

## HIGH GRADE RARE EARTHS ASSAYS CONTINUE AT KANGANKUNDE

**LATEST 16 PHASE ONE RC HOLES ALL END IN MINERALISATION AND HAVE LONG INTERSECTIONS OF HIGH-GRADE, NON-RADIOACTIVE RARE EARTHS**

**PHASE TWO DEEP DRILLING ADVANCING POSITIVELY**

### HIGHLIGHTS

- Phase 2 depth-extension drilling is progressing extremely well with ~900 metres of the first 1,000-metre diamond core hole completed; textual consistency with surface mineralisation evident to current depths which is highly encouraging
- Assay results for latest 16 RC holes (from Phase One Drill Program) all have extensive high-grade rare earth mineralisation over continuous long intersections and all are ending in mineralisation with grades of up to 14.9% TREO
- Average grade of rare earths critical metal elements neodymium-praseodymium (NdPr) of 20.4% of TREO (cumulative for all holes)
- Significant intersections from latest 16 RC holes include:
  - ❖ KGKRC036: 100 metres from surface averaging 3.39% TREO
  - ❖ KGKRC054: 81 metres from surface to EOH averaging 3.35% TREO
  - ❖ KGKRC051: 154 metres from surface to EOH averaging 2.68% TREO including:
    - 20 metres @ 3.00% TREO from 26 metres
    - 41 metres @ 2.94% TREO from 52 metres
    - 49 metres @ 3.51% TREO from 105 metres
  - ❖ KGKRC050: 150 metres from surface to EOH averaging 2.63% TREO including:
    - 26 metres @ 2.85% TREO from 59 metres
    - 59 metres @ 3.43% TREO from 91 metres
  - ❖ KGKRC053: 148 metres from surface to EOH averaging 2.60% TREO
  - ❖ KGKRC042: 151 metres from surface to EOH averaging 2.40% TREO including:
    - 64 metres @ 3.30% TREO from surface
    - 13 metres @ 3.42% TREO from 120 metres
- Mineralisation continues to be non-radioactive - low levels of thorium and uranium radionuclides throughout all intervals
- Phase 1 program has concluded with 14,312 metres (92 holes) of drilling completed; assays for final 33 holes remain pending
- Maiden Mineral Resource Estimate remains on track for release by end of ***this quarter***

**Lindian’s Chief Executive Officer, Alistair Stephens commented:** “Kangankunde keeps on delivering outstanding assay results confirming that it is the most significant rare earths project globally in terms of grade, scale and non-radioactivity and fast becoming a Tier 1 asset.

Of particular note in these latest results is the very high grades being recorded in the southern part of the central carbonatite, with all three holes in this area having returned long intervals exceeding 3% TREO. Of the 33 holes for which assays are pending, the majority are in the north, where historical grades are the highest.

The continuity of the mineralisation detected so far, with all metres drilled bearing rare earths mineralisation, is indeed unparalleled and reinforces that Kangankunde is a standout rare earths project globally.

These latest results and those of the remaining 33 holes will be incorporated into the Company’s maiden Mineral Resource Estimate.

We are making excellent progress with the deep drilling program with ~900 metres of the initially planned 2,000 metres (2x 1,000 metre holes) having been completed. The textural consistency of the mineralisation at surface is evident throughout the hole and down to our current depths which is most encouraging.

Samples from the deep drilling program are at various stages of preparation with the first batch expected to depart Malawi this month for analysis.

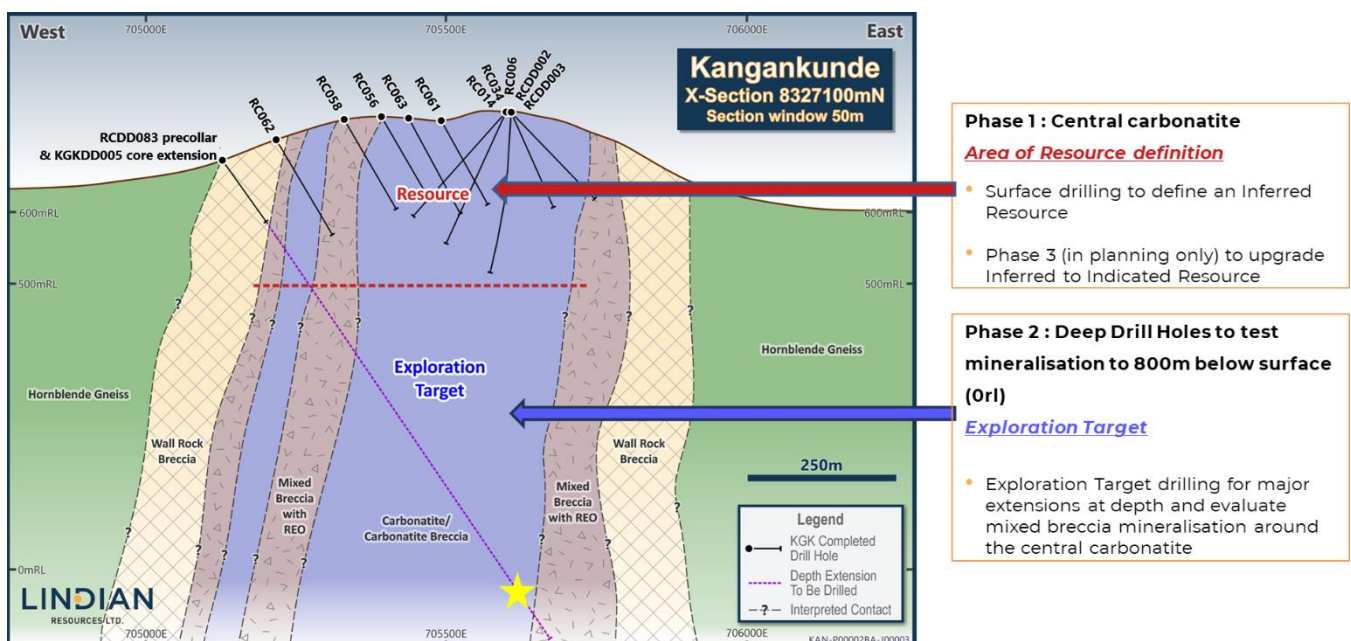
We continue to make excellent progress with our drill program and we remain on track to report our maiden Mineral Resource Estimate this quarter.”

Lindian Resources Limited (ASX:LIN) (“Lindian” or “the Company”) is pleased to advise on the progress of its Phase 2 Deep Drilling Program and of the receipt of further assays from the Phase 1 drilling program at the Kangankunde Rare Earths Project in Malawi.

**DRILL PROGRAM SUMMARY**

The Kangankunde drilling programs are 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 current quarter.

The yellow star in Figure 1 below indicates the approximate depth of the first hole in the Phase 2 Drill Program.



**Figure 1: Schematic demonstrating resource definition drilling and exploration target drilling**

## **PHASE 1 DRILL PROGRAM (MINE DEFINITION)**

The Phase 1 program has now concluded with 12,670 metres of RC drilling completed (82 RC holes) and 1,642.7 metres of core drilling (10 core drill holes, including 6 core tails) on the Kangankunde hill top. The program was designed to give initial data for resource evaluation and mine planning.

## **PHASE 2 DRILL PROGRAM (DEPTH EXTENSION)**

Drilling is continuing on the Phase 2 program with the first drill hole being drilled from the western side of the Central Carbonatite at a depth of ~900 metres.

The two drill holes, each planned to be 1,000 metres in length, are designed to test the E-W and N-S axes of the carbonatite between 300 metres and 800 metres below the hill top, approximately 500 metres below the current deepest drilling.

## **DRILL ASSAY RESULTS**

The assays reported below are from sixteen (16) reverse circulation (RC) drill holes **KGKRC036 and KGKRC041 to KGKRC054 and KGKRC057**.

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

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

- a) the western area of the central carbonatite complex; and
- b) the southern extent of the central carbonatite complex

### **1. Central Carbonatite Complex Western Area**

Holes KGKRC041 and KGKRC0043 to KGKRC054 were drilled in the western area of the central carbonatite on a general 25 metre line and 25 metre hole spacing. The intention of this drilling is to provide close spaced data for establishing geostatistical parameters for resource estimation and future drill planning. This area also shows some geological complexity with potential faults offsets of the western high grade carbonatite lenses and intervening mixed breccia rocks so a closer spacing was chosen to assist in understanding geological complexity. In addition, hole KGKRC046 was drilled as a twin to KGKRC040 to establish short range repeatability for QAQC studies. This was successful with both holes showed similar grade profiles over corresponding downhole lengths.

The drilling continued to show the western lenses of carbonatite mineralisation on the central carbonatite to be consistently high grade with KGKRC054 intersecting 81 metres at 3.34% TREO with high grade mineralisation continuing at the EOH and KGKRC046 intersected 55 metres at 3.25% TREO from 95 metres to EOH, also open at depth.

Figure 2 and Figure 3 show north facing cross section views 50 metres apart showing the western mineralisation results in context with previously reported central zone mineralisation.

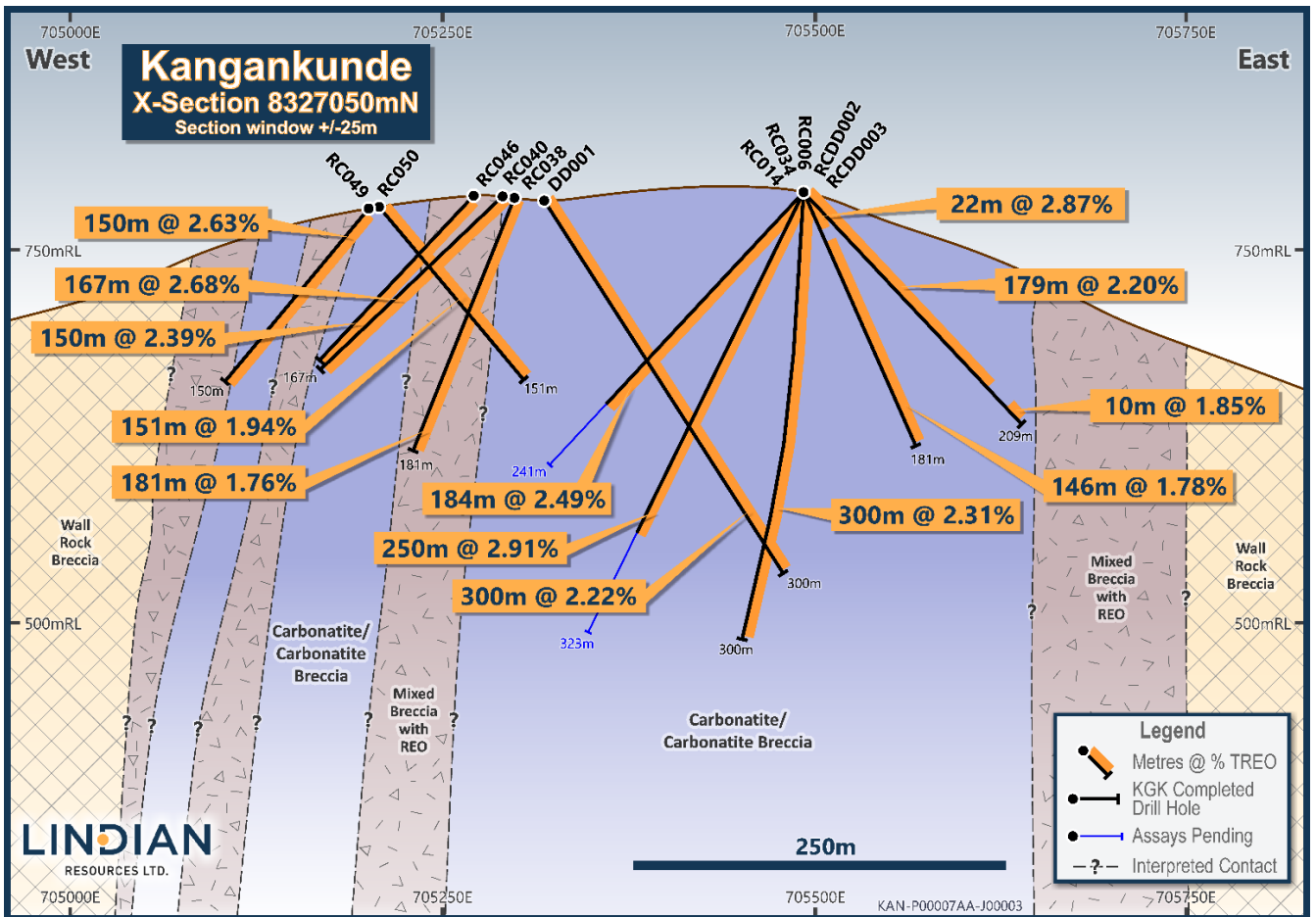


Figure 2: North facing cross section 8327050mN (A-A' Figure 4) showing KGKRC046, KGKRC049 and KGKRC050 reported in this announcement with previously reported drillholes.

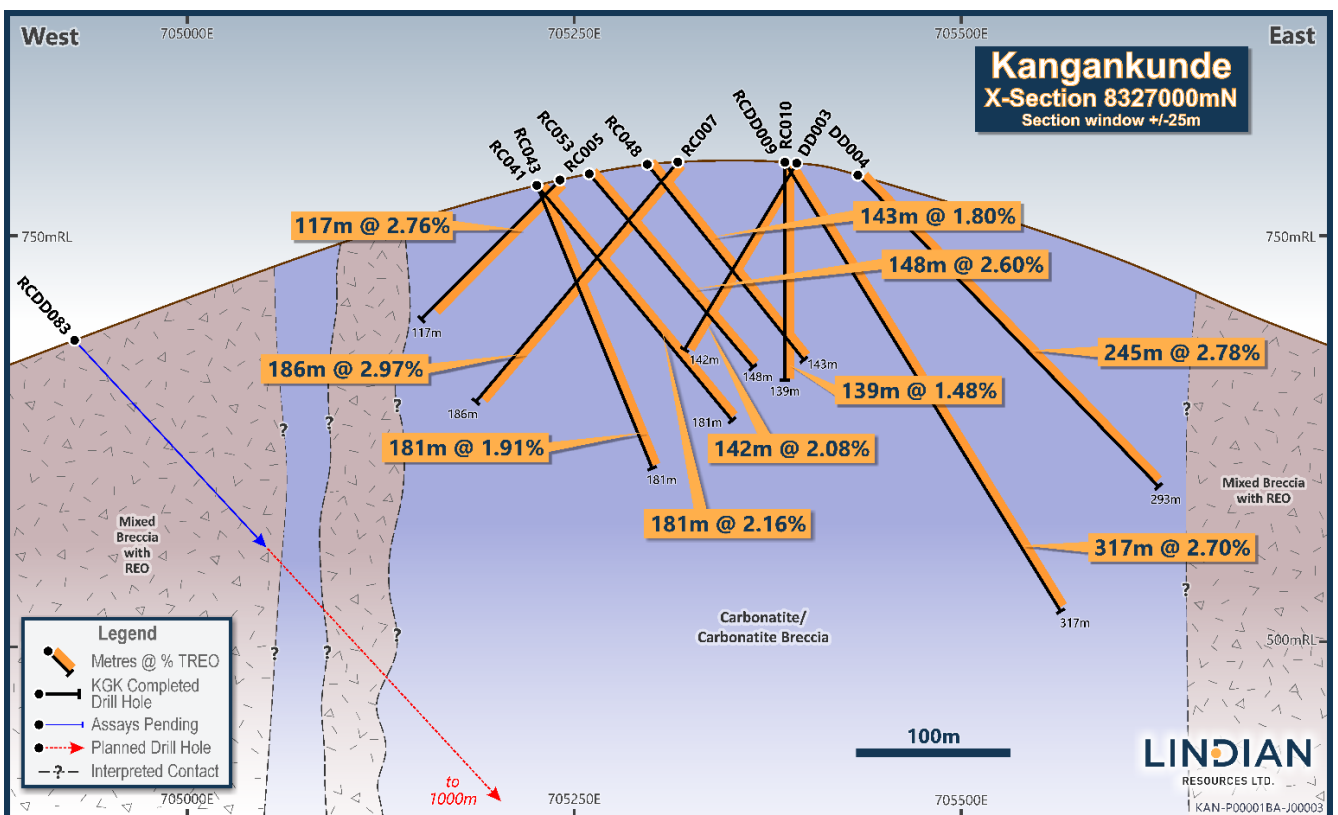


Figure 3: North facing cross section 8327000mN (B-B' Figure 4) showing KGKRC41, KGKRC043, KGKRC048 and KGKRC053 reported in this announcement with previously reported drillholes



2. Central Carbonatite South

Three holes were drilled in a radial pattern to test the carbonatite and locate the contact with the surrounding mixed breccia in the south of the carbonatite, an area not previously tested by historic drilling or trenching.

Results from KGKRC036 and KGKRC042 (this announcement) show high grade rare earths from surface including KGKRC036; 100 metres at 3.39% and KGKRC042; 64 metres at 3.30% TREO. These results are in addition to the previously announced KGKRC039<sup>1</sup> that intersected 150 metres at 3.02% TREO from surface including 29 metres at 4.70% TREO from surface and KGKRC031<sup>2</sup> with a near surface intersection of 70 metres at 2.74% TREO from 25 metres depth.

The intersections of the holes in this area are shown in plan view on Figure 4 below.

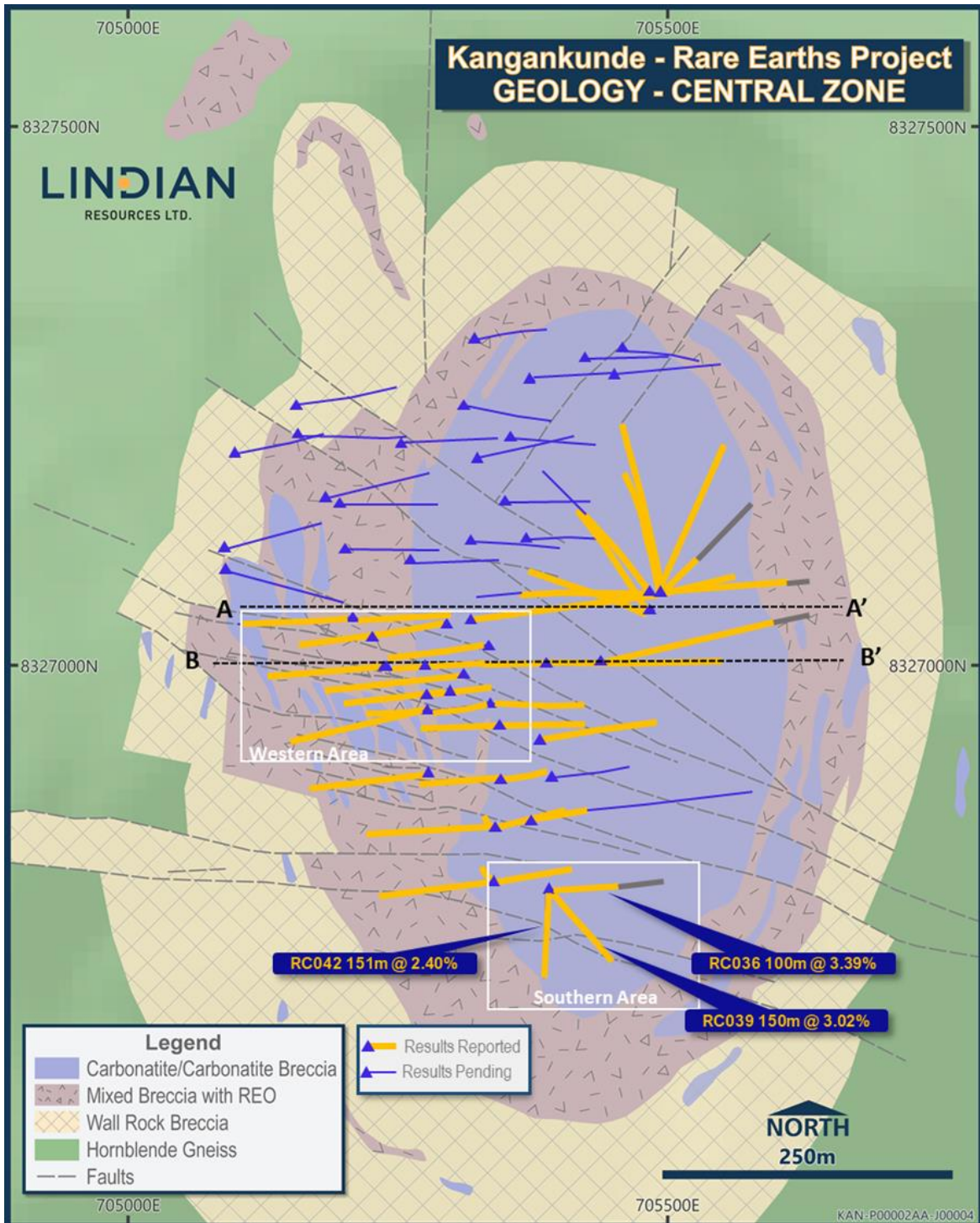


Figure 4: Kangankunde central carbonatite geology plan and drilling locations.

<sup>1</sup> ASX:LIN announcement 17 April 2023

<sup>2</sup> ASX:LIN announcement 09 March 2023

Table 1 following 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***	Area
<b>KGKRC036</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>3.39</b>	<b>6,740</b>	<b>20.3</b>	<b>Southern</b>
<b>KGKRC041</b>	<b>0</b>	<b>181</b>	<b>181</b>	<b>2.16</b>	<b>4,042</b>	<b>18.7</b>	<b>Western</b>
including	78	151	73	3.21	5,891	18.4	
<b>KGKRC042</b>	<b>0</b>	<b>151</b>	<b>151</b>	<b>2.40</b>	<b>5,328</b>	<b>22.2</b>	<b>Southern</b>
including	0	64	64	3.30	7,097	21.5	
	120	133	13	3.42	7,761	22.7	
<b>KGKRC043</b>	<b>0</b>	<b>181</b>	<b>181</b>	<b>1.91</b>	<b>3,584</b>	<b>18.8</b>	<b>Western</b>
including	1	34	33	2.34	4,353	18.6	
	40	68	28	2.06	3,679	17.9	
	103	162	59	2.14	4,053	18.9	
<b>KGKRC044</b>	<b>0</b>	<b>155</b>	<b>155</b>	<b>1.78</b>	<b>3,309</b>	<b>18.6</b>	<b>Western</b>
including	0	30	30	2.80	5,464	19.5	
	115	140	25	2.86	4,789	16.7	
<b>KGKRC045</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>1.71</b>	<b>3,115</b>	<b>18.2</b>	<b>Western</b>
including	0	31	31	2.12	4,217	19.9	
	81	91	10	3.64	5,785	15.9	
	138	150	12	3.63	6,230	17.2	
<b>KGKRC046</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>2.39</b>	<b>4,182</b>	<b>17.5</b>	<b>Western</b>
including	0	16	16	2.96	5,252	17.7	
	62	85	23	2.78	4,452	16.0	
	95	150	55	3.25	5,647	17.4	
<b>KGKRC047</b>	<b>0</b>	<b>145</b>	<b>145</b>	<b>1.84</b>	<b>3,963</b>	<b>21.5</b>	<b>Western</b>
including	0	44	44	2.19	4,526	20.7	
	104	124	20	2.81	5,203	18.5	
<b>KGKRC048</b>	<b>0</b>	<b>143</b>	<b>143</b>	<b>1.80</b>	<b>3,725</b>	<b>20.7</b>	<b>Western</b>
including	5	41	36	3.18	6,399	20.1	
<b>KGKRC049</b>	<b>0</b>	<b>151</b>	<b>151</b>	<b>1.94</b>	<b>3,786</b>	<b>19.5</b>	<b>Western</b>
including	44	87	43	2.36	4,476	19.0	
	119	151	32	3.18	6,062	19.1	
<b>KGKRC050</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>2.63</b>	<b>4,847</b>	<b>18.4</b>	<b>Western</b>
including	59	85	26	2.85	5,302	18.6	
	91	150	59	3.43	6,027	17.6	
<b>KGKRC051</b>	<b>0</b>	<b>154</b>	<b>154</b>	<b>2.68</b>	<b>4,664</b>	<b>17.4</b>	<b>Western</b>
including	26	46	20	3.00	5,216	17.4	
	52	93	41	2.94	5,173	17.6	
	105	154	49	3.51	5,909	16.8	
<b>KGKRC052</b>	<b>0</b>	<b>151</b>	<b>151</b>	<b>2.06</b>	<b>3,839</b>	<b>18.6</b>	<b>Western</b>
including	0	26	26	2.33	4,391	18.9	
	33	42	9	3.14	5,543	17.6	
	74	97	23	2.76	5,011	18.2	
	110	126	16	3.05	5,907	19.3	
<b>KGKRC053</b>	<b>0</b>	<b>148</b>	<b>148</b>	<b>2.60</b>	<b>5,211</b>	<b>20.0</b>	<b>Western</b>
<b>KGKRC054</b>	<b>0</b>	<b>81</b>	<b>81</b>	<b>3.35</b>	<b>5,421</b>	<b>16.2</b>	<b>Western</b>
<b>KGKRC057</b>	<b>0</b>	<b>109</b>	<b>109</b>	<b>1.85</b>	<b>3,413</b>	<b>18.4</b>	<b>Western</b>

\* 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 20.4 of the TREO for all holes assayed to date.

## Non-Radioactive Mineralisation

Radionuclides uranium (U) and thorium (Th) continue to be low in all areas. 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
KGKRC036	0	100	100	28	5
KGKRC041	0	181 (EOH)	181	33	10
KGKRC042	0	151 (EOH)	151	48	4
KGKRC043	0	181 (EOH)	181	25	4
KGKRC044	0	155 (EOH)	155	33	4
KGKRC045	0	150 (EOH)	150	27	3
KGKRC046	0	150 (EOH)	150	34	1
KGKRC047	0	145 (EOH)	145	51	9
KGKRC048	0	143 (EOH)	143	40	11
KGKRC049	0	151 (EOH)	151	27	2
KGKRC050	0	150 (EOH)	150	34	1
KGKRC051	0	154 (EOH)	154	30	2
KGKRC052	0	151 (EOH)	151	31	6
KGKRC053	0	148 (EOH)	148	51	5
KGKRC054	0	81 (EOH)	81	34	2
KGKRC057	0	109 (EOH)	109	33	4

## PHASE 1 PROGRAM STATUS

As reported above, the Phase 1 program has been completed with 82 RC holes for 12,670 metres and 10 core drill holes, including 6 core tails to RC holes for 1,642.7 metres. The program was designed to give initial data for resource evaluation and mine planning.

The status of the drill hole sampling and assay is as follows:

**Table 3: Completed drill hole sampling and assay status at 10th May 2023 (Phase One only)**

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	✓				

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC009	✓				
KGKRC010	✓				
KGKRC011	✓				
KGKRC012	✓				
KGKRC013	✓				
KGKRC014	✓				
KGKRC015	✓				
KGKRC016	✓				
KGKRC017	✓				
KGKRC018	✓				
KGKRC019	✓				
KGKRC020	✓				
KGKRC021	✓				
KGKRC022	✓				
KGKRC023	✓				
KGKRC024	✓				
KGKRC025	✓				
KGKRC026	✓				
KGKRC027	✓				
KGKRC028	✓				
KGKRC029	✓				
KGKRC030	✓				
KGKRC031	✓				
KGKRC032	✓				
KGKRC033	✓				
KGKRC034	✓				
KGKRC035	✓				
KGKRC036	✓				
KGKRC037	✓				
KGKRC038	✓				
KGKRC039	✓				
KGKRC040	✓				
KGKRC041	✓				
KGKRC042	✓				
KGKRC043	✓				
KGKRC044	✓				
KGKRC045	✓				
KGKRC046	✓				
KGKRC047	✓				
KGKRC048	✓				
KGKRC049	✓				
KGKRC050	✓				
KGKRC051	✓				
KGKRC052	✓				



Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC053	✓				
KGKRC054	✓				
KGKRC055		✓			
KGKRC056		✓			
KGKRC057	✓				
KGKRC058		✓			
KGKRC059		✓			
KGKRC060		✓			
KGKRC061		✓			
KGKRC062		✓			
KGKRC063		✓			
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KGKRC067		✓			
KGKRC068		✓			
KGKRC069		✓			
KGKRC070		✓			
KGKRC071		✓			
KGKRC072		✓			
KGKRC073				✓	
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KGKRC076				✓	
KGKRC077				✓	
KGKRC078				✓	
KGKRC079				✓	
KGKRC080				✓	
KGKRC081				✓	
KGKRC082				✓	
KGK DD001	✓				
KGK DD002	✓				
KGKDD003	✓				
KGKDD004	✓				
KGKRCDD001	✓				
KGKRCDD002		✓			
KGKRCDD003		✓			
KGKRCDD009	✓				
KGKRCDD018		✓			
KGKRCDD029		✓			

**Table 4: Completed drill hole sampling and assay status at 10th May 2023 (Phase Two)**

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC083 (pre-collar)				✓	
KGKDD005					✓
KGKDD006	Drilling not yet commenced				

## PREVIOUSLY REPORTED DRILL RESULTS

Table 5 below summarises previous drill results and the related ASX release date.

**Table 5: Previously released drilling results;**

Hole ID	From (m)	To (m)	Intersection (m)	TREO %	NdPrO% of TREO**	ASX release Date*
KGKDD001	0.0	316.2	316.2	2.22	20	17 <sup>th</sup> April 2023
KGKDD002	0	31.62	31.62	2.26	17	9 <sup>th</sup> March 2023
and	62.17	188.17	126	2.82	17	9 <sup>th</sup> March 2023
KGKDD003	0.0	141.9	141.9	2.08	21	17 <sup>th</sup> April 2023
KGKDD004	0.0	245.4	245.4	2.78	20	17 <sup>th</sup> April 2023
KGKRCDD009	0.0	317.2	317.2	2.70	20	17 <sup>th</sup> April 2023
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
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
KGKRC015	0	160	160	2.04	19	9 <sup>th</sup> March 2023
KGKRC016	0.0	171.0	171.0	1.71	20	17 <sup>th</sup> April 2023
KGKRC017	0.0	163.0	163.0	1.41	22	17 <sup>th</sup> April 2023
KGKRC018	4.0	188.0	184.0	3.55	20	17 <sup>th</sup> April 2023
KGKRC019	0	56	56	1.78	19	9 <sup>th</sup> March 2023
KGKRC020	0	167	167	2.85	18	9 <sup>th</sup> March 2023
KGKRC021	0	89	89	1.26	19	9 <sup>th</sup> March 2023
KGKRC022	0	146	146	1.34	18	9 <sup>th</sup> March 2023
KGKRC023	0	28	28	2.87	20	9 <sup>th</sup> March 2023
KGKRC024	0	169	169	1.50	20	9 <sup>th</sup> March 2023
KGKRC0025	0	109	109	1.56	20	9 <sup>th</sup> March 2023

Hole ID	From (m)	To (m)	Intersection (m)	TREO %	NdPrO% of TREO**	ASX release Date*
KGKRC027	0	79	79	2.63	22	9 <sup>th</sup> March 2023
and	110	170	60	2.45	22	9 <sup>th</sup> March 2023
KGKRC0028	0	169	169	1.74	22	9 <sup>th</sup> March 2023
KGKRC029	0	58	58	1.18	24	9 <sup>th</sup> March 2023
and	58	84	26	6.15	20	9 <sup>th</sup> March 2023
KGKRC030	0	188	188	1.61	21	9 <sup>th</sup> March 2023
KGKRC031	0	175	175	2.31	21	9 <sup>th</sup> March 2023
KGKRC032	2.0	63.0	61.0	1.90	20	17 <sup>th</sup> April 2023
KGKRC033	0.0	169.0	169.0	2.05	22	17 <sup>th</sup> April 2023
KGKRC034	1.0	23.0	22.0	2.87	20	17 <sup>th</sup> April 2023
and	35.0	181.0	146.0	1.78	22	17 <sup>th</sup> April 2023
KGKRC035	0.0	147.0	147.0	1.28	24	17 <sup>th</sup> April 2023
KGKRC037	0.0	160.0	160.0	3.04	20	17 <sup>th</sup> April 2023
KGKRC038	0.0	181.0	181.0	1.76	19	17 <sup>th</sup> April 2023
KGKRC039	0.0	150.0	150.0	3.02	23	17 <sup>th</sup> April 2023
KGKRC040	0.0	167.0	167.0	2.68	17	17 <sup>th</sup> April 2023

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

\*\* NdPrO% / TREO% x 100

## METALLURGY

Preliminary metallurgical testwork has demonstrated a mineral concentrate of ~60% and a recovery of circa 70% using water-only, low-cost gravity and magnetic beneficiation techniques.

