	0.3	1.6	0.2	30.5	13,468	1.35	21	8.2
	39.0	40.0	3730	7186	700	2158	137	21.4	35.0	2.4	7.9	0.9	1.9	0.2	1.3	0.2	21.6	14,003	1.40	16.3	9.1
	40.0	41.0	3084	6486	691	2379	202	36.7	66.0	5.0	17.7	2.1	4.4	0.5	2.3	0.3	49.5	13,028	1.30	26.7	6.9
	41.0	42.0	3342	7088	773	2683	250	45.2	86.0	6.6	24.2	3.0	6.8	0.7	3.6	0.5	77.5	14,391	1.44	33.2	6.6
	42.0	43.0	3249	6965	749	2601	230	40.6	75.5	6.0	21.8	2.7	6.0	0.6	3.3	0.4	67.3	14,018	1.40	38.9	7.5
	43.0	44.0	3354	7002	744	2519	201	33.8	61.4	4.2	14.0	1.7	3.3	0.4	2.2	0.3	39.4	13,982	1.40	25.8	7.4
	44.0	45.0	2522	5491	591	2006	153	24.8	41.0	2.6	9.3	1.1	2.4	0.3	1.6	0.2	27.9	10,874	1.09	17.3	7.4
	45.0	46.0	3026	6768	738	2531	201	32.4	57.2	3.9	12.4	1.5	3.2	0.3	2.2	0.3	36.8	13,415	1.34	23.8	8.4
	46.0	47.0	3366	7260	795	2753	247	43.4	80.5	5.5	17.9	1.9	3.4	0.3	1.9	0.3	41.9	14,618	1.46	45.4	7.5
	47.0	48.0	3108	6744	747	2636	227	38.9	69.4	5.2	16.1	1.9	3.9	0.5	2.4	0.4	43.2	13,643	1.36	40.3	7
	48.0	49.0	2070	4557	505	1843	197	39.5	82.4	7.4	28.6	4.1	9.2	1.0	6.3	0.9	105.4	9,457	0.95	53.9	5.9
	49.0	50.0	3307	7248	799	2881	267	46.4	88.1	6.8	25.0	3.2	7.7	0.7	4.2	0.5	86.4	14,770	1.48	50.2	5.8
	50.0	51.0	2615	5835	656	2356	216	37.8	69.2	4.8	16.1	1.9	3.8	0.4	2.6	0.4	44.5	11,859	1.19	41.4	8.1
	51.0	52.0	3296	7198	784	2741	239	40.5	72.4	4.6	14.5	1.5	3.2	0.3	2.1	0.3	35.6	14,433	1.44	37.8	7
	52.0	53.0	3554	7763	875	3114	266	43.1	72.2	4.4	12.1	1.2	2.4	0.2	1.1	0.2	26.7	15,735	1.57	39.7	5

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	53.0	54.0	3002	6683	739	2601	215	35.0	58.2	3.4	9.6	1.1	1.8	0.2	1.0	0.2	20.3	13,371	1.34	29.5	6
	54.0	55.0	3061	6756	744	2589	206	32.2	55.2	3.3	9.5	1.0	2.1	0.2	1.3	0.2	21.6	13,484	1.35	23.7	3.9
	55.0	56.0	4058	8734	940	3208	254	40.2	66.4	3.9	11.1	1.2	2.1	0.2	1.1	0.2	24.1	17,344	1.73	30.7	4.3
	56.0	57.0	4058	8771	952	3254	254	39.5	62.6	3.8	10.8	1.1	1.9	0.2	0.9	0.2	22.9	17,433	1.74	28.2	3.1
	57.0	58.0	4445	9582	1038	3558	282	44.7	73.5	4.5	12.6	1.3	2.2	0.2	1.1	0.2	26.7	19,070	1.91	40.2	6.4
	58.0	59.0	4117	8783	963	3266	248	39.7	64.6	3.9	11.5	1.2	2.1	0.2	0.9	0.1	24.1	17,525	1.75	26.8	6.8
	59.0	60.0	4117	8623	910	3138	240	36.9	60.7	3.9	11.8	1.2	2.4	0.2	1.3	0.2	29.2	17,175	1.72	31.4	5.6
	60.0	61.0	4410	9373	1006	3453	273	42.8	71.8	4.4	14.5	1.4	2.4	0.3	1.4	0.2	33.0	18,686	1.87	48	3.4
	61.0	62.0	5160	11068	1208	4176	330	50.5	76.9	4.3	12.7	1.2	1.8	0.2	0.8	0.1	25.4	22,117	2.21	43	3.3
	62.0	63.0	4855	10454	1145	3977	317	47.7	75.0	3.9	12.2	1.2	1.9	0.2	0.8	0.2	25.4	20,917	2.09	42	2.3
	63.0	64.0	3601	7579	816	2811	216	33.2	50.5	2.6	8.4	1.0	1.6	0.2	0.8	0.1	19.1	15,139	1.51	22.6	4.2
	64.0	65.0	4234	9594	1031	3359	261	41.0	65.1	3.5	10.1	1.0	1.6	0.2	0.9	0.2	21.6	18,623	1.86	29.5	3.4
	65.0	66.0	4973	11572	1257	4129	341	54.3	85.6	4.7	13.3	1.3	2.1	0.2	0.8	0.1	26.7	22,460	2.25	46.4	2.3
	66.0	67.0	6744	14557	1613	5680	486	76.2	120.5	7.1	20.2	1.9	2.5	0.2	1.1	0.2	38.1	29,347	2.93	75.4	1.9
	67.0	68.0	3882	8157	893	3103	256	41.3	68.4	3.9	13.1	1.2	2.1	0.2	1.0	0.2	26.7	16,448	1.64	40	4.6
	68.0	69.0	5266	11068	1214	4199	335	53.3	82.4	4.6	14.6	1.4	2.4	0.2	0.9	0.2	30.5	22,273	2.23	43.4	3.2
	69.0	70.0	3788	7960	872	3021	245	38.9	62.1	3.6	10.8	1.1	1.9	0.2	1.0	0.2	22.9	16,029	1.60	31.6	4.3
	70.0	71.0	3683	7874	863	3033	257	42.0	69.4	4.7	13.5	1.4	1.9	0.2	1.4	0.1	30.5	15,874	1.59	52.1	3.5
	71.0	72.0	3812	7948	865	3009	247	41.2	69.7	5.0	15.8	1.6	2.6	0.3	1.5	0.3	38.1	16,057	1.61	49.5	2.1
	72.0	73.0	2862	6007	638	2193	183	30.6	51.9	3.8	12.3	1.3	2.5	0.3	1.4	0.2	30.5	12,017	1.20	30.1	2.1
	73.0	74.0	4398	9459	1028	3558	291	46.0	72.4	4.1	12.4	1.2	1.8	0.2	1.0	0.1	24.1	18,897	1.89	34.7	2.4
	74.0	75.0	2909	6339	703	2461	205	32.2	55.7	3.5	10.8	1.2	1.9	0.2	1.1	0.2	27.9	12,751	1.28	27.6	4.3
	75.0	76.0	5559	12063	1335	4596	361	56.2	85.6	5.0	14.4	1.4	2.2	0.2	0.9	0.1	29.2	24,108	2.41	38	3
	76.0	77.0	5313	11645	1281	4397	350	56.7	94.3	5.9	17.0	1.7	2.6	0.2	1.0	0.1	35.6	23,201	2.32	51.4	1.8
	77.0	78.0	3800	8095	877	3033	249	40.1	64.3	3.9	12.2	1.2	1.8	0.2	0.9	0.2	26.7	16,206	1.62	33.4	4.5
	78.0	79.0	3260	7162	783	2741	229	38.1	64.3	4.7	14.1	1.5	2.6	0.3	1.4	0.2	35.6	14,338	1.43	43	6.2
	79.0	80.0	2967	6388	690	2379	193	31.6	53.4	3.7	11.9	1.2	2.4	0.3	1.3	0.1	27.9	12,751	1.28	25.3	6.4
	80.0	81.0	2639	5982	662	2344	208	36.7	63.9	4.6	16.9	2.0	3.9	0.4	2.4	0.4	52.1	12,019	1.20	31.3	6.9
	81.0	82.0	4163	8206	852	2834	220	36.4	59.2	4.1	11.4	1.3	2.2	0.2	1.0	0.2	27.9	16,419	1.64	29.6	5
	82.0	83.0	4093	8537	913	3126	255	41.8	70.9	4.4	14.8	1.6	3.0	0.3	1.8	0.2	40.6	17,104	1.71	37.4	6
	83.0	84.0	2533	5466	575	1983	173	32.8	65.2	7.0	34.9	5.6	14.2	1.7	9.7	1.3	175.3	11,079	1.11	56.9	10.2
	84.0	85.0	1231	2911	320	1172	128	27.4	62.6	6.7	31.1	5.1	11.7	1.6	10.3	1.5	147.3	6,068	0.61	34.7	15.3
	85.0	86.0	1589	3587	405	1499	166	34.9	81.5	11.2	58.0	9.5	24.1	2.8	17.5	2.5	308.6	7,797	0.78	97.6	18
	86.0	87.0	2463	5466	597	2129	209	38.2	76.5	6.3	23.0	2.8	6.1	0.7	4.7	0.6	76.2	11,099	1.11	65.8	11
	87.0	88.0	3307	6572	683	2327	208	39.7	75.6	7.0	26.1	3.2	7.2	0.8	4.6	0.7	92.7	13,354	1.34	64.5	9.6
	88.0	89.0	2697	5516	570	1936	174	31.0	61.6	5.7	26.2	4.2	10.8	1.3	8.1	1.0	129.5	11,173	1.12	32.1	12.3
	89.0	90.0	3471	7125	747	2496	214	38.1	70.8	5.4	18.8	2.6	5.8	0.6	3.3	0.5	64.8	14,263	1.43	35	7.9
	90.0	91.0	3143	6756	723	2484	210	38.3	67.9	5.1	17.6	2.2	4.6	0.5	3.1	0.5	55.9	13,512	1.35	32.5	9.1
	91.0	92.0	2545	5466	591	2088	198	39.1	80.2	7.2	28.0	4.0	9.0	1.0	5.8	0.9	111.8	11,175	1.12	60.5	12.2
	92.0	93.0	1190	2924	319	1184	135	33.0	89.8	14.6	80.1	13.7	32.5	3.3	18.2	2.5	420.3	6,460	0.65	112.5	20.5
	93.0	94.0	2803	5909	650	2286	213	39.4	77.9	7.0	20.4	2.4	4.0	0.5	2.9	0.4	57.2	12,073	1.21	68.5	8.5
	94.0	95.0	2967	5995	658	2315	216	35.9	65.1	5.0	17.1	2.3	4.8	0.6	3.1	0.4	61.0	12,347	1.23	34.1	9.2
	95.0	96.0	3683	7125	771	2659	228	39.5	71.5	5.7	18.8	2.5	4.7	0.6	3.5	0.4	61.0	14,674	1.47	42.5	7.4

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	96.0	97.0	3589	6756	712	2391	208	37.8	76.7	6.8	25.4	3.5	7.1	0.7	4.7	0.5	91.4	13,910	1.39	64.5	9.7	
	97.0	98.0	4574	8906	964	3313	275	44.7	76.5	5.2	14.8	1.7	2.5	0.3	1.3	0.2	30.5	18,209	1.82	46.2	7.4	
	98.0	99.0	4492	8771	947	3196	266	40.9	72.7	4.8	14.7	1.5	2.4	0.3	1.5	0.2	33.0	17,843	1.78	51.7	10.2	
	99.0	100.0	4891	9238	983	3254	261	41.1	69.7	4.9	14.2	1.7	2.6	0.3	1.4	0.2	36.8	18,800	1.88	37.7	6.7	
	100.0	101.0	4492	8132	837	2764	227	38.1	70.9	5.4	17.8	2.0	3.5	0.3	2.1	0.3	44.5	16,637	1.66	51.4	6.8	
	101.0	102.0	4726	8820	939	3149	254	39.5	68.5	5.2	16.3	2.0	3.3	0.4	1.8	0.3	44.5	18,070	1.81	37.7	8.4	
	102.0	103.0	5981	10626	1085	3534	298	50.4	90.1	6.5	18.7	2.0	3.0	0.3	1.4	0.3	47.0	21,744	2.17	88	5.8	
	103.0	104.0	6357	10957	1098	3476	278	48.6	91.8	6.7	19.7	2.1	3.7	0.3	1.4	0.2	49.5	22,390	2.24	69	4.9	
	104.0	105.0	5031	8869	887	2846	230	39.3	72.0	5.4	16.1	1.8	2.7	0.2	1.6	0.2	45.7	18,048	1.80	59.6	4.9	
	105.0	106.0	4363	8169	875	2916	234	37.5	70.7	5.0	14.6	1.6	2.7	0.3	1.7	0.2	39.4	16,730	1.67	54.9	6.5	
	106.0	107.0	4644	8623	918	3068	254	43.3	81.8	5.8	16.9	1.8	3.4	0.3	1.8	0.3	47.0	17,710	1.77	75.2	6.4	
	107.0	108.0	6486	11572	1185	3837	318	52.6	95.0	6.5	18.8	1.9	2.9	0.2	1.4	0.1	47.0	23,624	2.36	74	6.5	
<b>KGKRC027</b>	0.0	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1.0	2.0	9031	17320	1812	5797	481	84.3	152.7	11.6	42.0	4.7	9.0	0.9	4.9	0.7	116.8	34,869	3.49	109.5	10.7	
	2.0	3.0	6040	10773	1084	3231	240	41.0	64.7	4.2	13.7	1.7	2.7	0.3	1.4	0.2	38.1	21,536	2.15	38.2	5.4	
	3.0	4.0	10637	18733	1945	5750	443	81.2	136.0	9.6	31.7	3.2	5.5	0.5	2.6	0.4	78.7	37,858	3.79	84.5	8.5	
	4.0	5.0	7178	12714	1287	3872	283	51.3	88.1	6.7	23.2	2.3	4.1	0.3	1.5	0.2	57.2	25,568	2.56	61.5	6.8	
	5.0	6.0	9969	16031	1498	4141	250	42.3	71.6	5.8	19.7	2.0	3.0	0.2	0.9	0.2	45.7	32,080	3.21	48.4	5.4	
	6.0	7.0	10344	18365	1782	5307	391	67.2	119.3	8.7	25.5	2.7	3.8	0.2	1.3	0.2	57.2	36,475	3.65	82.3	4.7	
	7.0	8.0	3436	7334	790	2788	259	44.8	82.8	6.5	20.4	2.0	2.4	0.2	1.1	0.2	40.6	14,807	1.48	83.9	4.9	
	8.0	9.0	1272	3194	349	1260	119	22.9	47.1	5.1	18.1	2.0	2.7	0.2	1.3	0.2	45.7	6,339	0.63	59	6.2	
	9.0	10.0	20348	33290	3021	8106	484	75.7	130.2	9.6	24.9	2.5	3.9	0.2	1.1	0.2	55.9	65,553	6.56	73.9	8.8	
	10.0	11.0	28499	46065	4180	11664	684	109.0	188.5	13.0	35.5	3.7	5.5	0.4	1.6	0.2	80.0	91,530	9.15	97.7	10.3	
	11.0	12.0	7940	14618	1402	4386	299	47.7	79.5	6.5	19.5	2.0	3.1	0.3	1.3	0.2	47.0	28,851	2.89	58	7.8	
	12.0	13.0	5196	12038	1359	4759	369	57.4	90.9	6.0	16.5	1.5	2.6	0.2	0.8	0.1	33.0	23,930	2.39	57.7	4.3	
	13.0	14.0	4351	9827	1066	3686	295	46.2	78.8	6.0	16.3	1.6	2.5	0.2	0.9	0.1	34.3	19,411	1.94	60.6	4.6	
	14.0	15.0	5970	12407	1299	4304	333	52.2	91.2	7.2	20.9	2.0	3.1	0.2	1.0	0.2	41.9	24,532	2.45	65.8	6.6	
	15.0	16.0	7869	14249	1341	4094	259	38.7	64.2	5.1	15.6	1.7	2.9	0.2	0.9	0.1	35.6	27,978	2.80	44	9.5	
	16.0	17.0	5149	9754	967	3161	242	40.6	72.2	6.3	21.4	2.3	3.7	0.3	1.5	0.2	54.6	19,475	1.95	60.9	8.7	
	17.0	18.0	17533	30464	2996	8666	597	93.9	158.5	11.8	31.6	3.1	5.0	0.4	1.9	0.2	73.7	60,638	6.06	104	8.2	
	18.0	19.0	9453	16461	1516	4491	303	47.7	81.4	6.5	19.3	2.0	3.1	0.2	1.3	0.2	48.3	32,433	3.24	56.4	9.9	
	19.0	20.0	10168	18610	1728	5214	329	49.6	82.4	6.5	20.9	2.3	3.9	0.3	1.6	0.2	54.6	36,272	3.63	49.2	9.8	
	20.0	21.0	7834	15908	1595	5097	353	52.7	87.7	5.9	18.6	2.0	3.2	0.2	1.1	0.2	43.2	31,001	3.10	48.5	8.3	
	21.0	22.0	8608	22050	2682	9215	738	114.5	183.8	10.9	28.6	2.5	4.5	0.3	1.7	0.2	59.7	43,699	4.37	101.5	4.7	
	22.0	23.0	7776	17505	1969	6194	439	67.3	109.7	7.4	22.0	2.5	4.0	0.4	1.7	0.3	58.4	34,157	3.42	65.2	7.1	
	23.0	24.0	8878	21190	2501	7803	553	83.6	134.3	8.9	23.5	2.5	3.8	0.3	1.7	0.2	58.4	41,243	4.12	67.7	5.5	
	24.0	25.0	6966	13820	1383	4432	317	47.9	83.9	6.7	23.5	2.5	3.7	0.4	2.1	0.4	58.4	27,148	2.71	58.1	11.5	
	25.0	26.0	13194	25182	2537	7453	477	71.7	119.3	9.2	27.2	3.3	5.4	0.5	2.7	0.3	73.7	49,156	4.92	75.4	14	
	26.0	27.0	16947	30956	3129	9168	639	102.2	167.7	11.3	30.2	2.9	4.9	0.4	2.5	0.4	71.1	61,232	6.12	97.9	17	
	27.0	28.0	11681	22848	2428	7348	575	93.1	148.1	10.1	27.8	2.8	4.5	0.3	1.8	0.3	59.7	45,230	4.52	90.2	11.2	
	28.0	29.0	8045	18057	2054	6683	552	91.1	148.7	9.8	26.6	2.5	4.1	0.4	1.9	0.3	57.2	35,735	3.57	95.2	8.8	
	29.0	30.0	11904	23094	2362	7092	499	78.7	130.8	9.6	28.1	3.1	5.5	0.4	2.7	0.4	73.7	45,283	4.53	81.6	13.4	



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	73.0	74.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	74.0	75.0	15716	25919	2277	6334	417	67.5	109.8	7.1	22.4	2.4	3.2	0.3	1.4	0.2	54.6	50,932	5.09	69.9	6.3	
	75.0	76.0	9265	16768	1595	4677	317	54.8	91.8	6.7	20.7	2.2	3.8	0.3	1.6	0.3	50.8	32,854	3.29	62.2	7.3	
	76.0	77.0	5981	12898	1341	4222	324	55.1	89.8	6.2	19.6	2.0	3.0	0.2	1.3	0.2	41.9	24,986	2.50	68.9	4	
	77.0	78.0	11235	20637	1963	5715	379	64.6	106.5	7.3	21.1	2.3	3.7	0.3	1.5	0.2	49.5	40,187	4.02	63.6	5.6	
	78.0	79.0	8045	15416	1516	4631	349	59.2	100.1	6.7	21.1	2.4	4.5	0.4	2.1	0.2	55.9	30,210	3.02	57.6	8.5	
	79.0	80.0	6556	12775	1269	3884	292	51.3	84.4	5.5	16.8	1.9	3.2	0.3	1.5	0.2	39.4	24,981	2.50	50.1	7.2	
	80.0	81.0	2439	6339	735	2601	248	45.0	78.4	5.6	19.3	2.4	4.6	0.5	3.1	0.4	61.0	12,582	1.26	49.6	5.2	
	81.0	82.0	2099	4901	569	1930	176	33.2	62.0	4.9	18.0	2.5	5.3	0.6	3.5	0.4	61.0	9,868	0.99	33.3	5.7	
	82.0	83.0	1929	4349	489	1627	138	24.7	43.0	3.0	9.2	1.0	2.1	0.2	1.1	0.2	21.6	8,638	0.86	22.5	6.3	
	83.0	84.0	1759	4041	465	1575	144	26.4	48.1	3.6	13.1	1.7	3.7	0.4	2.1	0.3	40.6	8,124	0.81	33.5	7	
	84.0	85.0	1589	3624	413	1382	116	21.0	34.8	2.3	6.7	0.8	1.5	0.2	0.9	0.2	17.8	7,210	0.72	20.6	4.4	
	85.0	86.0	1472	3341	388	1330	125	24.2	45.2	3.7	13.2	1.8	3.7	0.4	2.4	0.3	44.5	6,795	0.68	32.3	5.4	
	86.0	87.0	2088	4729	539	1849	175	33.0	62.7	5.1	18.5	2.5	5.4	0.6	2.9	0.4	62.2	9,572	0.96	38.9	8.8	
	87.0	88.0	2017	4778	558	1907	169	31.3	54.8	4.1	14.1	1.8	3.4	0.3	2.2	0.3	41.9	9,584	0.96	31.6	8.8	
	88.0	89.0	1601	3624	416	1423	146	30.6	62.0	5.3	22.0	3.0	6.3	0.7	4.3	0.6	76.2	7,420	0.74	33.7	7	
	89.0	90.0	1859	4140	476	1639	179	39.1	79.9	7.5	31.8	4.4	10.5	1.1	6.3	0.9	119.4	8,593	0.86	54.2	9.4	
	90.0	91.0	1947	4201	472	1621	173	36.9	77.5	7.4	30.1	4.3	9.8	1.1	6.6	0.9	111.8	8,701	0.87	53.7	10	
	91.0	92.0	1918	4017	434	1400	122	23.2	43.8	3.7	13.9	1.9	4.0	0.4	2.5	0.3	49.5	8,033	0.80	26.5	7.7	
	92.0	93.0	1689	3943	460	1569	148	27.0	48.3	3.7	12.6	1.4	3.0	0.3	1.8	0.2	36.8	7,944	0.79	30.6	9.1	
	93.0	94.0	1630	3710	434	1528	169	36.7	77.2	7.4	30.6	4.5	10.6	1.1	6.8	0.9	118.1	7,764	0.78	47.1	7.9	
	94.0	95.0	1360	3010	347	1201	137	29.9	64.2	6.6	28.8	4.3	9.8	1.0	6.0	0.8	111.8	6,318	0.63	41.2	7.6	
	95.0	96.0	1325	3120	373	1318	134	26.3	50.9	4.4	15.8	2.3	5.0	0.6	3.4	0.5	58.4	6,438	0.64	40	7.1	
	96.0	97.0	1331	2788	313	1064	120	27.6	62.4	6.5	27.8	4.1	9.4	1.0	5.5	0.7	104.1	5,865	0.59	37.6	10.7	
	97.0	98.0	1272	3083	336	1242	125	27.8	59.2	5.4	25.3	3.6	8.4	1.0	5.2	0.8	100.3	6,296	0.63	34	12.7	
	98.0	99.0	883	2058	233	888	105	24.8	61.2	6.2	27.3	4.1	9.7	1.0	5.9	0.7	116.8	4,424	0.44	35.2	20.8	
	99.0	100.0	1066	2481	267	996	115	27.3	66.0	6.7	31.3	4.5	10.3	1.2	6.8	0.9	129.5	5,210	0.52	33.3	13.8	
	100.0	101.0	1179	2727	289	1071	121	28.6	66.9	6.8	31.5	4.7	11.0	1.2	6.8	0.8	132.1	5,676	0.57	36	11.7	
	101.0	102.0	1601	3636	387	1400	153	32.3	75.4	7.1	31.5	4.4	11.1	1.1	6.3	0.9	129.5	7,476	0.75	51.4	11.4	
	102.0	103.0	1953	4447	466	1645	156	33.2	71.9	6.6	29.2	4.2	9.3	1.0	5.6	0.7	115.6	8,944	0.89	44	10.6	
	103.0	104.0	1771	3771	379	1324	125	27.0	60.3	5.7	25.6	3.8	8.8	1.0	5.1	0.8	105.4	7,614	0.76	33.5	11.3	
	104.0	105.0	1325	2924	298	1026	103	22.8	55.0	5.3	24.6	3.5	8.5	0.8	4.9	0.6	97.8	5,901	0.59	34.8	17.3	
	105.0	106.0	781	1701	189	717	90	22.6	58.7	7.0	34.1	5.2	11.7	1.2	6.8	0.9	147.3	3,774	0.38	56.2	19.3	
	106.0	107.0	815	1953	228	871	108	26.3	67.1	7.2	31.7	4.2	9.8	1.1	6.0	0.9	121.9	4,253	0.43	84	17.8	
	107.0	108.0	1554	3882	425	1545	140	27.0	54.1	4.1	14.9	1.8	4.5	0.4	2.3	0.3	49.5	7,706	0.77	50.5	15.1	
	108.0	109.0	2187	4791	484	1685	148	29.6	61.0	5.6	23.4	3.1	7.2	0.7	4.0	0.7	86.4	9,518	0.95	44.7	15.2	
	109.0	110.0	3483	7235	715	2368	177	30.8	56.7	3.9	13.7	1.5	2.3	0.2	1.0	0.1	34.3	14,123	1.41	42.8	8.1	
	110.0	111.0	5278	12026	1329	4701	371	63.7	107.2	6.9	18.8	1.8	2.6	0.2	1.1	0.2	39.4	23,946	2.39	80.9	7.5	
	111.0	112.0	3765	9766	1157	4327	384	69.8	117.0	6.5	16.1	1.4	1.7	0.2	0.9	0.2	26.7	19,639	1.96	95.1	4.1	
	112.0	113.0	4879	13758	1691	6439	543	92.5	155.0	8.6	24.8	2.2	3.5	0.3	1.4	0.2	48.3	27,646	2.76	105.5	4.6	
	113.0	114.0	5254	12837	1474	5330	442	77.7	137.7	8.5	25.4	2.4	3.7	0.4	2.1	0.3	57.2	25,652	2.57	95.8	6.4	
	114.0	115.0	7224	15478	1619	5342	380	65.0	111.7	7.5	24.3	2.3	3.8	0.3	1.6	0.3	59.7	30,320	3.03	84.6	11.3	
	115.0	116.0	5841	12468	1305	4386	322	56.4	99.0	6.2	21.1	2.2	4.0	0.4	2.2	0.3	55.9	24,569	2.46	59.8	8.4	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	116.0	117.0	8034	15724	1595	5225	357	63.1	108.2	7.1	23.3	2.5	4.9	0.4	2.4	0.3	63.5	31,210	3.12	58.8	8.3
	117.0	118.0	12959	22725	2108	6404	394	64.4	103.7	6.2	18.8	1.7	2.6	0.2	1.0	0.1	36.8	44,827	4.48	59.5	8.2
	118.0	119.0	6450	13267	1377	4549	318	52.2	84.4	5.3	16.3	1.6	2.4	0.3	1.3	0.3	34.3	26,159	2.62	61.9	7.1
	119.0	120.0	7107	16215	1764	6019	443	77.7	129.7	8.1	23.5	2.2	3.2	0.3	1.6	0.2	48.3	31,842	3.18	114	5.7
	120.0	121.0	7002	16092	1752	5972	443	75.7	122.2	7.4	22.7	2.3	3.3	0.2	1.3	0.2	49.5	31,545	3.15	93.8	5
	121.0	122.0	4633	10785	1183	4117	317	55.1	94.9	6.3	20.4	2.2	3.7	0.3	1.5	0.2	54.6	21,274	2.13	64	4.9
	122.0	123.0	4597	10650	1162	4001	297	54.1	92.9	6.4	21.4	2.2	3.5	0.3	1.5	0.3	53.3	20,943	2.09	85.1	5.6
	123.0	124.0	5196	12198	1359	4794	357	60.4	101.9	6.6	20.7	2.0	3.2	0.3	1.1	0.2	47.0	24,147	2.41	84.7	4.3
	124.0	125.0	5583	11215	1141	3767	273	50.8	90.4	6.6	24.9	2.9	6.1	0.6	3.2	0.5	78.7	22,243	2.22	59.7	12.9
	125.0	126.0	4820	9655	990	3313	247	44.7	80.3	5.9	21.6	2.7	5.7	0.5	3.0	0.4	68.6	19,258	1.93	46.2	10.9
	126.0	127.0	6028	11682	1189	3966	290	48.4	83.3	5.0	16.5	1.6	3.2	0.3	1.6	0.2	39.4	23,354	2.34	48	9.9
	127.0	128.0	7529	14557	1547	4421	292	48.9	78.6	5.4	15.6	1.7	2.7	0.3	1.1	0.1	35.6	28,535	2.85	47.4	8.6
	128.0	129.0	4316	8697	938	2916	223	39.5	65.6	4.7	15.8	1.6	3.0	0.3	1.8	0.3	39.4	17,262	1.73	38.4	6.4
	129.0	130.0	8092	14864	1559	4444	314	55.4	91.5	6.6	21.1	2.4	4.4	0.5	2.4	0.4	55.9	29,513	2.95	55	7.8
	130.0	131.0	7600	14127	1528	4339	318	55.8	90.6	5.9	17.7	1.7	2.7	0.2	1.1	0.2	39.4	28,127	2.81	57.5	5.2
	131.0	132.0	10672	19409	2060	5715	379	62.5	96.0	6.6	19.3	2.0	3.2	0.2	1.1	0.2	41.9	38,469	3.85	60.4	5.9
	132.0	133.0	7248	14372	1655	4922	370	63.1	100.2	6.3	17.2	1.7	2.9	0.2	1.1	0.1	35.6	28,796	2.88	60.4	4
	133.0	134.0	10966	19654	2030	5890	421	70.9	113.2	7.5	20.4	2.0	3.2	0.2	1.3	0.2	44.5	39,224	3.92	65.2	4.1
	134.0	135.0	10192	18180	1885	5307	373	62.5	99.2	6.3	18.7	1.8	3.0	0.2	1.1	0.2	41.9	36,172	3.62	59.8	4.5
	135.0	136.0	7846	14925	1607	4537	313	51.6	84.6	5.7	17.1	1.7	2.7	0.2	1.1	0.1	35.6	29,429	2.94	51.3	6.1
	136.0	137.0	4762	9090	938	2858	204	35.2	54.6	3.5	10.9	1.2	1.8	0.2	0.9	0.1	25.4	17,985	1.80	32.8	7.6
	137.0	138.0	3917	7714	814	2508	197	36.2	62.8	4.5	14.5	1.6	3.0	0.3	1.6	0.3	38.1	15,313	1.53	43.9	12.7
	138.0	139.0	4058	7948	842	2648	219	40.4	69.7	5.1	17.3	2.0	4.1	0.4	2.4	0.4	52.1	15,908	1.59	46.9	6.8
	139.0	140.0	5219	10306	1095	3511	270	49.0	80.2	5.2	15.5	1.6	2.7	0.2	1.4	0.1	35.6	20,592	2.06	54.6	6.3
	140.0	141.0	5442	10970	1214	3837	313	55.9	91.1	5.5	17.0	1.6	3.1	0.2	1.3	0.2	36.8	21,989	2.20	61.5	5.8
	141.0	142.0	5946	11547	1244	3849	300	51.4	82.2	5.3	16.1	1.6	3.0	0.2	1.5	0.2	38.1	23,087	2.31	48.2	7.3
	142.0	143.0	9066	17689	1987	5832	436	76.0	121.6	8.1	23.6	2.3	4.1	0.4	2.1	0.3	54.6	35,303	3.53	71.9	8.5
	143.0	144.0	9898	19777	2157	6613	464	81.4	128.5	8.2	23.9	2.3	3.9	0.4	1.8	0.3	52.1	39,212	3.92	75.2	10.4
	144.0	145.0	3260	6388	673	2117	175	34.7	64.9	5.5	20.8	2.5	5.6	0.5	2.9	0.4	64.8	12,815	1.28	35.4	10.8
	145.0	146.0	1742	3697	405	1353	140	30.7	65.4	6.0	23.2	3.2	7.0	0.7	3.9	0.5	82.5	7,560	0.76	37.2	14
	146.0	147.0	9676	17750	1867	5202	351	61.6	96.8	6.2	16.8	1.6	2.6	0.2	1.1	0.1	35.6	35,069	3.51	53.7	5.2
	147.0	148.0	6884	13942	1601	4806	371	66.2	104.9	6.6	17.2	1.7	2.4	0.2	1.0	0.1	34.3	27,839	2.78	56.3	5.2
	148.0	149.0	6708	12591	1341	3942	289	51.8	83.8	5.5	16.5	1.7	3.4	0.3	1.7	0.2	40.6	25,077	2.51	42.9	4.1
	149.0	150.0	5688	12051	1365	4141	308	51.6	80.7	5.3	15.4	1.6	2.9	0.2	1.1	0.2	35.6	23,748	2.37	43.9	7.3
	150.0	151.0	3988	7579	806	2484	194	37.3	65.0	4.8	16.4	2.0	4.4	0.5	2.7	0.4	49.5	15,234	1.52	32	5.9
	151.0	152.0	6626	12775	1353	4024	326	62.6	105.2	6.9	19.6	1.8	2.7	0.2	1.1	0.1	38.1	25,343	2.53	75	7.7
	152.0	153.0	4421	8697	924	2904	226	41.8	70.1	5.1	16.3	1.9	3.9	0.4	2.6	0.3	45.7	17,361	1.74	34.1	8.7
	153.0	154.0	3413	6916	744	2391	200	37.4	66.4	5.0	18.6	2.3	5.2	0.6	3.2	0.4	58.4	13,862	1.39	37.9	11.9
	154.0	155.0	5899	11031	1164	3418	278	56.2	98.1	6.9	24.1	2.5	4.0	0.4	1.7	0.3	54.6	22,038	2.20	64.8	8
	155.0	156.0	17182	32184	3323	10311	811	159.2	266.3	18.1	51.2	4.3	6.1	0.4	1.6	0.2	88.9	64,406	6.44	185	3
	156.0	157.0	11071	20944	2199	6800	539	105.6	185.6	12.7	39.5	3.8	6.2	0.5	2.7	0.3	81.3	41,992	4.20	122	5.1
	157.0	158.0	5360	10663	1052	3289	241	40.6	70.2	5.2	14.7	1.6	2.5	0.3	1.7	0.2	34.3	20,776	2.08	37.8	8
	158.0	159.0	3131	6977	721	2379	208	41.2	77.5	6.3	23.0	2.8	6.5	0.6	3.9	0.5	64.8	13,645	1.36	48.4	9.5