Lindian will continue to refine the use of gravity and magnetic separation techniques, and expects to further improve the REO recovery and REO concentrate grade, with finer grinding a key variable to be tested to improve recovery and concentrate grade.

Refer ASX announcement of 11 April 2023.

## MINERAL RESOURCE ESTIMATION

Lindian expects to deliver its maiden Mineral Resource Estimate in June 2023 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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**Alistair Stephens (CEO)**

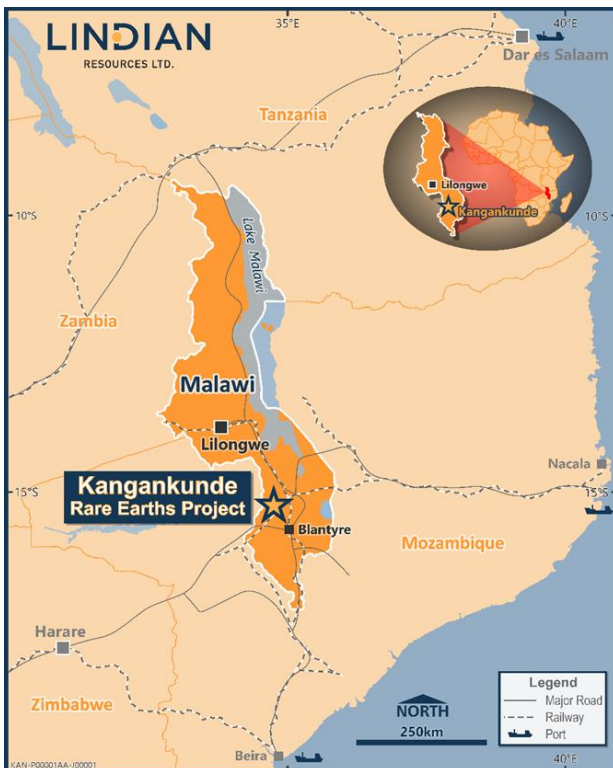
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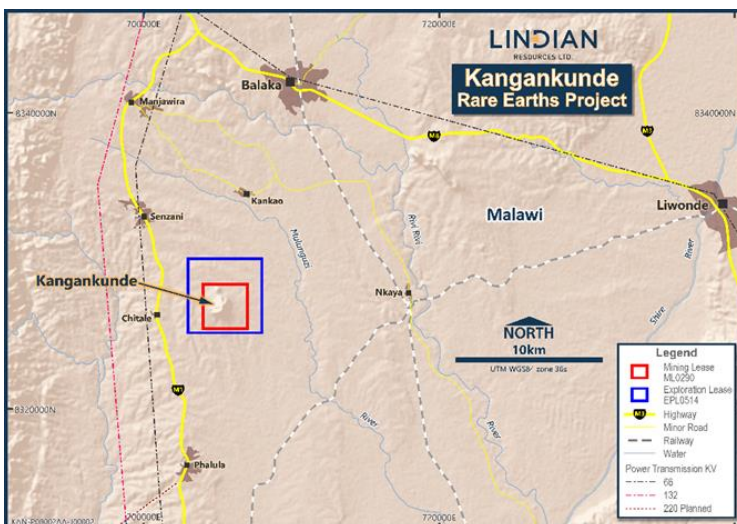
## About Lindian

### 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.

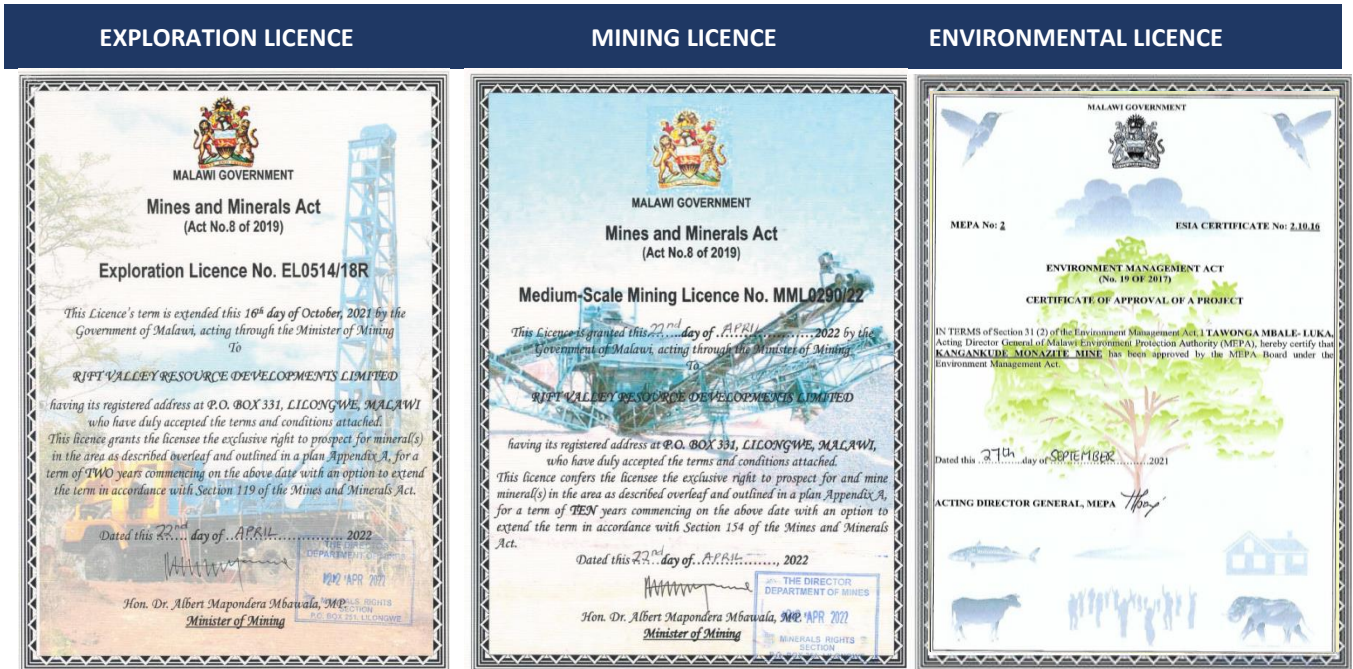


**Kangankunde** is located 90 kilometres north of the city of Blantyre, the main economic and commercial centre in Malawi. The town of Balaka, 15 kilometres to the north of Kangankunde, a regional trade centre, has a population of about 36,000 people. The project is located close to the main M1 highway,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



**Tenure and licences**

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.



**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.



## 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.

## 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).

Mr. Stephens consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

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.

### 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 TN (Ave.)	Inclination (Ave.)
KGKRC036	RC	705392	8326788	796	174	086	-55
KGKRC041	RC	705239	8327002	783	181	082	-51
KGKRC042	RC	705388	8326794	795	151	182	-55
KGKRC043	RC	705238	8327002	783	181	085	-68
KGKRC044	RC	705358	8326964	798	155	270	-50
KGKRC045	RC	705329	8326961	796	150	265	-51
KGKRC046	RC	705271	8327029	787	150	268	-47
KGKRC047	RC	705337	8326962	797	145	091	-54
KGKRC048	RC	705308	8326997	792	143	088	-51
KGKRC049	RC	705207	8327042	780	151	088	-50
KGKRC050	RC	705203	8327042	780	150	264	-50
KGKRC051	RC	705305	8326974	792	154	258	-49
KGKRC052	RC	705232	8327010	782	151	097	-53
KGKRC053	RC	705273	8327018	787	148	088	-49
KGKRC054	RC	705232	8327009	782	81	264	-52
KGKRC057	RC	705281	8326971	788	109	090	-62

**Appendix 2: Analytical Results This Release**

Note: NS= No sample

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 %	Th ppm	U ppm
KGKRC041	0	1	5934	9889	869	2438	151	26.3	41.2	3.0	8.8	0.9	1.3	0.1	0.6	0.1	17.8	1.94	18.2	0.5
	1	2	8315	14802	1402	3884	238	40.4	62.0	4.2	11.7	1.2	1.9	0.2	0.7	0.1	22.9	2.88	28.0	0.4
	2	3	7834	13758	1238	3523	217	36.7	57.1	4.1	11.0	1.0	1.7	0.2	0.7	0.1	22.9	2.67	24.5	0.4
	3	4	12490	21436	2084	5552	344	57.0	87.0	6.2	17.8	1.8	2.9	0.2	1.0	0.1	35.6	4.21	39.2	0.7
	4	5	6990	12112	1108	3149	202	35.6	56.5	4.1	12.6	1.3	2.1	0.2	1.0	0.2	26.7	2.37	29.9	4.5
	5	6	6392	11535	1083	3231	241	45.5	76.3	5.8	17.5	1.7	2.7	0.3	1.0	0.1	38.1	2.27	55.5	2.5
	6	7	5418	9913	912	2636	174	29.8	47.5	3.3	9.9	1.1	1.6	0.1	0.7	0.1	21.6	1.92	22.5	0.7
	7	8	6509	11866	1087	3114	204	35.9	55.2	4.0	11.4	1.2	2.2	0.2	0.6	0.1	25.4	2.29	22.8	1.2
	8	9	5770	10441	986	2951	198	33.6	55.3	4.0	12.3	1.4	2.3	0.2	1.0	0.1	29.2	2.05	21.4	1.8
	9	10	4937	8930	846	2473	165	28.8	46.7	3.2	9.4	0.9	1.5	0.2	0.8	0.1	20.3	1.75	21.7	1.3
	10	11	4633	8402	790	2356	159	27.4	42.9	3.0	8.7	1.0	1.7	0.2	0.9	0.1	20.3	1.64	18.0	3.8
	11	12	6533	11375	1106	3196	216	36.7	64.9	4.3	13.3	1.3	2.4	0.2	1.0	0.1	31.8	2.26	33.8	2.8
	12	13	6697	11829	1174	3429	224	37.6	60.3	3.7	10.3	1.1	1.5	0.1	0.7	0.1	21.6	2.35	25.6	1.1
	13	14	4879	9029	843	2414	159	28.0	44.5	2.8	7.8	0.8	1.6	0.2	0.6	0.1	16.5	1.74	19.0	1.3
	14	15	5067	8881	817	2356	154	27.7	45.2	3.0	7.9	0.8	1.6	0.1	0.7	0.1	19.1	1.74	24.7	4.3
	15	16	6896	12468	1141	3266	207	37.8	57.9	4.0	11.7	1.2	2.1	0.2	0.9	0.1	26.7	2.41	22.1	3.1
	16	17	4621	8427	805	2379	164	30.0	47.8	3.4	11.0	1.3	2.4	0.3	1.7	0.2	29.2	1.65	23.0	4.5
	17	18	2381	4459	430	1371	128	28.8	56.7	5.0	21.5	3.1	7.7	1.0	6.3	0.9	90.2	0.90	34.3	5.2
	18	19	3847	6560	634	1843	130	23.5	42.1	3.3	11.3	1.4	2.5	0.4	1.8	0.3	33.0	1.31	21.6	5.1
	19	20	2369	4201	381	1106	75	14.8	24.1	1.7	5.1	0.6	1.0	0.1	0.6	0.1	14.0	0.82	13.4	2.6
	20	21	6990	11805	1058	3033	200	38.9	62.7	4.5	12.6	1.3	2.2	0.2	0.9	0.2	27.9	2.32	33.7	4.2
	21	22	2733	4803	439	1289	102	21.4	42.7	3.8	14.2	1.8	3.7	0.5	1.9	0.3	44.5	0.95	27.5	3.6
	22	23	1689	3169	300	945	84	20.7	45.8	4.5	18.9	2.7	6.2	0.6	3.8	0.4	71.1	0.64	22.6	4.1
	23	24	5313	9569	881	2589	194	39.7	72.6	5.8	21.1	2.4	4.8	0.5	2.3	0.3	59.7	1.88	27.8	3.2
	24	25	4269	7678	731	2193	168	33.7	60.2	5.1	16.9	1.9	3.7	0.3	1.8	0.2	45.7	1.52	17.0	4.4
	25	26	6685	11842	1089	3138	205	37.5	59.5	4.5	12.9	1.4	2.6	0.3	1.4	0.2	33.0	2.31	22.2	2.1
	26	27	8479	15478	1486	3989	242	43.9	69.5	4.9	15.5	1.5	2.9	0.3	1.4	0.2	34.3	2.98	24.7	3.6
	27	28	3964	7137	666	2030	159	32.4	59.4	5.1	19.3	2.4	5.2	0.5	3.2	0.5	62.2	1.41	27.0	1.5
	28	29	3683	6609	622	1890	155	33.1	60.1	5.5	21.5	2.7	5.7	0.6	4.1	0.6	72.4	1.32	27.9	3.7
	29	30	3812	6707	623	1831	146	30.7	56.4	4.8	17.0	2.0	3.4	0.4	2.3	0.3	47.0	1.33	19.0	5.3
	30	31	3683	6400	592	1790	144	27.7	50.7	4.7	16.5	1.8	3.2	0.3	1.7	0.3	44.5	1.28	23.6	7.5
	31	32	2721	4742	441	1400	122	24.4	45.8	4.4	17.3	2.1	4.1	0.4	2.6	0.4	54.6	0.96	23.2	5.1
	32	33	1994	3955	390	1312	123	23.5	42.5	4.1	15.2	1.8	4.1	0.5	2.7	0.4	53.3	0.79	32.5	3.5
	33	34	5665	9950	936	2858	224	39.4	62.8	5.0	16.1	1.9	3.5	0.3	1.8	0.2	45.7	1.98	44.0	3.0
	34	35	3495	6326	603	1855	149	26.8	47.1	4.1	15.5	2.0	4.2	0.4	2.3	0.3	50.8	1.26	14.4	5.3
	35	36	4163	7321	673	2012	155	28.6	49.7	4.1	15.3	1.9	3.2	0.3	1.8	0.2	41.9	1.45	18.8	3.1
	36	37	2627	4570	424	1318	106	19.3	35.5	3.0	11.9	1.4	3.1	0.3	1.6	0.2	36.8	0.92	13.4	3.8
	37	38	2791	4963	469	1487	133	26.4	53.8	5.3	21.6	3.0	6.4	0.6	5.7	0.4	74.9	1.00	14.6	5.5
	38	39	5688	10011	925	2776	197	34.5	57.4	4.5	16.0	1.7	3.4	0.4	2.1	0.3	43.2	1.98	18.5	3.4
39	40	4492	7567	684	2059	147	25.9	44.1	3.7	11.7	1.4	2.4	0.2	1.4	0.1	31.8	1.51	16.8	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 %	Th ppm	U ppm
	40	41	4187	7407	692	2105	157	28.1	46.1	3.8	12.5	1.5	2.5	0.3	1.4	0.2	34.3	1.47	14.4	4.0
	41	42	2439	4238	390	1213	99	18.5	34.0	2.9	11.8	1.5	3.1	0.3	1.5	0.2	38.1	0.85	11.0	2.6
	42	43	3483	6044	561	1732	142	28.1	51.2	4.7	17.2	2.1	3.9	0.4	2.2	0.2	54.6	1.21	18.8	3.2
	43	44	8679	16706	1752	5121	366	58.5	90.6	6.3	18.1	1.9	3.1	0.3	1.4	0.1	41.9	3.28	44.1	1.8
	44	45	12314	24077	2489	7675	514	82.0	121.6	8.3	22.5	2.2	3.7	0.3	1.4	0.1	44.5	4.74	68.5	1.5
	45	46	2979	5602	552	1785	165	32.7	59.4	5.6	21.2	2.7	5.4	0.6	2.9	0.3	69.8	1.13	20.2	4.3
	46	47	4914	9090	865	2671	202	35.1	58.3	4.6	14.5	1.5	2.9	0.3	1.6	0.2	36.8	1.79	24.5	2.8
	47	48	1964	3833	389	1312	133	27.7	54.5	5.6	26.2	4.1	9.7	1.1	5.4	0.6	114.3	0.79	19.4	15.2
	48	49	3683	6670	651	2088	175	32.2	58.1	5.0	18.8	2.2	4.2	0.3	1.9	0.3	54.6	1.34	30.0	8.7
	49	50	4175	7862	762	2403	197	35.7	61.4	4.9	18.0	2.2	3.9	0.3	2.2	0.2	53.3	1.56	25.8	5.5
	50	51	1994	3673	352	1127	100	19.0	35.6	3.4	13.5	1.8	4.1	0.5	3.0	0.4	49.5	0.74	21.5	9.4
	51	52	80	161	17	57	9	2.8	6.5	1.0	5.5	1.0	2.7	0.5	3.4	0.5	30.5	0.04	22.7	5.4
	52	53	73	147	15	52	8	2.4	6.1	1.0	5.4	1.0	3.4	0.5	3.6	0.6	31.8	0.04	23.0	4.7
	53	54	915	1818	170	532	47	9.3	17.4	1.8	8.7	1.5	4.4	0.6	3.5	0.5	43.2	0.36	21.6	11.4
	54	55	983	1879	169	519	45	8.8	17.2	1.9	8.6	1.6	4.4	0.7	4.3	0.6	45.7	0.37	25.3	11.0
	55	56	87	170	17	57	8	2.2	5.3	0.9	5.5	1.3	5.6	0.9	6.5	0.7	39.4	0.04	22.8	7.0
	56	57	94	182	19	65	10	2.9	7.4	1.0	5.7	0.9	3.0	0.4	2.7	0.4	26.7	0.04	15.4	5.8
	57	58	109	211	22	78	12	3.6	8.5	1.5	9.3	1.5	3.9	0.4	2.9	0.4	40.6	0.05	34.2	5.0
	58	59	1337	2874	280	907	84	17.4	33.9	3.5	15.8	2.3	5.6	0.6	3.8	0.6	61.0	0.56	19.0	6.5
	59	60	3202	5614	552	1820	128	25.5	45.2	3.9	14.6	1.9	4.1	0.5	2.5	0.3	57.2	1.15	16.4	4.2
	60	61	8679	14741	1553	4631	337	67.0	122.8	10.3	34.7	4.4	8.8	0.8	4.1	0.5	118.1	3.03	39.1	11.0
	61	62	6732	11473	1138	3651	254	50.3	92.4	7.8	27.1	3.4	7.0	0.7	3.4	0.4	90.2	2.35	25.5	6.6
	62	63	7095	11793	1147	3628	266	54.2	101.4	8.5	29.6	3.8	7.8	0.7	3.5	0.4	102.9	2.42	26.7	7.0
	63	64	5102	8722	870	2764	187	34.7	58.9	4.5	14.8	1.7	4.0	0.4	2.2	0.3	49.5	1.78	27.7	5.4
	64	65	3542	6105	599	1919	133	26.1	43.6	3.5	11.8	1.6	3.1	0.3	2.2	0.3	40.6	1.24	24.5	4.5
	65	66	532	948	98	313	26	6.3	13.6	1.5	7.1	1.1	3.2	0.4	3.4	0.5	38.1	0.20	21.4	5.3
	66	67	245	431	44	149	14	3.7	8.1	1.1	5.2	0.9	2.6	0.4	3.2	0.5	30.5	0.09	17.0	5.3
	67	68	1243	2236	216	703	58	13.4	26.4	2.8	12.3	1.9	4.1	0.6	3.1	0.5	53.3	0.46	16.3	16.2
	68	69	3331	5430	513	1604	116	24.4	45.3	4.2	15.7	2.1	4.4	0.4	2.4	0.3	58.4	1.12	17.8	16.0
	69	70	3272	5589	551	1785	146	31.6	62.9	6.0	22.0	3.0	5.8	0.5	2.3	0.3	77.5	1.16	16.1	13.6
	70	71	2744	4778	478	1575	132	29.9	57.2	5.1	18.9	2.3	4.5	0.4	1.9	0.2	62.2	0.99	13.1	9.9
	71	72	2310	4066	412	1388	120	27.3	53.4	5.0	18.8	2.4	4.8	0.4	1.9	0.2	62.2	0.85	10.4	8.1
	72	73	4996	8758	877	2823	212	44.6	81.7	6.9	23.8	2.9	5.5	0.6	2.4	0.3	73.7	1.79	23.2	9.8
	73	74	5465	9164	904	2858	201	40.5	73.9	6.1	20.7	2.5	4.2	0.4	1.8	0.2	63.5	1.88	19.0	5.8
	74	75	4597	7935	801	2624	195	39.6	72.5	5.9	19.1	2.2	4.5	0.4	2.1	0.3	59.7	1.64	18.6	4.9
	75	76	4668	7948	779	2496	172	35.0	58.4	4.8	15.0	1.6	3.1	0.3	1.3	0.2	41.9	1.62	18.4	5.0
	76	77	3647	6388	637	2094	170	36.9	69.5	6.1	23.3	2.9	5.7	0.5	2.7	0.3	80.0	1.32	21.5	6.4
	77	78	4668	7935	773	2484	180	38.2	65.4	5.4	17.7	2.1	4.2	0.4	1.8	0.2	55.9	1.62	26.1	7.3
	78	79	6216	10159	964	3044	216	45.0	83.2	7.2	25.3	3.3	5.7	0.6	3.2	0.4	88.9	2.09	31.6	8.6
	79	80	5700	9668	936	2974	202	40.0	69.4	5.5	18.1	2.1	4.0	0.3	1.7	0.2	54.6	1.97	21.1	5.1
	80	81	5301	9127	910	2904	254	39.3	149.3	27.4	192.2	41.9	149.2	21.0	136.1	17.0	1422.3	2.07	152.0	28.1
	81	82	13253	24384	2610	8141	497	86.6	135.4	8.3	21.7	2.1	3.2	0.3	1.4	0.2	45.7	4.92	65.5	7.4
	82	83	8608	15724	1685	5167	337	62.5	99.9	7.2	20.5	2.2	3.5	0.3	1.5	0.2	50.8	3.18	36.5	5.5
	83	84	4891	8623	876	2869	202	41.7	74.6	5.9	18.8	2.3	4.6	0.4	1.9	0.2	58.4	1.77	19.8	5.4
	84	85	4902	8329	829	2706	208	43.4	79.1	6.6	24.2	2.9	6.4	0.6	3.1	0.3	77.5	1.72	29.2	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 %	Th ppm	U ppm
	85	86	6005	10073	976	3056	209	40.1	68.6	5.4	16.8	1.9	3.8	0.4	1.6	0.2	48.3	2.05	22.9	5.3
	86	87	5336	9299	935	2998	205	40.6	70.8	5.7	19.1	2.3	4.8	0.5	2.5	0.3	62.2	1.90	40.1	3.4
	87	88	7482	12345	1194	3756	253	48.6	82.8	6.3	19.4	2.2	4.4	0.4	2.2	0.2	55.9	2.53	31.7	7.7
	88	89	4996	8378	818	2554	172	33.4	57.8	4.4	14.2	1.7	3.3	0.3	1.8	0.2	41.9	1.71	26.7	11.0
	89	90	3941	7076	695	2292	190	35.8	65.1	6.4	21.6	2.8	5.6	0.6	3.3	0.4	69.8	1.44	23.8	7.1
	90	91	7471	13021	1194	3616	249	40.0	62.9	4.8	12.4	1.4	2.3	0.2	1.1	0.1	27.9	2.57	33.9	4.8
	91	92	6286	10417	952	2904	198	31.8	51.3	4.0	10.7	1.3	2.4	0.2	1.5	0.2	27.9	2.09	22.7	3.7
	92	93	4421	7493	678	2094	144	22.9	36.9	2.9	8.2	0.9	1.6	0.2	1.1	0.3	21.6	1.49	14.3	1.1
	93	94	7178	12591	1172	3534	230	36.7	56.1	4.5	10.3	1.2	1.8	0.2	0.9	0.1	21.6	2.48	24.7	0.8
	94	95	10450	18672	1873	5447	356	53.7	80.6	5.9	13.4	1.5	2.3	0.2	1.1	0.1	27.9	3.70	40.7	1.0
	95	96	12842	23401	2356	6858	460	71.4	107.7	7.6	17.7	1.7	2.7	0.2	1.0	0.1	34.3	4.62	56.1	0.7
	96	97	11306	19409	1897	5517	380	61.3	97.6	7.2	20.0	2.0	3.4	0.3	1.5	0.2	44.5	3.87	53.8	1.4
	97	98	18823	32921	3190	9634	588	91.7	142.9	11.2	30.0	3.4	6.2	0.6	3.2	0.5	83.8	6.55	71.7	2.5
	98	99	14953	27025	2694	8200	517	81.5	122.2	8.7	21.7	2.3	3.9	0.3	1.7	0.2	45.7	5.37	61.6	1.9
	99	100	15129	28253	2912	9168	594	95.2	143.5	10.4	25.6	2.7	4.6	0.4	2.2	0.2	58.4	5.64	78.4	2.5
	100	101	16654	27516	2586	7290	474	75.7	114.2	8.5	21.0	2.0	3.5	0.3	1.5	0.2	40.6	5.48	58.4	3.3
	101	102	14367	22910	2108	5809	348	55.0	86.7	6.9	17.7	2.1	3.9	0.3	2.2	0.3	47.0	4.58	37.1	2.8
	102	103	10942	17075	1571	4222	244	38.7	61.1	5.2	13.5	1.6	3.0	0.3	2.1	0.2	41.9	3.42	25.2	2.5
	103	104	12608	21067	2060	5890	384	61.4	96.7	8.0	22.3	2.6	4.5	0.4	2.3	0.3	58.4	4.23	50.9	3.7
	104	105	10309	18610	1921	5657	400	63.0	99.5	7.5	21.1	2.3	3.8	0.4	2.1	0.2	53.3	3.72	63.3	2.9
	105	106	8292	12530	1073	3103	188	30.5	49.9	4.6	13.4	1.7	3.1	0.3	1.5	0.2	40.6	2.53	24.4	2.6
	106	107	10051	15601	1389	3779	227	35.4	55.6	4.8	11.9	1.4	2.5	0.2	1.4	0.2	30.5	3.12	24.5	2.2
	107	108	11212	17198	1583	4269	250	40.6	62.8	4.9	12.6	1.5	2.5	0.2	1.1	0.1	33.0	3.47	29.6	5.4
	108	109	7799	12198	1068	3114	208	35.3	61.9	5.9	17.9	2.2	4.1	0.4	2.1	0.2	53.3	2.46	24.9	7.4
	109	110	11599	18180	1655	4479	271	43.3	73.5	6.9	20.9	2.9	6.0	0.6	3.3	0.4	73.7	3.64	30.1	5.2
	110	111	16419	27639	2658	7908	471	74.7	114.2	9.0	25.0	2.9	5.3	0.5	2.9	0.3	68.6	5.54	61.4	4.5
	111	112	13135	21743	2084	5762	356	55.5	84.7	6.7	16.4	1.9	3.3	0.3	1.8	0.2	43.2	4.33	37.9	2.0
	112	113	10766	17996	1734	4899	321	51.5	80.5	6.8	16.6	1.9	3.2	0.3	1.8	0.2	43.2	3.59	41.4	1.7
	113	114	19938	30219	2718	7430	421	66.4	106.0	9.1	23.8	2.5	4.2	0.4	1.8	0.2	55.9	6.10	48.3	2.0
	114	115	12666	19470	1776	4782	295	48.6	80.7	6.8	18.3	1.9	3.3	0.3	1.8	0.2	44.5	3.92	38.4	2.5
	115	116	14777	22173	2012	5237	303	49.4	78.3	7.6	21.8	2.7	3.7	0.3	1.4	0.2	54.6	4.47	39.6	2.2
	116	117	15070	22725	2036	5447	304	49.3	80.5	5.5	16.4	1.9	3.2	0.3	1.4	0.2	39.4	4.58	35.1	1.8
	117	118	13429	20330	1830	4852	273	43.4	69.4	5.7	14.8	1.7	3.0	0.3	1.7	0.2	36.8	4.09	32.5	2.0
	118	119	10579	16522	1516	4164	252	41.8	66.3	5.5	14.2	1.6	2.6	0.3	1.6	0.3	35.6	3.32	36.7	2.7
	119	120	11576	19163	1716	4549	277	41.9	74.5	5.5	14.4	1.6	2.6	0.3	1.1	0.2	35.6	3.75	39.1	2.3
	120	121	14425	23340	2090	5599	326	48.6	87.3	5.8	16.8	1.7	3.1	0.3	1.4	0.2	39.4	4.60	43.8	1.7
	121	122	14367	23401	2108	5575	329	49.3	90.6	5.9	16.4	1.8	3.1	0.3	1.5	0.2	40.6	4.60	44.7	1.9
	122	123	8116	13820	1196	3581	231	36.6	68.0	5.0	15.7	2.0	4.0	0.5	2.6	0.3	50.8	2.71	37.7	4.9
	123	124	10192	15969	1365	3837	230	35.1	61.9	4.2	11.7	1.3	2.7	0.2	1.1	0.2	29.2	3.17	26.1	1.4
	124	125	9640	15171	1238	3336	185	29.2	53.0	3.8	12.3	1.3	2.5	0.2	1.0	0.2	33.0	2.97	21.9	1.5
	125	126	9230	15048	1257	3534	209	31.6	61.1	4.4	14.4	1.6	2.7	0.3	1.4	0.2	36.8	2.94	29.7	1.9
	126	127	10801	17443	1583	4152	249	37.1	68.9	4.9	14.6	1.6	2.6	0.2	1.1	0.2	36.8	3.44	30.2	2.3
	127	128	10344	16706	1395	3966	224	33.8	61.0	4.4	13.0	1.3	2.2	0.2	0.8	0.2	30.5	3.28	27.6	1.4
	128	129	12021	19654	1758	4654	261	40.2	73.3	5.2	16.6	1.8	3.2	0.3	1.3	0.2	43.2	3.85	33.3	1.8
	129	130	11060	18119	1583	4211	244	35.9	66.6	4.4	11.8	1.3	2.3	0.2	0.7	0.1	29.2	3.54	27.9	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 %	Th ppm	U ppm
	130	131	6579	11670	1051	3161	206	31.5	56.5	3.6	10.7	1.1	1.9	0.2	1.0	0.2	24.1	2.28	28.6	4.6
	131	132	21755	33535	3008	8071	456	74.3	120.5	7.9	23.0	2.4	3.9	0.3	1.9	0.3	49.5	6.71	57.3	4.6
	132	133	4398	7530	671	2047	163	30.5	71.1	6.8	29.7	4.2	10.6	1.2	7.0	0.9	121.9	1.51	42.1	7.7
	133	134	4281	7788	719	2274	179	34.6	77.8	7.2	30.9	4.6	10.9	1.1	7.0	0.9	125.7	1.55	46.3	8.5
	134	135	2686	4914	449	1429	130	27.0	67.9	7.9	40.2	6.4	15.6	1.7	8.3	1.0	179.1	1.00	43.6	9.9
	135	136	3260	5540	483	1481	141	30.0	79.4	8.0	33.4	4.8	10.5	1.1	6.0	0.7	129.5	1.12	35.6	7.7
	136	137	1918	3378	350	1161	128	29.4	68.1	6.9	30.3	4.5	10.4	1.1	6.3	0.8	118.1	0.72	45.2	8.0
	137	138	1278	2279	227	757	95	23.6	61.2	6.7	31.2	5.0	11.6	1.3	6.7	0.9	128.3	0.49	28.5	14.1
	138	139	1624	3366	315	1059	116	25.9	69.4	7.3	32.9	4.8	10.6	1.1	6.8	0.8	132.1	0.68	47.3	9.4
	139	140	3870	6867	621	1965	166	31.7	74.2	7.3	28.0	4.1	8.8	0.9	5.1	0.7	107.9	1.38	40.0	6.4
	140	141	18882	33044	3190	9215	598	102.0	193.1	12.7	37.0	3.5	6.2	0.5	2.1	0.3	78.7	6.54	109.5	2.4
	141	142	18296	33658	3226	9739	652	107.5	206.9	13.2	36.6	3.5	5.7	0.4	1.9	0.2	74.9	6.60	148.0	2.2
	142	143	13898	24568	2356	6602	466	80.2	156.2	10.4	28.8	2.7	4.1	0.3	1.5	0.2	55.9	4.82	93.8	2.9
	143	144	9195	17935	1788	5167	358	57.1	104.7	6.9	19.5	1.8	3.1	0.2	1.4	0.2	38.1	3.47	63.9	20.2
	144	145	8245	15171	1420	4222	290	46.9	88.9	5.5	14.9	1.5	2.9	0.2	1.1	0.1	33.0	2.95	53.4	32.7
	145	146	7201	13574	1232	3767	254	40.0	75.7	5.0	15.5	1.7	3.1	0.3	1.4	0.2	39.4	2.62	46.6	31.1
	146	147	5454	10159	948	2928	198	31.0	57.8	3.8	10.2	1.0	2.2	0.2	0.9	0.1	22.9	1.98	38.5	33.8
	147	148	4140	7690	700	2135	147	23.0	43.7	2.8	8.0	0.8	1.4	0.1	0.8	0.1	17.8	1.49	36.4	58.2
	148	149	4339	8132	764	2368	165	27.1	50.5	3.2	9.0	1.0	2.1	0.2	1.0	0.1	21.6	1.59	33.2	29.5
	149	150	4375	8795	790	2356	165	28.8	47.0	3.4	9.2	1.0	1.8	0.2	1.1	0.2	21.6	1.66	37.1	28.0
	150	151	6544	12468	1098	3184	202	33.9	54.2	3.8	10.0	1.0	1.8	0.2	0.7	0.1	21.6	2.36	38.7	23.6
	151	152	3389	6744	627	1971	177	36.9	80.9	9.0	37.3	5.5	12.5	1.2	6.5	0.9	141.0	1.32	65.5	21.3
	152	153	1595	3218	311	1033	122	31.2	69.3	8.3	35.9	5.2	11.4	1.1	5.8	0.7	128.3	0.66	42.1	17.7
	153	154	937	1867	185	637	84	21.5	53.8	6.9	29.3	4.4	10.0	1.1	5.6	0.7	113.0	0.40	26.6	12.4
	154	155	603	1192	121	432	62	16.7	43.3	5.3	23.6	3.6	8.4	0.9	5.0	0.7	94.0	0.26	18.6	11.4
	155	156	792	1560	156	545	77	20.4	50.7	6.8	30.0	4.4	10.3	1.1	6.0	0.8	118.1	0.34	22.4	12.6
	156	157	963	1861	182	628	84	21.5	53.7	6.6	29.2	4.6	10.3	1.1	6.3	0.8	120.6	0.40	25.4	13.4
	157	158	1129	2371	235	807	102	26.3	64.2	8.5	38.2	5.8	13.0	1.4	7.5	1.1	149.9	0.50	31.9	13.0
	158	159	891	1929	199	703	99	27.9	68.0	9.4	45.3	7.2	17.6	2.0	11.6	1.5	186.7	0.42	42.6	14.8
	159	160	837	1744	178	625	87	23.6	61.3	8.5	41.2	6.4	15.1	1.8	9.7	1.2	167.6	0.38	33.9	8.5
	160	161	637	1308	134	478	68	18.5	48.1	6.6	30.5	4.9	11.3	1.2	6.7	0.8	129.5	0.29	24.0	7.1
	161	162	1082	2371	243	836	100	26.1	65.7	8.9	41.6	6.4	14.4	1.6	9.5	1.3	170.2	0.50	26.6	9.2
	162	163	3671	6928	591	1668	108	18.8	33.7	3.1	9.2	1.4	2.2	0.4	1.5	0.4	25.4	1.31	26.5	18.6
	163	164	3565	7653	732	2286	175	31.3	53.0	4.4	14.1	1.8	3.7	0.3	1.9	0.3	40.6	1.46	21.9	9.6
	164	165	4445	8918	802	2309	141	23.7	40.8	3.5	12.2	1.4	2.5	0.2	1.3	0.2	30.5	1.67	28.3	15.2
	165	166	4257	8734	806	2368	144	24.1	38.4	3.2	10.3	1.2	1.9	0.2	0.9	0.1	24.1	1.64	23.9	16.1
	166	167	3155	6597	598	1755	102	16.8	25.9	1.9	5.4	0.6	1.0	0.1	0.7	0.1	12.7	1.23	13.4	13.0
	167	168	3976	7530	666	1930	124	21.5	35.3	2.6	7.5	0.7	1.6	0.1	0.8	0.1	16.5	1.43	20.5	8.2
	168	169	4855	9201	813	2356	151	25.0	39.8	3.0	8.4	0.9	1.7	0.2	0.8	0.1	17.8	1.75	22.9	13.2
	169	170	4163	8341	753	2199	137	22.9	37.8	2.8	8.3	0.9	1.6	0.2	1.0	0.1	19.1	1.57	25.8	14.2
	170	171	6591	12345	1097	3161	201	32.5	54.2	4.2	12.4	1.3	2.2	0.2	1.0	0.1	29.2	2.35	34.5	8.7
	171	172	6310	12345	1104	3219	204	33.4	52.8	3.9	12.2	1.4	2.4	0.3	1.5	0.2	29.2	2.33	30.0	8.4
	172	173	4187	8844	825	2484	168	28.3	46.1	3.6	10.9	1.3	2.4	0.3	1.5	0.2	27.9	1.66	26.5	14.5
	173	174	3413	7518	729	2280	163	27.1	44.4	3.5	11.0	1.3	2.5	0.3	1.5	0.2	30.5	1.42	26.2	17.2
	174	175	4339	9201	859	2636	187	31.4	50.8	3.9	11.9	1.5	3.0	0.3	1.7	0.2	34.3	1.74	26.7	11.4



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 %	Th ppm	U ppm
	175	176	5008	10196	938	2823	187	31.3	50.7	3.5	10.1	1.1	1.7	0.2	1.0	0.2	22.9	1.93	26.6	9.7
	176	177	3683	6425	627	1837	117	19.7	32.2	2.5	7.1	0.7	1.6	0.2	0.9	0.1	16.5	1.28	25.5	25.7
	177	178	5829	10024	990	2951	194	32.2	50.5	3.7	10.4	1.0	2.1	0.2	0.7	0.1	24.1	2.01	25.8	8.5
	178	179	5735	9520	942	2764	182	29.8	47.6	3.4	9.1	0.8	1.6	0.2	0.8	0.1	19.1	1.93	21.5	6.7
	179	180	4726	8402	864	2601	170	28.3	42.5	3.0	8.6	1.0	1.9	0.2	1.0	0.1	20.3	1.69	22.4	9.4
	180	181	4984	9127	956	2928	201	32.5	49.3	3.4	9.3	1.0	2.1	0.2	1.0	0.1	21.6	1.83	27.4	14.3
<b>KGKRC042</b>	0	1	37999	56752	5534	15163	896	154.6	243.2	18.2	46.8	4.4	7.1	0.6	2.5	0.3	96.5	11.69	126.5	5.9
	1	2	34715	54050	5232	14638	877	148.2	236.3	17.4	46.8	4.4	6.9	0.5	2.3	0.3	92.7	11.01	123.0	6.8
	2	3	11400	18795	1951	5144	333	56.0	89.0	6.5	18.0	1.7	3.2	0.3	1.1	0.2	41.9	3.78	43.7	2.9
	3	4	7811	13820	1414	4047	264	43.2	68.2	5.2	14.9	1.5	2.9	0.3	1.3	0.2	35.6	2.75	34.3	2.5
	4	5	10344	18487	2006	5517	375	63.0	102.9	7.5	20.9	2.1	3.9	0.3	1.6	0.2	48.3	3.70	50.2	2.7
	5	6	8022	14557	1583	4339	276	44.7	68.2	5.0	12.7	1.4	2.6	0.2	1.4	0.2	31.8	2.89	34.9	2.5
	6	7	8233	16583	1746	4946	324	51.0	79.0	5.1	14.0	1.5	2.6	0.2	1.5	0.2	30.5	3.20	36.7	1.9
	7	8	5864	10626	1086	3184	219	38.7	62.1	4.7	14.0	1.4	2.5	0.2	1.5	0.1	33.0	2.11	35.5	1.4
	8	9	5747	10712	1124	3383	219	35.2	54.2	4.1	12.5	1.3	2.5	0.2	1.3	0.2	30.5	2.13	30.7	2.7
	9	10	4738	8709	912	2764	194	31.7	50.8	3.8	11.1	1.2	2.5	0.2	1.3	0.1	29.2	1.75	31.1	3.8
	10	11	5465	10331	1099	3418	240	40.2	65.5	4.9	14.5	1.5	2.6	0.2	1.1	0.2	34.3	2.07	38.5	1.1
	11	12	5676	10834	1142	3499	247	42.3	68.0	5.3	15.3	1.6	2.7	0.2	1.3	0.2	39.4	2.16	39.2	0.9
	12	13	7107	13512	1540	4362	306	50.0	78.7	5.8	16.1	9.4	3.2	0.3	1.7	0.2	38.1	2.70	38.7	2.5
	13	14	4351	8390	898	2764	194	32.4	54.2	4.3	12.5	1.4	2.5	0.2	1.3	0.2	33.0	1.67	37.5	5.1
	14	15	6943	13144	1402	4164	308	54.3	94.2	8.1	25.1	2.3	3.7	0.2	1.4	0.2	52.1	2.62	64.2	2.0
	15	16	5970	10908	1132	3453	277	51.5	95.1	9.3	28.8	2.8	4.0	0.3	1.3	0.2	59.7	2.20	76.5	1.9
	16	17	10133	18549	2090	5844	414	71.6	113.3	8.5	23.9	2.1	3.2	0.2	1.1	0.2	45.7	3.73	64.2	1.5
	17	18	4750	8673	905	2799	212	38.1	63.9	5.3	15.4	1.5	2.4	0.2	0.9	0.1	31.8	1.75	39.0	1.2
	18	19	4562	8488	896	2706	195	35.4	56.7	4.7	13.1	1.3	2.3	0.2	1.0	0.1	29.2	1.70	32.3	1.4
	19	20	7705	14557	1631	4596	335	56.3	94.4	7.5	20.7	1.8	2.7	0.2	1.0	0.2	40.6	2.90	56.9	1.6
	20	21	7600	14065	1444	4316	313	55.5	93.7	7.9	22.3	2.2	3.0	0.2	1.0	0.1	45.7	2.80	60.6	1.4
	21	22	6626	12149	1263	3861	271	44.7	73.1	5.7	16.2	1.6	2.9	0.2	1.3	0.2	35.6	2.44	39.4	2.1
	22	23	11963	21866	2350	6544	475	85.3	142.9	11.0	31.1	3.0	4.8	0.5	2.2	0.3	67.3	4.35	82.6	3.3
	23	24	20055	38326	3890	11442	747	126.8	210.4	14.2	45.0	4.6	7.3	0.6	3.4	0.5	101.6	7.50	117.0	4.1
	24	25	18354	33658	3637	10894	692	114.6	178.7	12.8	35.9	3.6	5.7	0.5	2.4	0.2	76.2	6.77	85.4	4.2
	25	26	10250	20084	2042	6089	395	64.6	102.4	6.7	21.0	2.3	3.7	0.3	1.8	0.3	47.0	3.91	48.8	2.8
	26	27	7471	15662	1649	4794	289	49.7	74.2	5.5	16.0	1.8	3.0	0.3	1.5	0.2	40.6	3.01	38.3	2.2
	27	28	7928	17075	1794	5214	314	51.6	80.3	6.2	18.9	2.0	3.3	0.3	1.6	0.2	47.0	3.25	39.7	2.4
	28	29	6931	15232	1571	4654	289	49.4	76.0	6.1	17.2	1.8	3.3	0.3	1.7	0.2	40.6	2.89	43.7	3.5
	29	30	11259	23708	2465	7080	437	73.8	112.3	8.6	24.0	2.5	3.9	0.3	1.5	0.2	50.8	4.52	56.0	2.6
	30	31	13018	27025	2767	8130	486	81.8	121.0	8.8	24.7	2.3	3.7	0.3	1.0	0.1	45.7	5.17	58.2	1.7
	31	32	13956	31079	3274	10288	623	104.0	153.3	10.8	31.2	3.0	4.6	0.3	1.4	0.2	58.4	5.96	79.3	2.3
	32	33	12901	27270	2803	8491	492	85.7	128.5	9.9	28.5	2.8	4.0	0.3	1.0	0.1	57.2	5.23	68.2	1.7
	33	34	9805	20760	2120	6205	365	59.3	88.2	6.3	16.8	1.8	2.9	0.2	1.0	0.1	35.6	3.95	40.0	1.5
	34	35	8104	17628	1861	5412	326	55.4	81.4	5.3	14.6	1.5	2.6	0.3	1.4	0.2	31.8	3.35	36.5	2.8
	35	36	8878	19654	2084	6112	363	60.2	85.1	5.6	16.1	1.6	2.9	0.3	1.4	0.2	34.3	3.73	38.4	1.6
	36	37	12725	28008	2900	8958	497	80.6	116.4	8.1	23.8	2.5	4.1	0.3	1.1	0.2	52.1	5.34	60.0	1.5
	37	38	7248	16215	1716	5132	311	52.1	77.7	5.7	16.4	1.8	2.9	0.3	1.1	0.2	36.8	3.08	43.0	1.7
	38	39	5395	11903	1194	3767	226	38.3	55.9	4.2	11.9	1.4	2.6	0.3	1.3	0.2	27.9	2.26	26.3	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 %	Th ppm	U ppm
	39	40	6333	14618	1583	4759	292	49.6	72.5	5.5	17.1	1.8	3.1	0.3	1.6	0.2	40.6	2.78	40.8	1.9
	40	41	7013	16338	1752	5272	318	51.5	77.1	5.7	15.7	1.6	3.0	0.2	1.4	0.2	36.8	3.09	42.3	1.4
	41	42	5512	12898	1317	4281	259	42.2	60.6	4.6	13.0	1.5	2.9	0.3	1.4	0.2	33.0	2.44	32.1	1.7
	42	43	7436	17259	1867	5587	339	57.1	82.8	5.9	15.8	1.7	3.1	0.3	1.1	0.2	33.0	3.27	41.8	2.3
	43	44	6544	15294	1679	5109	314	53.0	74.3	5.0	13.2	1.4	2.4	0.2	1.0	0.2	26.7	2.91	33.8	1.4
	44	45	6673	15908	1770	5412	337	57.7	83.8	5.7	14.7	1.6	2.6	0.3	1.3	0.2	30.5	3.03	42.0	3.0
	45	46	6134	14249	1559	4864	313	52.0	76.9	5.3	14.2	1.4	2.3	0.2	1.1	0.1	27.9	2.73	38.3	1.8
	46	47	5454	12345	1269	4047	249	41.3	59.7	4.1	10.6	1.2	1.9	0.2	1.1	0.2	25.4	2.35	29.4	3.7
	47	48	5325	12714	1347	4409	274	46.6	69.7	5.0	13.1	1.3	2.3	0.2	1.0	0.2	26.7	2.42	35.6	1.7
	48	49	4937	11400	1195	3884	267	47.0	73.7	5.7	15.6	1.7	2.5	0.2	1.3	0.2	38.1	2.19	46.7	1.3
	49	50	7776	19224	2181	6940	477	81.8	116.4	7.6	19.7	1.9	3.3	0.3	1.6	0.2	38.1	3.69	60.2	1.5
	50	51	5371	12591	1335	4374	282	47.5	70.0	4.8	12.4	1.2	2.3	0.2	1.3	0.2	26.7	2.41	32.6	2.0
	51	52	4855	11203	1178	3931	269	45.7	66.9	4.5	11.9	1.2	2.2	0.2	1.1	0.2	25.4	2.16	30.4	3.0
	52	53	4597	10699	1132	3697	240	40.0	57.1	3.7	9.4	0.9	1.8	0.2	0.8	0.1	20.3	2.05	23.9	1.7
	53	54	5688	13697	1528	4759	306	50.4	70.2	4.5	11.6	1.2	2.1	0.2	1.1	0.2	25.4	2.61	29.9	1.6
	54	55	6028	13697	1595	4736	312	47.9	71.4	4.7	12.2	1.2	2.1	0.2	0.9	0.1	24.1	2.65	31.4	2.0
	55	56	5782	13328	1474	4631	312	47.2	70.8	4.2	10.9	1.3	1.9	0.2	0.9	0.2	24.1	2.57	29.9	1.9
	56	57	5031	11461	1244	3954	262	40.4	59.7	3.7	9.4	1.0	1.6	0.1	0.9	0.1	20.3	2.21	27.6	3.0
	57	58	6028	13758	1559	4631	302	47.5	73.5	4.9	13.8	1.6	2.3	0.2	0.9	0.1	27.9	2.64	37.1	2.2
	58	59	5923	13205	1492	4444	315	53.6	87.1	6.6	19.5	2.2	3.2	0.2	1.0	0.1	43.2	2.56	56.6	2.1
	59	60	5500	12100	1305	4024	273	43.7	66.2	4.5	11.9	1.2	2.1	0.2	0.9	0.1	24.1	2.34	32.0	4.1
	60	61	6533	13881	1559	4607	306	47.4	71.7	4.7	12.6	1.4	2.3	0.2	0.9	0.1	24.1	2.71	33.9	2.6
	61	62	3730	8243	894	2811	190	30.1	46.7	2.9	8.8	0.9	1.5	0.1	0.8	0.1	17.8	1.60	21.4	2.3
	62	63	4891	10405	1106	3441	234	38.4	59.0	4.1	10.8	1.3	1.9	0.2	0.9	0.1	24.1	2.02	30.1	2.8
	63	64	4937	10392	1095	3359	228	35.8	56.6	3.9	10.8	1.3	2.1	0.2	1.1	0.2	24.1	2.01	25.7	1.9
	64	65	4128	8820	922	2823	200	34.2	55.0	4.1	11.7	1.5	2.3	0.2	1.1	0.2	27.9	1.70	29.6	2.1
	65	66	3812	8058	865	2706	188	31.6	50.3	3.5	9.9	1.1	1.7	0.2	1.0	0.1	22.9	1.58	25.3	2.6
	66	67	4351	9471	1006	3138	219	35.7	54.5	3.6	10.2	1.2	1.8	0.3	1.1	0.2	21.6	1.83	25.0	2.0
	67	68	4773	10147	1064	3266	221	38.3	62.0	4.3	12.6	1.5	2.5	0.2	1.1	0.1	29.2	1.96	31.8	2.4
	68	69	3530	7555	796	2484	169	27.4	45.0	3.1	9.6	1.3	2.2	0.2	1.0	0.2	25.4	1.46	22.0	1.9
	69	70	2099	4435	462	1435	107	19.8	34.7	3.1	10.6	1.4	2.5	0.2	1.5	0.2	29.2	0.86	22.4	1.5
	70	71	3952	8304	872	2671	190	31.6	49.8	3.5	10.0	1.1	2.2	0.1	0.9	0.1	24.1	1.61	26.7	3.3
	71	72	2979	6388	685	2140	146	23.6	39.8	2.3	7.7	0.9	1.7	0.2	1.0	0.2	20.3	1.24	18.2	5.0
	72	73	3202	6584	700	2170	146	24.6	39.9	2.6	8.5	0.9	1.9	0.2	1.0	0.2	22.9	1.29	23.6	6.8
	73	74	6802	12837	1323	4047	308	56.2	97.5	6.5	19.5	1.9	2.7	0.2	1.3	0.2	36.8	2.55	69.5	7.5
	74	75	12432	22418	2247	6660	494	92.1	163.7	11.1	31.1	3.0	3.7	0.3	1.4	0.2	54.6	4.46	113.5	3.6
	75	76	3976	7837	808	2449	159	26.5	43.6	2.8	8.7	1.0	1.9	0.2	1.0	0.2	21.6	1.53	18.2	2.1
	76	77	4762	10073	1061	3219	212	34.5	52.9	3.4	9.6	1.1	2.1	0.2	1.0	0.1	21.6	1.95	21.6	2.2
	77	78	1970	4447	468	1470	105	17.8	29.9	2.3	8.5	0.9	1.6	0.2	0.8	0.1	19.1	0.85	17.6	7.1
	78	79	2885	6068	632	1954	144	23.7	39.7	3.1	9.2	1.1	1.9	0.2	1.3	0.1	22.9	1.18	22.3	9.8
	79	80	1906	4140	435	1341	103	18.8	32.0	2.4	7.9	1.0	2.1	0.2	1.4	0.2	22.9	0.80	19.8	12.5
	80	81	1671	3685	384	1219	95	17.8	31.4	2.8	9.9	1.5	3.1	0.3	1.9	0.3	33.0	0.72	16.4	8.8
	81	82	4304	9299	1000	3149	232	38.3	62.5	4.2	12.4	1.4	2.7	0.2	1.3	0.2	29.2	1.81	33.7	3.7
	82	83	2146	4533	463	1388	93	16.7	26.5	2.0	6.1	0.8	1.6	0.2	0.9	0.2	16.5	0.87	14.0	11.2
	83	84	2486	5356	565	1767	130	23.2	39.4	3.0	9.1	1.0	2.4	0.2	1.1	0.2	21.6	1.04	23.0	8.7

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 %	Th ppm	U ppm
	84	85	4457	9053	930	2916	227	40.6	73.4	5.5	15.6	1.7	2.7	0.2	1.4	0.2	35.6	1.78	48.2	6.3
	85	86	1701	3759	404	1312	94	15.2	25.5	1.7	5.7	0.7	1.4	0.2	1.1	0.2	16.5	0.73	14.0	8.4
	86	87	1853	4103	441	1446	117	19.8	34.2	2.4	7.8	0.9	1.7	0.2	1.3	0.2	21.6	0.80	21.1	8.9
	87	88	2064	4643	517	1779	176	34.3	72.2	6.8	26.5	3.6	7.4	0.9	5.1	0.6	101.6	0.94	45.0	8.3
	88	89	1841	4103	458	1598	162	34.2	69.5	6.5	26.5	3.5	8.1	0.8	5.1	0.7	97.8	0.84	39.4	10.4
	89	90	3448	7149	741	2333	170	27.3	47.4	3.1	9.8	1.0	1.9	0.2	1.1	0.2	25.4	1.40	26.7	9.2
	90	91	1876	3894	410	1341	122	24.2	52.8	5.5	23.9	3.4	7.7	1.0	5.4	0.7	102.9	0.79	39.2	9.5
	91	92	2850	6154	663	2164	161	25.6	42.0	2.6	7.5	0.8	1.5	0.1	0.8	0.1	19.1	1.21	19.9	11.6
	92	93	4152	8967	952	3068	215	33.1	53.3	3.5	10.6	1.0	1.9	0.2	0.9	0.1	24.1	1.75	29.6	2.0
	93	94	4070	8574	918	2916	208	32.5	54.6	3.8	10.8	1.1	2.1	0.2	1.3	0.2	26.7	1.68	29.4	2.6
	94	95	4093	8587	901	2858	200	31.7	52.1	3.5	10.1	1.0	1.9	0.2	1.0	0.1	25.4	1.68	26.1	0.8
	95	96	5629	11989	1269	4047	279	43.2	71.0	4.3	12.4	1.2	1.9	0.2	1.0	0.2	27.9	2.34	32.9	0.6
	96	97	5418	11498	1208	3837	264	41.3	67.8	4.3	12.4	1.3	2.2	0.2	1.0	0.1	27.9	2.24	34.2	0.6
	97	98	2885	6253	665	2100	143	22.1	36.4	2.1	6.8	0.7	1.4	0.1	0.7	0.1	16.5	1.21	16.8	0.4
	98	99	3577	7678	808	2578	180	27.7	45.4	2.8	8.2	0.8	1.6	0.2	0.9	0.1	17.8	1.49	21.2	0.3
	99	100	4140	8673	921	2928	208	32.5	54.5	3.7	9.9	0.9	1.5	0.1	0.7	-0.1	21.6	1.70	28.4	0.4
	100	101	2639	6228	714	2449	200	32.0	50.4	3.1	9.3	1.0	1.8	0.2	1.3	0.2	22.9	1.24	26.0	1.7
	101	102	2439	5687	637	2175	180	30.9	52.1	3.3	9.6	1.0	1.9	0.2	1.1	0.1	22.9	1.12	28.3	1.7
	102	103	1970	4385	472	1534	113	19.3	32.6	2.5	8.0	0.9	2.1	0.2	1.3	0.1	22.9	0.86	15.4	14.1
	103	104	4058	8857	950	3044	217	35.1	59.2	4.1	12.3	1.3	2.5	0.3	1.6	0.2	31.8	1.73	30.1	11.3
	104	105	1706	3906	436	1470	133	25.8	53.4	5.1	20.7	2.9	6.6	0.8	4.1	0.5	78.7	0.78	19.6	12.6
	105	106	1671	3833	429	1458	135	25.4	52.6	4.9	19.5	2.7	6.1	0.7	4.0	0.6	73.7	0.77	21.3	12.2
	106	107	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	107	108	3988	8943	1002	3348	266	42.7	70.8	4.6	13.8	1.4	2.3	0.2	1.3	0.2	33.0	1.77	37.6	4.7
	108	109	4726	10859	1214	4047	297	44.9	71.9	4.2	11.0	1.1	2.2	0.2	0.9	0.1	24.1	2.13	35.3	4.2
	109	110	2428	6044	685	2327	187	28.4	48.3	2.9	8.6	0.9	4.4	0.2	1.1	0.2	24.1	1.18	24.2	5.9
	110	111	3026	7149	828	2799	226	36.2	58.2	3.6	10.0	1.1	2.1	0.2	0.9	0.2	25.4	1.42	31.7	5.5
	111	112	5571	12345	1353	4362	335	55.1	91.9	6.0	17.2	1.7	2.9	0.3	1.4	0.2	38.1	2.42	57.0	2.9
	112	113	2023	4766	532	1820	180	34.9	76.7	7.3	31.0	4.6	10.3	1.2	6.3	0.8	127.0	0.96	36.2	7.8
	113	114	2803	6474	725	2438	204	34.3	62.5	4.5	15.6	1.8	3.9	0.4	2.5	0.3	48.3	1.28	44.4	12.6
	114	115	2639	6437	741	2554	210	33.6	54.6	3.5	9.4	1.1	2.2	0.3	1.5	0.3	26.7	1.27	39.9	11.6
	115	116	2639	5675	627	2082	159	24.2	43.3	2.6	7.6	0.8	1.7	0.2	1.0	0.1	17.8	1.13	28.5	8.1
	116	117	3905	8095	876	2834	209	36.7	66.9	4.3	11.9	1.2	2.1	0.2	1.1	0.2	24.1	1.61	31.8	8.9
	117	118	3800	7874	882	2916	214	35.8	61.9	3.7	9.6	1.0	1.7	0.2	0.8	0.1	19.1	1.58	26.5	6.7
	118	119	3554	7395	830	2788	199	32.4	57.2	3.4	9.1	1.0	1.8	0.2	1.3	0.2	20.3	1.49	32.0	9.0
	119	120	4222	9041	1015	3406	271	45.2	78.3	4.8	12.9	1.4	2.5	0.2	1.0	0.2	27.9	1.81	42.1	4.0
	120	121	4762	10171	1126	3697	270	45.4	80.3	5.3	13.3	1.4	2.6	0.2	1.0	0.2	29.2	2.02	35.4	2.9
	121	122	7694	14618	1649	4712	336	55.2	101.0	6.5	17.1	1.8	3.0	0.2	1.5	0.2	36.8	2.92	53.7	1.6
	122	123	5665	11903	1317	4362	362	63.8	118.7	7.2	19.1	1.8	2.9	0.3	1.5	0.3	36.8	2.39	56.1	2.0
	123	124	5794	11498	1250	4117	335	59.8	108.6	7.2	18.4	1.8	3.1	0.3	1.3	0.2	36.8	2.32	51.2	1.6
	124	125	7740	15478	1704	5109	364	60.0	107.7	6.7	18.8	1.7	2.9	0.2	1.1	0.2	36.8	3.06	43.3	1.8
	125	126	7846	15232	1710	5121	391	66.7	119.3	7.9	19.5	1.8	3.1	0.3	1.4	0.2	38.1	3.06	59.0	2.4
	126	127	12080	23217	2586	7850	554	93.4	166.6	10.4	27.3	2.6	4.2	0.3	1.6	0.2	53.3	4.66	74.4	2.1
	127	128	21990	39923	4289	13239	943	160.4	297.4	19.9	49.4	4.3	5.8	0.4	1.3	0.2	80.0	8.10	143.5	4.5
	128	129	17182	31324	3407	10509	769	129.1	236.3	15.9	43.5	4.0	5.6	0.4	1.7	0.2	78.7	6.37	125.5	4.0