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	159.0	160.0	2826	6867	743	2543	231	49.0	89.0	8.1	31.3	4.1	9.0	1.0	5.7	0.8	94.0	13,502	1.35	69.5	12.2
	160.0	161.0	3765	8857	971	3243	286	51.6	97.9	7.5	26.7	3.6	7.3	0.8	4.9	0.7	88.9	17,412	1.74	66.9	10.6
	161.0	162.0	2475	5565	564	1837	166	32.7	62.9	6.0	23.3	3.1	7.1	0.9	5.5	0.9	81.3	10,831	1.08	41.9	9
	162.0	163.0	6075	13021	1383	4502	349	62.6	102.9	7.1	20.9	2.5	5.2	0.5	1.9	0.3	50.8	25,586	2.56	61.8	14.4
	163.0	164.0	3882	9029	963	3196	253	44.7	75.3	5.8	18.7	2.6	5.3	0.6	3.3	0.4	54.6	17,534	1.75	48.5	14.8
	164.0	165.0	2146	4864	513	1715	152	29.5	55.4	4.5	15.8	2.1	4.7	0.6	3.0	0.3	49.5	9,556	0.96	37.8	7.7
	165.0	166.0	1742	3906	439	1493	147	28.1	55.4	4.5	18.1	2.4	5.2	0.6	3.6	0.5	63.5	7,909	0.79	35.4	10.4
	166.0	167.0	4597	9938	1058	3429	275	45.9	80.5	5.2	17.5	2.0	4.1	0.4	2.7	0.4	53.3	19,510	1.95	42.7	7.9
	167.0	168.0	6837	12468	1208	3709	268	46.6	74.2	5.4	16.8	1.8	3.4	0.4	1.8	0.2	39.4	24,681	2.47	43.4	7.9
	168.0	169.0	4973	9889	994	3126	234	41.3	68.5	5.1	16.3	1.8	3.8	0.4	1.8	0.3	39.4	19,394	1.94	41	6.6
	169.0	170.0	4633	10540	1166	3989	350	58.1	103.3	6.1	17.7	1.9	2.7	0.2	1.5	0.2	41.9	20,911	2.09	98.9	4.2
KGKRC028	0.0	1.0	4257	7125	597	1738	111	18.6	35.0	3.0	10.3	1.3	2.2	0.2	1.0	0.1	29.2	13,929	1.39	29.7	10.2
	1.0	2.0	7260	11965	992	2846	181	28.4	56.7	5.5	18.7	2.1	3.0	0.2	1.4	0.2	44.5	23,404	2.34	48.7	6.5
	2.0	3.0	2944	4926	401	1165	79	12.4	23.4	2.2	8.7	1.1	1.6	0.2	1.0	0.1	25.4	9,591	0.96	19.4	8.9
	3.0	4.0	4421	7309	604	1750	116	17.8	31.4	2.7	8.8	1.1	1.8	0.2	0.9	0.1	25.4	14,290	1.43	24.1	7.8
	4.0	5.0	3190	5516	454	1353	101	16.3	31.5	2.9	11.5	1.5	2.4	0.2	1.3	0.1	34.3	10,716	1.07	26.5	8.4
	5.0	6.0	17240	30587	2779	8025	574	97.7	179.8	14.8	49.8	6.8	10.2	1.0	5.1	0.7	151.1	59,722	5.97	102	15.5
	6.0	7.0	12901	22603	2102	5937	423	69.7	128.5	10.9	38.0	5.2	8.6	0.8	4.7	0.6	119.4	44,352	4.44	82.1	14.3
	7.0	8.0	7213	12775	1110	3324	237	38.4	71.1	6.0	21.8	3.2	5.6	0.6	3.8	0.5	76.2	24,886	2.49	50.5	9.9
	8.0	9.0	1988	3710	314	940	71	11.1	21.3	1.9	8.0	1.2	2.4	0.3	1.8	0.2	30.5	7,101	0.71	19.6	9.5
	9.0	10.0	1231	2156	186	551	40	6.6	12.9	1.2	4.6	0.6	1.4	0.2	0.9	0.2	17.8	4,210	0.42	20.6	9.2
	10.0	11.0	18941	31816	2851	7897	552	89.2	157.3	11.4	34.8	4.0	5.5	0.5	2.3	0.2	86.4	62,448	6.24	99.5	9.9
	11.0	12.0	1243	2199	196	586	47	8.8	17.4	1.8	7.2	1.1	2.3	0.2	1.6	0.2	27.9	4,340	0.43	24	15.5
	12.0	13.0	2580	4484	359	1031	71	11.8	23.6	2.5	8.7	1.2	2.4	0.3	1.7	0.3	31.8	8,609	0.86	30.4	18.1
	13.0	14.0	2791	4594	376	1099	77	13.6	24.4	2.2	8.0	1.2	2.4	0.3	1.7	0.3	29.2	9,020	0.90	30.9	20.4
	14.0	15.0	5254	8476	694	1983	127	19.7	33.9	2.6	8.4	1.2	2.1	0.2	1.1	0.2	26.7	16,629	1.66	29.7	16.4
	15.0	16.0	1747	3390	304	1008	106	21.9	53.7	5.7	23.5	4.0	8.1	1.0	5.6	0.7	99.1	6,779	0.68	37.8	16.6
	16.0	17.0	5465	8894	732	2123	154	27.6	57.4	5.2	20.5	3.2	6.4	0.7	3.9	0.4	74.9	17,568	1.76	31.8	16.4
	17.0	18.0	4363	7628	649	1954	141	23.4	43.6	3.5	12.6	1.7	2.9	0.3	1.7	0.2	36.8	14,861	1.49	23.4	12.8
	18.0	19.0	3530	6805	623	1925	126	19.0	31.2	2.1	6.1	0.9	1.6	0.2	1.3	0.1	19.1	13,091	1.31	17.2	11.2
	19.0	20.0	3190	6179	576	1837	138	22.8	40.1	3.1	8.5	1.1	1.7	0.2	0.9	0.2	22.9	12,022	1.20	29.1	8.1
	20.0	21.0	4175	8009	738	2315	155	22.7	38.6	2.8	8.6	1.0	1.9	0.2	1.0	0.2	21.6	15,491	1.55	22.5	8.3
21.0	22.0	4421	8095	724	2222	148	22.6	37.7	2.7	8.2	1.2	3.1	0.4	1.5	0.4	22.9	15,711	1.57	18.4	7.3	
22.0	23.0	3905	7407	671	2100	143	21.9	37.3	2.9	9.1	1.1	2.1	0.2	1.1	0.2	25.4	14,327	1.43	25.2	10.5	
23.0	24.0	1572	3341	317	1053	100	19.2	44.3	4.4	17.3	2.6	5.3	0.5	2.9	0.4	64.8	6,544	0.65	25.2	18.4	
24.0	25.0	2211	4889	477	1610	145	26.4	52.2	4.6	17.1	2.3	4.2	0.4	2.4	0.3	54.6	9,496	0.95	22.4	16.8	
25.0	26.0	2592	5638	550	1814	135	20.4	32.5	2.2	6.8	0.9	1.6	0.2	1.0	0.2	19.1	10,814	1.08	15.3	8	
26.0	27.0	3049	6339	600	1942	138	19.9	32.5	2.1	5.7	0.7	1.3	0.1	0.7	0.1	14.0	12,145	1.21	13.6	8	
27.0	28.0	3554	7567	737	2438	180	26.1	42.8	2.7	7.0	0.8	1.3	0.2	0.9	0.1	16.5	14,573	1.46	19.7	4.6	
28.0	29.0	4140	9041	913	3091	235	33.8	55.2	3.6	8.5	1.2	1.7	0.2	1.0	0.1	20.3	17,546	1.75	32.3	10.2	
29.0	30.0	7482	13881	1420	3942	269	43.3	71.0	4.5	11.7	1.3	1.9	0.2	1.1	0.1	26.7	27,156	2.72	30.7	6	
30.0	31.0	6990	11780	1077	3091	192	30.0	50.3	3.7	12.4	1.4	3.3	0.7	1.5	0.6	29.2	23,263	2.33	24.7	6.1	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	31.0	32.0	5160	8943	825	2403	157	25.6	40.9	2.7	8.8	1.0	1.6	0.2	0.9	0.1	21.6	17,591	1.76	21.8	6.7
	32.0	33.0	5289	10257	1019	3079	197	29.0	44.5	2.7	7.8	0.9	1.5	0.2	0.8	0.1	17.8	19,947	1.99	18	4.5
	33.0	34.0	3636	7297	758	2403	174	26.1	43.1	2.8	7.8	0.9	1.4	0.2	0.7	0.1	19.1	14,369	1.44	22.8	8.2
	34.0	35.0	3049	6031	623	1965	139	22.5	36.3	2.4	7.5	0.8	1.5	0.1	1.0	0.2	19.1	11,899	1.19	20.5	6.3
	35.0	36.0	3026	6105	640	2070	153	23.7	37.9	2.3	7.5	0.8	1.5	0.1	0.8	0.1	17.8	12,087	1.21	15.4	7.1
	36.0	37.0	5958	11879	1208	3779	256	40.1	60.3	3.5	10.4	1.2	1.8	0.2	1.0	0.1	22.9	23,222	2.32	22.9	5
	37.0	38.0	5020	9213	903	2694	175	27.6	43.7	2.9	9.0	1.0	1.6	0.2	0.8	0.1	21.6	18,112	1.81	20.4	8.1
	38.0	39.0	4750	8881	875	2636	169	25.4	38.6	2.3	7.5	0.9	1.4	0.1	0.8	0.1	19.1	17,407	1.74	15.6	6.9
	39.0	40.0	4609	8894	893	2718	186	29.1	47.4	3.0	9.6	1.1	1.7	0.2	0.9	0.2	22.9	17,415	1.74	26.4	7.3
	40.0	41.0	6204	10785	1008	2916	190	31.2	54.9	4.9	17.0	2.0	3.0	0.3	1.1	0.2	45.7	21,263	2.13	35.5	2.7
	41.0	42.0	5301	9139	851	2484	159	25.6	42.5	3.3	12.2	1.5	2.3	0.2	1.3	0.2	36.8	18,061	1.81	21	4.5
	42.0	43.0	4891	9889	1009	3161	217	33.4	52.8	3.4	9.2	1.0	1.6	0.2	0.8	0.1	21.6	19,290	1.93	26.2	5.6
	43.0	44.0	3061	6044	603	1878	131	20.6	32.9	2.1	6.2	0.8	1.5	0.2	0.8	0.1	16.5	11,798	1.18	15.2	6.2
	44.0	45.0	2316	4692	472	1487	104	16.4	26.4	1.8	5.4	0.7	1.1	0.1	0.7	0.1	14.0	9,139	0.91	12.3	4.6
	45.0	46.0	3976	8095	832	2613	190	28.5	46.7	3.1	9.3	1.0	1.7	0.2	1.0	0.2	21.6	15,819	1.58	24	6.4
	46.0	47.0	5981	11191	1101	3336	238	38.9	63.3	4.3	11.7	1.3	2.4	0.3	1.5	0.2	29.2	21,999	2.20	34.6	9
	47.0	48.0	7236	12898	1196	3464	224	38.0	62.2	3.9	11.9	1.4	2.5	0.3	1.6	0.2	33.0	25,174	2.52	26.1	5.2
	48.0	49.0	10626	18242	1764	4841	340	57.1	95.2	6.7	19.3	2.3	4.1	0.5	2.2	0.3	55.9	36,055	3.61	43.6	4.3
	49.0	50.0	8386	14802	1492	4047	269	43.4	73.0	4.9	14.0	1.6	3.1	0.3	2.2	0.3	39.4	29,178	2.92	32.7	3.8
	50.0	51.0	6873	12100	1135	3301	232	40.0	70.8	5.5	17.5	2.1	4.1	0.5	2.7	0.3	59.7	23,843	2.38	43.8	3.7
	51.0	52.0	9136	16829	1722	4782	328	53.8	88.9	6.2	20.4	2.7	4.7	0.5	2.7	0.4	69.8	33,047	3.30	39.6	2.6
	52.0	53.0	8526	16706	1782	5086	343	54.0	86.5	6.5	23.2	3.0	5.6	0.6	3.2	0.5	86.4	32,713	3.27	36.7	3.2
	53.0	54.0	8186	15724	1631	4724	340	54.4	92.8	7.6	25.9	3.1	5.6	0.6	3.5	0.5	95.2	30,894	3.09	60.3	3.2
	54.0	55.0	10790	18856	1855	5097	350	60.4	108.2	8.3	27.4	3.4	6.4	0.7	3.3	0.4	100.3	37,267	3.73	84	4.4
	55.0	56.0	7166	13328	1323	3872	267	44.4	72.7	5.4	18.0	2.1	3.8	0.4	1.8	0.3	52.1	26,157	2.62	35	5.8
	56.0	57.0	4902	9262	909	2799	214	38.1	71.9	6.1	24.2	3.6	8.6	1.2	6.5	0.9	105.4	18,353	1.84	41.3	8.3
	57.0	58.0	4562	8857	882	2753	230	44.4	87.6	7.8	27.8	3.6	6.9	0.9	5.1	0.6	101.6	17,569	1.76	95.1	11.2
	58.0	59.0	3108	6007	609	1954	169	32.8	68.4	6.2	25.1	3.4	7.3	0.8	4.0	0.6	95.2	12,090	1.21	55.5	4.2
	59.0	60.0	1800	4127	435	1516	137	27.3	56.8	5.5	20.7	2.8	6.1	0.7	4.2	0.7	83.8	8,225	0.82	56.1	10.9
	60.0	61.0	4586	9643	1015	3371	252	41.7	70.8	5.1	15.8	1.8	3.5	0.4	2.4	0.4	49.5	19,057	1.91	50.2	8.1
	61.0	62.0	5817	12714	1377	4666	349	55.9	87.3	5.9	16.3	1.7	2.9	0.3	1.7	0.3	39.4	25,135	2.51	51.1	4.9
	62.0	63.0	4914	10257	1066	3464	255	40.3	63.5	4.4	12.2	1.4	2.4	0.3	1.5	0.3	33.0	20,115	2.01	39.8	6.8
	63.0	64.0	4844	9704	990	3184	224	35.6	58.2	4.1	11.0	1.3	2.5	0.2	1.5	0.2	34.3	19,095	1.91	32.4	5.3
	64.0	65.0	4621	9545	1006	3289	242	39.8	64.2	4.3	12.3	1.4	3.0	0.4	1.9	0.3	40.6	18,872	1.89	37.8	6.8
	65.0	66.0	2475	5036	501	1674	170	37.1	84.6	11.1	50.5	8.0	20.0	2.4	14.6	2.1	266.7	10,353	1.04	103	14.8
	66.0	67.0	2709	5872	627	2170	212	41.0	78.8	7.7	31.9	4.7	11.2	1.2	6.8	1.1	147.3	11,921	1.19	88.4	17.4
	67.0	68.0	5770	12653	1377	4619	329	50.4	76.7	4.4	12.4	1.3	2.1	0.2	0.9	0.2	30.5	24,927	2.49	40.5	4.1
	68.0	69.0	5231	11670	1275	4327	311	47.4	69.5	4.5	11.9	1.3	2.2	0.3	1.5	0.2	29.2	22,981	2.30	38.8	6
	69.0	70.0	4281	9164	974	3254	238	39.1	69.2	6.4	27.0	4.1	9.0	1.0	5.6	0.8	128.3	18,201	1.82	59.7	10.5
	70.0	71.0	7084	13881	1420	4502	321	53.0	82.5	5.7	15.2	1.5	2.4	0.3	1.1	0.2	36.8	27,407	2.74	48	6.6
	71.0	72.0	5149	11510	1165	3942	281	44.6	72.3	4.6	12.6	1.4	2.4	0.2	1.4	0.2	30.5	22,217	2.22	38	6.1
	72.0	73.0	8597	17136	1667	5517	383	60.9	100.1	6.3	17.1	1.7	2.9	0.3	1.4	0.2	38.1	33,529	3.35	50.5	3.2
	73.0	74.0	4949	11277	1174	4036	298	47.0	77.3	4.7	13.1	1.4	2.5	0.3	1.7	0.2	31.8	21,914	2.19	44.1	4

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	74.0	75.0	5665	12837	1335	4584	333	48.8	77.9	4.3	11.0	1.1	1.9	0.2	1.3	0.2	25.4	24,925	2.49	30.8	2.9
	75.0	76.0	4363	9999	1046	3616	257	41.1	65.9	4.1	11.3	1.2	2.5	0.2	1.5	0.2	29.2	19,439	1.94	33.8	9
	76.0	77.0	4023	9410	993	3488	282	47.2	83.3	5.8	16.9	1.7	3.4	0.3	1.9	0.3	43.2	18,399	1.84	73.1	8.5
	77.0	78.0	5970	13574	1395	4852	343	51.6	82.5	5.1	13.3	1.6	2.7	0.2	1.7	0.2	35.6	26,329	2.63	44.6	5.7
	78.0	79.0	4867	11682	1244	4362	324	51.9	83.9	5.2	14.6	1.7	3.5	0.3	1.9	0.3	40.6	22,684	2.27	48.5	5.3
	79.0	80.0	4081	9360	982	3371	244	37.4	63.2	3.7	11.4	1.4	2.4	0.3	1.6	0.2	27.9	18,188	1.82	32.9	7.9
	80.0	81.0	6145	13635	1395	4712	335	52.8	85.4	5.0	13.8	1.5	2.7	0.3	1.5	0.2	34.3	26,421	2.64	48.2	7
	81.0	82.0	4328	9766	1003	3394	245	38.8	63.5	3.8	11.0	1.3	2.4	0.2	1.5	0.2	27.9	18,886	1.89	28.8	6.3
	82.0	83.0	2967	7112	760	2729	214	33.9	61.3	4.4	14.8	1.9	4.0	0.5	2.6	0.4	48.3	13,955	1.40	43.8	8.9
	83.0	84.0	3038	7370	790	2788	230	38.2	69.5	5.4	18.7	2.5	5.5	0.6	3.5	0.5	67.3	14,427	1.44	51.8	7.7
	84.0	85.0	4093	9115	942	3254	273	50.0	96.5	8.1	32.6	4.4	10.0	1.1	5.8	0.7	116.8	18,003	1.80	56	7.2
	85.0	86.0	1894	3673	377	1289	121	27.1	67.4	7.3	27.5	3.7	7.8	0.9	5.9	0.8	102.9	7,605	0.76	60	6.3
	86.0	87.0	2158	4410	457	1580	146	29.8	65.7	6.3	25.5	3.8	8.0	0.9	4.7	0.6	97.8	8,994	0.90	40.4	5.4
	87.0	88.0	2381	4877	510	1767	155	29.8	62.8	5.7	24.6	3.5	7.4	0.8	4.7	0.6	88.9	9,918	0.99	53	7.9
	88.0	89.0	2357	4975	521	1808	157	28.6	58.7	5.2	20.7	3.0	6.8	0.7	4.1	0.6	77.5	10,023	1.00	49.4	8.3
	89.0	90.0	2615	5540	575	1930	177	33.5	62.7	5.4	21.2	3.1	6.1	0.7	4.3	0.6	80.0	11,055	1.11	48.7	11.6
	90.0	91.0	3753	6830	677	2158	191	36.6	70.8	6.4	24.0	3.1	6.1	0.9	4.3	0.6	86.4	13,848	1.38	49.6	8
	91.0	92.0	1982	4410	477	1650	170	33.7	65.4	6.1	23.0	3.2	7.4	0.9	5.8	0.9	91.4	8,927	0.89	65.2	10.4
	92.0	93.0	2052	4963	555	1948	183	34.0	61.4	5.3	20.0	2.8	6.4	0.7	4.6	0.6	78.7	9,915	0.99	34	16.4
	93.0	94.0	1970	4607	522	1825	189	37.2	69.2	5.8	21.7	3.0	6.6	0.7	4.7	0.6	86.4	9,349	0.93	45.7	15.4
	94.0	95.0	2967	6056	636	2094	183	32.3	57.2	4.6	15.6	2.4	5.2	0.6	2.9	0.4	59.7	12,116	1.21	38.7	8.4
	95.0	96.0	2064	5221	621	2286	250	47.9	89.7	7.3	25.4	3.7	8.0	0.9	5.7	0.7	100.3	10,732	1.07	58.4	8.7
	96.0	97.0	3213	7076	784	2729	254	45.4	77.2	5.5	18.7	2.5	5.2	0.6	3.2	0.4	63.5	14,279	1.43	47.4	5.9
	97.0	98.0	3002	7039	807	2881	271	46.2	78.7	5.3	17.2	2.1	4.0	0.4	2.4	0.3	48.3	14,205	1.42	48.6	6.5
	98.0	99.0	3741	7972	865	2916	247	40.8	65.9	4.1	14.2	1.7	3.3	0.4	2.1	0.3	44.5	15,919	1.59	40.7	7.8
	99.0	100.0	4058	8611	938	3138	271	44.5	71.0	4.8	14.7	1.6	3.5	0.4	1.9	0.3	41.9	17,200	1.72	46	6.6
	100.0	101.0	3460	7567	846	2869	246	42.6	68.0	4.4	12.1	1.4	2.3	0.2	1.4	0.2	29.2	15,149	1.51	40.8	5.2
	101.0	102.0	3577	7493	818	2741	237	39.4	65.4	4.6	13.0	1.4	2.6	0.3	1.3	0.2	33.0	15,027	1.50	40.5	5.3
	102.0	103.0	3671	7751	831	2788	241	40.6	67.1	4.4	13.5	1.6	3.0	0.3	1.6	0.2	34.3	15,449	1.54	43	5.8
	103.0	104.0	3061	6584	713	2368	198	34.0	52.3	3.3	10.6	1.1	2.1	0.2	1.3	0.2	25.4	13,054	1.31	30.8	5.5
	104.0	105.0	2639	6044	651	2199	196	33.1	55.3	3.6	9.6	1.1	1.9	0.2	1.4	0.2	25.4	11,860	1.19	34.1	4.7
	105.0	106.0	3401	7162	785	2659	237	40.6	67.9	4.6	13.5	1.4	2.7	0.3	1.7	0.2	35.6	14,413	1.44	45.2	5.5
	106.0	107.0	3730	7935	865	2916	252	43.0	70.7	4.8	14.5	1.5	2.9	0.3	1.7	0.2	38.1	15,875	1.59	42.7	5.2
	107.0	108.0	3202	6805	756	2636	260	46.7	81.5	5.7	16.6	1.8	3.2	0.4	2.1	0.3	41.9	13,859	1.39	53.7	5.2
	108.0	109.0	3213	6609	697	2309	195	34.4	60.2	4.6	16.2	2.2	4.5	0.6	3.2	0.4	58.4	13,209	1.32	34.2	7.3
	109.0	110.0	3073	6339	677	2245	195	35.3	60.2	4.7	15.7	2.1	4.7	0.5	2.9	0.4	53.3	12,708	1.27	34.6	7.6
	110.0	111.0	3460	7186	793	2636	225	37.6	61.4	4.0	12.2	1.4	2.7	0.3	1.9	0.2	33.0	14,454	1.45	33.4	5.9
	111.0	112.0	3542	7506	813	2729	229	36.7	62.2	4.2	12.5	1.4	2.2	0.3	1.4	0.2	30.5	14,970	1.50	36	5.6
	112.0	113.0	3859	8279	894	2986	248	41.6	65.8	4.2	12.7	1.3	2.5	0.3	1.4	0.1	30.5	16,427	1.64	39.9	5
	113.0	114.0	3460	7739	864	2916	241	38.0	60.4	4.1	11.1	1.2	2.1	0.2	1.4	0.2	26.7	15,365	1.54	34.1	4.2
	114.0	115.0	3237	7112	789	2706	247	43.5	74.9	5.3	17.6	2.0	3.4	0.4	2.4	0.3	48.3	14,289	1.43	52.3	6.3
	115.0	116.0	4070	8660	946	3161	275	47.1	78.3	5.3	18.4	2.2	4.2	0.5	2.4	0.3	53.3	17,324	1.73	48	5.9
	116.0	117.0	3495	7284	787	2636	227	40.4	70.0	5.7	22.3	3.3	7.9	0.9	5.0	0.6	95.2	14,680	1.47	46.3	8.9

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	117.0	118.0	3542	7616	846	2869	248	42.3	70.1	4.7	14.0	1.9	3.4	0.4	1.8	0.2	43.2	15,303	1.53	38.2	6.4
	118.0	119.0	3671	7788	847	2834	246	42.6	71.5	5.1	14.6	1.7	2.7	0.3	1.8	0.3	39.4	15,566	1.56	46	7.2
	119.0	120.0	3225	7223	790	2764	214	35.6	61.6	4.9	15.2	1.8	3.8	0.4	2.3	0.3	48.3	14,391	1.44	35.8	7.8
	120.0	121.0	3518	7985	881	3103	245	38.2	64.4	4.5	13.3	1.5	2.9	0.3	1.8	0.3	39.4	15,898	1.59	37.7	5.4
	121.0	122.0	3401	7923	882	3114	254	40.9	69.5	4.9	14.7	1.5	2.3	0.2	1.3	0.2	35.6	15,746	1.57	40.4	4.7
	122.0	123.0	3683	8832	1016	3628	291	46.3	76.4	5.6	15.8	1.7	3.3	0.3	1.9	0.3	43.2	17,644	1.76	49.9	4.9
	123.0	124.0	4562	10294	1121	3884	297	45.7	74.1	5.1	14.0	1.4	2.3	0.2	1.1	0.1	33.0	20,335	2.03	40.5	4.9
	124.0	125.0	3929	8537	934	3243	247	40.2	72.4	6.1	22.7	2.9	6.1	0.6	3.3	0.4	81.3	17,126	1.71	51.5	8.9
	125.0	126.0	2252	5036	544	1919	181	38.0	95.3	16.7	107.0	19.8	49.5	5.6	32.0	3.7	659.1	10,959	1.10	104.5	15.4
	126.0	127.0	3847	8697	959	3348	255	40.2	66.0	4.7	13.5	1.5	2.9	0.3	1.4	0.2	35.6	17,272	1.73	39.6	6
	127.0	128.0	3952	10048	1257	4642	438	75.5	129.1	8.7	23.1	2.2	3.2	0.3	1.5	0.2	50.8	20,632	2.06	107	8.9
	128.0	129.0	3706	8587	964	3429	283	46.1	79.0	6.0	17.0	2.0	3.8	0.3	2.3	0.3	50.8	17,176	1.72	58.8	7.9
	129.0	130.0	3694	8181	890	3091	240	39.8	67.8	5.5	17.1	1.9	3.4	0.3	2.1	0.3	50.8	16,286	1.63	46.3	8.4
	130.0	131.0	2744	6314	707	2554	212	33.8	59.4	4.5	14.5	1.7	3.1	0.3	1.8	0.2	41.9	12,693	1.27	40.9	5.4
	131.0	132.0	3518	8329	947	3394	271	42.0	69.0	4.9	13.5	1.4	2.2	0.2	1.3	0.2	33.0	16,627	1.66	41.2	3.9
	132.0	133.0	3155	7579	865	3091	256	41.3	71.0	5.1	14.2	1.5	2.6	0.2	1.5	0.2	36.8	15,121	1.51	49.6	3.5
	133.0	134.0	2463	5909	679	2496	215	36.5	64.6	4.9	14.8	1.6	2.9	0.3	1.9	0.2	40.6	11,930	1.19	50.6	4.6
	134.0	135.0	3495	8279	946	3406	276	44.6	74.6	5.5	15.3	1.7	3.1	0.3	1.6	0.2	40.6	16,590	1.66	53.4	4.1
	135.0	136.0	3554	8783	1028	3814	320	51.8	85.2	6.0	15.6	1.6	2.6	0.2	1.1	0.2	35.6	17,699	1.77	59.4	3.2
	136.0	137.0	3073	7493	861	3114	253	41.8	70.0	4.8	13.9	1.4	2.3	0.2	1.0	0.1	29.2	14,959	1.50	46.6	4.3
	137.0	138.0	3366	7297	794	2636	228	39.4	71.9	4.9	16.9	2.2	4.2	0.4	2.6	0.3	52.1	14,515	1.45	38.7	6
	138.0	139.0	2639	5896	646	2257	187	33.7	62.2	5.5	20.1	2.8	6.0	0.7	3.6	0.4	74.9	11,835	1.18	33.2	9
	139.0	140.0	3202	7100	767	2601	204	33.5	58.6	4.5	13.3	1.6	2.7	0.3	1.8	0.2	40.6	14,031	1.40	40.3	7.9
	140.0	141.0	3143	6732	716	2438	192	33.4	62.5	6.0	25.3	4.2	10.5	1.3	7.7	1.1	125.7	13,498	1.35	42.2	9.6
	141.0	142.0	1501	3513	384	1423	143	29.9	70.5	9.9	51.8	8.8	22.3	2.7	15.8	2.0	292.1	7,471	0.75	99.1	15.3
	142.0	143.0	2393	5356	585	2076	188	35.3	73.7	7.4	26.5	3.5	7.6	0.9	4.6	0.7	97.8	10,855	1.09	74.2	11.7
	143.0	144.0	2158	4938	544	1977	182	32.2	66.5	6.9	29.2	4.4	10.6	1.3	7.6	1.0	134.6	10,093	1.01	61.7	11
	144.0	145.0	2592	5896	642	2274	191	33.0	58.6	4.6	14.2	1.8	3.3	0.3	1.7	0.2	45.7	11,758	1.18	33.8	9.1
	145.0	146.0	1835	4152	459	1650	155	28.1	59.9	6.2	24.3	3.7	7.8	0.8	5.5	0.8	101.6	8,490	0.85	36.7	10
	146.0	147.0	2158	4840	532	1895	164	30.0	59.0	5.4	20.9	2.9	6.2	0.7	4.0	0.5	82.5	9,800	0.98	34.4	10.2
	147.0	148.0	3988	8709	919	3161	231	36.4	57.8	3.8	11.5	1.3	2.3	0.3	1.3	0.2	29.2	17,152	1.72	32.2	6.3
	148.0	149.0	3870	8095	894	3009	268	46.7	82.1	5.0	15.2	1.6	3.2	0.4	2.2	0.3	40.6	16,334	1.63	66.1	8
	149.0	150.0	2955	6474	681	2280	202	35.9	74.2	5.5	20.0	2.2	4.6	0.6	3.0	0.5	61.0	12,800	1.28	80.9	10.1
	150.0	151.0	4550	9004	940	3033	239	40.1	70.9	4.7	17.0	2.0	4.1	0.5	2.2	0.4	53.3	17,961	1.80	43.1	7.6
	151.0	152.0	3413	7088	733	2414	209	35.2	69.5	5.7	21.4	2.4	4.6	0.5	3.0	0.4	62.2	14,063	1.41	60.4	6.4
	152.0	153.0	3272	7321	822	2811	255	44.5	80.1	5.8	19.1	2.1	4.1	0.5	2.6	0.4	54.6	14,695	1.47	67.3	8.1
	153.0	154.0	3882	7886	840	2776	234	40.1	70.2	4.6	14.9	1.6	3.0	0.3	2.2	0.3	38.1	15,794	1.58	43.5	7.5
	154.0	155.0	4375	8746	932	3033	241	39.4	64.6	3.7	11.7	1.3	2.3	0.2	1.5	0.2	26.7	17,478	1.75	29.8	6.7
	155.0	156.0	4550	9029	951	3056	237	37.4	60.5	3.5	10.7	1.2	1.7	0.2	1.3	0.2	25.4	17,965	1.80	28.8	5.3
	156.0	157.0	4527	9053	948	3044	224	34.2	55.0	2.9	9.4	1.1	1.8	0.2	1.0	0.1	22.9	17,925	1.79	24.7	5.8
	157.0	158.0	5172	9778	998	3091	221	35.1	58.3	3.6	11.0	1.2	2.2	0.2	1.1	0.2	25.4	19,398	1.94	29.8	4.6
	158.0	159.0	5266	9692	973	2986	217	33.1	56.3	3.4	10.6	1.3	2.2	0.2	1.1	0.2	26.7	19,268	1.93	35	5.9
	159.0	160.0	6990	12898	1281	3849	282	48.1	87.3	5.8	18.1	2.1	3.8	0.4	2.1	0.3	50.8	25,518	2.55	47.6	9.3