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 %	Th ppm	U ppm
	129	130	8585	16522	1915	5902	494	92.6	171.7	11.9	32.9	3.0	4.7	0.4	1.7	0.2	61.0	3.38	89.0	2.0
	130	131	4234	9188	1089	3802	340	59.1	108.7	7.2	19.2	1.8	2.9	0.3	1.4	0.2	38.1	1.89	61.0	1.3
	131	132	4785	9925	1131	3861	336	59.1	107.2	7.8	21.1	2.0	3.1	0.2	1.1	0.2	41.9	2.03	76.0	1.4
	132	133	5665	11326	1244	4199	344	62.9	123.9	9.1	25.9	2.3	3.4	0.2	1.1	0.2	48.3	2.31	82.9	1.5
	133	134	3049	6560	754	2589	221	35.6	65.7	4.6	13.4	1.4	2.5	0.2	1.6	0.2	34.3	1.33	40.0	0.6
	134	135	3448	7395	834	2776	219	38.4	70.5	5.0	15.3	1.7	3.0	0.2	1.6	0.2	39.4	1.48	49.0	0.4
	135	136	3788	8181	928	3091	246	40.6	77.6	5.7	16.4	1.7	3.0	0.2	1.1	0.2	40.6	1.64	53.0	0.5
	136	137	3425	7334	838	2916	263	49.6	96.9	7.4	23.2	2.3	3.0	0.2	1.4	0.2	47.0	1.50	83.9	0.8
	137	138	2686	5982	691	2414	246	47.6	92.4	5.9	17.0	1.6	2.4	0.2	1.1	0.1	34.3	1.22	93.2	0.6
	138	139	1882	4299	517	2065	285	52.2	95.3	5.7	15.0	1.6	2.9	0.3	1.4	0.3	38.1	0.93	139.5	1.2
	139	140	1507	3513	439	1808	262	47.9	86.2	5.0	12.6	1.2	1.9	0.2	1.6	0.2	29.2	0.77	130.0	1.0
	140	141	1665	3931	470	1767	202	35.4	64.7	3.8	9.5	1.0	1.8	0.2	1.3	0.2	24.1	0.82	74.4	0.8
	141	142	4093	8427	954	3266	329	58.9	104.0	6.7	17.0	1.5	2.5	0.2	1.0	0.1	34.3	1.73	109.0	1.1
	142	143	3143	6560	762	2811	340	63.7	117.0	7.0	18.1	1.8	2.7	0.2	1.4	0.2	38.1	1.39	153.5	1.0
	143	144	880	1996	248	1035	162	30.7	55.4	2.9	8.0	0.7	1.5	0.2	0.8	0.2	19.1	0.44	84.0	0.5
	144	145	1366	3083	384	1650	252	48.8	94.3	5.8	15.2	1.3	1.9	0.2	0.8	0.1	26.7	0.69	146.0	0.6
	145	146	1407	3624	424	1650	223	41.1	77.2	4.7	10.8	1.1	1.4	0.1	0.7	0.1	20.3	0.75	109.0	0.5
	146	147	4246	10134	1182	4187	411	67.4	117.6	7.2	18.7	1.8	2.9	0.2	0.9	0.1	36.8	2.04	83.8	1.5
	147	148	3108	7272	813	2753	245	39.8	71.9	4.8	12.9	1.5	2.5	0.2	1.1	0.2	34.3	1.44	45.4	4.7
	148	149	2838	6228	663	2292	201	34.4	64.2	4.9	13.8	1.4	2.7	0.2	1.4	0.2	36.8	1.24	48.1	1.6
	149	150	6685	13881	1438	4537	365	62.6	115.8	8.2	23.1	2.3	3.7	0.3	1.4	0.2	50.8	2.72	93.3	1.2
	150	151	3131	7395	838	2858	256	40.6	71.6	4.7	13.1	1.4	2.7	0.2	1.1	0.1	33.0	1.46	46.5	0.4
<b>KGKRC043</b>	0	1	5700	9839	909	2601	197	33.1	64.7	5.0	15.4	1.7	2.9	0.3	1.5	0.2	40.6	1.94	39.1	1.8
	1	2	8679	14741	1335	3826	270	43.3	80.7	5.8	15.6	1.5	2.6	0.3	0.9	0.2	35.6	2.90	40.9	0.8
	2	3	4715	8279	756	2193	152	24.9	47.1	3.7	10.7	1.3	2.1	0.2	1.1	0.1	30.5	1.62	19.0	0.9
	3	4	11142	20146	2006	5424	336	50.0	89.6	5.9	15.0	1.5	2.6	0.2	0.8	0.1	30.5	3.92	30.2	0.6
	4	5	8221	14618	1371	4024	286	46.8	89.1	6.9	20.4	2.3	3.9	0.3	1.6	0.2	52.1	2.87	46.4	1.8
	5	6	5078	9139	842	2461	174	29.9	57.4	4.6	13.8	1.4	2.7	0.3	1.4	0.2	35.6	1.78	24.9	2.1
	6	7	8268	15109	1444	4164	279	43.8	81.4	6.4	19.5	2.1	3.3	0.3	1.4	0.2	48.3	2.95	37.1	0.9
	7	8	5770	10613	998	2939	208	31.4	60.4	4.3	12.6	1.3	2.1	0.2	0.9	0.1	29.2	2.07	31.2	0.7
	8	9	6544	12653	1250	3779	277	43.2	76.4	5.4	14.2	1.4	2.5	0.2	0.9	0.2	33.0	2.47	42.5	0.8
	9	10	9148	17382	1891	5284	386	59.3	98.4	6.6	15.2	1.7	2.3	0.4	0.8	0.3	31.8	3.43	42.0	0.9
	10	11	5723	10380	1029	3068	224	35.9	64.4	4.4	11.7	1.4	2.2	0.2	0.9	0.1	29.2	2.06	26.3	2.6
	11	12	5336	9754	969	2916	213	33.1	57.9	3.7	9.3	0.9	1.5	0.1	0.5	0.1	20.3	1.93	25.8	0.9
	12	13	6626	11203	1061	3021	199	31.8	55.1	3.8	10.4	1.0	1.6	0.1	0.7	0.1	22.9	2.22	24.0	0.7
	13	14	6814	11461	1084	3044	208	34.0	60.2	4.4	11.5	1.2	2.1	0.2	0.9	0.1	26.7	2.28	27.4	1.3
	14	15	5500	9778	929	2683	183	27.4	49.0	3.6	9.0	1.0	1.6	0.1	0.8	0.1	21.6	1.92	17.9	2.6
	15	16	13135	24138	2489	6660	420	63.8	108.8	7.4	18.6	1.9	2.9	0.2	1.3	0.1	38.1	4.71	42.2	1.4
	16	17	8702	15539	1480	4211	275	43.8	77.0	5.4	13.5	1.5	2.4	0.2	1.0	0.1	30.5	3.04	31.1	1.4
	17	18	6122	10687	1019	2916	195	32.9	59.2	4.1	9.9	0.9	1.6	0.1	0.6	0.1	20.3	2.11	23.6	1.2
	18	19	9852	16952	1673	4584	296	47.4	82.5	5.8	14.8	1.4	2.6	0.2	0.8	0.1	30.5	3.35	33.9	1.2
	19	20	9652	16031	1486	4187	274	45.2	79.1	6.0	16.8	1.8	3.1	0.3	1.4	0.2	43.2	3.18	26.0	2.6
	20	21	5383	9201	881	2519	197	36.2	75.2	6.7	21.6	2.9	5.4	0.5	2.5	0.3	67.3	1.84	18.6	5.7
	21	22	5782	9766	903	2601	186	33.1	61.1	4.9	16.3	1.9	3.7	0.4	2.3	0.3	48.3	1.94	24.4	1.7
	22	23	5547	9287	854	2461	166	27.7	50.1	3.7	10.8	1.2	2.3	0.2	1.0	0.1	29.2	1.84	16.1	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 %	Th ppm	U ppm
	23	24	6321	10577	970	2741	188	30.2	52.2	3.5	10.1	1.2	1.9	0.2	0.8	0.1	24.1	2.09	21.7	0.3
	24	25	5958	10036	927	2624	174	27.2	48.4	3.6	9.6	1.1	1.8	0.2	0.9	0.1	22.9	1.98	17.4	0.4
	25	26	6251	10073	910	2496	158	24.4	42.1	2.9	7.1	0.7	1.5	0.1	0.5	0.1	16.5	2.00	15.6	0.3
	26	27	6521	10822	1014	2846	188	33.0	58.3	4.7	14.9	1.6	3.1	0.3	1.5	0.2	39.4	2.15	23.5	0.4
	27	28	4726	8120	766	2228	170	29.8	56.1	5.2	17.6	2.1	4.6	0.5	2.9	0.4	54.6	1.62	22.7	0.4
	28	29	6099	10159	932	2718	188	32.2	59.7	4.7	15.7	1.7	3.2	0.3	1.7	0.2	40.6	2.03	25.5	2.5
	29	30	4879	8181	768	2263	177	31.6	62.6	5.5	17.2	1.9	3.4	0.4	2.2	0.3	45.7	1.64	38.8	6.7
	30	31	4539	7592	697	1960	132	22.9	41.3	3.4	11.0	1.2	2.3	0.3	1.0	0.2	27.9	1.50	16.7	6.6
	31	32	4949	8341	774	2187	146	23.7	42.3	2.9	8.0	0.9	1.6	0.2	0.7	0.1	20.3	1.65	15.0	7.1
	32	33	6263	10220	936	2624	176	27.7	49.2	3.6	11.1	1.2	2.4	0.2	1.0	0.1	29.2	2.03	22.0	1.6
	33	34	6486	10343	941	2613	173	28.8	52.4	3.9	12.2	1.3	2.7	0.3	1.5	0.2	29.2	2.07	25.8	2.5
	34	35	4738	8046	750	2164	149	25.0	47.5	3.9	12.4	1.8	3.8	0.4	2.4	0.3	43.2	1.60	15.6	2.7
	35	36	5770	9373	851	2379	163	28.5	54.6	4.5	14.7	2.0	4.2	0.5	2.5	0.3	49.5	1.87	21.5	3.2
	36	37	4550	7567	706	2024	132	22.0	38.8	2.9	8.3	1.0	1.7	0.2	0.8	0.1	21.6	1.51	13.8	1.0
	37	38	4902	8169	762	2123	137	22.2	40.7	3.2	8.7	1.0	2.1	0.2	1.0	0.1	25.4	1.62	14.4	0.3
	38	39	4844	8415	785	2263	164	29.6	54.2	4.2	13.5	1.6	3.3	0.4	1.9	0.2	40.6	1.66	15.7	0.8
	39	40	4785	8832	812	2484	194	33.9	63.2	4.7	16.1	1.8	3.5	0.4	2.2	0.3	47.0	1.73	22.5	1.4
	40	41	8597	15109	1432	3826	262	45.4	78.4	5.9	19.7	2.3	3.9	0.4	2.3	0.3	52.1	2.94	22.6	1.0
	41	42	4398	7837	720	2152	174	31.8	59.0	5.1	18.6	2.3	4.6	0.5	2.2	0.3	57.2	1.55	16.3	0.3
	42	43	5688	10257	921	2706	202	35.1	62.0	4.9	17.2	2.2	4.1	0.4	2.3	0.3	52.1	2.00	17.3	0.4
	43	44	6955	12714	1159	3406	269	46.2	84.1	6.4	20.2	2.4	5.3	0.6	3.0	0.4	61.0	2.47	24.2	2.7
	44	45	2932	5540	532	1738	182	34.4	71.7	6.6	26.7	3.5	7.4	0.8	4.7	0.6	92.7	1.12	19.0	11.4
	45	46	3988	7346	675	2047	168	28.0	50.4	4.2	12.9	1.6	2.9	0.3	1.6	0.2	39.4	1.44	19.8	5.2
	46	47	2428	4521	419	1341	129	25.0	50.4	4.6	17.0	2.2	4.5	0.4	2.3	0.3	54.6	0.90	12.6	5.0
	47	48	2498	4484	404	1260	118	22.0	46.1	4.1	15.3	1.9	4.1	0.4	2.4	0.3	50.8	0.89	15.8	2.8
	48	49	10719	17566	1474	4129	284	43.0	74.3	5.3	16.9	1.8	3.2	0.3	1.5	0.2	39.4	3.44	29.8	1.0
	49	50	8714	14372	1214	3383	234	35.6	62.0	4.6	14.7	1.7	3.5	0.3	1.7	0.2	36.8	2.81	26.1	0.7
	50	51	6931	11547	988	2811	202	33.8	61.6	4.4	15.0	1.7	3.3	0.3	1.7	0.2	40.6	2.26	26.1	1.1
	51	52	8104	13267	1148	3278	230	37.3	65.9	4.8	14.7	1.5	2.7	0.2	1.3	0.1	34.3	2.62	31.2	1.0
	52	53	5172	8697	747	2158	159	27.9	52.1	4.4	15.4	1.9	3.4	0.4	1.9	0.2	44.5	1.71	18.3	1.2
	53	54	1366	2801	257	832	89	18.1	40.3	4.2	16.1	2.2	4.5	0.5	2.7	0.3	57.2	0.55	13.6	1.2
	54	55	3167	5810	527	1615	145	27.3	57.2	5.1	18.6	2.3	4.6	0.4	2.3	0.3	55.9	1.14	12.2	5.1
	55	56	6263	11006	968	2741	180	28.3	51.3	4.0	12.6	1.3	2.3	0.2	1.1	0.1	31.8	2.13	19.3	3.5
	56	57	7400	13082	1160	3313	227	34.9	58.7	4.2	12.4	1.3	2.4	0.2	0.9	0.1	30.5	2.53	22.1	2.5
	57	58	6521	11424	1009	2963	213	34.3	61.2	4.6	15.2	1.7	3.5	0.3	1.5	0.2	44.5	2.23	21.4	4.1
	58	59	7928	14127	1257	3663	260	40.5	70.7	5.3	16.1	1.9	3.8	0.3	2.2	0.3	43.2	2.74	32.3	2.4
	59	60	14895	26288	2489	6637	455	70.1	115.1	7.3	19.1	1.8	3.1	0.2	1.3	0.2	38.1	5.10	66.9	1.3
	60	61	5712	10159	911	2636	179	26.8	45.0	2.9	7.9	0.7	1.6	0.2	0.8	0.1	19.1	1.97	20.3	2.1
	61	62	8128	14557	1287	3709	255	40.2	68.9	4.8	14.9	1.6	2.7	0.2	1.0	0.1	34.3	2.81	23.0	4.0
	62	63	7576	13820	1275	3639	253	39.0	64.8	4.3	11.6	1.0	1.9	0.1	0.8	0.1	22.9	2.67	33.2	5.5
	63	64	3800	6646	582	1703	137	23.4	48.9	4.2	15.4	1.9	4.4	0.4	2.2	0.3	47.0	1.30	15.9	6.8
	64	65	3061	5466	499	1516	132	25.6	54.1	4.8	19.5	2.6	5.4	0.5	2.6	0.3	63.5	1.09	18.2	9.1
	65	66	6966	11608	1027	3009	219	33.4	58.6	4.1	11.5	1.2	2.6	0.2	1.4	0.1	30.5	2.30	32.3	5.7
	66	67	1396	2973	280	910	101	21.5	51.2	5.7	23.6	3.5	8.1	0.9	5.2	0.6	97.8	0.59	27.6	9.8
	67	68	6650	12186	1133	3406	263	44.0	78.8	6.2	21.5	2.5	4.7	0.5	2.5	0.3	59.7	2.39	40.1	3.4



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 %	Th ppm	U ppm
	68	69	2117	3906	372	1093	72	12.5	20.8	1.6	4.8	0.6	1.1	0.1	0.6	0.1	12.7	0.76	10.4	5.8
	69	70	1888	3587	349	1044	70	12.7	22.5	1.5	5.6	0.6	1.4	0.1	0.7	0.1	14.0	0.70	10.7	5.7
	70	71	2475	4656	451	1336	89	15.9	28.7	2.4	8.8	1.2	3.8	1.0	1.8	1.0	17.8	0.91	15.4	6.3
	71	72	3471	6388	629	1872	130	23.5	42.0	3.3	11.0	1.4	2.6	0.3	1.5	0.1	30.5	1.26	17.2	7.9
	72	73	4058	7395	723	2146	147	28.4	50.4	3.8	13.9	1.7	3.0	0.3	1.5	0.2	39.4	1.46	19.5	7.2
	73	74	3788	6990	691	2082	151	28.7	53.7	3.8	14.1	1.9	3.5	0.3	1.6	0.2	40.6	1.39	18.3	2.7
	74	75	2475	5036	517	1621	126	24.7	47.6	3.9	15.0	2.1	4.1	0.5	2.3	0.3	50.8	0.99	23.5	5.2
	75	76	5020	8808	840	2414	154	28.5	51.1	4.0	14.8	2.1	4.4	0.5	2.3	0.3	47.0	1.74	20.0	12.3
	76	77	7694	14188	1365	3977	250	42.7	70.2	4.3	13.5	1.4	2.5	0.3	1.1	0.2	29.2	2.76	33.3	5.2
	77	78	5184	9459	938	2834	210	39.5	72.4	5.8	19.1	2.2	3.8	0.4	2.1	0.3	50.8	1.88	65.1	6.5
	78	79	3612	6609	645	1948	151	30.2	59.4	5.2	20.4	2.9	6.1	0.6	3.2	0.4	69.8	1.32	29.0	6.1
	79	80	1051	1775	178	588	69	18.3	45.1	4.9	23.5	3.5	7.7	0.8	4.1	0.5	92.7	0.39	18.2	8.7
	80	81	693	1265	133	478	64	17.3	43.6	4.9	22.6	3.3	7.7	0.7	4.1	0.5	86.4	0.28	18.8	8.8
	81	82	800	1621	176	637	81	20.7	52.0	5.3	24.6	3.7	7.8	0.8	4.1	0.6	91.4	0.35	25.8	9.6
	82	83	703	1345	146	513	67	17.3	43.7	5.0	22.6	3.4	7.7	0.8	4.2	0.6	87.6	0.30	26.0	7.7
	83	84	835	1824	224	853	101	22.0	50.7	5.7	24.1	3.4	7.4	0.8	4.6	0.7	87.6	0.40	47.5	7.7
	84	85	1231	2316	236	757	79	19.8	47.1	5.3	24.2	3.8	8.6	0.9	4.8	0.6	97.8	0.48	21.3	9.4
	85	86	2281	4275	413	1254	105	22.8	48.2	4.7	20.1	3.1	7.0	0.8	3.9	0.5	81.3	0.85	22.9	10.2
	86	87	4433	7776	750	2239	156	28.0	57.6	4.9	20.2	2.9	6.5	0.8	4.8	0.5	85.1	1.56	20.2	7.5
	87	88	12256	20330	1800	5051	318	57.8	99.9	7.0	22.7	2.8	5.6	0.5	2.4	0.4	62.2	4.00	34.0	2.4
	88	89	5852	10294	975	2776	176	31.8	55.9	4.2	14.2	1.7	3.2	0.3	1.4	0.2	39.4	2.02	14.2	2.3
	89	90	6615	11473	1073	3044	180	32.9	56.3	4.0	12.7	1.4	2.2	0.2	1.3	0.1	30.5	2.25	16.4	1.9
	90	91	5559	9741	921	2613	152	26.4	42.9	2.7	8.4	0.9	1.5	0.1	0.8	0.1	17.8	1.91	15.7	1.4
	91	92	5254	9238	869	2496	155	28.0	48.0	3.1	10.2	1.2	2.2	0.2	1.1	0.2	26.7	1.81	15.6	2.3
	92	93	5606	9778	923	2624	157	27.7	45.2	3.0	9.6	1.2	2.1	0.2	1.1	0.2	26.7	1.92	17.4	3.0
	93	94	5008	9176	881	2531	153	27.1	45.9	3.6	10.7	1.3	2.3	0.2	1.0	0.2	27.9	1.79	14.3	1.8
	94	95	5981	11080	1070	3091	188	31.8	52.7	3.5	10.4	1.3	2.2	0.2	1.0	0.2	25.4	2.15	19.0	2.5
	95	96	4762	8673	835	2414	154	27.6	49.0	3.6	13.3	1.6	3.1	0.3	1.7	0.2	38.1	1.70	17.3	3.8
	96	97	3249	6265	607	1820	123	22.9	42.9	3.3	12.2	1.7	3.3	0.4	1.8	0.3	39.4	1.22	17.2	3.4
	97	98	3061	6068	610	1895	144	27.0	49.8	3.9	15.2	2.0	4.5	0.5	2.6	0.3	50.8	1.19	29.6	4.1
	98	99	1654	3427	325	1084	113	24.0	51.1	5.2	21.8	3.2	7.6	0.8	4.8	0.7	87.6	0.68	25.4	4.3
	99	100	2170	4471	429	1365	121	21.8	43.2	3.5	14.5	2.1	4.8	0.5	2.6	0.4	54.6	0.87	23.1	5.1
	100	101	3730	6768	620	1878	140	25.8	43.6	3.0	9.6	1.2	2.2	0.2	1.4	0.2	27.9	1.33	20.7	3.6
	101	102	2258	4312	384	1152	73	12.6	18.7	1.3	3.9	0.5	0.9	0.1	0.5	0.1	11.4	0.82	10.2	2.7
	102	103	1859	3648	326	981	66	11.6	16.6	1.1	3.8	0.5	1.0	0.1	0.6	0.1	11.4	0.69	8.3	2.8
	103	104	9523	18180	1716	5295	391	61.6	96.9	5.7	17.0	1.7	2.9	0.2	0.9	0.1	36.8	3.53	61.9	0.9
	104	105	4304	7899	749	2327	181	30.5	53.8	3.8	14.2	1.8	3.7	0.4	2.3	0.4	44.5	1.56	25.7	3.1
	105	106	5430	9090	869	2578	183	34.7	68.4	5.9	22.6	3.0	6.2	0.5	2.7	0.4	74.9	1.84	19.2	3.7
	106	107	4504	8046	714	2111	141	21.8	35.9	2.3	6.9	0.8	1.5	0.1	0.8	0.1	19.1	1.56	14.4	3.8
	107	108	4257	7985	743	2274	157	25.4	40.2	3.0	10.9	1.5	3.4	0.3	1.7	0.3	36.8	1.55	20.3	4.1
	108	109	6697	12345	1151	3558	252	40.4	63.5	4.2	14.2	1.7	3.0	0.3	1.7	0.2	36.8	2.42	24.9	1.8
	109	110	5395	9397	870	2706	210	37.6	64.1	5.1	19.3	2.1	3.9	0.4	1.6	0.3	48.3	1.88	19.7	1.9
	110	111	7002	12038	1081	3196	224	37.6	59.9	4.2	12.6	1.5	2.5	0.2	0.9	0.1	30.5	2.37	22.6	1.2
	111	112	13135	20760	1987	5470	347	57.0	95.0	5.5	15.0	1.5	2.4	0.2	1.0	0.2	31.8	4.19	35.6	1.6
	112	113	6016	10749	975	2951	211	33.2	53.7	3.4	10.7	1.2	2.2	0.2	1.0	0.1	26.7	2.10	25.0	2.8

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 %	Th ppm	U ppm
	113	114	5559	9668	892	2729	195	33.1	54.2	4.0	11.9	1.3	2.4	0.2	1.0	0.1	29.2	1.92	21.5	2.2
	114	115	5559	10011	922	2753	195	32.0	50.9	3.2	10.6	1.3	1.9	0.2	0.8	0.1	25.4	1.96	24.0	2.2
	115	116	7330	12284	1090	3184	230	40.2	67.1	4.8	16.8	2.0	3.4	0.3	1.5	0.2	43.2	2.43	24.3	1.8
	116	117	1507	2960	278	909	92	20.4	42.5	4.3	17.7	2.6	5.7	0.6	3.4	0.5	71.1	0.59	22.0	3.5
	117	118	5113	9238	854	2648	217	38.2	65.0	5.2	17.5	1.9	4.4	0.4	1.9	0.2	50.8	1.83	22.2	2.6
	118	119	3683	6842	656	2100	180	33.6	58.0	4.8	16.9	2.2	4.1	0.4	2.1	0.3	50.8	1.36	16.7	2.7
	119	120	4316	7579	701	2135	159	28.8	48.0	3.6	11.6	1.5	2.7	0.2	1.4	0.2	34.3	1.50	19.7	3.8
	120	121	3155	5749	527	1604	117	19.1	31.7	1.9	7.1	0.7	1.4	0.1	0.8	0.1	16.5	1.12	17.5	3.9
	121	122	6990	12161	1121	3348	228	37.2	57.1	3.5	10.9	1.0	1.7	0.2	0.8	0.1	24.1	2.40	29.1	3.7
	122	123	4668	8365	766	2344	170	28.3	46.1	3.3	10.7	1.3	2.7	0.3	2.1	0.3	31.8	1.64	26.7	1.3
	123	124	4234	7763	724	2193	157	25.0	40.5	2.5	6.9	0.8	1.4	0.1	0.8	0.1	16.5	1.52	18.3	4.2
	124	125	3882	7456	713	2239	164	26.9	40.7	2.7	7.6	0.9	1.3	0.2	0.6	0.1	17.8	1.46	15.7	2.7
	125	126	5360	10024	940	2846	195	32.1	47.5	2.9	8.4	0.9	1.5	0.1	0.5	0.1	20.3	1.95	19.5	1.8
	126	127	6708	11989	1143	3173	209	34.7	57.1	3.6	10.2	1.0	1.6	0.2	0.9	0.1	20.3	2.34	20.1	2.0
	127	128	6028	10859	985	2951	194	32.1	48.5	3.0	8.8	1.1	1.8	0.2	0.7	0.2	22.9	2.11	17.9	1.5
	128	129	5219	9152	871	2519	179	28.7	49.9	3.4	9.8	1.1	1.8	0.2	1.1	0.1	25.4	1.81	22.7	1.8
	129	130	4949	9041	875	2554	179	27.2	46.3	3.3	9.3	1.0	1.7	0.1	0.9	0.1	24.1	1.77	16.5	3.4
	130	131	5981	10884	1051	3068	208	32.3	55.1	3.6	9.6	1.0	1.9	0.1	0.7	0.1	22.9	2.13	20.6	2.9
	131	132	4504	8648	869	2648	214	39.6	76.4	6.1	22.3	2.8	5.3	0.5	2.4	0.3	64.8	1.71	22.0	6.6
	132	133	6157	10834	1040	3009	209	33.5	57.2	3.9	11.1	1.2	1.9	0.2	0.7	0.2	24.1	2.14	22.1	5.3
	133	134	4820	8820	865	2531	173	27.8	46.5	2.9	8.0	0.8	1.6	0.1	0.7	0.1	19.1	1.73	19.6	4.2
	134	135	4773	8734	871	2613	192	32.5	57.9	4.1	14.7	1.8	3.5	0.4	2.5	0.3	45.7	1.73	31.4	4.8
	135	136	8948	15601	1450	4211	307	52.5	92.9	6.5	19.6	2.2	4.2	0.4	1.9	0.2	49.5	3.07	51.2	2.3
	136	137	4996	9532	941	2823	205	32.8	59.5	4.3	11.9	1.3	2.5	0.3	1.0	0.2	30.5	1.86	25.1	3.2
	137	138	3999	7481	726	2117	146	23.7	41.7	2.9	8.5	0.9	1.6	0.1	0.9	0.1	21.6	1.46	16.8	2.7
	138	139	5266	9655	944	2823	204	34.5	63.2	4.6	14.0	1.6	2.7	0.2	1.3	0.2	34.3	1.90	29.2	5.9
	139	140	7916	14127	1341	3884	266	42.7	73.1	4.8	14.7	1.6	3.0	0.3	1.1	0.2	36.8	2.77	30.6	2.1
	140	141	7107	12714	1238	3651	255	40.1	68.0	4.4	12.5	1.2	1.9	0.2	0.7	0.1	26.7	2.51	31.5	2.2
	141	142	11095	18242	1631	4549	304	47.6	81.7	5.0	14.0	1.4	1.8	0.2	0.8	0.1	29.2	3.60	42.7	14.5
	142	143	7459	12100	1089	3044	204	32.0	55.8	3.7	10.0	1.0	1.7	0.1	0.7	0.1	21.6	2.40	39.0	72.2
	143	144	5817	9508	877	2496	178	29.9	53.9	3.9	11.5	1.3	2.4	0.2	1.1	0.2	30.5	1.90	30.0	24.8
	144	145	6439	11228	1084	3208	238	38.9	71.7	5.2	16.3	1.8	3.4	0.3	1.8	0.3	43.2	2.24	29.1	3.8
	145	146	11013	18242	1667	4771	346	57.6	103.0	7.3	21.6	2.3	3.7	0.4	1.7	0.2	52.1	3.63	42.5	2.9
	146	147	5172	9299	912	2718	211	36.4	69.6	5.5	17.1	1.9	3.7	0.3	2.1	0.3	48.3	1.85	28.4	3.4
	147	148	4011	7370	731	2181	171	29.6	57.1	4.7	17.0	2.0	3.7	0.4	3.0	0.5	49.5	1.46	28.9	5.7
	148	149	4902	8795	865	2601	199	33.9	62.1	4.5	15.6	2.0	3.7	0.3	1.8	0.3	45.7	1.75	22.2	3.3
	149	150	11904	20084	1867	5400	386	61.8	105.7	6.9	17.7	1.7	2.6	0.2	1.0	0.1	34.3	3.99	46.3	0.8
	150	151	5852	10294	979	2869	203	33.1	56.8	3.8	10.3	1.1	1.5	0.1	0.7	0.1	22.9	2.03	24.9	1.4
	151	152	8128	14495	1377	4071	293	47.6	84.4	5.7	17.0	1.6	2.6	0.2	1.3	0.1	36.8	2.86	49.7	1.3
	152	153	5747	10159	970	2811	192	32.4	57.4	4.1	13.4	1.6	2.7	0.3	1.3	0.2	34.3	2.00	20.9	5.2
	153	154	3647	6609	642	1925	160	30.2	64.7	5.8	24.0	3.3	7.2	0.8	4.6	0.6	90.2	1.32	28.6	5.1
	154	155	3753	6867	669	2024	157	27.7	52.0	4.1	14.6	1.8	3.4	0.4	2.4	0.3	45.7	1.36	20.7	6.9
	155	156	3929	7567	762	2304	163	27.0	46.7	3.1	9.3	1.0	1.8	0.1	0.9	0.1	21.6	1.48	17.8	7.0
	156	157	5266	9348	895	2613	179	28.4	47.5	3.1	8.2	0.9	1.6	0.1	0.7	0.1	19.1	1.84	19.2	4.7
	157	158	7764	13942	1329	3896	278	43.8	73.7	4.9	14.5	1.7	2.6	0.4	1.5	0.3	33.0	2.74	31.2	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 %	Th ppm	U ppm
	158	159	7611	13328	1269	3721	252	41.8	70.2	4.3	12.5	1.2	2.2	0.1	0.9	0.1	26.7	2.63	27.8	2.3
	159	160	12432	21190	1921	5447	351	55.9	95.4	5.5	15.4	1.5	2.3	0.1	1.0	0.1	33.0	4.16	38.7	1.6
	160	161	6849	11989	1151	3394	238	38.3	65.7	3.9	12.3	1.3	2.5	0.2	1.0	0.2	29.2	2.38	25.2	2.2
	161	162	8620	15969	1547	4561	315	49.8	84.4	5.1	15.6	1.6	2.7	0.2	1.1	0.2	35.6	3.12	45.2	3.4
	162	163	4773	8930	860	2554	189	32.1	59.9	4.2	13.7	1.4	2.5	0.2	1.4	0.2	33.0	1.75	29.8	1.5
	163	164	3882	7530	822	2823	271	46.7	84.7	5.6	17.3	1.8	3.2	0.3	1.6	0.3	43.2	1.55	77.9	3.1
	164	165	1097	2432	300	1143	127	21.2	37.0	2.2	6.9	0.7	1.4	0.1	1.0	0.1	19.1	0.52	39.3	3.9
	165	166	1818	3624	375	1219	108	18.1	34.1	2.1	7.2	0.7	1.4	0.1	0.8	0.2	19.1	0.72	24.4	8.5
	166	167	3859	7469	754	2298	164	27.0	47.1	2.9	10.1	1.1	1.8	0.1	0.8	0.1	24.1	1.47	16.8	8.6
	167	168	4515	8451	831	2461	171	27.0	45.2	2.8	8.2	0.8	1.5	0.1	1.0	0.1	19.1	1.65	19.0	3.3
	168	169	6263	11350	1092	3243	217	33.8	55.9	3.0	9.8	0.8	1.7	0.1	0.8	0.1	20.3	2.23	23.2	2.2
	169	170	6931	12235	1161	3406	233	36.2	61.1	3.5	10.8	0.9	1.9	0.1	0.8	0.1	21.6	2.41	25.2	2.5
	170	171	2545	4877	482	1487	129	25.1	53.9	4.6	20.3	2.9	6.2	0.6	3.8	0.5	77.5	0.97	26.9	3.9
	171	172	3765	7248	729	2234	172	28.1	53.3	3.7	13.9	1.8	3.7	0.4	2.2	0.3	44.5	1.43	25.7	3.0
	172	173	3753	6953	665	1983	145	24.1	42.9	2.8	10.1	1.1	2.2	0.2	1.3	0.2	27.9	1.36	17.8	3.4
	173	174	2310	4619	469	1487	135	26.4	55.7	4.7	20.1	2.8	6.4	0.6	3.8	0.5	73.7	0.92	26.9	7.1
	174	175	1595	3108	314	1005	96	19.6	45.6	4.4	18.5	2.6	6.1	0.6	3.3	0.5	71.1	0.63	23.5	3.3
	175	176	1519	3022	309	988	93	17.5	38.5	3.4	14.6	2.1	4.4	0.4	2.9	0.4	54.6	0.61	14.3	4.9
	176	177	7576	13512	1287	3744	245	37.9	63.6	3.7	10.1	0.9	1.6	0.1	0.8	0.1	20.3	2.65	26.6	3.1
	177	178	7154	12898	1232	3639	242	37.6	62.8	3.5	10.6	0.9	1.7	0.1	0.8	0.1	20.3	2.53	27.7	2.9
	178	179	2592	4852	471	1464	130	24.7	53.4	4.9	21.4	3.1	7.1	0.7	4.1	0.6	85.1	0.97	34.8	10.4
	179	180	1572	3317	331	1100	125	25.7	60.9	6.0	27.3	4.1	8.7	0.9	4.8	0.6	106.7	0.67	33.7	8.5
	180	181	1988	3919	384	1219	117	23.2	53.9	5.2	21.8	3.4	7.8	0.8	4.6	0.5	90.2	0.78	29.5	8.6
<b>KGKRC044</b>	0	1	8456	18672	2145	6660	561	84.1	149.8	10.0	26.2	2.7	5.0	0.4	2.2	0.3	59.7	3.68	90.6	4.9
	1	2	6497	14127	1607	5086	435	68.7	121.6	8.4	20.7	2.0	3.4	0.3	1.8	0.3	44.5	2.80	69.7	4.3
	2	3	6263	12653	1293	4176	351	56.2	108.5	7.7	21.5	1.9	3.0	0.2	1.0	0.1	41.9	2.50	78.4	2.8
	3	4	3542	7714	847	2869	259	40.8	76.3	5.3	13.9	1.3	2.1	0.2	1.1	0.1	29.2	1.54	57.2	1.8
	4	5	5442	11793	1269	4176	354	52.8	90.4	5.8	14.4	1.4	2.6	0.2	0.9	0.1	29.2	2.32	53.4	1.0
	5	6	6791	14925	1722	5365	422	60.1	101.5	6.0	15.4	1.6	2.6	0.2	1.0	0.1	30.5	2.94	44.7	1.1
	6	7	4363	9729	1068	3581	295	43.9	78.3	5.2	14.4	1.5	2.7	0.2	1.5	0.2	35.6	1.92	40.9	1.2
	7	8	2756	6265	702	2414	209	32.8	60.5	4.1	12.9	1.4	3.2	0.3	1.8	0.3	35.6	1.25	26.8	5.6
	8	9	3084	6965	759	2601	234	38.6	76.0	5.4	16.8	2.1	4.4	0.5	2.9	0.3	58.4	1.38	35.2	4.6
	9	10	2803	6228	697	2438	247	44.7	93.0	7.5	27.2	3.4	7.2	0.8	4.1	0.5	87.6	1.27	31.8	5.9
	10	11	3941	7248	766	2449	204	33.7	60.7	4.4	12.5	1.3	1.8	0.2	1.1	0.2	29.2	1.48	41.1	2.1
	11	12	10989	18856	1704	4887	347	66.1	126.2	10.7	33.2	3.2	4.6	0.3	1.6	0.1	66.0	3.71	111.5	1.9
	12	13	16888	28376	2513	6998	467	88.6	166.6	13.7	41.4	3.7	4.8	0.3	1.4	0.2	76.2	5.56	116.5	2.3
	13	14	10110	18610	1764	5237	375	66.4	113.8	7.8	21.0	2.0	2.7	0.2	0.8	0.1	39.4	3.63	69.2	2.1
	14	15	11013	17935	1565	4269	261	46.2	82.3	7.0	21.9	2.4	4.0	0.3	1.7	0.3	52.1	3.53	51.5	2.2
	15	16	13604	23401	2102	5995	448	87.5	163.1	12.3	32.7	2.8	4.0	0.3	0.9	0.2	55.9	4.59	116.5	1.1
	16	17	6357	11842	1159	3558	274	49.1	88.8	6.9	20.7	1.7	2.5	0.2	0.8	0.2	35.6	2.34	68.1	2.4
	17	18	3131	7063	764	2461	186	31.7	54.2	3.7	11.3	1.2	2.2	0.2	1.1	0.1	25.4	1.37	22.2	4.0
	18	19	6509	10957	1132	3511	278	47.0	82.1	5.8	16.6	1.7	2.7	0.2	1.4	0.1	38.1	2.26	39.8	2.6
	19	20	4891	8562	881	2683	218	39.6	70.9	5.4	15.2	1.3	1.8	0.2	0.8	0.1	29.2	1.74	52.0	1.8
	20	21	8292	12284	1164	3371	298	56.6	108.2	7.7	22.0	2.0	2.7	0.2	0.9	0.2	39.4	2.56	73.3	2.4
	21	22	6016	10257	1011	2939	233	39.5	71.1	5.1	13.3	1.2	1.9	0.2	0.7	0.1	25.4	2.06	40.5	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 %	Th ppm	U ppm
	22	23	13077	19347	1861	5564	654	134.3	243.2	15.1	36.5	3.0	4.1	0.3	1.0	0.2	53.3	4.10	151.5	1.5
	23	24	14719	22664	1909	5529	576	117.5	213.8	14.9	37.3	3.4	5.0	0.3	1.4	0.2	68.6	4.59	128.0	2.0
	24	25	12666	19102	1601	4572	404	80.6	142.9	10.5	27.2	2.6	3.7	0.3	1.1	0.2	50.8	3.87	84.3	2.3
	25	26	13898	21558	1830	5272	420	77.2	133.1	9.1	25.1	2.3	3.2	0.3	0.9	0.2	45.7	4.33	76.5	2.3
	26	27	9664	16153	1444	4374	361	62.9	104.3	7.3	19.7	1.9	3.1	0.2	1.0	0.2	40.6	3.22	58.4	2.0
	27	28	7224	12026	1074	3196	244	40.8	64.4	4.6	11.3	1.2	2.1	0.2	0.9	0.1	25.4	2.39	32.7	3.6
	28	29	7482	12775	1147	3453	264	42.5	68.9	4.5	13.1	1.3	2.6	0.2	1.0	0.2	31.8	2.53	35.0	2.4
	29	30	7975	13512	1214	3534	268	44.7	75.0	5.2	13.1	1.3	2.4	0.2	0.9	0.1	30.5	2.67	40.3	1.8
	30	31	5242	9139	819	2461	193	33.0	54.8	4.5	15.8	2.1	4.2	0.4	2.7	0.3	55.9	1.80	35.3	4.7
	31	32	1243	2279	225	781	103	23.9	59.1	6.8	30.2	4.8	12.4	1.3	6.8	0.9	132.1	0.49	27.3	11.8
	32	33	416	873	101	401	74	18.5	49.2	5.9	27.5	4.5	10.0	1.1	6.5	0.8	120.6	0.21	22.0	10.1
	33	34	562	1131	124	451	70	17.1	45.2	5.5	24.8	3.9	8.8	0.9	5.4	0.6	105.4	0.26	20.6	9.0
	34	35	3413	7039	753	2403	202	35.8	63.5	4.0	11.1	1.3	2.3	0.2	1.1	0.1	26.7	1.40	34.1	3.1
	35	36	5829	9557	942	2753	209	36.4	60.9	4.0	10.0	1.0	1.7	0.2	0.7	0.1	21.6	1.94	28.5	3.3
	36	37	6075	9803	964	2788	201	33.9	60.1	4.3	13.1	1.2	2.3	0.1	0.9	0.1	25.4	2.00	31.6	3.7
	37	38	4574	8071	814	2391	169	27.8	45.0	2.8	6.9	0.8	1.3	0.1	0.5	0.1	15.2	1.61	19.7	2.8
	38	39	5606	9901	1006	2893	170	26.5	44.0	3.0	7.8	0.9	1.1	0.1	0.6	0.2	17.8	1.97	18.5	1.5
	39	40	5137	10306	1019	3044	194	31.5	51.6	3.6	10.7	1.0	1.7	0.1	0.9	0.2	24.1	1.98	28.3	1.7
	40	41	7459	12001	1118	3231	227	37.6	69.5	5.4	15.6	1.7	2.5	0.2	0.9	0.1	39.4	2.42	42.0	2.3
	41	42	5207	9483	951	2904	220	37.4	68.9	5.3	16.8	1.6	2.3	0.2	0.9	0.1	34.3	1.89	54.9	1.6
	42	43	3988	7149	697	2082	146	23.9	42.2	3.1	9.0	1.0	1.6	0.2	0.7	0.1	22.9	1.42	24.2	2.5
	43	44	4586	8415	830	2449	158	24.1	42.0	2.7	7.7	0.9	1.8	0.2	0.8	0.1	20.3	1.65	18.2	2.5
	44	45	4269	7567	742	2181	141	21.5	37.7	3.0	9.8	1.1	1.9	0.2	1.0	0.2	26.7	1.50	21.7	1.6
	45	46	4210	7395	697	2024	125	19.9	34.5	2.8	7.7	0.9	1.5	0.1	0.9	0.1	19.1	1.45	20.6	1.1
	46	47	3964	7284	719	2123	136	20.4	35.7	2.3	6.0	0.7	1.0	0.1	0.5	0.1	14.0	1.43	14.7	1.2
	47	48	5113	9422	924	2753	183	27.6	47.8	3.0	8.4	0.9	1.4	0.2	0.7	0.1	20.3	1.85	21.2	1.9
	48	49	4539	9164	959	3033	213	33.2	60.6	4.7	14.9	1.6	2.6	0.2	1.6	0.2	39.4	1.81	43.1	3.9
	49	50	10004	18917	1885	5739	413	65.7	110.7	6.6	17.2	1.7	2.9	0.3	1.1	0.2	34.3	3.72	58.5	2.8
	50	51	4515	8058	779	2292	149	23.6	39.9	2.5	7.9	0.9	1.7	0.2	0.9	0.2	20.3	1.59	17.5	2.2
	51	52	3800	6695	639	1860	118	17.5	30.9	2.1	5.9	0.7	1.4	0.1	0.7	0.1	16.5	1.32	13.6	1.0
	52	53	5266	9311	895	2636	172	27.2	47.6	3.1	9.5	1.1	2.1	0.2	1.4	0.2	26.7	1.84	25.2	2.4
	53	54	1448	2543	245	771	72	15.6	37.0	3.9	16.6	2.7	6.1	0.6	3.3	0.4	69.8	0.52	20.4	7.7
	54	55	2246	4312	434	1388	117	21.7	45.6	4.3	17.0	2.3	4.7	0.4	2.4	0.3	55.9	0.87	31.5	5.1
	55	56	429	765	83	307	47	12.0	32.4	3.6	15.8	2.5	5.6	0.6	3.1	0.3	63.5	0.18	18.4	10.8
	56	57	915	1505	145	474	56	13.6	34.1	3.8	16.0	2.3	5.3	0.5	2.7	0.4	62.2	0.32	17.6	10.3
	57	58	1835	3120	290	870	80	17.0	40.0	4.1	16.3	2.7	5.8	0.7	3.4	0.5	69.8	0.64	22.8	8.9
	58	59	1082	1861	186	610	72	16.3	40.8	4.5	19.1	2.9	7.0	0.7	3.4	0.5	76.2	0.40	23.9	7.2
	59	60	4199	8009	825	2601	198	31.5	57.1	4.2	12.6	1.5	2.4	0.3	1.4	0.2	34.3	1.60	41.9	3.8
	60	61	3190	5859	571	1744	127	21.0	36.0	2.5	7.9	0.9	1.7	0.2	0.8	0.1	20.3	1.16	20.1	1.8
	61	62	4140	7002	668	2012	140	22.4	38.2	2.6	7.7	0.9	1.5	0.1	0.6	0.1	20.3	1.41	23.0	2.3
	62	63	1800	3526	361	1133	89	15.4	28.5	2.1	7.5	1.0	2.3	0.2	1.5	0.2	22.9	0.70	13.1	1.1
	63	64	2533	4754	470	1441	103	16.7	28.8	2.0	6.4	0.7	1.4	0.1	0.7	0.1	17.8	0.94	16.4	2.1
	64	65	3366	6167	605	1878	155	27.1	51.6	4.3	15.8	2.2	4.4	0.5	2.4	0.3	53.3	1.23	28.4	4.4
	65	66	1677	3329	347	1121	105	20.3	43.0	3.8	15.4	2.2	4.9	0.5	2.6	0.3	57.2	0.67	26.6	8.1
	66	67	2017	3673	362	1127	105	21.2	46.7	4.6	18.8	2.8	6.1	0.7	3.5	0.5	72.4	0.75	25.0	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 %	Th ppm	U ppm
	67	68	504	905	98	365	56	14.2	37.5	4.2	19.5	3.1	6.5	0.8	3.6	0.5	80.0	0.21	18.1	10.9
	68	69	642	1086	113	399	58	14.0	37.7	4.2	18.8	3.0	6.6	0.7	4.0	0.5	80.0	0.25	18.4	9.7
	69	70	266	538	62	238	41	10.1	27.9	3.2	15.2	2.4	5.5	0.7	3.5	0.6	62.2	0.13	18.2	8.1
	70	71	1149	2230	234	771	80	16.4	37.6	3.6	16.1	2.1	4.8	0.5	2.9	0.3	58.4	0.46	21.5	7.6
	71	72	2269	4250	423	1312	109	18.6	36.2	3.1	12.1	1.6	3.8	0.4	2.4	0.4	43.2	0.85	20.9	5.0
	72	73	3389	6216	603	1825	139	22.5	40.5	3.0	10.7	1.3	2.9	0.3	1.8	0.3	31.8	1.23	23.4	2.8
	73	74	4128	7346	700	2088	154	25.1	42.9	2.9	9.2	1.1	2.2	0.2	1.5	0.2	25.4	1.45	19.8	1.9
	74	75	4210	6916	623	1802	122	19.1	32.6	1.9	6.0	0.7	1.1	0.1	0.7	0.1	15.2	1.38	14.4	2.6
	75	76	2850	5036	484	1446	107	17.8	31.5	2.1	7.1	0.8	1.6	0.2	0.9	0.2	17.8	1.00	14.2	1.7
	76	77	4937	8329	766	2239	158	24.1	41.8	2.6	7.4	0.7	1.3	0.2	0.8	0.1	17.8	1.65	17.6	2.8
	77	78	5782	9029	801	2263	151	23.6	38.8	2.4	7.2	0.8	1.6	0.1	0.6	0.1	17.8	1.81	17.4	3.8
	78	79	6791	10233	875	2414	152	23.7	40.3	2.7	8.2	0.9	1.6	0.1	0.8	0.1	20.3	2.06	17.3	4.2
	79	80	4292	7334	679	2000	147	24.2	45.0	3.2	11.7	1.4	2.9	0.3	1.8	0.3	34.3	1.46	21.7	3.9
	80	81	4562	7555	696	2024	136	21.3	37.2	2.5	8.3	1.0	1.9	0.2	1.3	0.2	24.1	1.51	17.4	3.8
	81	82	2733	4926	464	1388	108	18.0	33.7	2.6	9.9	1.3	2.3	0.3	1.5	0.3	31.8	0.97	17.7	2.4
	82	83	5770	9508	871	2519	180	29.5	53.5	4.2	13.8	1.7	3.3	0.4	1.9	0.3	43.2	1.90	30.7	2.9
	83	84	3401	6044	570	1697	136	24.2	47.0	4.0	15.6	1.8	3.9	0.4	2.7	0.4	48.3	1.20	44.3	4.2
	84	85	5864	9803	900	2613	185	30.2	55.4	4.0	13.3	1.4	2.7	0.3	1.6	0.2	34.3	1.95	36.2	3.2
	85	86	5313	8980	836	2426	175	28.3	50.4	3.6	11.4	1.1	1.8	0.2	1.1	0.1	27.9	1.79	30.8	4.4
	86	87	5688	9459	857	2449	163	25.9	44.8	3.0	8.8	0.9	1.5	0.2	0.8	0.1	20.3	1.87	19.0	2.3
	87	88	6556	10220	895	2508	165	25.8	45.5	3.1	9.5	1.0	1.7	0.2	0.8	0.1	22.9	2.05	22.7	3.0
	88	89	8362	14434	1329	3896	269	42.2	72.6	4.6	14.2	1.4	2.4	0.2	1.1	0.2	27.9	2.85	43.1	3.0
	89	90	4128	7383	679	1995	139	22.8	38.8	2.8	9.6	1.0	2.3	0.2	1.5	0.2	25.4	1.44	21.2	1.7
	90	91	5184	8795	808	2356	165	25.7	45.2	3.5	13.8	2.0	5.3	0.6	4.1	0.5	61.0	1.75	30.8	6.2
	91	92	459	819	80	240	23	5.1	11.9	1.3	7.2	1.2	3.1	0.4	2.9	0.4	35.6	0.17	21.7	3.3
	92	93	152	276	28	90	11	2.4	6.3	0.9	4.9	1.0	2.9	0.4	3.4	0.5	29.2	0.06	20.3	3.7
	93	94	2205	3648	337	996	77	13.4	25.4	2.0	8.7	1.3	3.0	0.4	2.3	0.4	33.0	0.74	27.2	8.4
	94	95	3155	5282	493	1470	117	19.1	34.5	2.2	7.4	0.9	1.4	0.2	0.9	0.1	20.3	1.06	21.0	11.8
	95	96	3272	5663	532	1621	133	23.0	45.0	3.8	13.8	1.5	2.5	0.2	1.4	0.2	35.6	1.13	30.7	6.8
	96	97	3354	6056	574	1755	139	24.2	44.8	3.8	14.0	1.6	2.5	0.2	1.3	0.1	36.8	1.20	33.6	4.7
	97	98	6169	9299	811	2304	168	28.8	52.9	4.5	17.2	2.0	3.3	0.3	1.6	0.2	49.5	1.89	34.6	2.9
	98	99	2533	4115	382	1141	104	19.6	42.7	5.1	24.3	3.2	5.8	0.5	3.0	0.4	85.1	0.85	26.1	2.8
	99	100	3014	5147	489	1598	130	23.7	46.0	4.3	16.8	2.1	3.3	0.3	2.2	0.3	52.1	1.05	38.4	2.5
	100	101	3237	5036	460	1423	107	19.7	40.5	4.1	15.8	2.0	3.4	0.3	2.1	0.3	49.5	1.04	30.0	2.6
	101	102	3917	6646	631	1954	142	26.1	47.0	4.1	14.2	1.7	3.1	0.3	2.2	0.2	43.2	1.34	27.7	3.1
	102	103	1384	2629	249	804	64	12.7	24.8	2.3	9.8	1.4	3.1	0.4	2.4	0.3	41.9	0.52	11.9	2.8
	103	104	1343	2383	217	675	49	8.6	15.8	1.3	4.9	0.6	1.4	0.2	0.9	0.2	17.8	0.47	9.2	4.7
	104	105	3225	5331	499	1557	110	18.3	33.2	2.5	7.4	0.9	1.5	0.2	0.9	0.2	20.3	1.08	20.0	6.6
	105	106	3847	6375	588	1814	121	19.7	36.2	2.6	8.0	0.9	1.8	0.2	0.9	0.1	21.6	1.28	17.4	2.7
	106	107	6474	10577	1000	3056	207	36.1	64.7	4.7	13.9	1.7	3.0	0.3	1.9	0.3	40.6	2.15	28.8	2.6
	107	108	3894	6105	549	1668	113	19.7	34.4	2.4	7.8	0.9	1.8	0.1	0.8	0.1	22.9	1.24	16.4	1.9
	108	109	1624	2960	275	862	63	10.9	20.5	1.8	6.8	0.8	1.5	0.1	0.9	0.1	21.6	0.58	12.6	1.0
	109	110	3120	4791	428	1295	88	16.0	28.4	2.2	7.4	0.9	1.7	0.2	0.8	0.1	21.6	0.98	19.2	4.0
	110	111	3284	4889	418	1254	85	15.1	27.7	2.4	8.6	0.9	1.7	0.2	0.8	0.1	21.6	1.00	21.2	3.8
	111	112	1794	3268	312	1025	86	16.1	32.3	3.1	11.3	1.2	2.6	0.2	1.3	0.1	31.8	0.66	37.4	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 %	Th ppm	U ppm
	112	113	1525	2948	285	953	79	14.5	29.5	2.9	10.1	1.2	2.2	0.2	1.3	0.2	29.2	0.59	36.2	4.8
	113	114	3178	5528	524	1510	101	17.4	29.6	2.3	8.5	1.0	1.8	0.2	1.0	0.1	24.1	1.09	17.2	8.0
	114	115	2533	4484	442	1312	93	16.7	30.9	2.6	9.2	1.1	2.2	0.2	1.1	0.2	27.9	0.90	25.7	7.2
	115	116	6122	10208	991	2869	190	33.5	57.1	4.3	14.2	1.6	3.0	0.3	1.5	0.2	36.8	2.05	33.7	2.6
	116	117	7940	14557	1462	4316	277	45.2	73.3	4.3	13.2	1.4	2.5	0.2	1.0	0.1	30.5	2.87	31.6	1.8
	117	118	2803	4975	474	1493	99	16.6	28.5	2.1	6.3	0.8	1.5	0.1	0.7	0.1	16.5	0.99	11.3	1.0
	118	119	2439	4373	414	1295	87	14.4	24.6	1.8	5.2	0.7	1.4	0.1	0.7	0.1	16.5	0.87	12.0	0.6
	119	120	6075	9422	843	2496	164	27.1	47.1	3.2	9.0	1.0	1.7	0.1	0.8	0.1	20.3	1.91	19.4	1.2
	120	121	2428	3968	354	1073	72	12.6	21.7	1.7	5.4	0.7	1.4	0.2	1.0	0.1	16.5	0.80	9.8	0.6
	121	122	3530	5442	484	1441	95	16.9	31.8	2.6	8.8	1.2	2.4	0.2	1.5	0.1	29.2	1.11	13.0	1.0
	122	123	8644	13635	1232	3558	218	36.1	62.4	4.6	13.5	1.5	2.5	0.2	1.3	0.2	33.0	2.74	27.6	1.4
	123	124	9945	15294	1353	3919	241	41.2	70.8	5.1	13.8	1.4	2.3	0.2	0.8	0.1	27.9	3.09	30.3	1.8
	124	125	13429	20821	2000	5377	320	51.1	86.5	5.7	13.3	1.3	1.9	0.2	0.6	0.1	25.4	4.21	40.6	1.5
	125	126	10848	16031	1377	3849	229	39.0	68.5	5.0	12.4	1.3	2.3	0.2	1.0	0.1	27.9	3.25	35.6	0.9
	126	127	12138	17443	1607	4117	234	39.1	68.7	4.6	10.8	1.1	1.6	0.2	0.6	0.1	21.6	3.57	34.7	0.8
	127	128	13663	19962	1843	4724	277	47.0	84.6	5.8	13.8	1.3	2.2	0.2	0.8	0.2	27.9	4.07	44.6	0.9
	128	129	19996	29727	2743	7138	409	70.1	121.6	9.0	23.2	2.2	3.7	0.3	1.1	0.2	48.3	6.03	58.4	1.2
	129	130	20055	28499	2453	6404	377	61.6	103.9	7.2	20.9	2.2	3.8	0.3	1.6	0.2	52.1	5.80	50.9	1.3
	130	131	16009	23094	1987	5190	300	47.1	82.5	5.2	14.9	1.6	2.5	0.1	0.9	0.1	33.0	4.68	37.0	0.9
	131	132	10837	16031	1402	3686	221	34.5	58.7	3.8	11.8	1.4	2.5	0.2	1.3	0.1	34.3	3.23	25.1	0.8
	132	133	23046	32921	2827	7383	427	67.4	117.0	7.8	23.0	2.4	3.8	0.2	1.3	0.1	50.8	6.69	52.1	1.9
	133	134	2721	4422	408	1134	75	12.7	21.7	1.6	6.3	0.8	1.4	0.1	1.0	0.1	20.3	0.88	11.4	2.4
	134	135	5278	8009	719	1965	129	22.1	42.7	3.5	14.0	1.8	3.7	0.3	2.3	0.2	49.5	1.62	23.6	2.2
	135	136	7881	11350	987	2566	150	23.7	39.4	2.8	8.5	0.9	1.4	0.1	0.7	-0.1	20.3	2.30	18.8	0.8
	136	137	9511	14127	1238	3289	195	30.9	50.9	3.5	9.9	1.0	1.5	0.1	0.6	-0.1	22.9	2.85	23.0	1.1
	137	138	4633	7567	712	2006	134	21.5	38.3	2.9	9.6	1.2	2.2	0.2	1.3	0.2	29.2	1.52	21.2	6.3
	138	139	6204	11154	1113	3278	227	36.1	62.6	4.6	14.5	1.7	3.1	0.3	2.1	0.3	43.2	2.21	44.0	1.8
	139	140	6861	11277	1079	3068	196	30.0	48.3	2.9	8.8	0.9	1.5	0.1	0.8	-0.1	19.1	2.26	20.9	0.9
	140	141	4468	7542	726	2082	142	23.3	39.8	2.6	8.2	1.0	1.7	0.1	1.1	0.1	24.1	1.51	18.6	1.4
	141	142	2093	3636	352	1025	73	12.3	22.0	1.6	5.4	0.7	1.5	0.1	0.9	0.1	19.1	0.72	10.4	1.4
	142	143	2979	5221	499	1458	98	16.1	27.8	1.9	6.5	0.8	1.4	0.1	0.8	0.1	19.1	1.03	15.6	2.0
	143	144	3835	6498	607	1720	116	19.5	32.3	2.5	8.5	1.1	2.4	0.2	1.5	0.2	27.9	1.29	23.0	2.5
	144	145	1789	3034	286	819	56	9.6	17.3	1.7	5.9	0.9	1.7	0.1	1.1	0.1	21.6	0.60	20.2	3.6
	145	146	3155	5282	493	1411	98	16.9	31.4	2.6	8.8	1.2	2.5	0.2	1.4	0.1	29.2	1.05	28.1	3.0
	146	147	2533	4324	410	1184	84	14.1	25.4	2.3	8.2	1.0	1.8	0.1	0.9	0.1	25.4	0.86	20.8	6.7
	147	148	4070	6695	605	1691	105	16.3	28.1	1.9	6.0	0.7	1.3	0.1	0.8	-0.1	16.5	1.32	13.8	11.9
	148	149	1554	2629	251	707	52	8.5	16.3	1.3	5.5	0.6	1.1	0.1	1.1	0.1	19.1	0.52	11.5	5.5
	149	150	5219	8292	749	2041	126	21.0	34.8	2.5	7.6	0.9	1.4	0.1	0.8	0.1	20.3	1.65	21.9	7.5
	150	151	2862	4729	433	1190	74	12.3	21.1	1.7	5.2	0.6	1.1	0.1	0.8	-0.1	16.5	0.93	11.6	7.5
	151	152	742	1419	147	442	34	5.6	11.0	0.9	3.6	0.5	1.0	-0.1	0.7	-0.1	12.7	0.28	7.9	6.3
	152	153	4269	7690	771	2257	153	23.9	40.6	2.6	7.2	1.0	1.6	0.1	1.0	0.1	20.3	1.52	17.6	3.5
	153	154	4011	7272	735	2152	147	24.2	40.8	3.3	9.8	1.4	2.3	0.4	1.6	0.4	27.9	1.44	24.4	1.6
	154	155	1882	3354	327	960	66	10.9	18.8	1.4	4.7	0.6	1.1	0.1	0.7	0.1	15.2	0.66	10.4	1.0
<b>KGKRC045</b>	0	1	6052	10675	1090	3324	263	45.6	82.8	5.9	18.8	2.3	3.9	0.3	2.1	0.2	49.5	2.16	45.3	4.3
	1	2	5606	9754	987	2986	230	38.4	65.8	4.3	12.5	1.3	2.3	0.2	1.3	0.1	29.2	1.97	33.7	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 %	Th ppm	U ppm
	2	3	7154	12272	1257	3826	304	50.0	87.6	5.9	16.4	1.5	2.4	0.2	1.3	0.1	34.3	2.50	60.6	4.2
	3	4	9676	16645	1673	4841	340	56.3	99.7	6.9	20.4	2.2	3.5	0.3	1.8	0.3	49.5	3.34	54.8	3.8
	4	5	6697	12014	1115	3371	227	38.2	67.7	4.7	13.5	1.3	2.4	0.2	1.0	0.2	29.2	2.36	32.4	4.2
	5	6	7600	13820	1281	3872	262	43.3	73.0	5.0	13.3	1.4	2.2	0.3	0.8	0.2	26.7	2.70	33.6	3.9
	6	7	8139	14802	1353	4094	286	49.4	87.7	6.4	17.7	1.7	2.9	0.2	1.1	0.2	36.8	2.89	53.0	3.7
	7	8	6521	12223	1156	3511	260	47.7	87.9	7.4	22.7	2.4	3.7	0.4	2.3	0.3	54.6	2.39	52.9	4.1
	8	9	6228	11780	1131	3616	275	48.1	86.2	6.6	20.0	2.1	3.9	0.4	2.3	0.4	52.1	2.33	41.9	4.5
	9	10	4668	8955	894	2881	230	40.4	72.4	5.0	14.5	1.6	2.6	0.3	1.1	0.2	34.3	1.78	40.6	4.8
	10	11	4199	7678	733	2286	169	29.1	51.3	4.2	13.4	1.4	2.9	0.3	1.6	0.2	33.0	1.52	33.1	2.5
	11	12	4339	7849	719	2210	152	25.9	45.4	3.5	11.1	1.3	2.2	0.2	0.9	0.1	27.9	1.54	26.9	3.4
	12	13	5653	10564	1021	3243	235	40.0	65.6	4.4	11.7	1.2	1.9	0.2	0.9	0.1	25.4	2.09	32.1	5.9
	13	14	5254	9717	934	2916	204	33.1	54.4	3.4	8.7	0.9	1.7	0.2	0.7	0.1	19.1	1.91	22.1	2.9
	14	15	6931	11879	1161	3453	231	38.1	59.8	3.5	9.4	0.9	1.5	0.1	0.8	0.1	17.8	2.38	24.4	3.5
	15	16	5383	9913	938	2951	208	34.0	59.0	4.3	12.3	1.2	2.1	0.2	1.1	0.2	26.7	1.95	33.6	2.7
	16	17	7389	13635	1305	4047	298	49.6	84.6	6.3	18.6	1.9	3.1	0.3	1.7	0.2	44.5	2.69	61.6	3.1
	17	18	9910	17996	1770	5039	347	58.7	97.4	6.7	18.1	1.7	2.6	0.3	1.3	0.2	34.3	3.53	43.1	2.4
	18	19	9077	17013	1710	4934	340	54.9	91.6	7.0	20.2	2.0	3.0	0.2	1.3	0.2	40.6	3.33	44.2	2.7
	19	20	7283	12468	1269	3837	292	52.2	93.8	7.3	23.8	2.6	4.5	0.4	2.4	0.4	58.4	2.54	77.5	2.5
	20	21	924	1910	184	629	74	17.8	44.0	4.9	23.0	3.3	7.3	0.8	4.2	0.6	90.2	0.39	30.4	8.2
	21	22	2011	4164	407	1353	115	21.8	45.3	4.1	16.8	2.3	4.7	0.5	3.0	0.4	58.4	0.82	23.7	5.3
	22	23	6063	11854	1150	3593	239	39.8	64.9	4.6	12.2	1.3	2.4	0.3	1.4	0.3	31.8	2.31	33.6	2.9
	23	24	6568	12198	1142	3499	240	39.5	64.6	4.7	13.1	1.5	2.4	0.2	1.4	0.2	31.8	2.38	33.8	3.0
	24	25	5149	9889	980	3208	259	45.4	81.6	6.9	21.7	2.1	3.9	0.4	2.1	0.3	55.9	1.97	86.2	3.7
	25	26	5149	9704	932	2963	230	37.8	69.3	5.3	16.3	1.6	3.0	0.3	1.5	0.2	39.4	1.92	52.7	4.6
	26	27	2340	4508	431	1388	103	18.0	32.4	3.1	11.4	1.2	2.1	0.2	1.1	0.2	29.2	0.89	29.4	4.0
	27	28	5946	12530	1269	4059	298	50.6	86.8	6.7	20.7	2.3	4.4	0.5	2.9	0.4	59.7	2.43	60.6	3.2
	28	29	4292	8599	828	2578	187	32.3	61.8	5.3	19.7	2.4	5.2	0.6	3.8	0.5	69.8	1.67	37.4	6.2
	29	30	1777	3366	313	976	75	14.1	28.8	2.9	11.4	1.5	3.3	0.4	2.3	0.4	41.9	0.66	14.8	2.7
	30	31	6849	11780	1049	3079	197	33.4	55.6	4.0	11.9	1.1	2.2	0.2	1.0	0.1	27.9	2.31	26.4	2.7
	31	32	3776	6449	559	1744	124	19.1	35.7	2.3	6.5	0.7	1.1	0.1	0.7	0.1	15.2	1.27	15.9	1.6
	32	33	1033	2064	183	580	43	7.4	13.4	0.9	3.2	0.3	0.7	0.1	0.6	0.1	8.9	0.39	6.2	0.5
	33	34	3354	5749	516	1627	119	19.2	34.4	2.4	7.1	0.7	1.1	0.1	0.6	0.1	16.5	1.14	17.5	1.3
	34	35	3765	6597	591	1866	128	20.7	36.3	2.4	7.4	0.7	1.3	0.1	0.8	0.1	17.8	1.30	18.6	1.8
	35	36	5512	9483	849	2624	179	28.0	50.1	3.7	10.7	1.1	1.9	0.2	0.9	0.1	25.4	1.88	25.2	2.5
	36	37	4879	8587	772	2391	167	26.9	47.7	3.5	10.7	1.2	2.6	0.2	1.3	0.3	30.5	1.69	25.1	1.9
	37	38	2604	4582	410	1301	95	16.0	29.9	2.3	7.0	0.7	1.4	0.1	0.7	0.1	16.5	0.91	15.1	1.5
	38	39	2826	4926	439	1394	99	15.3	28.4	2.0	6.1	0.7	1.5	0.1	0.6	0.1	14.0	0.98	14.2	2.0
	39	40	4234	7051	626	1954	135	21.5	38.5	2.7	8.3	0.9	1.7	0.1	0.6	0.1	19.1	1.41	17.7	2.7
	40	41	5196	8083	687	2088	147	23.5	42.8	3.3	10.6	1.2	2.3	0.2	1.4	0.2	27.9	1.63	25.6	4.7
	41	42	6204	9594	793	2327	159	25.5	47.7	3.6	10.6	1.2	2.1	0.2	0.8	0.2	26.7	1.92	24.1	4.0
	42	43	4914	7628	646	1948	137	23.4	43.2	3.2	9.5	1.1	1.7	0.1	0.7	0.1	22.9	1.54	25.6	3.5
	43	44	6568	10699	923	2788	190	29.8	52.6	3.7	9.6	1.0	1.6	0.1	0.8	0.1	21.6	2.13	24.8	3.2
	44	45	4081	7088	643	2065	148	23.4	42.1	3.1	9.5	1.0	1.9	0.2	1.0	0.1	25.4	1.41	21.9	3.4
	45	46	3237	5430	478	1476	101	16.3	29.2	2.0	5.9	0.7	1.4	0.2	0.8	0.1	17.8	1.08	12.6	2.9
	46	47	6673	10884	951	2858	195	32.3	55.8	3.7	9.8	0.9	1.6	0.2	0.7	0.1	20.3	2.17	25.4	3.5