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	160.0	161.0	2416	4963	503	1592	133	23.7	44.3	3.2	11.5	1.5	3.0	0.3	1.7	0.3	38.1	9,734	0.97	41.4	13.2
	161.0	162.0	1665	3624	378	1318	148	32.3	82.1	12.4	79.1	14.4	39.5	4.8	27.0	3.7	476.2	7,905	0.79	98.1	19.9
	162.0	163.0	1023	2070	234	825	102	24.0	62.0	7.5	40.3	7.2	18.2	2.5	15.0	2.0	223.5	4,655	0.47	47.3	13.7
	163.0	164.0	3917	7014	687	2146	184	34.6	71.5	5.8	22.6	3.0	6.9	0.8	4.7	0.7	83.8	14,184	1.42	59.4	8.4
	164.0	165.0	4914	10134	1096	3663	355	71.9	163.7	20.2	113.3	19.1	46.1	5.6	30.5	4.0	591.8	21,228	2.12	213	17.2
	165.0	166.0	6533	13635	1474	4841	424	69.0	122.8	7.3	24.6	2.8	5.3	0.6	3.1	0.6	76.2	27,219	2.72	106.5	4.9
	166.0	167.0	7330	15048	1649	5505	518	90.1	160.8	10.6	31.6	3.4	5.7	0.6	3.9	0.6	85.1	30,443	3.04	121.5	3.8
	167.0	168.0	12608	26779	3057	9821	889	151.1	262.8	15.4	43.8	4.3	6.8	0.6	3.3	0.6	100.3	53,743	5.37	192.5	5.1
	168.0	169.0	5829	12345	1365	4549	427	71.6	126.2	7.9	24.2	2.5	4.6	0.5	3.1	0.5	67.3	24,823	2.48	98.6	4.6
<b>KGKRC029</b>	0.0	1.0	3249	7432	790	2706	248	46.3	77.9	5.8	17.7	2.0	3.2	0.3	2.1	0.3	40.6	14,621	1.46	50.1	4.7
	1.0	2.0	3577	8107	859	2904	260	47.0	81.3	5.3	17.9	2.0	3.4	0.3	1.9	0.2	40.6	15,908	1.59	50.2	4.5
	2.0	3.0	2328	5466	599	2076	206	38.6	68.5	5.0	15.2	1.6	3.5	0.4	2.2	0.3	38.1	10,849	1.08	46	4.2
	3.0	4.0	2709	6535	721	2578	247	46.0	80.0	5.7	15.8	1.8	3.0	0.3	2.1	0.2	39.4	12,984	1.30	46.9	6.2
	4.0	5.0	5887	12775	1323	4199	329	52.3	85.8	5.2	15.6	1.7	2.7	0.3	1.4	0.2	35.6	24,715	2.47	60.4	5.5
	5.0	6.0	3436	7641	860	2893	250	40.6	65.6	4.3	13.4	1.5	2.4	0.3	1.6	0.2	38.1	15,248	1.52	40.4	5.7
	6.0	7.0	4105	9348	1026	3383	279	45.4	72.8	4.4	14.4	1.6	2.6	0.2	1.3	0.2	33.0	18,317	1.83	44	6
	7.0	8.0	3905	9139	1026	3394	275	42.5	70.0	4.4	13.4	1.5	2.4	0.3	1.4	0.2	33.0	17,909	1.79	41	6.1
	8.0	9.0	2580	5786	657	2274	228	42.5	74.8	5.8	20.4	2.8	5.7	0.7	4.0	0.6	71.1	11,754	1.18	45.6	6.4
	9.0	10.0	2604	5847	666	2304	241	43.3	80.1	6.1	23.3	3.0	5.7	0.7	3.9	0.5	80.0	11,908	1.19	55.1	6
	10.0	11.0	2486	5122	557	1901	218	43.0	85.0	7.9	30.8	4.4	9.7	1.1	6.2	0.9	132.1	10,606	1.06	78.3	4.1
	11.0	12.0	2404	5307	610	2158	238	44.0	81.1	6.2	21.9	2.8	5.4	0.6	3.4	0.4	77.5	10,960	1.10	61.2	4.2
	12.0	13.0	2369	5086	578	2006	219	41.1	74.8	6.1	22.0	2.9	5.3	0.7	3.8	0.6	77.5	10,492	1.05	53.8	5.1
	13.0	14.0	2838	6474	762	2706	276	49.4	84.5	5.4	17.1	1.9	3.5	0.4	1.9	0.3	43.2	13,264	1.33	45.7	7.3
	14.0	15.0	2744	6339	724	2484	220	37.3	61.0	3.9	11.7	1.4	2.2	0.2	1.4	0.2	29.2	12,659	1.27	32.3	6.5
	15.0	16.0	5489	11694	1226	3919	326	53.6	94.1	6.5	22.2	2.6	4.6	0.4	2.6	0.4	55.9	22,897	2.29	67.2	7.2
	16.0	17.0	3038	7420	874	3021	260	40.5	66.4	4.1	12.7	1.5	3.1	0.3	1.6	0.3	35.6	14,777	1.48	33.2	5.7
	17.0	18.0	2164	5122	591	2030	182	29.5	47.7	3.1	9.1	1.0	1.6	0.2	0.9	0.1	21.6	10,203	1.02	25.1	5.7
	18.0	19.0	2088	4435	492	1709	196	40.5	82.2	7.1	28.1	4.2	9.8	1.2	7.5	1.2	124.5	9,225	0.92	74.6	6.6
	19.0	20.0	2428	5270	598	2117	237	45.4	86.0	7.4	27.4	3.9	8.6	1.0	5.7	0.8	102.9	10,938	1.09	61.3	7.1
	20.0	21.0	1390	3034	341	1172	113	20.2	34.5	2.6	10.3	1.4	3.3	0.3	2.1	0.3	38.1	6,163	0.62	30.3	4.2
	21.0	22.0	2451	5147	571	1965	215	38.6	70.5	5.2	20.2	2.5	5.4	0.6	3.9	0.5	69.8	10,567	1.06	50.9	4.5
	22.0	23.0	2404	5737	671	2379	228	37.5	61.2	3.8	11.4	1.4	2.2	0.2	1.4	0.2	30.5	11,569	1.16	29.4	5.1
	23.0	24.0	1636	3440	390	1353	141	26.5	46.0	3.5	12.5	1.8	3.7	0.4	2.6	0.4	48.3	7,106	0.71	30.6	4
	24.0	25.0	645	1493	176	611	60	10.2	17.5	1.2	3.8	0.5	0.9	0.1	0.7	0.1	12.7	3,033	0.30	10.9	2.9
	25.0	26.0	1355	3132	356	1236	116	19.8	33.7	2.0	6.9	0.9	1.6	0.1	0.8	0.1	20.3	6,282	0.63	21.6	3.3
	26.0	27.0	1583	3685	422	1423	132	21.9	36.5	2.3	7.4	0.9	1.8	0.1	1.0	0.1	20.3	7,338	0.73	18.8	5.4
	27.0	28.0	1677	3943	462	1615	157	26.4	43.8	2.9	9.4	1.0	1.8	0.2	1.0	0.1	22.9	7,964	0.80	20.8	3.5
	28.0	29.0	919	2125	245	867	84	15.3	24.4	1.9	6.9	0.9	2.3	0.3	1.9	0.2	25.4	4,320	0.43	19.7	3.3
	29.0	30.0	202	452	51	174	19	4.4	8.2	1.2	5.6	1.1	3.2	0.4	2.7	0.4	31.8	957	0.10	24.3	2
	30.0	31.0	1396	3182	362	1260	124	21.5	35.6	2.4	6.9	0.8	1.5	0.2	1.3	0.2	19.1	6,412	0.64	23.1	7.4
	31.0	32.0	2592	5884	662	2280	219	39.0	61.6	4.1	11.3	1.3	1.9	0.2	1.3	0.2	26.7	11,785	1.18	37.9	9.8
	32.0	33.0	1830	3747	408	1388	165	34.6	70.8	7.1	30.1	4.3	9.5	1.3	6.4	0.9	124.5	7,827	0.78	59.8	8.6

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	33.0	34.0	1783	3882	435	1516	178	36.7	73.3	6.6	25.7	3.9	8.7	0.9	5.8	0.7	104.1	8,060	0.81	61.7	8.3
	34.0	35.0	2041	4447	501	1761	205	43.0	81.4	7.3	28.1	3.9	8.5	1.0	5.2	0.7	110.5	9,245	0.92	66.2	10.1
	35.0	36.0	2017	4263	472	1656	190	37.6	72.7	6.5	24.6	3.5	7.8	1.0	5.2	0.6	99.1	8,857	0.89	55.2	7.7
	36.0	37.0	4844	10245	1064	3453	306	53.8	92.3	6.7	20.3	2.6	5.2	0.5	3.0	0.4	61.0	20,157	2.02	58.3	7.5
	37.0	38.0	1947	3857	416	1411	167	35.9	73.7	7.4	31.1	4.6	10.3	1.4	7.0	1.0	138.4	8,109	0.81	56.9	7.5
	38.0	39.0	1853	3980	443	1545	184	39.0	78.8	7.5	30.3	4.3	9.3	1.2	7.0	0.9	129.5	8,314	0.83	58.9	5.9
	39.0	40.0	2017	4041	437	1522	202	44.6	93.7	9.1	34.8	5.1	11.6	1.3	6.6	0.8	151.1	8,579	0.86	70.6	4.5
	40.0	41.0	2615	6719	834	3138	356	62.9	106.9	8.3	27.0	3.5	7.8	0.9	4.7	0.6	101.6	13,986	1.40	87.7	3.8
	41.0	42.0	4703	11338	1317	4631	452	77.5	128.5	8.8	26.9	3.4	6.0	0.7	4.0	0.6	85.1	22,782	2.28	88.5	4.4
	42.0	43.0	4855	11215	1263	4281	391	64.7	102.6	6.1	17.6	1.7	3.1	0.3	1.6	0.2	40.6	22,243	2.22	58.7	6.1
	43.0	44.0	2580	5712	643	2193	191	31.2	48.8	3.0	9.3	1.0	1.6	0.2	0.8	0.2	20.3	11,435	1.14	26.3	4.8
	44.0	45.0	2697	6081	683	2344	225	39.1	65.0	4.6	13.8	1.6	3.0	0.4	2.2	0.4	39.4	12,199	1.22	38.8	5.7
	45.0	46.0	2909	7555	957	3581	355	54.5	81.8	4.8	12.7	1.4	2.6	0.2	1.7	0.2	33.0	15,549	1.55	46.4	6.8
	46.0	47.0	2885	7014	846	3068	296	49.0	75.2	4.6	13.0	1.5	2.2	0.3	1.4	0.2	29.2	14,285	1.43	39.9	6.9
	47.0	48.0	2686	5602	610	2070	227	43.7	78.2	6.6	23.0	3.3	6.9	0.8	4.2	0.6	86.4	11,448	1.14	61.8	4.8
	48.0	49.0	2439	5036	549	1884	226	46.3	91.4	9.2	35.1	5.3	11.6	1.3	6.7	0.9	154.9	10,497	1.05	82.1	5.4
	49.0	50.0	2615	6203	713	2484	228	37.5	59.6	4.1	11.1	1.2	1.9	0.3	1.5	0.2	26.7	12,388	1.24	31.5	5
	50.0	51.0	3413	7948	890	3033	281	46.4	72.2	4.5	11.5	1.0	1.7	0.2	0.9	0.1	24.1	15,727	1.57	37.3	5.6
	51.0	52.0	2522	5970	681	2321	206	35.1	54.5	3.5	9.3	1.0	1.6	0.2	1.1	0.1	21.6	11,828	1.18	29.7	4.9
	52.0	53.0	2393	5430	602	1989	166	25.8	40.3	2.5	7.0	0.7	1.1	0.2	0.7	0.1	16.5	10,673	1.07	21.7	6.8
	53.0	54.0	2615	5933	654	2175	191	30.9	51.6	3.7	10.0	1.2	1.9	0.2	1.1	0.2	26.7	11,696	1.17	30.1	6.8
	54.0	55.0	1818	4054	442	1446	119	20.2	33.0	2.6	8.7	1.1	2.3	0.2	1.4	0.2	29.2	7,978	0.80	18.1	5.9
	55.0	56.0	672	1382	164	527	48	9.5	18.6	1.7	7.6	1.2	3.0	0.4	2.4	0.3	33.0	2,870	0.29	8.1	2
	56.0	57.0	4081	8206	896	2811	217	38.2	62.0	4.7	13.8	1.7	2.9	0.3	1.8	0.3	35.6	16,373	1.64	33.8	4.8
	57.0	58.0	4937	9324	987	3126	249	42.3	68.6	4.6	13.5	1.5	2.9	0.3	1.7	0.3	36.8	18,796	1.88	35.2	6.7
	58.0	59.0	10485	18365	1897	5797	451	81.8	133.1	9.0	26.5	2.7	4.1	0.4	2.5	0.3	55.9	37,311	3.73	89.5	6.1
	59.0	60.0	1243	2408	267	876	77	15.1	28.2	2.4	10.1	1.4	3.5	0.4	2.9	0.4	39.4	4,975	0.50	15.6	2.1
	60.0	61.0	5219	10159	1119	3581	304	51.4	87.4	6.0	19.2	2.5	4.7	0.6	3.5	0.4	59.7	20,617	2.06	41.5	4.2
	61.0	62.0	8116	16215	1861	6159	579	106.6	176.9	10.8	31.1	3.1	5.4	0.6	2.4	0.4	68.6	33,334	3.33	86.1	5.9
	62.0	63.0	22752	37835	4108	11722	937	163.3	261.6	16.5	43.0	4.0	6.4	0.6	2.7	0.4	85.1	77,938	7.79	135.5	5.3
	63.0	64.0	11787	19716	1994	6065	513	91.6	152.1	9.9	27.1	2.8	4.9	0.5	2.4	0.3	63.5	40,429	4.04	87.7	5.6
	64.0	65.0	8644	15171	1571	4841	390	66.9	106.2	6.5	18.4	1.9	3.1	0.3	1.6	0.2	41.9	30,862	3.09	58.9	3.6
	65.0	66.0	6228	11105	1166	3628	300	53.0	87.3	5.9	17.8	2.2	3.8	0.4	2.3	0.4	48.3	22,647	2.26	48.3	1.8
	66.0	67.0	1396	2641	271	865	83	15.9	31.4	2.8	12.7	2.0	4.9	0.6	3.9	0.6	52.1	5,383	0.54	15	1.1
	67.0	68.0	5184	8894	907	2764	220	40.4	63.1	4.8	16.2	2.3	4.6	0.7	3.6	0.5	55.9	18,161	1.82	39.1	1.9
	68.0	69.0	21286	35009	3552	9786	733	129.1	207.5	13.7	36.4	3.6	5.7	0.5	2.2	0.4	74.9	70,841	7.08	130.5	4.3
	69.0	70.0	33659	53558	5232	14463	975	162.1	261.6	17.8	50.5	5.4	8.6	0.8	4.8	0.7	116.8	108,517	10.85	163	5.6
	70.0	71.0	49140	80583	7008	20062	1247	206.1	321.6	22.6	66.6	7.2	11.7	1.2	6.4	0.8	157.5	158,841	15.88	207	7
	71.0	72.0	56529	95938	8457	24261	1484	245.5	365.4	23.6	67.7	6.9	10.6	1.0	5.1	0.7	153.7	187,550	18.76	219	6.4
	72.0	73.0	21462	35624	3697	10206	731	119.3	181.5	10.8	25.6	2.3	3.5	0.3	1.6	0.2	47.0	72,112	7.21	101.5	2
	73.0	74.0	25567	42625	4422	12072	853	143.6	218.4	13.2	31.7	2.8	4.0	0.3	1.0	0.2	54.6	86,010	8.60	125	2.2
	74.0	75.0	27678	45819	4784	13414	924	151.1	228.2	13.4	33.4	3.0	3.9	0.3	0.9	0.1	57.2	93,111	9.31	126.5	2.4
	75.0	76.0	10778	18733	1903	5669	424	72.1	109.5	6.7	16.6	1.7	2.9	0.2	1.1	0.2	36.8	37,755	3.78	58.1	2.2



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm	
	76.0	77.0	24160	40660	4289	12306	829	136.1	210.4	12.7	34.0	3.4	5.6	0.4	2.4	0.3	72.4	82,721	8.27	117	3.2	
	77.0	78.0	25919	44222	4700	12889	906	146.5	224.8	13.4	34.2	3.3	4.9	0.5	2.1	0.3	69.8	89,135	8.91	124.5	3.9	
	78.0	79.0	19527	32921	3443	9355	664	110.1	169.4	10.8	29.6	2.8	4.6	0.4	2.2	0.4	64.8	66,306	6.63	97.1	3	
	79.0	80.0	18354	30833	3262	9086	644	107.8	163.7	10.2	25.0	2.5	3.5	0.3	1.5	0.2	48.3	62,542	6.25	92.2	2.5	
	80.0	81.0	9898	17259	1830	5610	421	71.1	106.7	6.4	16.2	1.5	1.8	0.2	0.9	0.1	30.5	35,255	3.53	58.1	2.3	
	81.0	82.0	14425	25428	2658	8200	641	107.8	165.4	10.0	27.0	2.5	4.1	0.3	1.9	0.2	57.2	51,729	5.17	92.5	2.7	
	82.0	83.0	10989	20269	2211	7138	598	102.5	158.5	9.1	22.4	2.1	3.1	0.3	1.3	0.2	43.2	41,548	4.15	96	2.6	
	83.0	84.0	19293	31693	3286	9016	646	106.9	163.1	10.0	25.7	2.6	3.9	0.3	1.5	0.3	49.5	64,297	6.43	78.5	3.1	
<b>KGKRC030</b>	0.0	1.0	10614	18242	1716	5365	393	66.1	118.7	9.0	32.9	3.6	6.2	0.6	3.3	0.4	87.6	36,658	3.67	92.5	10.8	
	1.0	2.0	11071	18917	1800	5529	388	65.3	110.9	8.5	26.6	3.0	4.7	0.5	2.4	0.3	72.4	38,001	3.80	86.7	14.8	
	2.0	3.0	6603	10773	954	2799	177	28.1	45.2	3.1	12.1	1.4	3.1	0.2	1.6	0.2	33.0	21,435	2.14	25.8	10.2	
	3.0	4.0	2697	4791	433	1306	91	15.3	25.8	2.1	9.3	1.2	2.1	0.2	1.0	0.2	30.5	9,405	0.94	17.2	11.4	
	4.0	5.0	4175	6511	574	1685	116	19.8	36.0	3.1	11.8	1.3	2.3	0.2	1.3	0.1	33.0	13,170	1.32	28.6	6.3	
	5.0	6.0	7260	11326	999	2869	168	27.7	45.1	2.9	10.1	1.1	1.8	0.2	0.9	0.2	25.4	22,737	2.27	22.2	6.6	
	6.0	7.0	4562	7211	629	1843	120	18.8	31.0	2.3	8.0	1.1	1.8	0.2	1.3	0.1	25.4	14,455	1.45	23.5	11.3	
	7.0	8.0	4562	6904	594	1691	96	15.3	23.2	1.6	5.2	0.6	1.3	0.1	0.8	0.1	16.5	13,913	1.39	11.8	6.8	
	8.0	9.0	3272	5172	435	1236	75	12.2	20.3	1.5	5.5	0.6	1.3	0.1	0.6	0.1	15.2	10,247	1.02	13.4	12.6	
	9.0	10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10.0	11.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11.0	12.0	24160	37221	3576	9704	637	107.0	184.4	13.4	44.9	4.9	8.1	0.7	3.2	0.4	111.8	75,776	7.58	115.5	20.2	
	12.0	13.0	12549	19102	1655	4724	302	49.4	85.5	6.1	22.0	2.5	5.2	0.4	2.5	0.3	64.8	38,570	3.86	65.3	18	
	13.0	14.0	3495	5503	477	1394	94	16.0	29.1	2.4	9.4	1.3	2.6	0.3	2.1	0.2	31.8	11,059	1.11	31.5	12.9	
	14.0	15.0	1255	2002	181	546	39	7.5	14.0	1.2	5.4	0.9	1.8	0.2	1.3	0.2	21.6	4,077	0.41	22.9	11.4	
	15.0	16.0	2240	3562	294	830	52	9.6	17.5	1.4	5.9	0.9	1.8	0.2	1.1	0.2	22.9	7,040	0.70	23.2	22	
	16.0	17.0	3237	5282	451	1306	84	15.3	24.9	2.2	8.4	1.2	2.2	0.3	1.5	0.2	29.2	10,445	1.04	26.4	17	
	17.0	18.0	9265	14065	1220	3488	217	35.3	56.0	4.0	14.0	1.6	2.9	0.3	1.6	0.2	39.4	28,411	2.84	33.2	12	
	18.0	19.0	7717	11805	1041	2998	192	32.1	51.8	3.1	10.8	1.1	2.2	0.2	1.0	0.2	26.7	23,883	2.39	38.8	11.8	
	19.0	20.0	7858	12223	1064	3068	192	30.7	52.0	3.6	12.1	1.4	2.6	0.2	1.1	0.2	34.3	24,543	2.45	40.7	11.3	
	20.0	21.0	5348	8292	721	2094	136	24.2	43.7	3.3	13.3	1.8	3.9	0.4	2.4	0.3	52.1	16,736	1.67	35.8	12.6	
	21.0	22.0	6321	9557	814	2298	130	20.6	34.8	2.3	7.9	0.9	1.7	0.2	1.1	0.2	20.3	19,210	1.92	20.1	7.2	
	22.0	23.0	4539	7420	684	2076	137	22.2	37.9	2.4	7.8	0.9	1.6	0.1	0.8	0.1	20.3	14,949	1.49	18	6.1	
	23.0	24.0	8585	13512	1207	3534	223	35.6	58.0	3.6	11.6	1.2	1.7	0.2	1.1	0.1	26.7	27,201	2.72	22.1	5.7	
	24.0	25.0	4879	8353	788	2403	162	27.2	45.5	3.0	9.4	1.0	1.9	0.2	1.1	0.2	26.7	16,701	1.67	20.5	7.8	
	25.0	26.0	3917	6523	597	1808	117	18.4	30.5	2.0	6.4	0.6	1.1	0.2	0.8	0.1	15.2	13,037	1.30	13.6	6	
	26.0	27.0	4187	6732	598	1750	109	17.1	27.9	1.6	6.1	0.7	1.3	0.1	0.9	0.1	15.2	13,446	1.34	13.1	5.2	
	27.0	28.0	5125	8697	819	2461	157	24.6	40.7	2.6	7.9	0.9	1.8	0.2	0.8	0.1	17.8	17,356	1.74	14.7	7.7	
	28.0	29.0	7095	11510	1072	3289	228	38.9	65.9	4.6	15.6	1.6	2.7	0.3	1.4	0.2	41.9	23,368	2.34	26.2	6.8	
	29.0	30.0	3401	6461	642	2105	173	30.7	58.0	4.2	16.5	2.2	4.2	0.4	2.4	0.4	54.6	12,956	1.30	22.5	8.7	
	30.0	31.0	3073	6093	600	1954	153	27.4	50.9	4.2	15.8	2.2	4.9	0.6	4.1	0.5	57.2	12,041	1.20	24.4	9.5	
	31.0	32.0	7506	12960	1232	3872	270	44.2	74.0	5.1	17.7	1.9	3.5	0.3	1.6	0.2	41.9	26,031	2.60	44.4	6.9	
	32.0	33.0	5430	9606	888	2613	172	28.1	54.2	5.5	19.3	2.3	3.5	0.3	1.5	0.2	49.5	18,873	1.89	46.3	3.8	
	33.0	34.0	3894	8169	853	2823	231	40.5	73.9	6.3	20.5	2.6	5.0	0.5	3.2	0.4	64.8	16,187	1.62	36.9	9.1	

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	34.0	35.0	3073	6363	668	2228	206	39.3	77.9	7.1	27.2	3.7	8.5	0.9	4.9	0.6	105.4	12,813	1.28	46.6	7
	35.0	36.0	3108	6621	716	2473	235	44.0	86.7	7.2	26.9	3.6	7.3	0.8	4.1	0.6	95.2	13,430	1.34	41.3	8.1
	36.0	37.0	3038	6670	720	2473	227	42.0	82.6	7.2	27.7	3.7	8.1	0.9	4.6	0.6	94.0	13,399	1.34	34.6	8.8
	37.0	38.0	2639	5614	620	2100	183	34.3	66.2	5.7	20.9	2.8	6.3	0.7	4.2	0.6	74.9	11,372	1.14	34.6	11.2
	38.0	39.0	2721	5933	651	2234	217	39.0	75.8	6.3	23.0	3.0	5.8	0.7	3.4	0.5	77.5	11,991	1.20	33.7	10
	39.0	40.0	3002	6633	742	2566	240	43.8	83.0	6.9	24.7	3.2	6.8	0.7	3.8	0.4	82.5	13,439	1.34	39.2	8.7
	40.0	41.0	3143	7137	789	2683	225	38.8	70.3	5.8	20.9	2.9	6.8	0.7	3.9	0.5	77.5	14,205	1.42	38.3	9.6
	41.0	42.0	3495	7530	800	2624	218	36.5	67.8	5.6	19.3	2.4	5.3	0.6	3.2	0.5	62.2	14,870	1.49	39.4	9.9
	42.0	43.0	3026	6621	678	2175	157	24.1	40.2	2.7	9.2	1.2	2.3	0.2	1.6	0.2	27.9	12,767	1.28	17.6	10.8
	43.0	44.0	3249	7039	727	2368	162	24.2	37.9	2.5	7.9	1.0	1.9	0.2	1.1	0.2	21.6	13,643	1.36	19.2	8.6
	44.0	45.0	5043	10257	1020	3138	206	31.0	51.3	3.6	10.8	1.3	2.7	0.3	1.4	0.2	31.8	19,798	1.98	26.9	9
	45.0	46.0	7307	14127	1402	4397	366	67.3	126.8	9.5	28.5	2.9	4.8	0.5	2.5	0.3	67.3	27,909	2.79	83.7	8.5
	46.0	47.0	3647	8341	909	3114	285	52.2	93.1	7.0	20.2	2.2	3.8	0.4	2.4	0.3	48.3	16,526	1.65	69.1	7.4
	47.0	48.0	3014	7100	805	2834	260	45.7	80.6	5.9	17.7	2.0	4.0	0.5	2.3	0.4	50.8	14,223	1.42	54.2	7.5
	48.0	49.0	3812	8537	923	3079	242	37.1	58.8	3.8	12.1	1.5	3.1	0.3	2.1	0.3	36.8	16,749	1.67	29.3	8
	49.0	50.0	3612	8181	875	2951	233	36.5	60.2	4.0	11.8	1.5	2.7	0.3	1.6	0.3	38.1	16,009	1.60	29.6	6.5
	50.0	51.0	3389	7334	779	2554	195	32.3	52.9	3.4	11.0	1.1	2.4	0.2	1.1	0.2	27.9	14,384	1.44	28.6	7.9
	51.0	52.0	3659	8243	880	2939	220	34.5	55.1	3.5	9.6	0.9	1.7	0.2	1.0	0.2	22.9	16,070	1.61	28.6	7.1
	52.0	53.0	4844	10503	1110	3616	277	42.8	69.2	4.6	12.9	1.3	2.2	0.2	1.3	0.2	29.2	20,514	2.05	49.1	13.1
	53.0	54.0	3929	8673	940	3091	245	40.0	67.0	4.3	13.0	1.4	2.2	0.2	1.1	0.1	29.2	17,035	1.70	40.4	5.8
	54.0	55.0	3565	8193	893	3044	254	43.4	73.2	4.9	14.0	1.5	3.0	0.3	1.5	0.2	35.6	16,127	1.61	42.1	6
	55.0	56.0	4046	9225	1011	3441	283	46.0	74.6	5.1	15.5	1.6	2.6	0.3	1.5	0.3	38.1	18,192	1.82	48.1	6.4
	56.0	57.0	2756	6093	685	2321	182	29.0	49.9	3.4	9.4	1.1	1.9	0.2	1.0	0.1	22.9	12,156	1.22	23.3	6.5
	57.0	58.0	2404	5393	622	2111	184	31.5	56.7	4.4	14.2	1.7	3.8	0.4	2.3	0.4	45.7	10,875	1.09	35.3	7.1
	58.0	59.0	3776	8808	965	3289	259	41.3	67.4	4.6	13.1	1.4	2.3	0.2	1.3	0.2	29.2	17,258	1.73	41.4	5.6
	59.0	60.0	4011	9250	1006	3371	248	37.2	58.0	3.5	9.6	1.0	1.7	0.2	1.0	0.2	22.9	18,021	1.80	29.5	5.3
	60.0	61.0	4762	10970	1196	3989	296	44.0	69.5	4.3	11.9	1.3	2.2	0.2	1.1	0.2	25.4	21,372	2.14	41.8	4.1
	61.0	62.0	3131	7211	764	2531	189	29.3	48.1	3.2	9.2	1.1	1.9	0.2	1.1	0.2	25.4	13,945	1.39	30.7	6.4
	62.0	63.0	5407	12259	1359	4526	343	52.1	83.8	4.1	12.1	1.1	2.1	0.2	1.3	0.1	26.7	24,078	2.41	41.4	3.7
	63.0	64.0	5606	12591	1377	4584	349	54.1	86.8	4.7	13.7	1.2	1.8	0.2	0.9	0.1	27.9	24,699	2.47	43.7	4.4
	64.0	65.0	4738	11142	1220	4036	325	50.7	77.9	4.3	11.9	1.2	2.1	0.2	1.1	0.2	26.7	21,637	2.16	38.9	4
	65.0	66.0	4562	10429	1155	3849	302	46.0	75.6	4.1	11.6	1.2	2.2	0.2	0.9	0.1	25.4	20,464	2.05	38.8	4.1
	66.0	67.0	4328	9999	1112	3709	290	44.2	74.6	3.9	11.1	1.2	1.9	0.2	1.1	0.2	25.4	19,601	1.96	38.6	4.6
	67.0	68.0	4163	9508	1040	3464	278	42.6	69.2	3.9	11.9	1.2	1.9	0.2	1.0	0.2	25.4	18,612	1.86	36	4
	68.0	69.0	4492	10134	1119	3732	299	47.1	76.2	4.3	12.3	1.3	2.2	0.2	1.1	0.2	30.5	19,952	2.00	37.4	3.4
	69.0	70.0	4421	9766	1057	3476	266	40.9	64.7	3.6	10.3	1.1	2.1	0.2	1.0	0.1	25.4	19,135	1.91	32.7	5.2
	70.0	71.0	3659	7763	901	2998	242	40.5	64.8	4.2	12.4	1.2	2.1	0.2	1.0	0.1	27.9	15,718	1.57	41.5	5.2
	71.0	72.0	2944	6142	707	2327	200	34.2	56.4	4.0	11.9	1.4	2.4	0.3	1.6	0.2	30.5	12,462	1.25	38.4	5.8
	72.0	73.0	3589	7874	932	3114	252	40.2	61.7	3.5	9.5	1.0	1.8	0.2	0.8	0.1	20.3	15,899	1.59	32.2	3.2
	73.0	74.0	3589	7751	890	2951	237	37.3	58.6	4.0	11.1	1.0	1.7	0.2	0.8	0.1	24.1	15,557	1.56	35.5	2.4
	74.0	75.0	3917	8501	986	3266	271	46.2	71.4	4.2	10.8	1.2	1.9	0.2	0.9	0.1	24.1	17,102	1.71	33.6	4.5
	75.0	76.0	2228	4717	553	1960	215	45.7	87.6	8.2	33.7	5.0	11.7	1.3	8.5	1.2	144.8	10,021	1.00	51.2	12.7
	76.0	77.0	2252	4828	576	2070	216	41.8	79.5	6.8	25.3	3.3	7.4	0.9	4.9	0.6	95.2	10,207	1.02	47	10.4

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	77.0	78.0	2093	4594	544	1925	213	44.6	91.1	9.4	45.6	7.2	17.6	2.3	13.0	1.6	221.0	9,823	0.98	57	11.6
	78.0	79.0	2135	4692	545	1884	179	32.4	57.9	4.1	13.1	1.6	3.1	0.3	1.9	0.3	41.9	9,591	0.96	44.2	5.9
	79.0	80.0	2920	6228	745	2589	248	47.1	84.8	6.6	21.0	2.3	4.1	0.5	2.9	0.4	58.4	12,959	1.30	75.4	9.7
	80.0	81.0	2604	5638	666	2315	230	41.3	71.2	5.3	17.7	2.3	4.7	0.5	2.9	0.4	58.4	11,658	1.17	38.7	9.3
	81.0	82.0	3249	6940	809	2753	239	40.2	66.0	4.3	13.4	1.5	2.7	0.3	1.4	0.2	36.8	14,157	1.42	33.1	5.9
	82.0	83.0	2826	6007	703	2403	230	41.6	74.8	5.6	17.9	2.0	3.4	0.4	2.2	0.3	43.2	12,360	1.24	57.9	7.4
	83.0	84.0	3131	6597	765	2531	212	35.0	53.7	3.6	10.7	1.2	2.3	0.3	1.4	0.2	29.2	13,373	1.34	29.7	6.2
	84.0	85.0	2557	5380	602	1977	151	23.5	37.8	2.5	7.1	0.9	1.6	0.2	1.0	0.1	20.3	10,762	1.08	20.2	4.8
	85.0	86.0	3870	8206	939	3068	241	37.9	58.3	3.9	10.8	1.3	2.5	0.2	1.4	0.2	29.2	16,469	1.65	28.4	6.2
	86.0	87.0	3460	6977	768	2484	195	32.5	53.9	3.6	11.5	1.4	2.4	0.3	1.7	0.2	31.8	14,025	1.40	33.5	8.6
	87.0	88.0	4832	8918	929	2776	195	31.5	52.8	3.7	11.1	1.3	2.3	0.2	1.4	0.2	30.5	17,786	1.78	42.2	8.2
	88.0	89.0	5266	9655	1002	2951	191	29.8	49.0	3.4	10.0	1.0	1.9	0.2	1.3	0.2	25.4	19,187	1.92	30.9	5.9
	89.0	90.0	5020	8771	870	2543	166	25.9	42.5	3.2	10.3	1.2	1.9	0.2	1.1	0.1	26.7	17,483	1.75	26.1	6.3
	90.0	91.0	4984	9090	961	2974	231	39.7	62.0	4.1	11.3	1.2	1.9	0.2	0.9	0.1	26.7	18,389	1.84	39.3	5.7
	91.0	92.0	6122	11658	1119	3313	209	32.3	52.6	3.2	10.0	1.1	2.1	0.2	0.9	0.2	27.9	22,551	2.26	27.9	5.8
	92.0	93.0	5395	10441	1021	3056	191	30.6	50.1	3.2	10.4	1.2	2.2	0.2	1.3	0.1	30.5	20,234	2.02	31.2	7
	93.0	94.0	6028	12137	1214	3639	240	37.9	65.7	4.3	13.3	1.6	3.0	0.3	1.7	0.3	41.9	23,428	2.34	48.5	8.7
	94.0	95.0	4292	8353	820	2414	147	22.5	36.7	2.5	8.0	1.0	1.9	0.2	1.1	0.2	24.1	16,126	1.61	24.6	6.4
	95.0	96.0	4210	8636	878	2694	171	26.6	44.7	2.8	9.3	1.0	2.1	0.2	1.5	0.2	27.9	16,706	1.67	28.3	5.6
	96.0	97.0	4633	9545	973	2974	187	27.1	43.7	2.5	8.4	1.0	1.8	0.2	1.1	0.2	24.1	18,421	1.84	22.1	5.4
	97.0	98.0	4410	9766	1039	3383	262	42.6	69.0	4.2	11.7	1.2	2.2	0.2	1.3	0.2	29.2	19,021	1.90	42.2	4.6
	98.0	99.0	3812	8734	950	3126	247	40.1	64.9	3.8	11.5	1.2	2.4	0.2	1.3	0.1	26.7	17,020	1.70	39.2	3.8
	99.0	100.0	4515	10257	1106	3651	271	41.7	68.6	3.8	11.3	1.2	1.9	0.2	1.3	0.2	27.9	19,958	2.00	41.2	4
	100.0	101.0	4808	10626	1143	3697	282	43.8	74.1	4.2	12.6	1.3	2.1	0.2	1.3	0.2	27.9	20,724	2.07	47.2	5.6
	101.0	102.0	3730	7948	830	2601	175	26.4	44.8	2.6	8.6	1.0	1.8	0.2	1.3	0.2	24.1	15,395	1.54	27.6	7.9
	102.0	103.0	4246	9324	979	3103	206	29.9	48.9	2.9	9.2	1.0	1.9	0.2	1.1	0.2	25.4	17,977	1.80	28.8	7
	103.0	104.0	4339	9618	1032	3278	227	33.0	52.6	2.9	8.8	1.0	1.6	0.2	0.9	0.1	21.6	18,617	1.86	27.8	4.5
	104.0	105.0	5184	11080	1156	3651	257	39.3	64.9	3.7	10.8	1.2	2.1	0.2	1.3	0.2	27.9	21,480	2.15	38.3	4.5
	105.0	106.0	4633	9201	916	2811	187	29.8	49.8	3.3	9.6	1.3	2.4	0.3	1.5	0.3	29.2	17,875	1.79	29.6	6.4
	106.0	107.0	3929	8169	854	2694	211	35.7	60.2	4.1	14.2	1.7	3.1	0.4	2.3	0.4	41.9	16,021	1.60	38.4	7.6
	107.0	108.0	4375	9790	1061	3453	288	49.2	80.5	5.3	17.5	2.1	4.1	0.4	2.4	0.3	48.3	19,176	1.92	52	7
	108.0	109.0	2592	5356	571	1849	179	35.8	71.2	6.5	27.0	4.0	8.5	1.0	5.8	0.8	106.7	10,814	1.08	44.3	10.5
	109.0	110.0	2140	4115	419	1341	135	28.1	59.1	5.5	22.4	3.4	6.8	0.8	4.7	0.5	87.6	8,370	0.84	41.4	13.2
	110.0	111.0	1853	3710	390	1231	117	24.4	47.8	4.2	17.6	2.4	4.8	0.6	3.5	0.5	62.2	7,469	0.75	37.2	13.8
	111.0	112.0	5067	9508	929	2834	233	42.2	74.6	5.3	18.4	2.1	4.4	0.4	2.3	0.4	52.1	18,773	1.88	48.3	11.8
	112.0	113.0	3401	6732	687	2129	183	34.5	68.5	6.3	25.1	3.1	6.3	0.7	4.3	0.6	88.9	13,370	1.34	46.9	11.8
	113.0	114.0	3049	5589	541	1615	134	27.0	55.3	5.5	23.5	3.3	7.3	0.8	4.7	0.7	92.7	11,150	1.12	38.2	9.2
	114.0	115.0	2199	4484	477	1540	145	30.0	63.5	5.9	21.7	2.8	6.1	0.8	4.3	0.8	80.0	9,060	0.91	54.9	6.5
	115.0	116.0	2340	4840	511	1662	156	30.3	60.9	5.7	23.6	3.4	7.6	0.8	4.6	0.7	96.5	9,743	0.97	34.4	11.4
	116.0	117.0	2269	4729	506	1639	147	26.6	53.9	4.7	19.4	2.9	6.3	0.6	4.0	0.5	76.2	9,486	0.95	36.6	8.6
	117.0	118.0	2627	5258	550	1767	152	28.3	54.6	4.9	20.8	2.9	6.2	0.7	4.1	0.6	80.0	10,556	1.06	37.2	9.2
	118.0	119.0	3190	5872	567	1703	140	28.0	55.0	4.8	19.3	2.9	6.3	0.7	3.8	0.5	77.5	11,670	1.17	33.7	8
	119.0	120.0	3483	6265	603	1802	151	29.8	59.2	5.3	22.5	3.2	6.8	0.8	3.6	0.6	85.1	12,521	1.25	41.5	8