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 %	Th ppm	U ppm	
	47	48	4093	6621	565	1697	115	18.1	32.4	2.2	6.3	0.7	1.1	0.1	0.6	0.1	15.2	1.32	13.8	3.7	
	48	49	2381	4140	372	1162	83	13.2	24.1	2.0	6.7	0.8	1.5	0.2	0.6	0.1	19.1	0.82	14.6	3.2	
	49	50	4386	7309	633	1942	139	23.0	44.0	3.7	12.9	1.3	2.5	0.2	1.3	0.2	35.6	1.45	30.7	6.0	
	50	51	2909	5712	584	1820	132	23.3	40.7	3.1	11.8	1.4	2.4	0.2	1.0	0.2	31.8	1.13	31.7	5.0	
	51	52	9429	15478	1456	4152	270	46.8	79.2	5.4	17.7	2.0	3.7	0.3	1.7	0.2	43.2	3.10	45.2	5.4	
	52	53	7377	12653	1238	3604	242	41.8	73.5	5.1	16.8	1.8	2.9	0.3	1.5	0.2	39.4	2.53	58.1	2.9	
	53	54	9816	15416	1414	3907	240	41.0	67.1	4.0	12.7	1.2	1.9	0.2	0.8	0.1	25.4	3.09	37.1	5.5	
	54	55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	55	56	2299	3992	356	1106	75	12.2	22.1	1.5	4.7	0.5	1.0	0.1	0.6	0.1	14.0	0.79	9.6	1.2	
	56	57	2416	4201	382	1172	85	14.1	25.2	1.8	5.5	0.6	1.1	0.1	0.7	0.1	15.2	0.83	11.7	1.3	
	57	58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	58	59	1190	2064	200	582	42	7.1	12.7	0.9	3.9	0.6	1.0	0.1	0.6	0.1	12.7	0.41	7.8	3.1	
	59	60	5278	8980	799	2414	159	24.6	43.7	3.0	9.1	1.1	2.1	0.2	0.9	0.2	24.1	1.77	20.5	6.0	
	60	61	179	330	32	106	12	3.0	7.6	1.0	5.5	0.9	2.2	0.3	1.9	0.3	25.4	0.07	16.4	2.8	
	61	62	2885	5270	482	1505	103	16.2	30.8	2.5	9.3	1.2	2.4	0.2	1.7	0.2	30.5	1.03	21.6	2.1	
	62	63	1484	3182	294	988	83	14.8	31.2	2.9	11.8	1.6	3.4	0.3	1.8	0.2	41.9	0.61	17.2	1.7	
	63	64	1402	3083	295	921	72	12.5	22.4	1.6	5.7	0.7	1.4	0.2	0.9	0.1	15.2	0.58	12.2	1.7	
	64	65	2604	4840	441	1347	94	14.8	25.4	1.9	5.3	0.6	1.1	0.1	0.6	0.1	14.0	0.94	11.8	2.2	
	65	66	3401	6253	587	1779	124	19.2	34.0	2.3	6.8	0.7	1.4	0.2	0.7	0.1	17.8	1.22	16.2	4.3	
	66	67	1366	2924	274	854	63	10.5	18.6	1.4	5.4	0.7	1.7	0.3	1.3	0.2	19.1	0.55	10.6	4.7	
	67	68	2533	4803	447	1376	101	16.9	31.7	2.5	8.4	1.0	2.1	0.2	1.3	0.2	24.1	0.93	18.0	1.2	
	68	69	1402	2862	259	777	54	9.0	15.9	1.3	4.6	0.7	1.6	0.2	0.8	0.1	16.5	0.54	8.9	4.5	
	69	70	3084	5233	452	1312	88	14.4	25.4	1.9	6.0	0.6	1.5	0.1	0.8	0.1	16.5	1.02	12.2	3.8	
	70	71	1677	3194	277	821	59	9.5	16.8	1.2	4.1	0.5	1.3	0.2	0.9	0.1	14.0	0.61	10.8	1.7	
	71	72	1859	3452	315	938	64	10.4	18.1	1.2	3.9	0.4	0.8	0.1	0.5	0.1	10.2	0.67	9.6	2.7	
	72	73	1560	3145	282	848	60	10.2	18.2	1.4	5.4	0.6	1.3	0.2	0.8	0.1	16.5	0.59	10.2	6.1	
	73	74	1566	3145	282	861	61	10.1	18.4	1.3	4.9	0.5	1.3	0.1	0.7	0.1	14.0	0.60	9.3	4.5	
	74	75	5113	9311	860	2543	169	26.4	42.8	2.9	8.4	0.9	1.5	0.1	0.8	0.1	19.1	1.81	20.6	3.5	
	75	76	3882	7334	683	2070	143	22.9	39.1	3.0	9.3	1.0	1.9	0.2	0.9	0.1	24.1	1.42	24.7	4.7	
	76	77	5805	9201	785	2210	141	23.3	43.5	3.3	11.3	1.2	2.2	0.2	1.1	0.2	27.9	1.83	20.8	2.9	
	77	78	1366	2592	230	672	47	7.8	14.0	1.0	3.8	0.4	0.8	0.1	0.7	0.1	10.2	0.49	7.4	2.0	
	78	79	737	1394	137	412	31	5.8	10.3	1.0	3.7	0.5	1.1	0.1	0.8	0.1	12.7	0.27	7.4	1.9	
	79	80	3366	5921	538	1598	108	17.6	32.0	2.3	6.3	0.7	1.5	0.1	0.7	0.1	16.5	1.16	16.0	1.9	
	80	81	3589	6167	536	1545	102	17.1	29.7	2.0	6.3	0.7	1.3	0.1	0.7	0.1	15.2	1.20	15.6	1.2	
	81	82	8948	13942	1149	3149	191	31.4	57.8	4.0	10.8	1.1	1.9	0.2	1.0	0.1	24.1	2.75	31.6	1.3	
	82	83	15305	24015	2157	5377	320	52.9	93.3	6.9	19.6	1.9	3.2	0.3	1.4	0.2	41.9	4.74	54.4	2.0	
	83	84	11845	18795	1661	4257	263	43.8	81.1	6.1	16.6	1.7	2.7	0.3	1.3	0.2	38.1	3.70	53.6	1.4	
	84	85	7307	11756	981	2718	168	28.5	52.2	4.0	12.6	1.4	2.7	0.3	1.5	0.2	34.3	2.31	35.5	1.7	
	85	86	9887	16338	1341	3732	238	40.4	71.8	5.5	17.5	2.0	3.5	0.3	1.9	0.3	47.0	3.17	47.1	1.7	
	86	87	10766	17566	1444	3966	241	40.1	75.2	5.7	18.3	1.9	3.3	0.3	1.8	0.2	48.3	3.42	42.6	1.6	
	87	88	16361	25428	2229	5622	330	54.3	98.6	7.1	21.1	2.2	4.1	0.4	1.8	0.2	50.8	5.02	51.5	1.9	
	88	89	18296	28376	2525	6322	393	67.3	123.9	9.6	27.5	2.8	4.7	0.5	2.2	0.3	64.8	5.62	86.5	2.9	
	89	90	9852	15662	1317	3616	232	39.7	76.7	6.2	22.0	2.5	4.4	0.5	2.2	0.3	57.2	3.09	44.2	3.0	
	90	91	8057	13205	1124	3161	207	33.8	62.5	4.7	15.0	1.7	2.7	0.3	1.4	0.2	38.1	2.59	31.4	1.6	
	91	92	3659	6191	547	1575	106	18.1	31.0	2.6	9.2	1.1	1.8	0.2	1.1	0.2	24.1	1.22	16.5	3.1	

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 %	Th ppm	U ppm
	92	93	3753	6154	527	1499	96	16.7	30.2	2.4	7.6	0.9	1.7	0.2	1.1	0.1	20.3	1.21	15.2	3.6
	93	94	3167	4619	412	1231	83	13.0	25.1	1.8	6.4	0.7	1.3	0.1	0.8	-0.1	17.8	0.96	10.6	6.1
	94	95	2299	3538	335	1004	71	12.4	22.8	1.7	6.1	0.7	1.4	0.2	0.8	0.1	17.8	0.73	13.2	8.6
	95	96	4867	7198	648	1930	130	19.9	38.4	2.7	8.3	0.9	1.9	0.1	1.1	0.1	22.9	1.49	16.0	2.3
	96	97	3624	5380	481	1441	99	15.5	29.6	2.1	6.4	0.7	1.3	0.1	0.7	0.1	17.8	1.11	12.5	6.7
	97	98	1654	2973	292	951	75	12.5	26.1	1.9	7.1	0.8	1.8	0.2	1.0	0.1	21.6	0.60	13.2	0.8
	98	99	968	1806	182	605	52	9.3	19.8	1.7	7.4	0.9	1.9	0.2	1.4	0.2	24.1	0.37	13.6	0.7
	99	100	583	1139	114	352	30	5.1	8.8	0.7	2.5	0.3	0.6	0.1	0.3	0.1	8.9	0.22	8.2	0.4
	100	101	1642	2997	289	861	66	10.9	18.6	1.3	4.8	0.6	1.1	0.1	0.7	0.1	14.0	0.59	9.9	0.7
	101	102	1484	2764	267	802	61	10.3	18.7	1.5	5.3	0.6	1.0	0.1	0.7	0.1	14.0	0.54	11.3	1.4
	102	103	881	1566	149	474	36	6.3	12.9	1.0	3.7	0.4	0.8	0.1	0.5	-0.1	10.2	0.31	6.8	0.8
	103	104	1765	3096	302	956	76	13.0	25.7	2.0	7.1	0.7	1.1	0.1	0.6	0.1	17.8	0.63	18.1	1.0
	104	105	5219	8623	858	2683	192	29.8	55.3	3.8	11.0	1.2	2.2	0.1	0.8	0.1	26.7	1.77	27.5	1.5
	105	106	5031	7972	772	2379	159	24.3	45.6	3.2	9.6	0.9	1.8	0.2	1.1	0.1	24.1	1.64	19.2	2.5
	106	107	8362	12345	1150	3406	220	34.7	62.6	4.6	14.0	1.4	2.6	0.2	1.4	0.2	35.6	2.56	31.2	1.9
	107	108	2932	4287	390	1147	77	12.5	24.0	1.9	5.6	0.6	0.9	0.1	0.3	-0.1	15.2	0.89	11.8	1.0
	108	109	1495	2543	236	727	51	8.1	15.4	1.2	4.6	0.5	0.9	0.1	0.5	-0.1	11.4	0.51	8.8	0.6
	109	110	794	1351	143	497	54	11.1	25.5	3.0	14.2	1.9	4.5	0.5	3.3	0.4	57.2	0.30	23.1	2.8
	110	111	2369	3808	358	1107	77	12.3	24.1	1.8	5.4	0.6	0.8	0.1	0.3	-0.1	14.0	0.78	10.6	0.9
	111	112	1024	1818	173	552	41	6.7	13.4	1.1	3.9	0.5	0.9	0.1	0.6	0.1	11.4	0.36	6.1	0.4
	112	113	976	1800	181	617	57	10.2	22.1	2.0	8.5	1.1	2.2	0.2	1.8	0.2	31.8	0.37	24.2	1.1
	113	114	4445	7223	721	2280	167	28.0	51.9	4.2	13.8	1.5	2.6	0.3	1.7	0.2	33.0	1.50	42.5	1.7
	114	115	4644	7665	741	2239	151	22.9	43.9	3.0	9.5	1.0	1.8	0.1	0.7	0.1	22.9	1.55	22.0	1.0
	115	116	8561	14311	1408	4316	293	46.9	87.9	6.4	20.0	1.8	2.6	0.2	0.9	0.1	38.1	2.91	33.3	2.4
	116	117	2340	3869	367	1126	78	12.5	23.6	1.8	6.1	0.7	1.4	0.1	0.6	0.1	16.5	0.78	10.6	0.6
	117	118	3342	5196	481	1441	96	16.0	30.0	2.5	8.2	0.8	1.4	0.1	0.6	-0.1	21.6	1.06	16.0	2.4
	118	119	2357	3833	360	1101	76	11.7	21.7	1.7	6.3	0.7	1.4	0.1	0.6	0.1	16.5	0.78	10.4	1.6
	119	120	1519	2592	245	744	53	8.8	16.5	1.3	4.7	0.5	0.9	0.1	0.6	-0.1	12.7	0.52	6.9	0.9
	120	121	816	1345	131	404	30	5.3	10.8	1.0	4.0	0.5	1.3	0.1	0.8	0.1	15.2	0.28	4.7	1.2
	121	122	1460	2616	255	812	65	11.6	25.6	2.3	10.1	1.3	2.5	0.3	1.5	0.2	34.3	0.53	15.6	1.6
	122	123	1618	3403	323	981	74	13.1	26.7	2.4	9.0	1.1	2.1	0.2	1.3	0.2	25.4	0.65	19.0	1.8
	123	124	1179	2309	207	617	46	7.3	14.3	1.3	4.7	0.6	1.3	0.1	0.5	0.1	14.0	0.44	11.8	0.9
	124	125	1443	2752	243	677	43	7.0	12.3	1.1	3.1	0.3	0.7	0.1	0.5	-0.1	6.4	0.52	6.8	1.1
	125	126	1425	2592	226	645	47	7.9	14.5	1.2	4.0	0.5	0.9	0.1	0.6	0.1	11.4	0.50	9.6	1.3
	126	127	1226	2481	233	714	60	11.5	23.5	2.6	11.0	1.5	3.4	0.4	2.3	0.3	38.1	0.48	20.9	2.3
	127	128	2873	5208	475	1429	100	17.3	32.5	2.9	10.2	1.3	2.5	0.2	1.5	0.2	31.8	1.02	20.0	1.7
	128	129	2850	4815	425	1231	83	14.1	26.3	2.4	7.8	1.0	1.7	0.2	1.3	0.2	21.6	0.95	21.9	1.4
	129	130	4902	8820	829	2461	174	28.0	54.1	4.2	12.4	1.4	2.3	0.2	1.4	0.1	29.2	1.73	43.6	1.4
	130	131	7729	12898	1145	3278	215	34.0	59.9	4.3	12.6	1.4	2.6	0.2	0.9	0.1	26.7	2.54	28.5	1.1
	131	132	5923	10675	983	2834	184	28.6	49.9	3.5	10.4	1.1	1.9	0.2	0.8	0.1	21.6	2.07	23.8	1.2
	132	133	4656	8316	773	2239	147	23.6	40.3	3.0	8.0	0.9	1.6	0.2	0.8	0.1	19.1	1.62	18.6	1.2
	133	134	4855	8734	816	2391	156	25.2	42.1	3.0	7.9	0.8	1.5	0.1	0.6	0.1	16.5	1.70	16.8	1.2
	134	135	4316	7776	710	2041	131	20.6	35.9	2.4	7.5	0.8	1.5	0.1	0.6	0.1	16.5	1.51	13.4	1.0
	135	136	3378	6081	556	1621	106	16.9	29.1	2.0	5.4	0.7	1.3	0.1	0.6	0.1	12.7	1.18	11.2	1.3
	136	137	3941	7014	633	1825	121	19.1	33.2	2.4	7.6	0.8	1.6	0.1	0.7	0.1	16.5	1.36	14.1	1.1

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 %	Th ppm	U ppm
	137	138	4621	7530	698	1971	130	22.2	38.3	2.7	9.9	1.1	2.2	0.3	1.4	0.2	27.9	1.51	23.1	1.4
	138	139	7307	11363	967	2659	157	24.0	44.0	3.5	11.7	1.4	2.7	0.3	1.8	0.2	30.5	2.26	24.6	3.2
	139	140	7037	11006	936	2531	150	22.5	38.2	2.6	7.4	0.7	1.3	0.1	0.6	0.1	15.2	2.17	16.2	2.2
	140	141	7283	11940	1050	2869	173	26.4	46.3	3.1	8.2	0.8	1.4	0.1	0.6	0.1	16.5	2.34	21.2	2.1
	141	142	10473	18303	1752	4841	315	50.1	86.7	6.1	16.3	1.9	3.3	0.3	1.8	0.3	38.1	3.59	42.9	1.5
	142	143	10590	19654	1975	5295	336	51.0	85.6	5.3	15.4	1.6	3.1	0.3	1.4	0.2	33.0	3.80	37.8	1.5
	143	144	12021	19900	1836	4701	275	41.8	75.8	4.9	13.9	1.4	1.9	0.2	0.9	0.1	27.9	3.89	26.7	2.7
	144	145	13487	22910	2199	5715	361	58.0	104.9	7.2	18.1	1.9	3.4	0.3	1.6	0.2	39.4	4.49	53.4	1.7
	145	146	11787	18979	1728	4432	269	44.0	81.1	5.9	16.1	1.6	3.0	0.3	1.3	0.2	33.0	3.74	34.4	1.5
	146	147	16595	26411	2398	6124	366	58.4	105.9	7.4	21.4	2.2	4.1	0.3	1.8	0.2	48.3	5.21	43.6	2.2
	147	148	16361	27270	2586	6707	435	71.6	134.3	9.9	30.4	3.5	6.6	0.7	3.5	0.5	80.0	5.37	76.4	2.6
	148	149	9723	15662	1420	4059	299	53.7	102.7	8.7	31.7	4.2	8.6	1.0	6.2	0.9	113.0	3.15	62.4	3.0
	149	150	11282	17996	1583	4397	277	45.7	78.3	4.8	13.9	1.3	2.4	0.2	1.0	0.2	30.5	3.57	37.9	1.5
<b>KGKRC046</b>	0	1	8339	14802	1486	3907	267	41.6	73.4	5.4	15.7	2.0	3.8	0.4	2.1	0.3	45.7	2.90	35.4	3.5
	1	2	14953	23524	2139	5809	354	55.1	94.2	6.6	17.7	1.9	3.2	0.3	1.3	0.2	44.5	4.70	45.5	1.1
	2	3	19938	30710	2791	7243	444	70.1	116.4	8.2	20.4	2.1	3.7	0.3	1.7	0.2	47.0	6.14	58.6	1.6
	3	4	6486	10527	947	2508	165	26.4	44.3	3.4	8.6	1.0	1.7	0.2	1.0	0.1	22.9	2.07	19.2	1.8
	4	5	4257	7076	656	1808	125	19.6	33.9	2.7	6.9	0.7	1.4	0.1	0.7	0.1	16.5	1.40	16.2	3.7
	5	6	4996	8193	752	2000	134	21.8	36.0	2.6	6.7	0.8	1.5	0.1	0.8	0.1	16.5	1.62	17.8	6.5
	6	7	8081	13820	1335	3453	235	36.6	62.1	4.2	10.7	1.2	1.8	0.2	0.8	0.1	24.1	2.71	28.7	2.4
	7	8	5477	9459	892	2484	185	29.8	52.9	4.2	13.0	1.7	2.7	0.3	1.8	0.2	36.8	1.86	30.7	2.8
	8	9	16888	28253	2767	7453	517	86.7	147.5	9.9	26.1	2.7	4.2	0.3	1.7	0.2	54.6	5.62	73.2	2.2
	9	10	11224	18733	1806	4712	343	55.5	94.9	6.6	15.7	1.5	2.5	0.2	0.9	0.1	30.5	3.70	43.9	1.6
	10	11	10426	17935	1746	4537	330	53.7	92.7	6.1	16.2	1.6	2.4	0.2	0.8	0.1	31.8	3.52	40.1	1.4
	11	12	9992	17689	1746	4607	357	59.3	105.1	6.9	17.0	1.8	2.3	0.2	0.8	0.1	31.8	3.46	50.9	2.4
	12	13	5970	9864	956	2776	187	28.8	51.6	3.6	9.4	0.9	1.5	0.2	0.9	0.1	21.6	1.99	24.4	2.2
	13	14	6063	9889	964	2799	192	30.8	53.6	3.5	10.9	1.1	1.8	0.2	0.9	0.1	24.1	2.00	28.4	4.2
	14	15	4128	7370	702	2170	157	28.3	52.6	4.1	14.7	1.8	4.0	0.4	2.1	0.3	45.7	1.47	29.7	2.6
	15	16	5970	10871	1019	3068	248	45.7	87.6	7.9	28.9	4.1	8.4	0.9	4.7	0.7	101.6	2.15	45.8	3.7
	16	17	1736	3513	361	1277	135	28.8	68.9	7.0	31.5	4.3	9.8	1.0	5.9	0.7	114.3	0.73	24.2	4.5
	17	18	4163	8034	811	2636	213	40.2	79.3	6.8	28.0	3.5	8.0	0.8	4.0	0.5	96.5	1.61	46.9	4.2
	18	19	3741	6867	663	2088	147	25.0	45.2	3.2	10.9	1.2	2.3	0.2	1.0	0.1	29.2	1.36	19.6	1.5
	19	20	4175	7948	791	2519	175	28.6	50.5	3.2	9.3	1.0	1.8	0.2	0.8	0.1	22.9	1.57	20.5	0.4
	20	21	5020	9569	967	3103	223	37.5	64.0	4.1	11.7	1.2	2.2	0.2	0.7	0.1	26.7	1.90	31.4	0.8
	21	22	4152	7444	742	2205	151	24.3	43.7	3.3	10.9	1.1	2.1	0.2	0.9	0.1	26.7	1.48	16.9	0.5
	22	23	1941	3869	378	1196	90	16.3	31.6	2.6	9.8	1.4	3.2	0.3	1.7	0.2	35.6	0.76	10.6	2.1
	23	24	3448	6498	645	2070	151	27.0	49.7	4.1	14.6	1.8	3.8	0.4	2.2	0.2	47.0	1.30	13.8	0.8
	24	25	3800	7297	724	2321	161	29.0	53.1	4.1	15.3	1.8	3.8	0.3	1.9	0.2	44.5	1.45	15.6	0.6
	25	26	3776	7235	719	2315	170	29.9	53.6	3.9	13.3	1.7	3.4	0.4	2.3	0.2	43.2	1.44	17.0	0.3
	26	27	4586	8746	871	2729	181	29.2	49.1	3.6	11.4	1.3	2.2	0.2	1.5	0.2	30.5	1.72	17.5	5.9
	27	28	3788	7579	778	2484	160	26.1	45.3	3.2	10.0	1.2	2.4	0.3	1.5	0.2	29.2	1.49	18.4	9.8
	28	29	185	348	35	118	16	3.6	8.9	1.2	7.2	1.2	3.0	0.3	2.5	0.4	33.0	0.08	21.3	4.0
	29	30	145	270	28	95	13	3.1	8.3	1.3	7.4	1.3	3.8	0.5	3.0	0.4	39.4	0.06	22.1	2.7
	30	31	5770	10822	1092	3511	248	39.8	67.3	4.7	13.9	1.5	2.7	0.2	1.3	0.1	34.3	2.16	35.1	3.0
	31	32	5149	9188	882	2753	196	32.0	55.8	3.7	11.6	1.2	2.3	0.2	1.4	0.1	30.5	1.83	27.6	3.1



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 %	Th ppm	U ppm
	32	33	4363	7641	730	2327	184	34.2	63.3	4.7	16.1	1.8	4.1	0.4	2.5	0.4	49.5	1.54	24.8	3.8
	33	34	3636	6547	654	2164	191	37.3	72.5	5.7	22.2	2.8	6.3	0.7	5.2	0.6	77.5	1.34	21.9	3.7
	34	35	4668	8304	814	2624	210	38.4	70.4	5.4	18.7	2.3	4.8	0.6	3.9	0.5	66.0	1.68	23.4	3.2
	35	36	5571	9950	970	3056	232	41.9	75.6	5.3	17.2	2.0	4.0	0.4	2.4	0.3	49.5	2.00	28.5	2.5
	36	37	5923	10712	1055	3359	245	42.0	76.2	5.4	17.2	2.0	3.5	0.4	2.2	0.3	49.5	2.15	39.6	3.4
	37	38	2686	4668	441	1435	132	27.2	59.8	5.7	24.6	3.3	7.6	0.8	4.3	0.5	90.2	0.96	27.1	3.6
	38	39	2123	3857	369	1213	115	23.4	54.2	5.1	20.1	2.8	6.4	0.6	3.9	0.4	78.7	0.79	37.8	4.6
	39	40	3730	6277	588	1866	146	29.6	62.9	5.5	21.9	2.9	6.3	0.6	3.5	0.5	74.9	1.28	32.6	4.4
	40	41	1964	3452	324	1054	101	21.9	51.4	5.1	21.6	3.3	7.0	0.7	3.9	0.5	83.8	0.71	23.3	4.2
	41	42	1531	2838	289	955	98	23.9	53.6	5.9	23.6	3.4	7.4	0.6	4.1	0.6	85.1	0.59	23.8	5.0
	42	43	2967	4729	443	1347	131	27.6	64.4	6.1	25.0	3.2	7.4	0.7	4.0	0.5	88.9	0.98	28.4	3.4
	43	44	6966	11350	1089	3056	240	43.9	92.2	7.5	28.2	3.5	7.4	0.7	3.9	0.6	94.0	2.30	42.5	3.4
	44	45	903	1634	163	555	69	15.1	40.0	4.4	19.3	2.5	5.7	0.6	3.3	0.5	71.1	0.35	16.8	3.2
	45	46	1196	2051	204	658	77	18.3	47.7	4.9	21.6	3.0	6.9	0.7	3.9	0.5	82.5	0.44	21.3	4.5
	46	47	4070	6425	584	1680	132	24.3	52.7	4.6	18.7	2.4	5.5	0.5	2.9	0.4	63.5	1.31	19.1	2.2
	47	48	8245	13328	1257	3488	242	40.8	78.8	5.9	22.2	2.5	5.4	0.5	2.6	0.3	63.5	2.68	30.6	2.0
	48	49	1065	1898	195	660	83	19.5	51.9	5.3	24.6	3.4	8.4	0.8	4.7	0.6	97.8	0.41	20.6	5.2
	49	50	782	1609	173	608	82	19.6	53.4	5.7	25.8	3.7	8.9	0.9	5.2	0.6	106.7	0.35	28.7	5.9
	50	51	1366	2678	286	976	107	22.5	53.7	5.2	23.3	3.2	7.6	0.8	4.4	0.6	91.4	0.56	34.5	5.2
	51	52	8280	13942	1341	3872	257	43.7	81.8	6.0	21.8	2.5	5.0	0.5	2.3	0.3	66.0	2.79	34.4	1.1
	52	53	6732	10687	1006	2636	169	27.9	51.3	3.7	12.7	1.4	2.7	0.3	1.6	0.2	35.6	2.14	19.0	0.4
	53	54	6087	9324	864	2274	152	25.8	50.7	4.0	13.9	1.6	3.0	0.3	1.6	0.2	40.6	1.88	21.2	0.4
	54	55	5160	8181	750	2018	130	22.2	42.8	3.3	11.5	1.3	2.9	0.2	1.5	0.2	35.6	1.64	17.4	0.4
	55	56	7471	12001	1143	3044	191	31.2	53.1	3.8	11.6	1.2	2.3	0.2	1.1	0.2	29.2	2.40	21.2	0.5
	56	57	3319	4484	362	955	59	9.8	18.9	1.6	5.3	0.6	1.3	0.1	0.6	0.1	14.0	0.92	8.8	0.3
	57	58	2123	3218	283	794	59	11.1	21.7	1.8	6.3	0.8	1.6	0.2	1.0	0.1	20.3	0.65	9.6	0.3
	58	59	1923	2825	243	686	54	9.7	20.6	1.8	7.2	0.9	2.2	0.2	1.0	0.2	25.4	0.58	8.4	1.1
	59	60	5477	7518	621	1662	112	19.6	37.1	2.8	9.4	1.0	1.8	0.2	0.9	0.1	24.1	1.55	18.1	0.7
	60	61	2023	3218	295	870	75	14.4	31.0	3.0	12.1	1.7	4.0	0.4	2.5	0.3	48.3	0.66	11.6	0.8
	61	62	6603	9201	801	2035	132	23.4	43.1	3.2	10.7	1.2	2.5	0.2	1.4	0.2	30.5	1.89	19.4	0.8
	62	63	9007	12530	1085	2718	164	27.2	48.8	3.4	9.1	0.9	1.3	0.1	0.3	-0.1	17.8	2.56	23.5	0.5
	63	64	4339	6105	505	1324	81	13.2	24.1	1.7	5.5	0.6	0.9	0.1	0.5	0.1	14.0	1.24	14.2	0.4
	64	65	2709	3771	313	849	59	10.5	22.1	2.3	9.6	1.2	2.5	0.3	1.4	0.2	31.8	0.78	15.6	0.7
	65	66	1443	2076	169	464	36	7.4	16.5	1.8	8.0	1.1	2.4	0.2	1.3	0.2	30.5	0.43	12.0	1.0
	66	67	1747	2604	232	668	54	10.8	24.0	2.4	10.0	1.2	2.3	0.2	1.4	0.2	30.5	0.54	17.4	0.9
	67	68	1918	2862	253	724	55	9.6	19.6	1.6	6.1	0.8	1.7	0.2	1.0	0.1	21.6	0.59	12.2	0.6
	68	69	11130	14864	1269	3114	196	32.4	58.0	4.1	11.9	1.1	1.9	0.2	0.8	0.1	24.1	3.07	25.2	0.6
	69	70	5125	7420	633	1697	111	17.8	32.4	2.4	7.2	0.8	1.7	0.1	0.7	0.1	17.8	1.51	15.8	0.4
	70	71	8526	11572	993	2414	147	24.8	45.0	3.5	11.9	1.4	2.5	0.2	1.3	0.2	34.3	2.38	17.6	0.5
	71	72	8526	11915	1058	2613	162	25.6	46.9	3.6	10.9	1.2	2.5	0.2	1.1	0.2	30.5	2.44	20.1	0.5
	72	73	8902	15294	1456	4012	261	44.2	74.5	5.6	14.2	1.6	2.9	0.2	1.1	0.2	33.0	3.01	39.4	0.5
	73	74	14367	22295	1969	5144	296	47.6	77.8	5.7	13.5	1.4	2.2	0.2	0.6	0.1	27.9	4.42	37.6	0.4
	74	75	6052	8894	735	2000	119	20.2	33.0	2.5	5.9	0.6	1.1	0.1	0.7	-0.1	12.7	1.79	16.1	0.3
	75	76	13018	21190	2018	5599	375	62.4	103.3	7.4	18.3	2.0	3.2	0.2	1.0	0.1	39.4	4.24	56.3	0.4
	76	77	10661	17136	1571	4234	266	45.2	74.7	6.0	15.5	1.6	3.0	0.2	1.3	0.1	34.3	3.40	40.6	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 %	Th ppm	U ppm
	77	78	8620	13574	1214	3208	196	33.5	58.8	4.4	10.7	1.1	2.1	0.2	0.7	0.1	24.1	2.69	24.6	0.5
	78	79	10672	17320	1619	4456	295	47.6	81.7	5.7	14.4	1.4	2.5	0.2	1.1	0.1	33.0	3.45	47.0	0.5
	79	80	8386	13267	1197	3243	200	33.6	56.0	4.3	11.3	1.3	2.4	0.2	0.9	0.1	27.9	2.64	30.0	0.5
	80	81	11294	17259	1516	3942	233	38.7	65.1	4.6	10.9	1.2	1.9	0.1	0.7	0.1	24.1	3.44	30.5	0.5
	81	82	15716	23401	2036	5225	303	48.5	78.6	5.9	13.0	1.4	2.3	0.2	0.9	0.1	27.9	4.69	41.0	0.4
	82	83	20759	31447	2694	7267	399	66.7	110.8	7.8	18.1	1.8	3.0	0.2	1.0	0.2	38.1	6.28	58.7	0.5
	83	84	14484	21190	1824	4677	270	44.0	73.2	5.4	13.4	1.5	2.7	0.2	1.3	0.2	34.3	4.26	43.6	0.3
	84	85	13722	20637	1788	4654	269	43.5	73.4	5.5	13.3	1.5	2.5	0.2	1.0	0.1	31.8	4.12	42.4	0.5
	85	86	5876	8783	731	2012	126	21.5	38.0	3.2	9.2	1.2	2.3	0.2	1.6	0.2	30.5	1.76	26.7	1.7
	86	87	4386	6621	556	1551	109	19.1	35.3	2.9	9.1	0.9	1.5	0.2	0.7	0.1	21.6	1.33	33.7	0.9
	87	88	2991	4385	359	990	65	11.6	21.0	1.9	6.4	0.8	1.4	0.1	0.8	0.1	19.1	0.89	12.2	0.5
	88	89	2733	4496	396	1166	85	15.8	28.0	2.4	7.4	0.9	1.7	0.2	0.8	0.1	20.3	0.90	18.0	0.4
	89	90	3342	5159	448	1271	89	15.6	28.5	2.3	6.4	0.7	1.3	0.1	0.5	-0.1	15.2	1.04	17.6	0.3
	90	91	1560	2457	208	605	47	9.0	17.8	1.7	6.0	0.8	1.7	0.2	1.0	0.2	20.3	0.49	13.4	0.3
	91	92	1589	2518	215	619	43	8.5	16.0	1.5	4.9	0.6	1.4	0.1	0.6	0.1	15.2	0.50	9.3	0.4
	92	93	1075	1787	153	453	38	8.2	17.1	1.9	7.1	0.9	1.6	0.2	0.9	0.1	24.1	0.36	15.4	0.8
	93	94	1747	2629	213	580	41	8.1	15.9	1.5	5.5	0.8	1.8	0.2	1.3	0.2	21.6	0.53	9.6	1.1
	94	95	3589	5159	422	1144	71	12.9	22.8	2.1	6.7	0.8	1.6	0.1	0.7	0.1	19.1	1.05	13.2	0.4
	95	96	11095	16461	1462	3767	215	34.6	57.9	4.5	11.3	1.3	2.2	0.2	1.0	0.1	26.7	3.31	28.0	0.3
	96	97	6966	11277	980	2776	168	28.8	47.3	3.5	9.4	1.1	2.1	0.2	0.9	0.1	25.4	2.23	20.5	0.3
	97	98	6966	11191	982	2764	169	28.3	46.1	3.5	9.5	1.1	2.3	0.2	1.3	0.2	26.7	2.22	21.7	0.6
	98	99	11060	18917	1806	4946	308	47.9	77.8	5.2	12.7	1.3	2.2	0.2	0.9	0.1	25.4	3.72	40.0	0.3
	99	100	7881	12775	1121	3068	177	29.5	49.9	3.8	10.6	1.3	2.4	0.2	1.3	0.1	27.9	2.51	21.8	0.4
	100	101	12080	19777	1782	4736	276	44.1	72.0	5.1	12.7	1.3	2.1	0.2	0.9	0.1	27.9	3.88	34.5	0.3
	101	102	6626	11363	1015	2928	182	29.5	50.0	3.6	10.1	1.3	2.1	0.2	0.7	0.1	26.7	2.22	23.0	0.3
	102	103	8468	13758	1377	3779	227	42.0	75.0	5.7	15.4	1.7	3.1	0.2	1.1	0.1	36.8	2.78	37.1	0.4
	103	104	8386	14311	1540	4549	336	71.2	132.6	10.2	29.8	3.2	5.5	0.5	2.4	0.3	71.1	2.94	105.5	0.7
	104	105	6028	9692	948	2846	188	37.6	64.0	4.8	14.6	1.7	3.4	0.3	1.6	0.2	41.9	1.99	36.0	0.3
	105	106	15129	22787	2223	6252	342	61.5	99.0	6.8	17.8	1.8	3.2	0.2	1.0	0.1	38.1	4.70	43.5	0.3
	106	107	5688	8820	828	2438	146	27.7	47.8	3.4	9.2	1.1	2.2	0.2	1.0	0.1	24.1	1.80	19.2	-0.3
	107	108	5934	9041	866	2554	159	30.1	52.7	3.9	10.3	1.4	2.3	0.2	0.8	0.1	26.7	1.87	19.2	-0.3
	108	109	5407	8107	745	2146	130	24.6	42.4	3.2	9.5	1.3	2.5	0.2	1.3	0.1	30.5	1.67	13.9	-0.3
	109	110	17182	25182	2386	6707	340	60.3	95.7	6.4	16.6	1.7	2.7	0.2	0.8	0.1	35.6	5.20	31.6	0.4
	110	111	18354	27270	2598	7232	376	65.1	104.5	7.0	17.1	1.7	2.7	0.2	0.7	0.1	33.0	5.61	37.1	0.3
	111	112	16067	23278	2199	5972	327	58.5	97.5	6.7	16.1	1.8	3.0	0.2	0.9	0.1	35.6	4.81	37.1	0.4
	112	113	19586	28867	2743	7652	387	68.3	110.8	7.4	19.2	2.2	3.8	0.2	1.4	0.2	45.7	5.95	35.8	-0.3
	113	114	24512	34641	3226	8818	422	75.4	118.7	8.3	20.5	2.2	3.5	0.2	1.1	0.1	43.2	7.19	45.9	0.4
	114	115	7752	11645	1054	2963	170	30.9	52.9	3.9	10.6	1.2	2.2	0.2	0.9	0.1	26.7	2.37	26.0	0.7
	115	116	6826	10269	938	2659	154	29.3	49.0	3.7	10.8	1.2	2.4	0.2	0.8	0.1	29.2	2.10	17.5	0.4
	116	117	4633	7051	636	1814	112	20.8	37.1	2.8	8.2	1.0	1.9	0.2	1.1	0.1	24.1	1.43	11.8	0.3
	117	118	5653	8574	802	2304	135	24.6	39.4	2.9	8.4	1.0	1.9	0.2	0.8	0.1	21.6	1.76	14.6	0.4
	118	119	10403	15355	1444	3826	217	39.1	64.7	4.4	12.5	1.3	2.4	0.2	1.0	0.1	30.5	3.14	28.1	0.4
	119	120	5852	8820	790	2228	127	23.3	38.0	2.8	8.0	0.9	1.5	0.1	0.6	0.1	20.3	1.79	13.2	0.3
	120	121	6873	10147	911	2554	150	27.6	48.6	3.9	11.6	1.4	2.4	0.2	0.9	0.1	31.8	2.08	22.2	0.4
	121	122	7178	10810	968	2741	162	29.1	48.4	3.6	10.7	1.3	2.5	0.2	1.1	0.1	29.2	2.20	17.8	0.3

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 %	Th ppm	U ppm
	122	123	9066	13082	1226	3231	182	34.0	57.2	4.3	11.4	1.3	2.3	0.2	0.7	0.1	29.2	2.69	20.3	1.7
	123	124	5735	8427	753	2129	129	24.2	42.0	3.0	8.7	1.0	1.7	0.1	0.7	0.1	21.6	1.73	13.4	0.3
	124	125	7107	10687	999	2869	169	31.0	52.8	3.6	9.8	1.1	1.8	0.1	0.7	0.1	22.9	2.20	19.7	-0.3
	125	126	8526	12898	1232	3418	205	38.2	65.2	4.7	12.6	1.4	2.5	0.2	0.8	0.1	29.2	2.64	30.0	0.3
	126	127	5981	9483	890	2601	155	28.7	47.7	3.3	9.3	1.1	1.9	0.1	0.7	0.1	22.9	1.92	21.1	-0.3
	127	128	9746	14249	1341	3604	205	37.6	64.8	4.8	12.9	1.5	2.4	0.2	0.9	0.1	31.8	2.93	30.9	0.4
	128	129	18178	25551	2332	6450	336	59.2	93.9	6.4	16.1	1.7	2.9	0.2	1.0	0.1	33.0	5.31	40.7	0.4
	129	130	10203	14495	1323	3476	192	35.3	57.5	3.9	9.9	1.2	2.2	0.2	0.7	0.1	26.7	2.98	21.2	0.9
	130	131	8925	14004	1168	3126	187	28.6	48.5	3.4	9.0	0.9	1.6	0.2	0.7	0.1	20.3	2.75	18.4	-0.3
	131	132	7647	11842	980	2636	158	26.9	44.0	3.0	7.9	0.9	1.4	0.1	0.6	-0.1	19.1	2.34	18.0	-0.3
	132	133	10239	16829	1438	4024	245	40.1	67.8	4.6	13.1	1.3	2.2	0.2	0.7	0.1	27.9	3.29	32.2	0.4
	133	134	10426	16215	1347	3709	220	36.6	60.1	4.1	10.9	1.1	1.9	0.1	0.6	0.1	26.7	3.21	26.5	-0.3
	134	135	10837	17136	1414	3837	219	35.7	59.7	3.8	10.1	1.1	1.8	0.1	0.8	0.1	25.4	3.36	25.7	0.3
	135	136	9031	14986	1287	3616	223	38.6	64.6	4.4	12.6	1.3	2.1	0.2	0.8	0.1	31.8	2.93	35.5	0.5
	136	137	7213	12124	1066	3068	204	39.3	68.6	5.2	15.5	1.4	2.2	0.2	1.3	0.1	36.8	2.38	58.1	0.5
	137	138	8186	12530	1025	2741	161	27.0	42.4	3.2	8.7	1.0	1.5	0.1	0.7	0.1	20.3	2.47	21.3	0.3
	138	139	11259	16706	1323	3464	189	32.3	52.8	3.7	10.6	1.1	2.4	0.2	0.9	0.1	26.7	3.31	22.6	0.5
	139	140	8831	13697	1124	3021	179	31.2	51.5	3.8	11.5	1.2	1.9	0.1	0.9	0.1	27.9	2.70	32.4	0.5
	140	141	8479	12775	1035	2741	154	25.8	42.3	2.9	7.9	0.9	1.6	0.1	0.8	0.1	19.1	2.53	17.8	0.9
	141	142	15070	23954	2084	5400	322	51.5	83.7	5.3	14.5	1.3	2.4	0.2	0.9	0.1	34.3	4.70	40.7	0.7
	142	143	13018	20514	1710	4677	263	42.8	65.5	3.9	9.9	0.9	1.3	0.1	0.3	0.1	19.1	4.03	27.0	0.5
	143	144	9382	15355	1311	3639	209	33.5	51.9	3.3	8.4	0.8	1.4	0.1	0.6	0.1	16.5	3.00	20.4	0.5
	144	145	8409	13512	1164	3278	199	33.1	55.6	4.0	12.2	1.3	2.2	0.2	1.0	0.2	31.8	2.67	27.3	0.9
	145	146	6357	9594	779	2094	122	21.2	36.0	2.5	7.0	0.8	1.3	0.1	0.6	0.1	17.8	1.90	13.4	0.7
	146	147	18823	26533	2096	5634	357	56.6	93.7	6.6	17.2	1.6	2.6	0.2	0.7	-0.1	34.3	5.37	44.7	0.8
	147	148	10063	15294	1257	3406	233	44.1	77.1	5.6	15.6	1.6	2.4	0.2	1.0	0.1	35.6	3.04	32.5	0.7
	148	149	28030	47539	5244	19654	2331	381.0	571.7	31.2	74.4	6.7	9.7	0.8	3.1	0.4	130.8	10.40	698.0	1.3
	149	150	16830	30219	3250	11501	1109	192.8	288.2	15.7	37.3	3.3	5.0	0.4	1.3	0.3	64.8	6.35	359.0	0.8
<b>KGKRC047</b>	0	1	6568	11977	1167	3511	242	40.0	75.5	5.8	19.9	2.4	4.8	0.4	2.3	0.3	57.2	2.37	32.7	3.3
	1	2	3272	6130	617	1977	156	27.8	57.3	5.2	20.2	2.7	5.8	0.6	3.3	0.4	71.1	1.23	23.8	4.9
	2	3	1302	2580	272	918	100	22.5	55.8	6.3	27.5	4.2	9.4	0.9	5.4	0.6	110.5	0.54	28.4	6.3
	3	4	4656	8636	894	2764	216	37.5	76.9	6.7	25.4	3.1	6.5	0.7	3.6	0.4	86.4	1.74	41.4	4.1
	4	5	6521	11473	1156	3523	279	51.9	102.9	8.9	27.7	2.9	5.4	0.6	2.7	0.4	76.2	2.32	75.2	6.0
	5	6	10696	17935	1728	4981	377	69.7	138.3	11.1	33.7	3.5	5.6	0.5	2.4	0.3	87.6	3.61	110.0	6.4
	6	7	6403	10319	946	2811	223	42.0	81.3	6.6	21.1	2.0	3.1	0.3	1.3	0.2	44.5	2.09	58.1	5.4
	7	8	6169	10085	933	2741	219	41.5	81.7	6.5	21.0	2.1	3.3	0.3	1.0	0.2	47.0	2.04	60.8	3.1
	8	9	3436	6683	698	2228	184	32.4	61.4	5.0	14.9	1.7	2.9	0.3	1.4	0.2	38.1	1.34	36.4	4.7
	9	10	3143	6167	643	2100	176	31.6	62.7	5.0	17.6	2.3	4.2	0.4	2.4	0.3	55.9	1.24	20.7	6.3
	10	11	2873	5602	563	1785	137	25.4	48.8	3.8	13.4	1.7	3.2	0.3	1.9	0.2	40.6	1.11	21.2	6.6
	11	12	3905	7125	701	2135	144	23.4	40.9	3.0	10.3	1.1	1.7	0.1	0.9	0.1	24.1	1.41	21.2	2.2
	12	13	12138	20023	1927	5552	406	69.9	128.5	10.4	32.4	3.3	4.5	0.3	1.4	0.2	68.6	4.04	80.3	3.4
	13	14	7823	13021	1194	3464	256	49.4	99.4	8.8	26.3	2.3	3.2	0.3	0.8	0.1	49.5	2.60	97.3	2.3
	14	15	7224	12112	1126	3243	221	38.3	72.4	5.6	16.1	1.5	2.1	0.2	0.7	0.1	33.0	2.41	55.3	1.5
	15	16	5137	9631	988	3068	219	37.2	65.7	4.7	13.8	1.3	1.9	0.2	0.8	0.1	27.9	1.92	36.3	0.8
	16	17	5395	9594	938	2846	212	36.4	68.7	5.3	15.4	1.5	2.2	0.2	0.9	0.1	34.3	1.91	46.6	2.0

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 %	Th ppm	U ppm
	17	18	3741	7714	831	2706	202	33.9	58.9	4.5	12.6	1.2	1.6	0.1	0.7	0.1	25.4	1.53	41.8	1.3
	18	19	9382	15969	1516	4432	304	51.0	96.6	7.6	22.2	2.1	3.4	0.3	1.1	0.2	52.1	3.18	83.5	2.0
	19	20	8081	14065	1347	4001	291	51.6	98.6	8.1	24.2	2.3	3.3	0.3	1.3	0.2	53.3	2.80	79.8	1.5
	20	21	5735	11019	1156	3686	269	41.1	70.2	4.8	13.8	1.2	1.8	0.1	0.7	0.1	25.4	2.20	38.8	1.1
	21	22	6134	10994	1081	3301	238	40.4	75.8	5.7	16.8	1.6	2.4	0.2	0.8	0.1	34.3	2.19	48.5	3.2
	22	23	5794	10417	1032	3173	227	38.7	71.6	5.4	15.5	1.4	2.2	0.2	0.8	0.1	31.8	2.08	49.2	2.9
	23	24	6274	11191	1108	3359	235	39.3	71.5	5.5	16.5	1.7	2.3	0.2	0.8	0.1	36.8	2.23	55.9	1.9
	24	25	6380	11436	1142	3476	247	42.2	75.2	6.0	18.7	1.7	2.4	0.2	0.7	0.1	38.1	2.29	55.4	1.5
	25	26	5934	10933	1098	3394	245	40.4	73.0	5.5	15.6	1.4	2.1	0.2	0.7	0.1	33.0	2.18	54.3	1.9
	26	27	6192	11854	1192	3628	252	42.4	74.0	5.3	15.3	1.4	1.9	0.2	0.6	0.1	29.2	2.33	47.7	1.5
	27	28	5981	12591	1365	4421	317	49.0	84.5	5.6	15.2	1.4	1.8	0.2	0.8	0.1	30.5	2.49	48.5	1.4
	28	29	4586	9557	1048	3406	244	37.5	64.3	4.9	13.4	1.2	2.1	0.1	0.7	0.1	27.9	1.90	39.5	2.3
	29	30	4656	9434	994	3138	223	35.4	63.4	4.8	15.2	1.4	1.9	0.2	0.8	0.2	30.5	1.86	44.3	1.1
	30	31	7506	13021	1293	4036	286	48.2	87.9	7.0	21.4	2.0	2.9	0.2	1.0	0.2	43.2	2.64	65.7	1.2
	31	32	7506	15416	1728	5529	370	57.9	96.9	7.0	19.7	1.9	2.7	0.2	0.9	0.2	41.9	3.08	49.5	1.8
	32	33	6157	11461	1166	3721	249	40.0	72.3	5.1	13.4	1.3	1.9	0.2	0.7	0.1	27.9	2.29	37.5	1.0
	33	34	6826	12173	1232	3814	275	47.0	85.1	6.5	18.1	1.8	2.7	0.3	1.5	0.2	44.5	2.45	52.8	1.4
	34	35	6779	12173	1220	3884	283	46.3	86.1	6.9	19.6	1.8	2.9	0.3	1.4	0.2	44.5	2.45	62.3	1.2
	35	36	5512	10478	1085	3499	261	42.6	75.4	5.8	15.7	1.5	2.5	0.2	1.1	0.1	35.6	2.10	56.0	1.2
	36	37	6450	11719	1185	3756	269	45.3	80.6	6.1	17.6	1.6	2.5	0.2	1.1	0.2	38.1	2.36	59.9	1.6
	37	38	4081	7751	832	2764	211	36.1	66.0	5.7	17.3	1.5	2.4	0.2	1.3	0.2	36.8	1.58	56.4	2.4
	38	39	9101	16891	1830	5762	431	72.3	120.5	8.6	22.3	2.0	3.4	0.3	1.1	0.2	45.7	3.43	77.1	2.1
	39	40	6427	11915	1232	4012	293	47.6	80.9	5.3	13.7	1.4	2.1	0.2	1.0	0.1	31.8	2.41	49.7	1.1
	40	41	4750	8992	959	3184	246	42.6	74.0	5.6	15.5	1.4	2.2	0.2	1.3	0.2	34.3	1.83	52.6	2.3
	41	42	5770	11277	1238	4129	328	57.9	101.2	7.2	21.4	2.0	3.5	0.4	2.1	0.4	52.1	2.30	73.7	3.8
	42	43	4996	9078	939	3056	221	39.6	69.3	5.4	17.3	1.8	3.3	0.3	2.3	0.3	48.3	1.85	46.7	1.5
	43	44	5712	10908	1145	3756	276	46.0	84.1	7.4	22.5	2.1	3.2	0.3	1.6	0.2	50.8	2.20	69.6	2.7
	44	45	5301	9790	1010	3266	237	37.5	67.7	5.5	18.0	1.8	3.3	0.3	1.5	0.2	47.0	1.98	56.0	2.0
	45	46	4937	9102	945	3009	216	33.6	55.0	3.9	10.8	1.0	1.6	0.2	0.8	0.1	26.7	1.83	26.9	1.5
	46	47	3507	6461	668	2158	160	25.1	43.6	3.2	10.2	1.0	1.9	0.2	0.8	0.2	25.4	1.31	25.1	3.9
	47	48	3683	6940	744	2496	206	34.5	63.1	5.3	17.5	1.7	3.0	0.3	1.7	0.3	40.6	1.42	55.1	4.9
	48	49	2615	5258	579	2041	185	32.5	59.9	4.7	15.4	1.7	3.2	0.3	2.3	0.3	43.2	1.08	45.4	9.4
	49	50	1876	3894	419	1452	148	28.8	66.9	7.6	33.1	4.4	8.9	1.0	6.2	0.9	129.5	0.81	51.1	8.7
	50	51	436	870	103	408	63	16.4	43.7	5.2	23.0	3.7	8.8	1.0	5.5	0.7	102.9	0.21	21.1	7.8
	51	52	936	2101	244	935	116	24.9	57.3	6.3	23.1	3.0	6.6	0.9	5.0	0.8	83.8	0.45	63.6	5.0
	52	53	880	1720	184	668	83	19.8	51.2	6.2	26.6	3.9	9.0	1.1	6.0	0.8	106.7	0.38	34.0	7.5
	53	54	460	865	103	400	63	16.2	45.5	5.4	24.7	3.9	8.0	1.0	4.9	0.6	101.6	0.21	24.4	7.6
	54	55	528	1114	138	533	74	18.1	49.0	5.5	25.1	4.0	10.0	1.1	6.3	0.8	109.2	0.26	26.6	8.5
	55	56	2076	4889	581	2123	199	32.7	56.0	3.8	12.3	1.4	2.9	0.4	2.1	0.4	36.8	1.00	27.7	4.0
	56	57	2369	5344	626	2280	217	36.0	61.4	4.1	12.7	1.4	2.9	0.3	1.9	0.2	34.3	1.10	30.4	5.5
	57	58	3495	7248	817	2811	233	37.1	62.8	4.2	12.7	1.4	2.5	0.2	1.5	0.2	29.2	1.48	39.4	10.4
	58	59	6509	12591	1353	4479	357	56.9	97.5	6.8	18.5	1.8	3.1	0.3	1.5	0.2	39.4	2.55	61.7	4.3
	59	60	2697	6130	681	2426	210	37.6	61.7	4.2	11.5	1.2	1.9	0.2	1.0	0.1	24.1	1.23	30.4	5.1
	60	61	2299	5172	551	1895	165	31.8	59.0	5.0	18.1	2.6	5.5	0.6	3.6	0.4	61.0	1.03	31.0	10.4
	61	62	2967	6732	737	2613	228	41.2	70.3	5.3	16.3	1.9	3.5	0.4	2.1	0.3	41.9	1.35	38.1	5.0

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 %	Th ppm	U ppm
	62	63	3941	9496	1066	3826	340	57.0	91.5	6.0	16.6	1.7	2.5	0.2	1.0	0.1	31.8	1.89	52.3	6.2
	63	64	3296	8058	915	3289	310	56.4	97.9	7.3	23.8	3.2	6.3	0.7	4.1	0.6	76.2	1.61	49.5	9.5
	64	65	3190	7407	819	2928	264	46.7	79.2	5.3	15.6	1.7	2.7	0.3	1.5	0.2	35.6	1.48	50.7	14.8
	65	66	2920	6683	739	2613	231	40.9	67.5	5.3	14.9	1.6	2.4	0.2	1.5	0.2	34.3	1.34	47.0	11.2
	66	67	2826	6351	684	2438	217	37.9	67.0	4.9	14.2	1.6	2.4	0.2	1.5	0.2	33.0	1.27	46.8	9.9
	67	68	2615	5810	625	2222	209	37.6	64.8	4.8	13.7	1.5	2.4	0.2	1.6	0.2	31.8	1.16	42.8	10.9
	68	69	2568	5773	640	2309	213	38.2	69.2	5.5	16.1	1.8	2.7	0.3	1.6	0.2	39.4	1.17	63.4	14.2
	69	70	3413	7837	852	2974	244	40.3	67.7	4.9	13.5	1.4	2.4	0.2	1.1	0.2	31.8	1.55	53.9	22.9
	70	71	4339	10478	1238	4117	337	57.4	94.1	6.3	16.3	1.7	2.6	0.2	0.9	0.2	31.8	2.07	62.1	12.1
	71	72	2557	5700	609	2123	194	35.2	62.9	4.9	15.2	1.6	2.5	0.2	1.3	0.2	35.6	1.13	46.7	11.8
	72	73	3167	7100	752	2613	227	40.2	71.4	5.3	15.4	1.6	2.4	0.2	1.1	0.2	31.8	1.40	46.1	8.0
	73	74	2733	6167	671	2379	212	36.7	61.3	4.7	13.5	1.4	2.1	0.2	1.0	0.1	29.2	1.23	46.6	18.1
	74	75	3905	9225	1019	3546	274	45.7	72.6	4.8	13.2	1.3	2.3	0.2	0.9	0.1	26.7	1.81	39.1	10.5
	75	76	1888	4938	594	2292	230	40.8	66.6	5.1	15.2	1.6	2.5	0.3	1.4	0.2	33.0	1.01	48.4	13.1
	76	77	4281	8169	801	2589	211	37.8	64.9	5.6	16.8	1.7	2.6	0.2	1.5	0.2	36.8	1.62	47.6	11.4
	77	78	2568	5589	599	2105	182	32.8	54.8	4.3	11.7	1.3	2.1	0.2	1.0	0.1	27.9	1.12	42.3	19.4
	78	79	3425	7530	806	2811	234	39.7	67.5	5.5	16.9	1.7	2.4	0.2	0.9	0.2	34.3	1.50	53.5	9.1
	79	80	5043	10257	1083	3558	290	50.0	80.8	5.8	16.1	1.7	2.6	0.2	1.3	0.1	33.0	2.04	49.5	11.2
	80	81	4808	11289	1335	4421	382	69.1	114.3	7.9	21.4	2.1	2.9	0.2	1.4	0.1	40.6	2.25	79.7	9.0
	81	82	2357	5159	553	1948	175	32.0	55.7	4.2	12.2	1.4	2.2	0.2	1.1	0.2	29.2	1.03	52.2	23.4
	82	83	5899	12038	1275	3977	313	55.7	91.4	6.4	18.4	1.8	3.0	0.3	1.5	0.2	39.4	2.37	64.8	21.2
	83	84	3530	8230	938	3348	292	51.0	80.3	5.5	14.0	1.4	2.1	0.2	1.0	0.1	26.7	1.65	44.7	14.9
	84	85	2328	5270	567	2000	183	32.2	56.9	4.4	13.8	1.7	3.1	0.3	1.6	0.2	35.6	1.05	33.1	20.4
	85	86	1800	4091	443	1598	170	36.1	71.6	7.0	27.3	3.7	8.4	0.9	5.2	0.6	97.8	0.84	34.0	6.6
	86	87	3436	7972	863	2974	244	43.2	69.4	4.9	14.5	1.5	2.2	0.2	1.0	0.2	30.5	1.57	42.6	10.7
	87	88	2234	5049	538	1895	169	30.6	53.9	4.1	12.2	1.4	2.3	0.2	1.4	0.2	31.8	1.00	40.0	20.6
	88	89	1695	3612	371	1266	113	21.9	38.5	3.0	10.0	1.2	2.2	0.3	1.8	0.2	30.5	0.72	38.6	30.3
	89	90	1601	3636	417	1394	143	25.9	52.9	4.1	12.9	1.6	3.1	0.4	1.9	0.3	38.1	0.73	53.3	25.2
	90	91	2486	5024	547	1732	157	26.9	53.1	4.4	14.6	1.6	2.9	0.3	2.1	0.3	38.1	1.01	53.8	24.9
	91	92	2991	5970	674	2164	196	33.6	63.5	4.5	12.9	1.4	2.5	0.2	1.4	0.2	30.5	1.21	44.0	24.6
	92	93	4128	8107	884	2729	228	38.9	68.9	4.8	14.5	1.4	2.3	0.2	0.9	0.2	31.8	1.62	47.9	16.9
	93	94	3495	7125	805	2554	224	37.6	68.0	4.7	15.5	2.1	3.4	0.4	2.2	0.4	44.5	1.44	50.6	22.1
	94	95	2662	5663	661	2123	184	30.3	52.7	3.4	9.4	1.1	1.7	0.2	0.9	0.1	22.9	1.14	41.5	19.9
	95	96	3683	7493	854	2741	249	42.0	80.6	5.9	19.1	2.3	4.5	0.5	2.5	0.3	55.9	1.52	58.2	15.7
	96	97	2305	4914	553	1779	171	31.8	65.7	5.4	21.4	2.9	6.8	0.6	3.9	0.5	77.5	0.99	46.5	16.6
	97	98	3084	6019	654	2076	181	30.5	57.4	4.5	15.4	1.8	3.4	0.3	1.9	0.3	40.6	1.22	41.5	19.0
	98	99	3049	6179	692	2164	183	31.4	56.0	4.0	12.2	1.4	2.5	0.2	1.3	0.2	29.2	1.24	39.4	21.1
	99	100	3237	6339	686	2123	176	31.6	58.8	4.1	12.4	1.3	2.2	0.2	1.3	0.2	30.5	1.27	45.0	21.7
	100	101	3847	7641	855	2683	223	38.2	68.5	4.9	14.7	1.4	2.3	0.2	1.0	0.2	31.8	1.54	50.9	14.4
	101	102	3577	7493	865	2706	226	36.6	67.1	4.7	13.0	1.4	2.3	0.2	1.0	0.2	29.2	1.50	46.3	19.6
	102	103	2686	5466	593	1837	146	24.3	42.9	2.8	9.2	1.1	1.8	0.2	1.1	0.1	22.9	1.08	29.8	23.4
	103	104	2105	4607	507	1586	131	22.6	40.5	2.8	9.1	1.1	2.2	0.2	1.4	0.2	25.4	0.90	26.0	31.9
	104	105	5629	10220	1061	3021	219	37.4	69.4	5.4	17.1	1.7	3.2	0.2	1.1	0.1	39.4	2.03	59.3	18.2
	105	106	3776	6818	692	2035	158	27.0	51.2	4.4	16.5	1.7	2.7	0.2	1.1	0.2	41.9	1.36	53.0	27.3
	106	107	8257	15601	1685	5121	426	71.1	130.8	9.9	29.8	3.0	4.5	0.4	1.8	0.2	69.8	3.14	100.5	11.0



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 %	Th ppm	U ppm
	107	108	8608	15171	1534	4479	339	56.2	105.5	8.1	27.1	3.0	4.9	0.5	2.4	0.3	74.9	3.04	79.0	10.3
	108	109	4410	7837	803	2321	174	29.9	55.7	4.9	16.8	1.9	3.0	0.2	1.1	0.2	45.7	1.57	52.0	22.4
	109	110	8819	15355	1534	4316	312	52.1	97.5	7.7	25.6	2.9	4.7	0.4	1.9	0.3	69.8	3.06	68.8	6.4
	110	111	3800	6719	689	2018	162	29.2	57.2	5.2	18.6	2.3	4.5	0.4	2.1	0.3	58.4	1.36	44.1	21.8
	111	112	3096	5995	633	1965	168	28.5	51.3	3.5	11.1	1.3	2.3	0.2	1.4	0.1	29.2	1.20	36.1	21.7
	112	113	8714	15048	1540	4444	330	57.9	104.8	8.4	28.8	3.2	4.9	0.4	2.1	0.3	72.4	3.04	69.6	9.2
	113	114	2592	4754	484	1476	141	27.7	61.1	6.3	30.8	4.8	10.9	1.1	7.1	1.0	133.3	0.97	50.2	11.4
	114	115	6920	11289	1074	2916	196	32.7	64.3	5.3	18.0	2.1	3.7	0.3	2.2	0.3	50.8	2.26	44.9	10.1
	115	116	9148	14372	1317	3453	220	36.2	70.2	6.2	21.8	2.5	4.0	0.3	1.8	0.2	58.4	2.87	58.7	7.0
	116	117	9488	14741	1359	3558	216	36.9	71.7	6.4	22.6	2.6	3.8	0.3	1.4	0.2	58.4	2.96	57.7	5.8
	117	118	13135	20453	1849	4771	288	46.1	87.9	7.5	25.5	2.8	4.2	0.3	1.4	0.2	63.5	4.07	64.5	4.9
	118	119	11904	18856	1716	4491	271	44.2	82.1	7.3	25.4	2.9	4.1	0.3	1.6	0.2	64.8	3.75	65.1	5.2
	119	120	13077	22295	1994	5447	317	51.9	96.0	8.6	24.5	2.5	3.8	0.3	1.1	0.1	53.3	4.34	64.5	4.6
	120	121	9793	16583	1559	4327	270	44.5	85.0	7.2	20.3	2.0	2.7	0.2	1.1	0.2	39.4	3.27	57.5	7.2
	121	122	3647	7137	694	2327	184	32.7	60.1	4.7	16.0	1.8	3.7	0.4	2.4	0.3	45.7	1.42	43.5	10.3
	122	123	18002	30710	2815	8281	460	76.8	134.3	9.7	29.0	2.9	4.6	0.3	1.5	0.2	58.4	6.06	87.8	8.0
	123	124	13253	23033	2157	6100	376	61.5	108.7	9.0	24.0	2.3	3.5	0.2	1.1	0.2	47.0	4.52	72.0	8.4
	124	125	3683	7972	841	2951	253	49.3	104.1	9.9	39.5	5.6	12.7	1.4	7.6	0.9	142.2	1.61	54.9	15.0
	125	126	1865	4312	465	1750	180	36.4	82.2	8.4	35.5	5.2	11.4	1.2	7.1	0.8	129.5	0.89	59.8	12.0
	126	127	1261	3083	327	1248	149	36.5	88.3	9.8	45.9	6.8	15.6	1.8	10.9	1.4	180.3	0.65	55.1	12.6
	127	128	2058	4729	515	1901	173	33.2	67.1	5.5	20.5	2.7	5.6	0.5	3.4	0.5	63.5	0.96	50.7	10.8
	128	129	1982	4287	436	1563	144	28.4	60.7	5.8	21.7	2.7	5.5	0.6	3.2	0.4	66.0	0.86	55.2	7.6
	129	130	1906	4361	469	1761	170	32.1	66.0	6.0	22.7	2.9	6.6	0.6	3.9	0.4	72.4	0.89	45.8	6.9
	130	131	1923	4668	509	1901	193	39.3	85.4	8.4	34.3	4.8	11.3	1.1	6.7	0.8	121.9	0.95	65.6	6.9
	131	132	2451	6081	679	2496	199	33.8	59.9	4.1	11.9	1.2	2.1	0.2	1.1	0.2	26.7	1.20	36.4	9.6
	132	133	2088	5036	538	1849	170	28.0	46.8	3.1	10.0	1.1	2.2	0.2	0.9	0.1	25.4	0.98	26.7	12.8
	133	134	4269	9385	982	3324	368	74.9	158.5	16.5	70.7	10.9	25.2	2.7	15.7	2.0	302.2	1.90	66.2	21.4
	134	135	2604	6044	727	2566	264	51.1	106.3	9.7	36.2	4.7	10.9	1.4	7.2	1.2	123.2	1.26	63.8	11.8
	135	136	6028	14249	1728	5750	464	72.0	123.9	7.9	22.0	2.0	3.3	0.3	1.4	0.2	39.4	2.85	68.9	6.7
	136	137	6134	12898	1395	4351	297	44.8	80.1	6.3	18.6	1.7	2.6	0.2	1.0	0.2	39.4	2.53	68.3	4.1
	137	138	6966	14249	1534	4666	307	45.4	78.4	5.9	18.9	1.8	3.1	0.2	1.5	0.2	43.2	2.79	49.5	6.6
	138	139	4480	9655	1097	3604	300	48.9	88.5	6.7	19.9	1.9	2.9	0.2	1.3	0.2	44.5	1.94	65.4	6.3
	139	140	2709	5737	645	2199	242	48.8	114.3	11.7	52.3	7.4	18.0	2.1	12.1	1.4	218.4	1.20	74.6	14.0
	140	141	11447	21681	2078	6404	479	76.4	123.9	9.2	26.5	2.9	5.2	0.4	2.3	0.3	66.0	4.24	86.8	6.9
	141	142	8655	15969	1679	5074	357	53.6	89.1	6.3	16.9	1.7	3.3	0.2	1.4	0.2	39.4	3.19	48.9	10.0
	142	143	5512	10675	1112	3418	244	36.7	65.6	4.7	15.2	1.4	2.4	0.2	1.3	0.2	34.3	2.11	43.8	5.5
	143	144	4105	8439	917	2881	192	28.7	50.6	4.2	12.5	1.3	2.1	0.2	1.1	0.2	29.2	1.67	36.3	2.6
	144	145	6955	15048	1577	4782	284	44.8	76.7	6.9	20.8	2.1	3.5	0.3	1.7	0.2	45.7	2.88	44.6	4.1
<b>KGKRC048</b>	0	1	3354	6289	582	1825	120	20.8	36.4	2.6	7.6	0.8	1.6	0.2	0.7	0.1	17.8	1.23	18.1	3.0
	1	2	4586	8636	794	2484	161	28.0	50.3	4.0	11.0	1.1	2.3	0.2	0.9	0.1	25.4	1.68	26.5	2.7
	2	3	5207	9618	889	2776	179	30.3	53.4	3.6	9.5	0.9	1.7	0.1	0.7	0.1	17.8	1.88	23.6	1.6
	3	4	4820	8488	771	2414	157	27.6	49.5	3.9	10.8	1.2	1.8	0.2	1.1	0.1	25.4	1.68	29.2	0.5
	4	5	5512	9520	1014	2881	198	33.1	59.1	3.9	12.3	1.3	2.5	0.2	1.3	0.2	29.2	1.93	36.1	1.0
	5	6	6005	10380	1118	3208	213	34.9	60.1	3.8	10.6	1.1	1.7	0.2	0.7	0.1	22.9	2.11	30.4	1.1
	6	7	3706	6609	680	2129	155	26.3	50.8	3.5	11.5	1.1	1.9	0.2	0.8	0.1	24.1	1.34	42.9	0.4