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	120.0	121.0	3213	5786	549	1627	138	26.4	54.2	4.8	18.6	2.8	5.6	0.7	3.5	0.5	71.1	11,501	1.15	33.3	6.6
	121.0	122.0	3155	5184	458	1271	95	19.5	42.9	4.5	17.6	2.7	5.3	0.6	3.1	0.5	63.5	10,323	1.03	23.7	7
	122.0	123.0	3073	5589	510	1487	126	25.6	53.5	5.4	21.5	3.1	6.5	0.9	3.9	0.6	80.0	10,986	1.10	36.1	9.7
	123.0	124.0	3026	5380	506	1464	118	22.2	47.3	4.5	17.9	2.8	5.8	0.6	3.6	0.5	71.1	10,670	1.07	26.1	7
	124.0	125.0	3964	7002	656	1977	179	37.5	84.6	9.4	35.0	4.4	8.5	1.0	6.4	1.0	115.6	14,082	1.41	86.7	15.8
	125.0	126.0	2533	4533	418	1184	81	14.8	30.4	3.0	11.3	1.4	2.9	0.3	1.9	0.3	35.6	8,851	0.89	26.8	10.2
	126.0	127.0	6392	10466	946	2601	166	28.3	48.6	3.8	12.6	1.6	2.7	0.3	1.7	0.2	38.1	20,709	2.07	36.6	7.6
	127.0	128.0	11458	18426	1661	4584	304	52.3	93.4	7.0	20.5	2.1	3.4	0.3	1.3	0.1	48.3	36,662	3.67	64.1	6.7
	128.0	129.0	2639	5466	569	1802	169	34.5	73.1	7.4	30.2	4.7	9.5	1.1	5.9	0.7	116.8	10,929	1.09	48.4	10.8
	129.0	130.0	1090	2076	216	715	86	21.4	53.5	6.7	30.9	5.1	11.9	1.3	7.2	1.2	138.4	4,460	0.45	28.8	9.4
	130.0	131.0	2357	5061	534	1755	177	41.8	101.9	11.6	42.4	4.9	9.3	1.0	7.1	1.1	125.7	10,232	1.02	116	10.8
	131.0	132.0	2035	3882	381	1172	128	31.5	85.8	10.6	42.1	5.7	11.9	1.4	9.2	1.4	153.7	7,950	0.80	100	8.9
	132.0	133.0	5020	10294	1114	3534	318	58.8	111.5	8.5	27.3	3.6	7.1	0.7	4.7	0.7	90.2	20,592	2.06	91.2	7.2
	133.0	134.0	5008	9434	945	2869	228	40.3	77.8	5.9	17.9	1.8	2.9	0.3	1.5	0.2	40.6	18,674	1.87	58.4	8
	134.0	135.0	4351	7567	712	2088	165	29.6	54.3	4.3	12.4	1.4	2.4	0.2	1.1	0.1	33.0	15,021	1.50	42.7	8.4
	135.0	136.0	2058	3968	378	1112	87	15.9	31.8	2.7	9.3	1.3	2.7	0.3	1.7	0.2	34.3	7,703	0.77	26.8	10.4
	136.0	137.0	2522	5086	497	1551	136	27.7	59.2	5.5	21.4	3.1	6.9	0.7	4.0	0.6	76.2	9,996	1.00	33.3	15.6
	137.0	138.0	2381	4877	493	1528	133	26.3	55.9	5.1	22.7	3.3	7.2	0.8	4.4	0.6	83.8	9,621	0.96	31.2	12.6
	138.0	139.0	3518	6658	661	2000	166	33.7	69.4	6.4	26.9	3.9	8.6	0.8	4.8	0.6	104.1	13,263	1.33	49.4	9.8
	139.0	140.0	2873	5270	510	1615	202	46.8	101.9	9.9	40.6	6.4	13.3	1.5	8.7	1.0	154.9	10,855	1.09	71.1	23.6
	140.0	141.0	2088	3734	350	1050	109	25.2	58.1	6.3	27.7	4.2	8.9	1.0	5.9	0.7	109.2	7,579	0.76	26.5	8.9
	141.0	142.0	2803	5184	503	1516	138	29.1	63.9	6.6	29.3	4.6	10.2	1.2	7.3	0.8	118.1	10,415	1.04	42.6	17.7
	142.0	143.0	2768	5307	523	1621	147	30.9	65.9	6.5	26.5	3.9	8.9	0.9	5.0	0.7	99.1	10,614	1.06	32.6	9.1
	143.0	144.0	2662	5000	476	1429	129	26.9	58.9	6.1	25.3	3.9	8.7	1.0	4.7	0.6	100.3	9,932	0.99	37.2	7.3
	144.0	145.0	2510	4607	440	1341	122	27.3	61.0	6.4	27.2	4.1	8.9	1.1	5.2	0.6	104.1	9,266	0.93	46.6	6
	145.0	146.0	2316	4201	401	1225	109	25.1	55.6	6.0	25.1	3.9	8.2	0.9	5.1	0.6	99.1	8,482	0.85	24.9	6.3
	146.0	147.0	1783	3550	361	1150	116	25.5	56.5	6.0	25.9	3.9	8.0	0.9	4.8	0.7	100.3	7,193	0.72	25.9	6.3
	147.0	148.0	2639	5909	646	2181	214	44.8	88.1	8.1	33.3	4.9	11.1	1.3	7.1	0.9	128.3	11,917	1.19	50.7	9.3
	148.0	149.0	4926	10429	1126	3686	324	60.1	108.0	8.1	27.9	3.6	7.2	0.8	4.2	0.6	91.4	20,802	2.08	71.1	8.7
	149.0	150.0	2897	5577	533	1627	140	27.7	58.8	5.4	21.1	3.2	7.0	0.8	3.8	0.5	77.5	10,980	1.10	39	9.9
	150.0	151.0	2838	5344	513	1650	134	25.6	49.8	4.7	17.0	2.5	5.7	0.6	3.3	0.4	64.8	10,654	1.07	29.6	8.9
	151.0	152.0	2346	4496	436	1394	113	20.4	39.5	3.6	13.7	1.8	4.2	0.5	2.5	0.3	47.0	8,918	0.89	29.2	8.7
	152.0	153.0	2357	4729	476	1621	158	31.2	64.9	5.8	22.7	3.3	6.9	0.8	4.4	0.6	83.8	9,566	0.96	45.7	6.5
	153.0	154.0	3718	6449	619	1983	179	34.2	71.0	7.5	30.0	3.7	8.0	0.9	5.5	0.6	96.5	13,205	1.32	67.2	9.7
	154.0	155.0	3565	5847	541	1680	144	29.3	67.1	7.5	32.3	4.7	9.8	1.1	6.6	0.9	125.7	12,063	1.21	56.8	11
	155.0	156.0	3460	6105	582	1843	165	31.3	67.0	6.5	24.3	3.8	8.2	0.8	5.0	0.7	96.5	12,400	1.24	51.4	11.8
	156.0	157.0	2369	4275	408	1301	124	23.2	50.6	5.0	21.6	3.1	7.4	0.8	4.3	0.6	86.4	8,679	0.87	30.1	10.8
	157.0	158.0	4246	7162	679	2117	165	29.1	56.9	5.8	22.5	2.9	5.3	0.6	3.2	0.4	73.7	14,568	1.46	46.1	16
	158.0	159.0	3026	5454	522	1615	116	20.5	34.6	2.7	9.9	1.4	2.7	0.3	1.6	0.2	33.0	10,840	1.08	34.2	13.8
	159.0	160.0	6732	10294	889	2554	162	27.3	45.8	3.5	11.3	1.6	2.9	0.3	1.6	0.2	36.8	20,763	2.08	32.7	12.4
	160.0	161.0	16478	24384	2078	5750	334	51.6	86.2	5.9	16.6	2.2	4.2	0.4	1.9	0.3	50.8	49,244	4.92	40.3	11.8
	161.0	162.0	4902	8292	794	2461	199	35.3	67.4	5.8	21.1	3.1	6.5	0.7	4.0	0.6	80.0	16,873	1.69	44.5	15.4
	162.0	163.0	3554	6621	661	2175	192	35.4	70.3	6.0	23.1	3.3	7.8	0.7	4.9	0.6	86.4	13,441	1.34	39.6	13.8

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	163.0	164.0	2920	5651	571	1919	175	33.9	67.1	6.0	24.6	3.4	7.7	0.9	4.6	0.6	88.9	11,473	1.15	37.4	25.7
	164.0	165.0	4656	8525	851	2706	207	33.9	61.7	5.4	22.4	3.3	7.3	0.8	4.2	0.5	96.5	17,181	1.72	44.5	9.1
	165.0	166.0	5500	10822	1097	3523	261	44.9	78.2	6.0	18.1	2.1	4.0	0.3	1.9	0.3	49.5	21,408	2.14	51	7.1
	166.0	167.0	4363	8243	831	2636	196	31.0	54.1	4.0	13.3	1.5	2.7	0.3	1.7	0.2	35.6	16,413	1.64	30.1	6.6
	167.0	168.0	4257	8365	851	2764	213	36.5	62.9	4.5	14.7	1.6	3.3	0.3	1.9	0.3	48.3	16,625	1.66	43.3	4.8
	168.0	169.0	3413	6719	691	2274	180	29.8	54.2	4.3	13.5	1.5	3.4	0.4	2.1	0.2	43.2	13,431	1.34	37.6	5.8
	169.0	170.0	4363	8501	867	2834	217	36.2	62.2	4.4	13.1	1.5	2.4	0.3	1.5	0.2	35.6	16,939	1.69	42.7	5.1
	170.0	171.0	3683	6953	709	2321	182	30.9	55.1	3.9	11.0	1.2	2.2	0.2	1.1	0.2	26.7	13,980	1.40	33	6.8
	171.0	172.0	3225	6007	602	1925	153	26.1	44.7	3.4	10.7	1.4	2.9	0.3	1.5	0.2	33.0	12,035	1.20	25.8	6.1
	172.0	173.0	2744	5380	534	1738	148	26.3	53.6	5.0	19.1	2.7	6.3	0.6	3.5	0.4	68.6	10,731	1.07	28.3	8.8
	173.0	174.0	2305	4656	470	1563	148	29.0	60.9	5.8	23.5	3.4	7.7	0.8	4.3	0.5	90.2	9,368	0.94	38.5	8.1
	174.0	175.0	4562	7800	741	2333	174	31.7	61.2	5.9	20.5	2.8	5.6	0.6	3.4	0.5	67.3	15,809	1.58	53.7	6.8
	175.0	176.0	4128	7960	814	2683	215	36.7	64.9	5.0	15.6	1.7	3.0	0.3	2.1	0.3	39.4	15,969	1.60	48.7	6.9
	176.0	177.0	4504	8930	951	3173	242	37.4	64.3	4.4	13.2	1.4	2.5	0.2	1.1	0.2	30.5	17,955	1.80	36.6	5.3
	177.0	178.0	4011	8071	857	2869	245	41.8	74.9	5.6	17.7	2.1	4.2	0.4	2.3	0.4	52.1	16,254	1.63	57.6	6.2
	178.0	179.0	3589	8378	973	3546	310	51.6	94.2	6.5	20.9	2.1	4.2	0.4	2.6	0.5	49.5	17,027	1.70	77.9	11
	179.0	180.0	4691	9827	1067	3651	298	48.5	80.6	5.4	15.6	1.7	3.3	0.3	1.6	0.3	40.6	19,732	1.97	46.7	6.4
	180.0	181.0	6403	11682	1103	3383	210	33.0	53.1	3.6	11.6	1.2	2.4	0.2	1.5	0.2	29.2	22,918	2.29	31.6	7
	181.0	182.0	4891	8906	847	2648	185	31.5	56.6	4.3	15.2	1.7	3.3	0.3	1.9	0.4	40.6	17,632	1.76	34.9	9
	182.0	183.0	4820	9262	921	3009	209	35.0	56.6	3.7	10.6	1.2	2.3	0.2	1.6	0.2	26.7	18,359	1.84	29.3	6.1
	183.0	184.0	5758	12075	1293	4374	324	51.5	77.8	4.2	11.5	1.1	2.1	0.2	0.9	0.1	25.4	23,999	2.40	36.9	3.2
	184.0	185.0	5618	10650	1051	3371	231	36.9	60.1	4.1	14.0	1.7	3.8	0.4	2.4	0.3	44.5	21,089	2.11	26.7	5.9
	185.0	186.0	4339	9287	990	3371	270	47.5	80.1	4.9	14.9	1.5	3.0	0.3	1.9	0.2	36.8	18,448	1.84	50.6	6.2
	186.0	187.0	4269	8476	870	2869	216	38.1	63.3	4.5	13.1	1.4	2.2	0.2	1.5	0.2	31.8	16,857	1.69	41.9	5
	187.0	188.0	4363	7972	788	2484	185	32.0	56.4	4.2	13.3	1.4	2.7	0.3	1.3	0.2	33.0	15,937	1.59	39	5.6
<b>KGKRC031</b>	0.0	1.0	8948	16829	1679	5389	415	73.2	125.1	8.1	25.3	2.5	4.1	0.4	1.7	0.2	54.6	33,556	3.36	74.5	4.5
	1.0	2.0	4726	9115	892	2834	199	35.2	59.4	3.7	11.0	1.1	2.1	0.2	1.1	0.1	26.7	17,907	1.79	31.7	6.6
	2.0	3.0	6556	12345	1190	3837	277	47.2	79.8	5.2	15.7	1.4	2.4	0.2	1.0	0.1	31.8	24,391	2.44	48.8	4.8
	3.0	4.0	5043	9397	910	2869	199	33.8	55.3	3.5	9.6	1.0	1.7	0.2	0.8	0.1	21.6	18,546	1.85	28.4	3.4
	4.0	5.0	4949	9213	886	2788	194	33.2	53.7	3.6	10.4	1.1	1.8	0.2	0.9	0.1	22.9	18,157	1.82	29	3.9
	5.0	6.0	4117	8058	789	2508	180	30.6	54.2	3.5	11.4	1.3	2.1	0.2	0.9	0.1	27.9	15,783	1.58	28.6	5.3
	6.0	7.0	3331	6584	656	2140	161	28.7	49.5	3.7	11.7	1.2	2.5	0.3	1.6	0.2	33.0	13,005	1.30	31.3	17.2
	7.0	8.0	2111	4656	475	1621	161	35.1	72.7	7.0	30.1	4.0	9.6	1.1	5.7	0.7	111.8	9,302	0.93	43.8	15.5
	8.0	9.0	3084	6437	655	2164	157	27.8	48.8	3.6	12.9	1.7	3.3	0.3	2.1	0.3	39.4	12,636	1.26	26.2	14.9
	9.0	10.0	3730	7272	715	2286	164	29.1	49.7	3.0	8.8	0.9	1.8	0.2	0.9	0.1	19.1	14,281	1.43	23.3	17
	10.0	11.0	3542	7014	713	2327	176	29.4	49.9	3.3	9.2	1.0	2.1	0.2	0.9	0.1	21.6	13,889	1.39	23.6	13
	11.0	12.0	2803	5995	642	2222	217	42.5	86.1	7.1	27.8	3.8	9.2	0.9	5.6	0.7	109.2	12,171	1.22	54.3	14.2
	12.0	13.0	2416	5614	614	2257	248	50.7	103.5	8.9	37.9	5.3	12.1	1.2	6.8	0.9	144.8	11,521	1.15	75	18.8
	13.0	14.0	2416	5393	571	2041	209	41.9	83.7	7.1	30.1	4.0	8.9	1.0	6.2	0.8	111.8	10,925	1.09	54.1	14.6
	14.0	15.0	2123	4828	503	1796	172	34.5	68.2	5.9	24.8	3.4	8.5	0.9	5.0	0.6	88.9	9,662	0.97	42.6	13
	15.0	16.0	2862	5970	623	2158	199	37.1	70.4	5.6	20.7	2.8	6.3	0.7	4.3	0.6	72.4	12,033	1.20	41	12
	16.0	17.0	2000	4803	523	1872	179	33.7	62.5	4.6	19.1	2.3	5.6	0.5	3.4	0.5	63.5	9,572	0.96	32.9	10.1

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	17.0	18.0	2346	5577	614	2222	198	35.6	60.3	4.0	13.3	1.7	3.5	0.4	2.4	0.2	41.9	11,120	1.11	31.9	6.5
	18.0	19.0	2768	5982	639	2234	192	35.0	62.0	4.4	16.1	2.1	4.6	0.5	2.9	0.4	52.1	11,995	1.20	29.5	7.1
	19.0	20.0	3460	7456	789	2694	212	35.9	61.0	3.8	10.3	1.0	1.8	0.2	0.8	0.1	21.6	14,748	1.47	28.8	5.1
	20.0	21.0	3284	7186	776	2683	208	34.5	55.8	3.2	9.5	1.0	1.6	0.1	0.7	0.1	20.3	14,263	1.43	25.8	3.8
	21.0	22.0	3307	7297	764	2613	200	32.3	52.1	3.1	9.3	0.9	1.9	0.2	0.9	0.2	20.3	14,302	1.43	24.5	3.5
	22.0	23.0	2838	6560	720	2368	179	27.9	44.0	2.8	7.7	0.9	1.4	0.2	0.9	0.1	17.8	12,768	1.28	21.3	4.6
	23.0	24.0	3718	8660	945	3079	233	37.3	57.9	3.6	9.5	0.9	1.4	0.2	0.8	0.1	19.1	16,766	1.68	25.7	5.4
	24.0	25.0	3460	8046	871	2823	216	33.5	55.0	3.3	9.5	1.1	1.8	0.2	1.0	0.1	21.6	15,543	1.55	26.4	3.9
	25.0	26.0	9066	17812	1770	5447	420	71.1	121.6	7.9	23.5	2.3	3.4	0.3	1.4	0.2	47.0	34,793	3.48	83.2	4.1
	26.0	27.0	3812	8488	903	2846	210	33.4	55.8	3.4	10.4	1.1	1.9	0.2	1.1	0.2	22.9	16,389	1.64	29.3	4.3
	27.0	28.0	4163	9213	964	3056	221	34.6	54.8	3.3	9.6	1.0	1.8	0.2	0.9	0.1	20.3	17,745	1.77	27.8	4.3
	28.0	29.0	8444	16829	1637	4934	334	52.2	85.5	5.2	14.7	1.5	2.4	0.2	1.3	0.2	31.8	32,373	3.24	43.2	2.9
	29.0	30.0	6861	13697	1371	4141	284	44.8	72.4	4.4	12.9	1.3	2.3	0.2	1.1	0.2	27.9	26,521	2.65	36.6	4
	30.0	31.0	4187	9115	957	2998	215	34.9	57.6	3.4	10.3	1.1	1.7	0.2	1.1	0.1	24.1	17,606	1.76	31.3	5
	31.0	32.0	4973	11117	1195	3802	277	44.7	71.9	4.5	12.4	1.3	2.2	0.2	0.9	0.2	26.7	21,529	2.15	37.6	4.1
	32.0	33.0	6603	13390	1347	4059	284	44.7	71.9	4.3	12.4	1.3	2.4	0.2	1.0	0.1	27.9	25,849	2.58	35	3.4
	33.0	34.0	6063	12775	1287	3977	284	46.1	73.7	4.6	12.9	1.3	2.2	0.2	0.9	0.1	27.9	24,557	2.46	37	2.8
	34.0	35.0	12080	25919	2731	8596	622	94.7	147.5	8.4	22.5	2.0	3.0	0.2	0.8	0.1	38.1	50,265	5.03	70.1	2.8
	35.0	36.0	6192	13881	1444	4584	334	49.9	77.2	4.4	12.1	1.3	1.8	0.3	0.6	0.2	22.9	26,606	2.66	40.2	6.5
	36.0	37.0	9476	19777	2030	6275	442	66.7	104.3	6.3	16.6	1.6	2.3	0.3	1.1	0.2	30.5	38,230	3.82	52	3.2
	37.0	38.0	5360	12272	1323	4292	322	50.6	79.4	4.4	12.2	1.2	2.3	0.2	1.0	0.1	24.1	23,745	2.37	37.8	2.7
	38.0	39.0	6392	13574	1383	4292	311	47.2	74.7	4.7	12.9	1.3	2.3	0.2	1.3	0.2	29.2	26,126	2.61	38.6	3
	39.0	40.0	4926	10368	1032	3138	220	34.7	56.5	3.5	10.4	1.1	2.1	0.2	1.0	0.2	25.4	19,818	1.98	29.9	4.2
	40.0	41.0	6638	13451	1341	4047	283	44.4	72.2	4.4	12.2	1.2	1.9	0.2	1.1	0.1	30.5	25,929	2.59	36.4	3.3
	41.0	42.0	9676	17689	1637	4619	296	44.5	73.3	4.7	13.5	1.6	2.6	0.3	1.3	0.1	35.6	34,094	3.41	35.7	1.6
	42.0	43.0	17416	30219	2706	7418	448	68.1	112.0	7.2	21.4	2.2	3.2	0.3	1.3	0.1	45.7	58,468	5.85	54.3	1.2
	43.0	44.0	10919	19839	1800	5121	334	54.7	92.2	6.6	20.2	2.1	3.7	0.3	1.4	0.2	52.1	38,245	3.82	54.8	1.7
	44.0	45.0	13135	22971	2090	5902	383	59.5	99.5	6.6	20.0	2.2	3.5	0.3	1.5	0.2	47.0	44,721	4.47	51.9	1.3
	45.0	46.0	9676	17689	1631	4701	318	49.3	84.8	5.0	16.3	1.6	7.7	0.3	1.3	0.2	39.4	34,220	3.42	39.8	1.7
	46.0	47.0	6298	12468	1214	3569	228	36.1	58.1	3.8	11.1	1.3	2.2	0.2	1.1	0.1	27.9	23,920	2.39	28.3	1.9
	47.0	48.0	5301	10613	1027	3021	197	30.9	48.9	3.0	8.8	1.0	1.7	0.2	0.8	0.2	21.6	20,276	2.03	22.9	2.1
	48.0	49.0	7353	15171	1522	4619	306	46.7	74.5	4.6	12.9	1.3	2.3	0.2	1.1	0.1	29.2	29,144	2.91	37.8	1.4
	49.0	50.0	11294	20944	1933	5587	362	57.1	92.4	5.6	15.8	1.6	2.7	0.2	1.4	0.1	33.0	40,330	4.03	45.2	0.9
	50.0	51.0	7799	14986	1408	4106	268	43.2	67.8	3.8	11.8	1.2	2.3	0.2	1.1	0.2	27.9	28,726	2.87	34.3	2.1
	51.0	52.0	5371	10957	1068	3219	221	34.9	58.7	3.7	11.7	1.3	2.1	0.2	0.9	0.1	27.9	20,979	2.10	31.4	2.7
	52.0	53.0	3882	7727	762	2286	159	24.1	39.1	2.5	8.2	1.0	1.9	0.2	1.1	0.2	22.9	14,917	1.49	23.8	8.2
	53.0	54.0	6063	11768	1141	3371	232	36.9	58.1	3.7	9.8	1.2	2.1	0.2	1.1	0.2	26.7	22,715	2.27	29.3	3.3
	54.0	55.0	8925	17075	1643	4806	319	51.2	82.0	5.1	14.8	1.7	2.6	0.3	1.1	0.2	36.8	32,963	3.30	42.3	2.2
	55.0	56.0	8116	15539	1492	4397	306	51.0	83.7	5.2	15.8	1.6	2.9	0.2	1.1	0.2	36.8	30,049	3.00	46.5	1.4
	56.0	57.0	8421	15416	1456	4176	279	46.8	75.6	4.5	13.9	1.5	2.3	0.2	1.0	0.2	30.5	29,925	2.99	41.1	2
	57.0	58.0	5758	10491	1061	3149	210	35.4	59.0	4.1	12.9	1.5	2.5	0.2	1.1	0.2	31.8	20,818	2.08	30.9	2.1
	58.0	59.0	13663	22725	2187	6392	441	75.5	131.4	8.9	24.8	2.5	4.2	0.3	1.4	0.2	53.3	45,710	4.57	76.5	2.1
	59.0	60.0	13546	21374	1975	5447	320	50.5	83.0	5.3	14.2	1.6	2.4	0.2	1.0	0.2	34.3	42,855	4.29	40.5	1.6



Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	60.0	61.0	8292	14986	1486	4374	268	43.1	67.1	4.0	11.7	1.1	2.1	0.2	0.9	0.1	25.4	29,562	2.96	34.4	2.4
	61.0	62.0	8796	14925	1438	4106	246	38.8	64.1	4.0	10.6	1.2	2.4	0.2	0.9	0.2	26.7	29,659	2.97	33.2	2.5
	62.0	63.0	6814	12530	1257	3663	224	33.9	55.3	3.5	9.8	1.1	2.1	0.2	1.0	0.1	22.9	24,617	2.46	28.1	2.9
	63.0	64.0	6462	12001	1196	3499	215	35.1	56.3	3.7	11.6	1.2	2.1	0.2	1.1	0.2	25.4	23,510	2.35	31.5	3.5
	64.0	65.0	8831	16583	1691	5074	339	57.3	97.4	7.1	21.4	2.2	3.3	0.3	1.4	0.2	44.5	32,753	3.28	62.8	2.8
	65.0	66.0	5196	9631	975	2904	193	32.2	55.3	3.8	11.7	1.4	2.2	0.2	1.0	0.1	29.2	19,036	1.90	34.3	4.2
	66.0	67.0	9371	16891	1667	4911	293	45.9	73.5	4.7	12.6	1.4	2.5	0.2	0.9	0.2	29.2	33,304	3.33	38.4	2.7
	67.0	68.0	5172	9606	956	2823	179	29.2	48.1	3.3	10.0	1.0	2.1	0.2	0.8	0.1	21.6	18,851	1.89	25.4	3.1
	68.0	69.0	5395	9938	1012	2963	187	29.3	47.3	3.1	8.7	1.0	1.9	0.2	1.0	0.1	20.3	19,608	1.96	22.5	1.4
	69.0	70.0	5852	10896	1091	3161	187	30.0	47.4	2.8	7.8	0.9	1.7	0.2	0.9	0.1	17.8	21,297	2.13	21.5	2.5
	70.0	71.0	7459	13144	1305	3791	238	38.0	61.6	4.3	12.5	1.4	2.4	0.2	1.1	0.2	29.2	26,087	2.61	32.5	1.6
	71.0	72.0	11963	20453	2036	6007	398	65.0	103.0	6.5	16.8	1.8	2.9	0.2	1.3	0.2	34.3	41,088	4.11	53.5	4.2
	72.0	73.0	6755	12345	1244	3732	234	37.4	59.8	3.6	9.6	1.1	2.1	0.2	0.9	0.2	22.9	24,450	2.44	27.7	2.2
	73.0	74.0	6462	12161	1238	3709	225	35.8	55.3	3.4	9.3	1.0	1.9	0.2	1.1	0.2	21.6	23,926	2.39	28	4.3
	74.0	75.0	7799	14495	1468	4351	271	43.0	68.2	4.1	10.9	1.2	2.2	0.2	1.0	0.1	25.4	28,541	2.85	34.4	2.6
	75.0	76.0	5266	9975	1012	3044	207	33.6	54.9	3.6	10.4	1.2	1.9	0.2	0.9	0.2	24.1	19,635	1.96	32.2	3.8
	76.0	77.0	6873	12898	1287	3861	252	41.1	65.0	3.9	11.1	1.2	2.2	0.2	1.0	0.1	24.1	25,320	2.53	31.7	2.3
	77.0	78.0	7178	13635	1408	4222	267	42.7	67.4	4.4	10.8	1.2	1.9	0.2	0.8	0.2	25.4	26,864	2.69	33.6	2.4
	78.0	79.0	7260	13758	1383	4094	254	39.4	63.5	3.9	10.7	1.0	1.9	0.2	0.9	0.2	21.6	26,892	2.69	29.1	2
	79.0	80.0	7377	13942	1383	4071	277	43.4	72.7	4.3	12.5	1.3	2.1	0.2	0.9	0.2	26.7	27,215	2.72	35.1	1.6
	80.0	81.0	7553	14188	1426	4234	307	50.8	87.5	5.6	16.3	1.7	2.6	0.2	1.3	0.2	38.1	27,912	2.79	44.3	1.3
	81.0	82.0	8045	14557	1432	4176	275	43.0	72.4	4.1	12.2	1.2	2.1	0.2	0.8	0.1	26.7	28,647	2.86	33.1	2.6
	82.0	83.0	10966	19102	1782	5330	426	72.5	117.6	7.0	18.6	1.9	2.4	0.2	0.9	0.1	35.6	37,862	3.79	69.9	4.5
	83.0	84.0	7084	12714	1281	3837	299	50.3	85.8	5.3	14.2	1.4	2.1	0.1	0.9	0.2	29.2	25,404	2.54	48	5.1
	84.0	85.0	5852	10749	1070	3138	225	36.0	61.1	4.1	10.8	1.3	2.1	0.2	0.9	0.2	25.4	21,176	2.12	30.2	1.8
	85.0	86.0	6497	11707	1142	3336	227	35.9	60.3	3.8	10.3	1.2	1.9	0.2	0.8	0.1	22.9	23,046	2.30	27.6	3
	86.0	87.0	4539	8537	861	2554	174	27.9	44.4	3.0	7.9	1.0	1.5	0.2	1.0	0.1	21.6	16,774	1.68	19	1.7
	87.0	88.0	5923	10859	1079	3149	219	33.9	56.9	3.5	10.0	1.0	1.7	0.1	0.9	0.1	22.9	21,360	2.14	26.2	1.9
	88.0	89.0	4034	7641	756	2245	157	25.4	42.4	2.7	7.5	0.8	1.5	0.1	0.6	0.1	19.1	14,933	1.49	20.5	1.2
	89.0	90.0	8632	16031	1607	4666	307	49.1	83.9	5.2	15.0	1.7	2.3	0.2	1.0	0.2	33.0	31,434	3.14	39.7	1.1
	90.0	91.0	6169	11682	1177	3523	254	41.5	70.3	4.5	12.9	1.4	2.3	0.2	1.1	0.1	29.2	22,968	2.30	36.2	1
	91.0	92.0	4386	8427	840	2496	176	28.3	47.5	2.9	7.9	0.9	1.4	0.1	0.8	0.1	19.1	16,433	1.64	21.7	1.2
	92.0	93.0	5325	10159	1034	3138	227	34.6	59.5	3.9	10.7	1.1	1.9	0.2	0.8	0.2	24.1	20,019	2.00	29.7	2.8
	93.0	94.0	5102	9864	991	2963	201	31.8	52.9	3.3	8.8	1.0	1.5	0.1	0.7	0.1	20.3	19,241	1.92	25.2	2.1
	94.0	95.0	6920	13267	1323	3861	254	39.3	64.2	3.7	10.4	1.1	1.8	0.2	0.8	0.1	24.1	25,770	2.58	27.3	1.6
	95.0	96.0	4762	8980	905	2694	192	29.6	51.2	3.3	9.5	1.0	1.5	0.2	1.1	0.1	22.9	17,653	1.77	25.8	4.5
	96.0	97.0	3671	7162	713	2123	157	23.6	39.2	2.4	6.8	0.8	1.3	0.1	0.8	0.1	16.5	13,916	1.39	19.6	5.3
	97.0	98.0	4363	8525	869	2566	178	28.7	49.2	2.9	8.7	0.9	1.1	0.1	0.5	0.1	17.8	16,611	1.66	21.8	0.9
	98.0	99.0	4292	8316	832	2531	176	27.8	47.3	2.9	8.4	0.9	1.5	0.1	0.9	0.2	19.1	16,258	1.63	22.6	2.2
	99.0	100.0	4832	9311	875	2543	181	28.0	49.3	3.1	9.1	0.9	1.5	0.1	0.7	0.1	20.3	17,855	1.79	25	2.1
	100.0	101.0	5442	10061	935	2694	195	31.0	52.3	3.3	10.1	1.1	2.2	0.2	1.0	0.1	24.1	19,452	1.95	26.9	3.8
	101.0	102.0	3237	6523	644	1919	133	20.6	32.6	1.9	6.1	0.6	1.1	0.1	0.7	0.1	15.2	12,534	1.25	15.8	1.3
	102.0	103.0	5113	10257	985	2904	206	30.6	49.1	3.0	9.0	0.9	1.3	0.1	0.6	0.1	17.8	19,578	1.96	23	1.9

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	103.0	104.0	5805	11658	1141	3348	234	35.3	57.1	3.7	10.0	1.1	1.5	0.2	0.9	0.1	22.9	22,318	2.23	25.7	1.7
	104.0	105.0	5172	10355	992	2916	200	30.1	49.5	3.0	9.1	0.9	1.5	0.1	0.7	0.1	20.3	19,751	1.98	24.3	2.7
	105.0	106.0	6321	12530	1207	3523	240	36.8	61.3	3.6	10.7	1.1	1.6	0.2	0.8	0.1	22.9	23,960	2.40	27.4	1.4
	106.0	107.0	5383	10859	1049	3079	215	31.8	50.9	3.2	9.2	0.9	1.4	0.1	0.9	0.1	20.3	20,704	2.07	23.9	2
	107.0	108.0	6415	12653	1202	3523	240	36.8	59.8	3.6	10.4	1.0	1.6	0.1	0.6	0.1	21.6	24,168	2.42	27.1	2.3
	108.0	109.0	6357	12284	1287	3721	257	40.5	65.1	4.4	11.9	1.3	1.8	0.2	0.7	0.1	25.4	24,057	2.41	31.7	1.8
	109.0	110.0	8984	17075	1728	5004	318	47.8	74.1	4.7	12.2	1.2	1.7	0.2	0.5	0.2	22.9	33,273	3.33	34.9	5.9
	110.0	111.0	7342	14188	1486	4362	320	51.8	88.5	5.9	16.4	1.5	2.4	0.2	0.8	0.1	29.2	27,895	2.79	48.4	4.2
	111.0	112.0	5758	10896	1074	3196	204	32.8	51.9	3.3	9.1	1.0	1.5	0.2	0.9	0.1	19.1	21,248	2.12	22.7	4.2
	112.0	113.0	6884	13574	1395	4129	277	42.5	69.5	4.5	11.5	1.1	1.8	0.2	0.7	0.1	22.9	26,415	2.64	28.1	2.2
	113.0	114.0	4750	9324	951	2986	209	33.0	54.3	3.6	9.9	1.0	1.7	0.2	0.8	0.1	20.3	18,344	1.83	23.7	10.8
	114.0	115.0	4902	9287	919	2846	216	36.2	64.1	5.0	17.5	2.0	4.1	0.4	2.4	0.3	52.1	18,355	1.84	33.8	4.5
	115.0	116.0	1818	3624	367	1196	111	22.5	46.5	4.6	18.8	2.8	6.4	0.7	4.1	0.5	73.7	7,296	0.73	14	6.5
	116.0	117.0	3530	8181	952	3453	317	55.6	94.5	7.7	26.4	3.5	6.9	1.9	3.4	1.6	47.0	16,681	1.67	34.6	7.7
	117.0	118.0	5958	12468	1408	4246	339	56.3	94.4	6.3	18.1	2.0	3.4	0.3	1.5	0.2	43.2	24,644	2.46	40.2	3.6
	118.0	119.0	4187	7874	771	2356	164	25.5	42.4	2.8	7.7	0.8	1.5	0.1	0.8	0.1	19.1	15,452	1.55	18.8	2.5
	119.0	120.0	5477	10048	964	2893	191	30.1	48.1	3.1	8.8	0.9	1.6	0.2	0.7	0.1	19.1	19,686	1.97	21.2	3.8
	120.0	121.0	6533	12186	1220	3476	230	35.8	57.9	3.6	10.1	1.0	1.4	0.1	0.6	0.1	19.1	23,774	2.38	25.4	2.8
	121.0	122.0	4562	8390	806	2414	169	25.7	42.5	2.7	8.0	0.9	1.1	0.1	0.7	0.1	17.8	16,441	1.64	21.2	2.8
	122.0	123.0	4609	8353	801	2403	162	26.1	42.0	2.8	8.3	0.9	1.6	0.1	0.8	0.1	19.1	16,430	1.64	19.4	2
	123.0	124.0	5113	9373	909	2718	180	28.6	48.2	3.3	10.6	1.1	1.8	0.2	0.9	0.1	24.1	18,412	1.84	21.6	2.7
	124.0	125.0	3530	6658	648	1989	137	21.8	36.8	2.6	8.0	0.8	1.4	0.2	0.8	0.1	19.1	13,053	1.31	17.2	3.9
	125.0	126.0	4175	7849	765	2304	158	25.4	42.3	3.2	9.8	1.1	1.7	0.2	1.0	0.1	24.1	15,360	1.54	20.5	2.3
	126.0	127.0	4527	8402	817	2484	166	26.2	42.1	3.0	8.2	0.8	1.7	0.1	0.7	0.1	16.5	16,496	1.65	18.8	3.3
	127.0	128.0	6767	12530	1238	3523	232	36.4	57.5	3.8	10.9	1.1	1.9	0.2	0.7	0.1	21.6	24,424	2.44	25	2.3
	128.0	129.0	5067	9299	903	2671	171	28.0	44.8	2.9	7.9	0.8	1.5	0.2	0.8	0.1	19.1	18,216	1.82	20.2	5.1
	129.0	130.0	7213	13328	1323	3756	247	38.0	62.0	4.1	10.3	1.0	1.8	0.1	0.7	0.1	22.9	26,008	2.60	25.4	2.8
	130.0	131.0	7647	14188	1438	4059	266	41.8	67.3	4.5	11.9	1.2	1.8	0.2	0.8	0.1	24.1	27,751	2.78	28.1	2.5
	131.0	132.0	11669	21006	2096	5867	380	61.3	98.1	6.5	17.7	1.6	2.7	0.2	1.1	0.2	34.3	41,242	4.12	42.1	3.1
	132.0	133.0	6145	11608	1167	3453	237	36.6	58.6	3.8	10.8	1.1	1.7	0.1	0.9	0.1	22.9	22,747	2.27	25	3.7
	133.0	134.0	15891	31324	3383	11186	836	119.3	176.4	9.7	23.9	2.1	3.1	0.2	1.0	0.2	39.4	62,996	6.30	64	4.7
	134.0	135.0	15246	31447	3504	12072	1004	148.2	216.1	11.0	26.3	2.1	3.0	0.2	0.9	0.1	39.4	63,721	6.37	84.2	4
	135.0	136.0	13898	29113	3335	12131	1133	169.6	247.8	12.2	26.5	2.2	2.7	0.2	0.8	0.1	36.8	60,108	6.01	104	2.8
	136.0	137.0	13839	30341	3540	12655	1148	177.7	259.3	13.8	29.2	2.4	3.1	0.2	0.8	0.2	40.6	62,051	6.21	109	2
	137.0	138.0	6544	13267	1444	4502	348	52.7	83.6	5.3	14.5	1.5	2.4	0.2	1.0	0.1	30.5	26,297	2.63	37.1	1.5
	138.0	139.0	8092	17013	1806	5575	364	54.1	84.3	5.3	13.8	1.4	2.2	0.2	0.9	0.1	30.5	33,044	3.30	34.9	2
	139.0	140.0	5676	10601	997	3091	196	31.0	50.6	3.5	9.9	1.1	1.8	0.2	0.8	0.1	24.1	20,684	2.07	21	2.7
	140.0	141.0	7670	15048	1522	4456	283	44.4	73.0	4.9	14.1	1.5	2.4	0.3	1.3	0.2	33.0	29,154	2.92	34.1	3.9
	141.0	142.0	5524	10405	964	3033	190	29.6	49.5	3.5	11.0	1.3	2.1	0.2	1.1	0.1	30.5	20,244	2.02	23.3	3.5
	142.0	143.0	5090	9397	871	2718	176	27.8	46.3	3.4	11.0	1.1	2.2	0.2	0.9	0.1	26.7	18,371	1.84	22.9	2.5
	143.0	144.0	3823	7592	739	2438	160	24.9	41.2	2.7	8.4	0.9	1.6	0.2	0.9	0.1	21.6	14,854	1.49	19	4.9
	144.0	145.0	4152	8083	779	2543	169	26.4	45.4	3.1	9.2	1.0	1.7	0.2	0.9	0.2	22.9	15,837	1.58	24.4	6.6
	145.0	146.0	2099	4349	443	1534	132	24.6	49.0	4.5	18.5	2.6	5.7	0.6	4.0	0.5	72.4	8,740	0.87	18.8	6.7

Hole ID	From m	To m	La <sub>2</sub> O <sub>3</sub> ppm	CeO <sub>2</sub> ppm	Pr <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	TREO ppm	TREO %	Th ppm	U ppm
	146.0	147.0	5735	10847	1028	3266	210	33.1	56.9	4.1	11.7	1.3	2.1	0.2	1.1	0.1	29.2	21,226	2.12	26.7	4.5
	147.0	148.0	6497	11756	1091	3406	215	33.5	52.6	3.5	9.6	1.0	1.6	0.2	0.9	0.1	24.1	23,092	2.31	24.7	4.5
	148.0	149.0	4504	7604	685	2117	149	25.8	45.9	3.4	10.1	1.0	1.6	0.2	0.9	0.1	24.1	15,172	1.52	25.4	4.8
	149.0	150.0	1495	2702	234	727	46	7.3	12.0	0.8	2.3	0.3	0.5	-0.1	0.2	-0.1	5.1	5,234	0.52	6.3	2.1
	150.0	151.0	4703	8623	790	2449	146	22.7	35.3	2.3	7.4	0.7	1.5	0.1	0.7	0.1	19.1	16,801	1.68	17	3.7
	151.0	152.0	10626	19716	1939	5482	326	48.5	75.3	4.7	12.9	1.2	1.9	0.2	0.8	0.1	26.7	38,261	3.83	31.8	3.9
	152.0	153.0	10485	21006	2126	6660	408	61.7	95.8	6.0	15.8	1.5	2.5	0.2	1.1	0.2	31.8	40,902	4.09	41.7	3.1
	153.0	154.0	15188	29359	2863	8935	488	71.2	112.8	7.0	17.3	1.6	2.3	0.2	0.8	0.1	30.5	57,077	5.71	43.3	2.8
	154.0	155.0	3612	6535	597	1860	122	19.6	33.1	2.5	7.7	1.0	1.8	0.2	1.1	0.2	24.1	12,818	1.28	16.2	3.9
	155.0	156.0	6310	12014	1116	3476	217	33.7	56.7	3.7	10.9	1.0	2.2	0.2	1.5	0.1	27.9	23,271	2.33	24.3	3.3
	156.0	157.0	3202	6609	668	2245	165	27.0	46.6	3.3	11.0	1.3	2.5	0.2	1.4	0.2	30.5	13,013	1.30	14.8	6.6
	157.0	158.0	2533	5221	523	1825	165	31.2	63.1	5.7	22.6	2.9	5.8	0.5	3.3	0.4	73.7	10,477	1.05	17	8.6
	158.0	159.0	2510	4852	469	1534	117	21.1	40.3	3.3	10.9	1.3	2.6	0.3	1.5	0.2	36.8	9,600	0.96	16	13.2
	159.0	160.0	2439	4643	433	1423	108	18.3	34.1	2.6	8.8	1.0	1.8	0.2	1.0	0.2	25.4	9,140	0.91	19.8	13.1
	160.0	161.0	1982	3845	362	1172	88	15.2	28.1	2.4	9.3	1.1	2.3	0.3	1.8	0.2	29.2	7,540	0.75	16.6	6.7
	161.0	162.0	2334	4410	417	1353	98	16.0	28.9	2.3	7.6	0.9	1.8	0.2	1.4	0.1	22.9	8,693	0.87	20.7	5.3
	162.0	163.0	6016	12124	1257	3861	256	41.0	67.7	4.8	13.5	1.4	2.4	0.2	1.0	0.1	29.2	23,676	2.37	37.6	4.8
	163.0	164.0	4961	9925	968	3138	217	36.0	63.2	4.9	14.9	1.8	3.2	0.3	1.7	0.3	41.9	19,377	1.94	30.5	6.2
	164.0	165.0	3331	6547	644	2117	169	31.6	62.4	6.1	24.1	3.5	7.3	0.8	4.6	0.6	91.4	13,040	1.30	29.8	9.6
	165.0	166.0	6767	12898	1250	3977	296	48.6	85.6	6.3	21.1	2.4	4.7	0.4	2.5	0.4	59.7	25,421	2.54	42.5	12.3
	166.0	167.0	22576	41643	4120	13180	787	120.4	189.0	11.4	29.5	2.7	3.8	0.3	1.1	0.1	53.3	82,719	8.27	75.4	11.2
	167.0	168.0	4070	7874	776	2624	212	37.4	74.3	6.5	26.4	3.6	8.1	0.9	5.0	0.6	95.2	15,814	1.58	42.8	12
	168.0	169.0	2076	4103	418	1376	128	26.9	56.0	5.2	19.7	3.0	6.4	0.7	4.0	0.5	76.2	8,300	0.83	30.4	7.5
	169.0	170.0	1595	3489	372	1260	126	25.6	56.1	5.2	21.2	3.2	7.1	0.8	4.1	0.5	83.8	7,050	0.70	21.9	9.1
	170.0	171.0	1730	3820	411	1417	151	33.5	74.8	7.0	28.7	4.3	10.0	1.1	6.4	0.8	123.2	7,819	0.78	42.1	9.8
	171.0	172.0	1642	3378	346	1156	115	24.1	53.3	4.7	19.3	2.9	6.2	0.7	4.0	0.5	78.7	6,831	0.68	25.5	7.4
	172.0	173.0	1572	3440	371	1295	143	31.8	74.2	7.1	28.9	4.5	9.6	1.1	5.6	0.8	121.9	7,105	0.71	38.4	8.1
	173.0	174.0	1489	3354	364	1295	148	32.0	75.6	7.1	29.2	4.5	9.8	1.0	5.7	0.7	121.9	6,937	0.69	34.2	8.8
	174.0	175.0	1548	3440	370	1301	138	30.2	69.3	6.7	26.6	3.9	8.9	1.0	5.6	0.7	110.5	7,059	0.71	31.1	11.2

## JORC Code, 2012 Edition – Table 1 report

### Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
<p><i>Sampling techniques</i></p>	<ul style="list-style-type: none"> <li>• <i>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i></li> <li>• <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i></li> <li>• <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i></li> <li>• <i>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</i></li> </ul>	<p><b>Reverse Circulation Drilling</b></p> <p>Reverse circulation drilling sampled on 1 metre intervals.</p> <p>Riffle split sample mass averaging 1.5kg crushed, pulverized using standard laboratory procedures with subsample assayed using appropriate methods for rare earth element total digestion and analysis.</p> <p><b>Diamond Core Drilling</b></p> <p>Drill core was collected from a core barrel and placed in appropriately marked core trays. Down hole core run depths were measured and marked with core blocks. Core was measured for core loss and core photography and geological logging completed.</p> <p>Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre and minimum of 0.2 metre applied.</p> <p>Core was cut using a core saw and sampled on site at Kangankunde.</p> <p>Core was initially cut in half then one half was further cut in half to give quarter core.</p> <p>Quarter core was submitted to ALS for chemical analysis using industry standard sample preparation and analytical techniques.</p>
<p><i>Drilling techniques</i></p>	<ul style="list-style-type: none"> <li>• <i>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</i></li> </ul>	<p><b>Reverse Circulation Drilling</b></p> <p>Standard reverse circulation drilling using 5 ¼ inch face sampling hammer.</p> <p><b>Diamond Core Drilling</b></p> <p>Core size was HQ triple tube with a nominal diameter of 61.1mm.</p>

Criteria	JORC Code explanation	Commentary
<p><i>Drill sample recovery</i></p>	<ul style="list-style-type: none"> <li>• <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i></li> <li>• <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i></li> <li>• <i>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.</i></li> </ul>	<p><b>Reverse Circulation Drilling</b></p> <p>Samples collected on a 1 drilled metre interval. Rock cuttings collected in large plastic bags marked with hole ID and interval from-to via a standard sample collection cyclone.</p> <p>All 1 metre interval bags are weighed in the field after removal from the sample collection cyclone. Collected sample mass is measured on a tared digital scale and recorded in drill hole data files.</p> <p>Sample recovery is maximized by:</p> <ul style="list-style-type: none"> <li>• Installing PVC collar pipe in the upper fractured rock zone of the hole to a depth where air loss is minimised and sample return is consistent.</li> <li>• Sample cyclone is sealed to plastic sample collection bags do not leak</li> </ul> <p>Sample return was variable with:</p> <ul style="list-style-type: none"> <li>• Occasional natural voids of up to 7 metres having &lt;10%, often 0% return</li> <li>• Intervals of rock fracturing and loss of air circulation having recoveries averaging 30-60%</li> <li>• Competent rock proved good sample recovery averaging &gt;90%</li> </ul> <p>No relationship exists between sample recovery and grade.</p> <p><b>Diamond Core Drilling</b></p> <p>Core recovery was calculated by measuring actual core length versus drillers core run lengths. Core recovery ranged from 0% in instances where voids or structures caused complete core loss to 100% and averaged 92%.</p> <ul style="list-style-type: none"> <li>• No relationship exists between core recovery and grade.</li> </ul>
<p><i>Logging</i></p>	<ul style="list-style-type: none"> <li>• <i>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.</i></li> <li>• <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i></li> </ul>	<p>All RC chips and core has been geologically logged by the onsite geologist and chip and core trays retained and photographed</p> <p>Logging is qualitative with fields including shade, colour, weathering, grainsize, texture, lithology, veining, mineralisation and alteration.</p> <p>Additional non-geological qualitative logging includes comments for sample recovery, moisture, and hardness for each logged interval. Additional non-</p>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li><i>The total length and percentage of the relevant intersections logged.</i></li> </ul>	<p>geological qualitative logging includes comments for sample recovery, moisture, and hardness for each logged interval.</p>
<p><i>Sub-sampling techniques and sample preparation</i></p>	<ul style="list-style-type: none"> <li><i>If core, whether cut or sawn and whether quarter, half or all core taken.</i></li> <li><i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i></li> <li><i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i></li> <li><i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i></li> <li><i>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.</i></li> <li><i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i></li> </ul>	<p><b>Reverse Circulation Drilling</b></p> <p>Plastic sample collection bags have been split using a 2-tier riffle splitter to achieve a ¼ sub sample of the original mass.</p> <p>This split is then halved in a single tier splitter to give 2 equal samples of approximately 1kg to 2kg in mass. These are denoted split A and split B</p> <p>Each interval is provided with a unique sample number which is written on the subsample bags and corresponding numbered sample tickets are placed within the sub sample bags and stapled into the rolled top of each bag.</p> <p>Both split A and split B samples are weighed with mass recorded in the drill hole file for database upload.</p> <p>Split A samples are dispatched for laboratory analysis. Split B samples are retained in storage at Kangankunde for future reference as required.</p> <p>Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled.</p> <p><b>Diamond Core Drilling</b></p> <p>Samples were collected from core trays by hand and placed in individually numbered bags. These bags were dispatched to the assay laboratory for analysis with no further field preparation.</p> <p>Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled.</p> <p>Field duplicate sampling was conducted at a ratio of 1:20 samples. Duplicates were created by lengthways halving the ¼ core primary sample into 2 identical portions. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample.</p>
<p><i>Quality of assay data and</i></p>	<ul style="list-style-type: none"> <li><i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is</i></li> </ul>	<p><b>Assay and Laboratory Procedures – All Samples</b></p>



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<p>laboratory tests</p>	<p><i>considered partial or total.</i></p> <ul style="list-style-type: none"> <li>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.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<p>Samples were dispatched by air freight direct to ALS laboratory Johannesburg South Africa for sample preparation.</p> <table border="1" data-bbox="1173 395 1854 794"> <thead> <tr> <th>ALS Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>WEI-21</td> <td>Received sample weight</td> </tr> <tr> <td>LOG-22</td> <td>Sample Login w/o Barcode</td> </tr> <tr> <td>DRY-21</td> <td>High temperature drying</td> </tr> <tr> <td>CRU-31</td> <td>Fine crushing – 70% &lt;2mm</td> </tr> <tr> <td>SPL-21</td> <td>Split sample – Riffle splitter</td> </tr> <tr> <td>PUL-31</td> <td>Pulverise 250g to 85% passing 75 micron</td> </tr> <tr> <td>CRU-QC</td> <td>Crushing QC Test</td> </tr> <tr> <td>PUL-QC</td> <td>Pulverising QC test</td> </tr> <tr> <td>LOG-24</td> <td>Pulp Login w/o Barcode</td> </tr> </tbody> </table> <p>Following sample preparation, a 30 gram pulverized subsample is shipped by airfreight to ALS Perth for analysis</p> <p>The assay technique used for REE was Lithium Borate Fusion ICP-MS (ALS code ME-MS81h). This is a recognised industry standard analysis technique for REE suite and associated elements. Elements analysed at ppm levels:</p> <table border="1" data-bbox="1330 1002 1980 1114"> <tbody> <tr> <td>Ce</td><td>Dy</td><td>Er</td><td>Eu</td><td>Gd</td><td>Hf</td><td>Ho</td><td>La</td> </tr> <tr> <td>Lu</td><td>Nb</td><td>Nd</td><td>Pr</td><td>Rb</td><td>Sm</td><td>Sn</td><td>Ta</td> </tr> <tr> <td>Tb</td><td>Th</td><td>Tm</td><td>U</td><td>W</td><td>Y</td><td>Yb</td><td>Zr</td> </tr> </tbody> </table> <p>Analysis for other metals is conducted by four acid digest and ICP-MS (ALS code ME-4ACD81). The elements analysed using this technique are:</p> <table border="1" data-bbox="1330 1216 1980 1289"> <tbody> <tr> <td>Ag</td><td>As</td><td>Cd</td><td>Co</td><td>Cu</td><td>Li</td><td>Mo</td><td>Ni</td> </tr> <tr> <td>Pb</td><td>Sc</td><td>Tl</td><td>Zn</td><td></td><td></td><td></td><td></td> </tr> </tbody> </table> <p>The sample preparation and assay techniques used are industry standard and provide a total analysis.</p> <p>All laboratories used are ISO 17025 accredited.</p>	ALS Code	Description	WEI-21	Received sample weight	LOG-22	Sample Login w/o Barcode	DRY-21	High temperature drying	CRU-31	Fine crushing – 70% <2mm	SPL-21	Split sample – Riffle splitter	PUL-31	Pulverise 250g to 85% passing 75 micron	CRU-QC	Crushing QC Test	PUL-QC	Pulverising QC test	LOG-24	Pulp Login w/o Barcode	Ce	Dy	Er	Eu	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Ta	Tb	Th	Tm	U	W	Y	Yb	Zr	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn				
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Ag	As	Cd	Co	Cu	Li	Mo	Ni																																																							
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		<p><b>QAQC</b></p> <p><b>Analytical Standards</b> CRM AMIS0356 and GRE-02 were included in sample batches at a ratio of 1:20 to drill samples submitted. This is an acceptable ratio.</p> <p>The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident.</p> <p><b>Blanks</b> CRM blank OREAS C26d and a blank sourced from local barren rock was included in sample batches at a ratio of 1:20 to drill samples submitted for analysis. This is an acceptable ratio.</p> <p>Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results.</p> <p><b>Duplicates</b> Field duplicate sampling was conducted at a ratio of 1:20 samples. Duplicates were created by replicating the sampling process from the primary sample. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident.</p> <p><b>Alternative Analysis Technique</b> No alternative analytical method analysis has been undertaken.</p>
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>• <i>The verification of significant intersections by either independent or alternative company personnel.</i></li> <li>• <i>The use of twinned holes.</i></li> <li>• <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i></li> </ul>	<p>No independent verification of significant intersection undertaken.</p> <p>No twinning of drill holes was undertaken.</p> <p>Sampling protocols for sampling and QAQC were documented and held on site by the responsible geologist. No procedures for data storage and management have been compiled yet.</p>

Criteria	JORC Code explanation	Commentary																																				
	<ul style="list-style-type: none"> <li>Discuss any adjustment to assay data.</li> </ul>	<p>Data collected in the field by hand and entered into Excel spreadsheet. Data are then compiled with assay results compiled and stored in a secure database managed by Geobase Australia a professional provider of database services. Data verification is conducted on data entry including hole depths, sample intervals and sample numbers. Sample numbers from assay data are verified prior to entry into the database.</p> <p>Assay data was received in digital format from the laboratory and merged with the sampling data in the database.</p> <p>Data validation of assay data and sampling data have been conducted to ensure data entry is correct.</p> <p>All assay data received from the laboratory in element form is unadjusted for data entry.</p> <p>Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.(Source:<a href="https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors">https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors</a>)</p> <table border="1" data-bbox="1382 984 1924 1453"> <thead> <tr> <th>Element ppm</th> <th>Conversion Factor</th> <th>Oxide Form</th> </tr> </thead> <tbody> <tr> <td>Ce</td> <td>1.2284</td> <td>CeO<sub>2</sub></td> </tr> <tr> <td>Dy</td> <td>1.1477</td> <td>Dy<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Er</td> <td>1.1435</td> <td>Er<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Eu</td> <td>1.1579</td> <td>Eu<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Gd</td> <td>1.1526</td> <td>Gd<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Ho</td> <td>1.1455</td> <td>Ho<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>La</td> <td>1.1728</td> <td>La<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Lu</td> <td>1.1371</td> <td>Lu<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Nd</td> <td>1.1664</td> <td>Nd<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Pr</td> <td>1.2082</td> <td>Pr<sub>6</sub>O<sub>11</sub></td> </tr> <tr> <td>Sm</td> <td>1.1596</td> <td>Sm<sub>2</sub>O<sub>3</sub></td> </tr> </tbody> </table>	Element ppm	Conversion Factor	Oxide Form	Ce	1.2284	CeO <sub>2</sub>	Dy	1.1477	Dy <sub>2</sub> O <sub>3</sub>	Er	1.1435	Er <sub>2</sub> O <sub>3</sub>	Eu	1.1579	Eu <sub>2</sub> O <sub>3</sub>	Gd	1.1526	Gd <sub>2</sub> O <sub>3</sub>	Ho	1.1455	Ho <sub>2</sub> O <sub>3</sub>	La	1.1728	La <sub>2</sub> O <sub>3</sub>	Lu	1.1371	Lu <sub>2</sub> O <sub>3</sub>	Nd	1.1664	Nd <sub>2</sub> O <sub>3</sub>	Pr	1.2082	Pr <sub>6</sub> O <sub>11</sub>	Sm	1.1596	Sm <sub>2</sub> O <sub>3</sub>
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<p>Location of data points</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Specification of the grid system used.</li> <li>• Quality and adequacy of topographic control.</li> </ul>	<p>Drill hole collar locations reported have been surveyed by Differential GPS and are considered accurate to 0.2m.</p> <p>Datum WGS84 Zone 36 South was used for location data planning, collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.</p> <p>Downhole surveys have been measured using Reflex Sprint IQ downhole survey tool. The exceptions are hole KGKRC023 and KGKRC025 which are based on planned dip and azimuth.</p> <p>Topography is derived from SRTM 30 metre digital elevation database.</p>												

Criteria	JORC Code explanation	Commentary
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>	<p>Drill spacing for this phase of drilling is a nominal 50 metre hole spacing on 50 metre line spacing. Topography limitations have necessitated drilling some holes off section.</p> <p>Evaluation of hole spacing for suitability to determine geology and grade estimation will be undertaken following this phase of drilling.</p> <p>No mineral resource estimation has been undertaken.</p> <p>No sample compositing has been used.</p>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i></li> </ul>	<p>The relationship between mineralisation and drill orientation is not known.</p>
<i>Sample security</i>	<ul style="list-style-type: none"> <li>• <i>The measures taken to ensure sample security.</i></li> </ul>	<p>After collection, the samples were transported by Company representatives via road to Lilongwe and dispatched via airfreight to ALS Johannesburg South Africa. Sample shipments are managed by a professional cargo freight company and remain secure during transport.</p> <p>Following sample preparation subsamples are shipped to Perth Australia by ALS using DHL. Samples are received in Australia and subject to customs inspection and quarantine treatment.</p> <p>Samples were subsequently transported from Australian customs to ALS Perth via road freight and inspected on arrival by a Company representative.</p>
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<p>No audits or reviews have been undertaken</p>

## Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li>• <i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i></li> <li>• <i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i></li> </ul>	<p>The Kangankunde Project comprising granted Exploration Licence EPL0514/18R and Mining Licence MML0290/22 is 100% owned by Rift Valley Resource Developments (RVRD) a Malawian registered company. Lindian Resources currently holds 33% of RVRD with a binding share purchase agreement in place to progressively acquire 100 % of RVRD.</p>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li>• <i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	<p>Previous exploration includes:</p> <p>1952-1958: Eight trenches excavated. No data records known to exist.</p> <p>1959: Geological mapping, ten trenches excavated, seven drill holes drilled below main trenches. Data not sighted</p> <p>1972-1981: Trench mapping and sampling, adit driven 300 metres north to south with several crosscuts. Diamond drilling from crosscuts. Pilot plant operated producing strontianite and monazite concentrate. Limited data available in hard copy only.</p> <p>1987- 1990: Feasibility study activities including surface core drilling, processing studies, geotechnical and groundwater studies, estimation of “geological reserves” (Not JORC compliant). Limited data available in hard copy reports.</p> <p>Historical data is largely not available or not readily validated and is currently not reported.</p>
<i>Geology</i>	<ul style="list-style-type: none"> <li>• <i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<p>Intrusive carbonatite containing monazite as the main rare earth bearing mineral.</p> <p>The Kangankunde carbonatite complex is characterized by an elliptic structure centring Kangankunde Hill. The diameters in N-S and E-W directions are 900m and 700m, respectively.</p> <p>In the ellipse, the following rocks are zonally arranged from the centre to the outer part; carbonatites, carbonatized breccias, wall rock / carbonatite breccias and basement rocks.</p>



Criteria	JORC Code explanation	Commentary
		<p>The carbonatites are dolomitic, sideritic and ankeritic and at surface are distributed widely on the northern and western slopes of the Kangankunde Hill. Manganese carbonatite is found at the top and on the eastern slope of the hill.</p> <p>Monazite is found in all carbonatite types in varying quantities. Other associated minerals are strontianite, barite and apatite.</p>
<p><i>Drill hole Information</i></p>	<ul style="list-style-type: none"> <li>• <i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> <li>○ <i>easting and northing of the drill hole collar</i></li> <li>○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li>○ <i>dip and azimuth of the hole</i></li> <li>○ <i>down hole length and interception depth</i></li> <li>○ <i>hole length.</i></li> </ul> </li> <li>• <i>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</i></li> </ul>	<p>The material information for drill holes relating to this announcement are contained in Appendix 1.</p>
<p><i>Data aggregation methods</i></p>	<ul style="list-style-type: none"> <li>• <i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</i></li> <li>• <i>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.</i></li> <li>• <i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<p>Reported intersections are length weighted averages.</p> <p>No maximum or minimum grade cutting has been applied.</p> <p>All reported intercepts are drilled within the orebody and are rare earth mineralised with the lowest grade of 0.35% TREO reported. No geological natural cut-off has been observed and an economic cut-off is not appropriate at this stage of the project.</p> <p>Mineralised zones of higher grade within a fully mineralised hole have been highlighted using a threshold of 2% TREO with a maximum of 5 metres of contiguous internal waste used in the calculation. This cut-off is consistent with other similar deposits.</p> <p>No metal equivalents values are used.</p>

Criteria	JORC Code explanation	Commentary
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> <li>• <i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li>• <i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li>• <i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. ‘down hole length, true width not known’).</i></li> </ul>	Down hole lengths reported, true widths are not known.
<i>Diagrams</i>	<ul style="list-style-type: none"> <li>• <i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i></li> </ul>	Refer to diagrams in body of text.
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li>• <i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i></li> </ul>	This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li>• <i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i></li> </ul>	Multi element analysis has been conducted including potential radionuclides uranium (U) and thorium (Th) which are both reported in Appendix 2
<i>Further work</i>	<ul style="list-style-type: none"> <li>• <i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li>• <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	Future work programs are intended to evaluate the economic opportunity of the project including extraction optimization, and resource definition.