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 %	Th ppm	U ppm
	7	8	4879	8537	915	2718	201	35.2	67.3	5.1	15.4	1.4	2.3	0.2	1.0	0.1	29.2	1.74	64.4	0.6
	8	9	6521	11486	1238	3663	262	46.6	87.5	6.3	19.4	1.7	2.7	0.2	1.0	0.2	35.6	2.34	73.4	1.5
	9	10	6861	12259	1323	3966	266	42.5	72.6	4.4	12.7	1.3	1.9	0.2	0.8	0.1	24.1	2.48	37.5	0.8
	10	11	7987	14311	1547	4806	311	52.6	90.3	5.8	16.4	1.6	2.7	0.2	1.1	0.1	31.8	2.92	48.7	1.0
	11	12	10051	17935	1927	5855	379	64.4	112.6	7.4	23.6	2.3	3.9	0.3	1.8	0.2	49.5	3.64	63.7	0.8
	12	13	8128	14127	1498	4526	293	51.3	90.7	6.2	18.5	1.8	3.0	0.3	1.3	0.2	39.4	2.88	61.7	0.5
	13	14	5747	9938	1048	3044	201	34.2	62.5	4.2	12.9	1.4	2.4	0.2	0.9	0.1	29.2	2.01	38.4	0.3
	14	15	4574	7935	843	2414	158	26.5	48.4	3.3	9.4	1.0	1.6	0.1	0.8	0.1	20.3	1.60	24.0	0.3
	15	16	6310	10908	1165	3359	200	32.5	54.6	3.4	10.1	1.0	1.5	0.1	0.7	0.1	19.1	2.21	21.9	0.3
	16	17	5876	10331	1099	3196	208	34.5	59.4	3.7	11.6	1.2	1.9	0.2	0.9	0.1	24.1	2.08	32.7	0.3
	17	18	5031	8599	887	2554	156	25.2	42.9	2.6	7.6	0.7	1.3	0.1	0.7	0.1	16.5	1.73	17.7	0.5
	18	19	4363	7493	774	2379	164	27.3	48.2	2.9	8.6	0.9	1.4	0.1	0.6	0.1	17.8	1.53	23.3	0.3
	19	20	6814	11707	1238	3628	241	39.8	69.6	4.2	12.3	1.2	2.1	0.2	0.9	0.1	24.1	2.38	33.6	0.4
	20	21	7154	12530	1347	4187	278	46.8	80.1	4.9	14.2	1.4	2.1	0.2	0.7	0.1	27.9	2.57	43.7	0.4
	21	22	10414	18365	1939	6007	384	61.0	104.3	6.3	19.1	1.9	3.0	0.2	1.0	0.1	35.6	3.73	52.8	0.5
	22	23	6884	12087	1250	3651	238	39.4	67.9	4.0	11.3	1.1	1.7	0.2	0.7	0.1	22.9	2.43	31.1	0.3
	23	24	6978	12468	1353	4082	256	42.2	70.5	4.2	11.5	1.0	1.8	0.1	0.6	0.1	20.3	2.53	30.3	0.9
	24	25	5512	9864	1069	3149	209	35.0	60.1	3.5	9.8	1.0	1.7	0.1	0.8	0.1	19.1	1.99	25.3	2.1
	25	26	7330	13021	1232	3791	248	43.0	72.6	4.5	11.9	1.1	2.1	0.2	0.8	0.1	24.1	2.58	28.1	0.6
	26	27	7600	13512	1305	4071	281	51.3	89.9	6.3	17.2	1.6	2.4	0.2	0.8	0.1	31.8	2.70	65.8	0.7
	27	28	10086	18119	1794	5354	351	59.1	99.5	6.1	16.3	1.6	2.4	0.2	1.3	0.2	31.8	3.59	41.2	0.8
	28	29	6779	12112	1142	3569	237	40.6	66.9	4.3	10.8	1.1	1.6	0.2	0.6	-0.1	21.6	2.40	28.3	0.6
	29	30	5536	9766	942	2986	197	33.7	55.7	3.5	9.1	0.9	1.5	0.2	0.8	0.1	17.8	1.95	21.0	1.1
	30	31	9945	17812	1643	4922	346	53.5	84.8	5.7	16.1	1.6	3.2	0.2	1.4	0.2	36.8	3.49	38.8	1.2
	31	32	30493	54541	5280	15980	1140	180.6	292.8	18.1	42.8	4.0	5.5	0.4	1.5	0.2	73.7	10.81	135.0	3.5
	32	33	22987	39186	3673	10754	744	121.6	200.6	13.0	32.9	2.8	4.0	0.3	1.3	0.2	53.3	7.78	86.1	2.6
	33	34	17182	28990	2876	8421	608	105.3	181.5	12.5	34.1	3.1	4.8	0.4	2.1	0.3	66.0	5.85	88.0	3.5
	34	35	26036	43117	4168	12655	862	144.2	239.7	14.9	36.7	3.1	4.2	0.4	1.5	0.2	58.4	8.73	107.0	3.2
	35	36	7224	12591	1207	3837	292	49.8	87.9	6.5	19.7	2.1	3.9	0.5	2.3	0.3	52.1	2.54	46.5	7.4
	36	37	12314	21067	1981	6147	430	71.7	117.6	7.6	21.1	2.0	3.3	0.3	1.5	0.2	45.7	4.22	51.3	5.2
	37	38	9289	15478	1462	4491	313	51.2	86.7	5.4	15.4	1.5	2.6	0.2	1.4	0.2	33.0	3.12	38.3	3.9
	38	39	6286	12210	1208	3721	269	42.7	68.6	4.3	11.5	1.3	2.2	0.2	1.0	0.1	25.4	2.39	30.1	3.0
	39	40	6310	11879	1208	3966	293	48.2	77.6	5.2	13.9	1.5	2.9	0.3	1.5	0.2	33.0	2.38	40.4	4.6
	40	41	9265	17996	1824	5984	439	72.1	120.5	7.5	21.8	2.1	3.5	0.4	2.1	0.2	44.5	3.58	55.2	7.8
	41	42	5149	9839	991	3278	245	38.4	63.9	3.9	11.3	1.1	1.9	0.2	1.0	0.1	24.1	1.96	32.0	9.1
	42	43	4398	8316	855	2893	227	36.1	59.6	3.7	9.2	1.1	1.9	0.2	0.9	0.2	21.6	1.68	26.6	6.0
	43	44	1531	3231	330	1144	110	22.4	46.1	4.5	17.9	2.4	6.1	0.7	3.6	0.4	67.3	0.65	36.1	6.9
	44	45	1407	2936	309	1123	122	26.8	57.6	5.6	23.0	3.3	7.2	0.8	4.7	0.6	92.7	0.61	29.8	4.9
	45	46	3342	5663	495	1499	147	30.2	60.4	6.0	22.2	3.1	6.5	0.7	4.3	0.5	82.5	1.14	34.1	4.5
	46	47	3659	6597	633	2094	234	46.4	87.6	7.6	27.8	3.6	7.3	0.7	4.0	0.4	88.9	1.35	38.5	4.0
	47	48	1052	2058	224	870	138	37.9	94.5	11.3	48.4	7.4	15.8	1.8	9.3	1.2	199.4	0.48	45.9	7.0
	48	49	663	1437	159	657	106	28.6	75.3	8.5	39.0	5.5	13.2	1.5	8.0	1.0	160.0	0.34	37.7	9.3
	49	50	815	1769	179	695	106	26.8	66.4	7.3	32.5	4.5	11.1	1.2	6.8	0.7	123.2	0.38	31.9	12.3
	50	51	1125	2328	246	963	148	36.4	88.9	9.9	41.6	5.8	13.0	1.5	8.3	1.0	156.2	0.52	40.9	9.4
	51	52	2381	4521	455	1615	193	46.0	102.5	10.5	43.3	5.8	12.7	1.4	7.5	0.9	161.3	0.96	53.9	10.0

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 %	Th ppm	U ppm
	52	53	622	1210	135	528	79	20.8	52.4	6.1	28.0	4.2	9.6	1.1	5.8	0.9	120.6	0.28	39.4	6.4
	53	54	707	1578	192	784	119	30.7	75.5	8.6	40.7	5.9	14.6	1.8	10.1	1.2	180.3	0.37	40.3	7.4
	54	55	889	1965	227	913	136	31.8	72.5	7.6	34.1	4.9	12.0	1.4	6.8	0.9	147.3	0.44	46.7	7.5
	55	56	3706	7702	846	3044	295	53.3	98.0	7.1	23.6	3.0	6.1	0.6	4.3	0.5	74.9	1.59	67.4	9.3
	56	57	3577	7125	743	2508	208	35.8	61.3	4.3	13.3	1.5	2.9	0.4	1.9	0.3	39.4	1.43	29.6	2.1
	57	58	4879	9766	1028	3441	264	43.1	68.7	4.1	11.4	1.1	1.8	0.2	1.1	0.1	24.1	1.95	28.5	1.0
	58	59	3542	7063	724	2449	197	33.0	55.3	3.5	11.1	1.2	2.1	0.2	1.1	0.2	29.2	1.41	25.7	1.9
	59	60	3178	6302	655	2234	193	35.1	67.3	5.7	21.4	2.7	6.0	0.6	3.4	0.5	73.7	1.28	34.7	3.5
	60	61	2697	5356	541	1855	160	31.3	60.7	5.3	20.4	2.7	5.8	0.6	3.5	0.5	74.9	1.08	27.9	6.1
	61	62	8022	16092	1691	5704	438	74.2	127.9	9.2	27.7	2.8	5.8	1.0	9.5	1.7	73.7	3.23	73.6	5.9
	62	63	4257	8365	878	3021	262	47.7	87.9	6.0	19.5	2.3	4.9	0.5	3.0	0.4	57.2	1.70	46.1	6.0
	63	64	2217	4410	481	1575	140	27.1	53.7	4.9	19.1	2.8	6.1	0.7	4.4	0.6	72.4	0.90	38.3	8.1
	64	65	1121	2150	230	785	94	22.2	54.3	6.4	28.9	4.4	10.4	1.1	6.4	0.8	119.4	0.46	22.3	9.0
	65	66	611	1278	140	499	72	18.1	47.4	5.6	24.1	3.6	7.7	0.8	4.7	0.5	95.2	0.28	20.2	7.9
	66	67	469	1049	117	435	66	16.9	45.3	5.5	25.4	3.9	8.9	1.0	5.7	0.7	104.1	0.24	21.6	7.8
	67	68	371	851	98	379	61	16.3	43.5	5.3	23.9	3.6	8.4	0.9	5.0	0.6	92.7	0.20	20.0	7.9
	68	69	366	864	102	397	65	18.0	47.5	5.9	26.1	3.9	8.5	0.9	5.0	0.6	101.6	0.20	20.9	7.9
	69	70	380	755	88	346	57	15.6	43.7	5.1	23.3	3.4	8.0	0.8	4.6	0.5	92.7	0.18	19.5	8.7
	70	71	369	853	98	379	60	16.0	44.7	5.2	23.4	3.6	8.0	0.8	4.7	0.5	90.2	0.20	20.3	8.8
	71	72	379	883	102	397	66	16.9	45.6	5.4	25.0	3.8	8.6	0.8	4.8	0.6	95.2	0.20	20.8	9.5
	72	73	311	705	87	343	61	16.9	45.5	5.7	25.5	4.0	9.3	0.9	5.6	0.7	102.9	0.17	20.3	9.9
	73	74	2258	4459	469	1510	139	29.2	64.3	6.5	27.3	4.0	8.5	0.9	5.4	0.7	99.1	0.91	37.1	8.3
	74	75	1882	3697	395	1289	113	22.6	47.3	4.9	21.4	3.3	7.4	0.8	4.3	0.6	82.5	0.76	27.4	5.9
	75	76	3073	6167	662	2094	161	27.0	46.9	3.3	10.4	1.3	2.3	0.2	1.4	0.2	27.9	1.23	22.8	3.3
	76	77	2463	5000	547	1744	146	25.7	48.8	3.9	14.5	1.9	3.9	0.4	2.3	0.3	48.3	1.00	23.7	9.8
	77	78	2123	4299	458	1476	118	20.6	34.6	2.7	9.5	1.2	2.7	0.3	1.7	0.2	30.5	0.86	23.8	12.0
	78	79	1841	3722	396	1277	105	20.2	39.9	3.8	16.0	2.4	6.0	0.7	4.1	0.5	66.0	0.75	25.9	6.1
	79	80	1865	3697	395	1301	127	25.9	57.6	6.2	27.4	4.0	9.2	1.0	5.8	0.7	105.4	0.76	27.4	8.5
	80	81	691	1499	166	610	83	21.0	52.9	6.3	28.9	4.6	10.3	1.1	6.4	0.8	118.1	0.33	24.9	9.4
	81	82	1159	2346	254	855	104	25.4	62.0	6.9	30.8	4.5	10.2	1.0	5.7	0.7	116.8	0.50	26.5	8.9
	82	83	532	1153	129	469	68	17.8	46.7	5.6	25.6	4.0	9.6	1.1	6.3	0.7	110.5	0.26	18.3	9.4
	83	84	1185	2309	248	834	85	18.1	41.4	4.5	20.9	3.4	8.1	1.0	7.3	1.0	96.5	0.49	27.8	13.6
	84	85	2815	5245	538	1680	132	22.9	40.2	3.3	10.7	1.1	2.1	0.2	1.4	0.2	26.7	1.05	29.5	21.1
	85	86	4187	7383	758	2245	173	29.4	50.9	4.1	12.9	1.4	2.4	0.2	1.1	0.2	29.2	1.49	38.5	15.5
	86	87	3882	7162	766	2234	169	28.3	50.0	4.1	12.6	1.2	1.8	0.1	0.8	0.1	25.4	1.43	42.8	13.1
	87	88	4011	7714	842	2484	189	31.2	54.2	4.4	13.1	1.3	2.2	0.2	1.1	0.1	30.5	1.54	43.3	8.0
	88	89	3964	7616	817	2356	177	30.1	52.8	3.9	11.7	1.1	1.8	0.2	0.8	0.1	22.9	1.51	43.9	15.0
	89	90	5512	10613	1145	3499	263	46.3	82.0	6.0	16.5	1.5	2.2	0.2	0.9	0.1	30.5	2.12	63.7	15.4
	90	91	3249	6584	683	2100	150	25.7	45.9	4.0	12.9	1.3	2.4	0.2	1.4	0.2	31.8	1.29	42.5	24.3
	91	92	3694	7198	779	2344	184	31.6	55.1	4.1	12.4	1.3	2.2	0.2	1.0	0.1	27.9	1.43	45.5	18.7
	92	93	3507	6781	724	2245	183	31.7	53.8	3.9	11.5	1.2	2.3	0.2	1.4	0.1	29.2	1.36	44.0	27.3
	93	94	5008	9962	951	2951	189	31.4	55.2	4.0	14.0	1.3	2.2	0.3	1.3	0.2	31.8	1.92	37.1	17.9
	94	95	3307	6511	617	1983	143	27.1	49.5	3.9	14.2	1.5	3.2	0.3	1.9	0.3	36.8	1.27	49.3	25.8
	95	96	3976	7309	675	2181	169	30.1	56.0	4.4	15.4	1.7	3.1	0.3	1.8	0.3	38.1	1.45	44.1	19.5
	96	97	3319	7137	735	2543	214	39.6	71.8	5.4	19.5	2.4	4.6	0.5	2.6	0.3	58.4	1.42	40.1	28.5

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 %	Th ppm	U ppm
	97	98	3952	7923	773	2589	204	33.7	57.9	3.8	12.3	1.3	2.3	0.3	1.5	0.2	29.2	1.56	34.7	20.1
	98	99	4023	7911	791	2683	231	41.6	75.8	5.7	20.2	2.2	3.9	0.4	2.2	0.3	53.3	1.58	39.4	15.2
	99	100	7975	13267	1179	3639	271	48.9	87.8	6.7	23.4	2.4	3.9	0.3	1.7	0.2	52.1	2.66	52.4	11.8
	100	101	5618	10343	994	3289	266	46.9	82.6	5.7	19.2	2.0	3.2	0.4	1.8	0.2	45.7	2.07	45.6	12.2
	101	102	4668	9188	906	3044	247	43.9	77.7	5.2	16.9	1.9	3.2	0.3	1.9	0.2	41.9	1.82	45.7	13.9
	102	103	3577	7518	752	2484	180	30.5	50.0	3.6	10.8	1.3	2.2	0.2	1.1	0.1	27.9	1.46	32.3	17.4
	103	104	4187	9139	938	3149	223	37.4	60.7	3.8	12.2	1.3	2.2	0.2	1.1	0.2	27.9	1.78	34.8	13.6
	104	105	2627	5859	616	2239	205	37.9	67.2	5.1	18.0	2.1	4.2	0.5	2.7	0.3	54.6	1.17	36.1	24.4
	105	106	4222	8218	800	2613	197	34.9	59.2	3.9	12.6	1.4	2.4	0.2	1.1	0.2	29.2	1.62	36.3	26.7
	106	107	4433	8967	883	2928	216	37.2	62.5	4.5	14.7	1.6	2.7	0.3	1.5	0.2	38.1	1.76	42.5	24.5
	107	108	4175	9029	935	3138	242	41.3	69.0	4.6	15.4	1.9	3.7	0.5	3.1	0.4	49.5	1.77	39.0	22.6
	108	109	4351	9176	923	3056	217	35.0	57.3	3.7	11.7	1.2	2.2	0.2	1.1	0.2	27.9	1.79	28.7	12.2
	109	110	5653	12100	1232	4106	295	48.5	80.0	5.4	16.9	1.6	2.6	0.3	1.7	0.2	39.4	2.36	52.0	13.5
	110	111	1648	3550	352	1219	120	25.4	58.1	5.9	25.9	3.8	9.2	1.0	5.0	0.6	102.9	0.71	35.6	13.6
	111	112	3120	6572	661	2199	158	27.0	44.7	3.1	10.2	1.1	2.2	0.3	1.3	0.1	25.4	1.28	31.3	14.5
	112	113	1501	3169	304	1068	124	29.5	69.5	7.8	37.3	5.6	13.4	1.5	8.0	0.9	153.7	0.65	56.5	8.4
	113	114	406	854	97	385	62	16.6	43.0	4.9	24.6	3.6	7.9	0.9	4.6	0.6	95.2	0.20	18.5	9.7
	114	115	376	844	95	383	59	15.3	41.3	4.7	22.5	3.4	7.6	0.9	4.8	0.5	92.7	0.20	17.4	10.0
	115	116	800	1671	175	614	72	18.1	43.9	4.8	23.1	3.3	7.9	0.9	5.1	0.6	94.0	0.35	23.0	10.2
	116	117	2393	4754	447	1429	103	20.5	38.4	3.4	13.3	2.0	4.0	0.5	2.5	0.3	49.5	0.93	33.6	26.0
	117	118	3389	6535	616	1936	128	21.7	36.9	2.4	7.6	0.9	1.8	0.2	1.1	0.2	21.6	1.27	31.4	24.2
	118	119	3096	7039	749	2613	195	30.7	48.3	2.8	8.5	0.9	1.3	0.2	0.6	0.1	17.8	1.38	47.2	31.9
	119	120	5278	10134	964	3056	213	36.4	60.2	4.1	13.0	1.5	3.2	0.3	1.8	0.3	38.1	1.98	39.5	16.2
	120	121	8104	15478	1426	4386	278	44.9	75.4	5.3	17.7	2.0	3.2	0.3	1.6	0.2	44.5	2.99	44.8	7.6
	121	122	3319	6314	567	1785	130	21.8	40.5	3.0	11.4	1.5	2.7	0.3	1.7	0.3	34.3	1.22	35.7	25.2
	122	123	2310	4336	384	1190	79	13.1	23.5	1.7	6.8	0.8	1.4	0.2	1.1	0.2	20.3	0.84	25.4	30.7
	123	124	4175	7653	727	2129	124	19.6	34.0	2.5	9.1	0.9	2.2	-0.1	1.1	0.1	26.7	1.49	24.1	19.0
	124	125	4023	7284	690	2012	123	20.3	35.9	2.5	9.5	1.0	2.5	0.1	1.4	0.1	31.8	1.42	27.9	27.5
	125	126	4937	9078	918	2671	170	27.8	47.3	3.7	13.2	1.3	2.5	0.1	1.3	0.1	35.6	1.79	37.9	24.7
	126	127	4820	9127	962	2811	191	31.5	57.8	4.6	15.0	1.5	3.0	0.1	1.6	0.2	38.1	1.81	42.7	15.1
	127	128	17651	29113	2646	7337	382	60.6	107.1	8.7	29.2	2.7	4.1	0.2	1.5	0.2	63.5	5.74	89.3	8.7
	128	129	23573	40783	3721	10334	538	85.0	144.1	10.8	32.8	3.0	4.4	0.3	1.7	0.2	69.8	7.93	101.5	10.0
	129	130	7494	13697	1275	3686	222	40.2	68.6	5.6	16.8	1.7	2.6	0.2	1.4	0.2	39.4	2.65	59.2	20.3
	130	131	3671	6854	651	1907	112	18.1	31.4	2.5	9.0	0.9	1.8	-0.1	1.3	0.1	27.9	1.33	24.1	25.8
	131	132	4175	8550	925	2788	184	29.8	49.5	3.3	11.6	1.0	2.3	0.1	1.1	0.1	29.2	1.68	32.2	19.0
	132	133	3354	6535	651	2024	138	23.0	41.7	3.0	11.5	1.3	2.6	0.1	1.6	0.1	35.6	1.28	29.6	20.8
	133	134	4128	7899	832	2426	162	26.5	45.8	3.5	12.1	1.2	2.4	0.1	1.3	0.1	34.3	1.56	37.2	24.8
	134	135	4445	8513	882	2671	194	33.7	64.3	5.3	17.9	1.8	3.4	0.2	1.8	0.2	48.3	1.69	64.5	21.0
	135	136	3401	7272	816	2484	160	25.7	42.1	3.0	10.0	1.0	2.1	-0.1	1.4	0.1	25.4	1.42	29.8	24.1
	136	137	4351	9213	939	2904	201	34.6	55.2	3.8	12.4	1.3	1.9	0.1	1.0	0.2	26.7	1.77	39.3	17.5
	137	138	4398	9741	1086	3464	235	38.1	66.2	4.8	15.2	1.4	2.7	0.1	1.6	0.2	35.6	1.91	48.3	17.6
	138	139	2721	6044	669	2274	194	35.8	70.2	5.6	21.4	2.6	5.8	0.5	4.3	0.5	74.9	1.21	59.7	33.4
	139	140	1618	3685	435	1586	158	32.0	67.4	6.6	25.1	2.8	6.1	0.5	4.2	0.6	81.3	0.77	66.8	26.0
	140	141	8057	13697	1353	4047	293	52.8	96.5	7.6	24.8	2.8	5.8	0.4	3.3	0.5	72.4	2.77	62.6	24.1
	141	142	2662	5552	592	2006	177	35.2	77.5	7.4	29.2	4.0	9.3	0.8	5.6	0.7	110.5	1.13	52.2	28.1

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 %	Th ppm	U ppm	
	142	143	2357	4963	541	1895	183	37.5	78.6	7.3	30.3	4.0	9.7	0.9	6.0	0.8	114.3	1.02	48.5	18.2	
KGKRC049	0	1	2240	4557	482	1592	122	20.7	38.5	3.2	13.3	1.7	4.0	0.3	2.9	0.3	50.8	0.91	17.0	1.9	
	1	2	4140	7911	825	2461	159	26.9	46.0	3.4	12.2	1.4	2.9	0.1	1.7	0.2	38.1	1.56	19.0	2.8	
	2	3	3917	7714	795	2461	162	25.7	44.3	3.0	10.1	1.0	2.2	-0.1	1.3	0.1	29.2	1.52	17.4	1.4	
	3	4	4562	9176	969	2928	199	33.4	59.8	4.4	14.8	1.6	3.3	0.2	2.1	0.2	45.7	1.80	21.6	2.1	
	4	5	7248	12173	1179	3383	210	33.0	57.9	4.2	14.5	1.4	3.0	0.1	1.7	0.2	40.6	2.43	24.4	2.0	
	5	6	2545	5110	527	1697	128	22.9	43.3	3.4	13.1	1.6	3.7	0.2	2.2	0.2	47.0	1.01	16.1	0.7	
	6	7	4410	8095	834	2484	170	29.6	56.8	4.5	17.2	2.0	4.2	0.2	2.3	0.2	55.9	1.62	24.1	2.6	
	7	8	5184	9594	973	2834	183	31.2	53.7	3.9	13.5	1.3	2.6	0.1	1.7	0.2	36.8	1.89	20.3	3.2	
	8	9	5242	10208	1054	3126	205	35.1	62.5	4.4	15.4	1.6	3.5	0.2	2.1	0.2	44.5	2.00	21.8	4.6	
	9	10	3413	6707	673	2129	148	24.4	43.1	3.1	10.6	1.2	2.3	0.2	1.4	0.2	29.2	1.32	14.0	4.4	
	10	11	5512	10405	1020	3138	211	34.2	55.3	3.8	13.0	1.4	2.5	0.3	1.3	0.2	33.0	2.04	23.0	2.7	
	11	12	5864	10540	1048	3301	239	37.8	66.9	4.7	15.7	1.8	3.3	0.4	2.2	0.3	45.7	2.12	26.3	3.2	
	12	13	5747	10491	1035	3243	232	40.0	69.7	5.1	16.2	1.9	4.0	0.3	2.1	0.3	48.3	2.09	29.4	2.6	
	13	14	5371	10122	1014	3243	230	35.3	61.7	4.1	13.9	1.5	2.9	0.3	1.6	0.2	38.1	2.01	25.2	1.6	
	14	15	3765	7420	737	2309	162	26.6	46.3	3.4	10.0	1.0	2.1	0.2	1.1	0.2	27.9	1.45	19.2	1.2	
	15	16	5207	10061	1023	3208	224	35.2	59.1	3.9	12.5	1.4	2.3	0.2	1.3	0.1	31.8	1.99	23.6	3.4	
	16	17	3483	6818	690	2187	154	25.7	43.3	2.9	10.4	1.2	2.2	0.2	1.3	0.1	27.9	1.34	17.2	18.6	
	17	18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	22	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27	28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28	29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30	31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31	32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	32	33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	33	34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	34	35	2826	5319	516	1586	111	17.0	31.2	2.3	7.5	0.8	1.5	0.2	0.8	0.1	21.6	1.04	11.5	-0.3	
	35	36	6357	13512	1408	4514	291	44.1	68.8	4.5	12.6	1.3	2.2	0.2	1.0	0.1	26.7	2.62	20.6	0.4	
	36	37	7764	14557	1414	4292	277	42.5	68.0	4.3	12.4	1.4	2.6	0.2	1.3	0.1	29.2	2.85	21.6	-0.3	
	37	38	3002	5651	546	1674	115	19.2	33.9	2.5	7.9	0.9	1.5	0.1	0.7	0.1	21.6	1.11	10.9	-0.3	
	38	39	3096	5798	552	1697	119	20.3	36.2	2.9	9.5	1.1	1.9	0.2	1.0	0.2	26.7	1.14	12.8	0.3	
	39	40	3952	7112	660	1960	125	19.6	32.5	2.1	6.7	0.7	1.6	0.1	0.7	0.2	17.8	1.39	13.0	1.6	
	40	41	637	1225	124	388	35	6.6	13.6	1.2	5.2	0.7	1.4	0.2	1.0	0.1	19.1	0.25	8.6	5.0	
	41	42	1618	2948	265	804	63	11.0	20.4	1.5	4.6	0.5	0.9	0.1	0.6	0.1	11.4	0.57	13.4	5.9	
	42	43	3964	6707	627	1890	128	20.3	34.6	2.5	7.8	0.9	1.6	0.2	0.9	0.1	20.3	1.34	17.4	3.5	
43	44	4093	7555	733	2263	159	24.3	42.0	2.5	7.1	0.8	1.5	0.2	0.7	0.1	17.8	1.49	24.3	4.7		



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 %	Th ppm	U ppm
	44	45	6486	11559	1127	3476	240	37.9	66.0	4.1	10.9	1.1	1.9	0.2	0.9	0.1	24.1	2.30	32.0	3.0
	45	46	5700	9938	950	2916	205	33.8	60.1	3.9	11.8	1.2	2.3	0.2	1.3	0.2	29.2	1.99	28.2	3.8
	46	47	7776	13390	1257	3791	271	46.2	84.5	6.6	21.0	2.4	4.4	0.4	2.7	0.4	58.4	2.67	33.9	2.9
	47	48	5981	9962	928	2764	192	32.7	59.7	4.2	13.8	1.5	2.9	0.3	1.5	0.2	33.0	2.00	20.7	2.5
	48	49	6837	11387	1034	2986	187	29.9	53.0	3.4	9.8	1.1	1.7	0.2	0.9	0.1	24.1	2.26	20.1	2.3
	49	50	5641	9397	876	2566	170	27.8	49.2	3.6	10.6	1.1	1.8	0.2	0.8	0.1	25.4	1.88	17.9	1.9
	50	51	6720	11338	1056	3126	203	32.7	57.3	3.9	11.9	1.3	2.4	0.2	0.9	0.1	30.5	2.26	22.7	3.8
	51	52	7060	11915	1101	3196	208	33.6	57.3	4.1	11.6	1.2	2.4	0.2	1.1	0.2	27.9	2.36	25.2	2.0
	52	53	5805	9569	973	2718	163	26.6	47.8	3.2	9.3	1.0	1.7	0.1	0.8	0.1	21.6	1.93	18.8	2.4
	53	54	7213	11805	1190	3406	207	33.6	58.7	3.8	11.7	1.3	2.2	0.2	0.8	0.1	25.4	2.40	22.6	0.9
	54	55	8421	13635	1353	4082	247	43.2	79.9	5.5	18.5	2.0	3.5	0.3	1.5	0.2	43.2	2.79	26.2	1.9
	55	56	10649	16829	1673	4817	278	45.5	77.5	4.8	14.9	1.6	2.7	0.2	1.0	0.1	31.8	3.44	33.8	2.2
	56	57	12842	19532	1861	5260	293	50.5	88.3	5.5	16.3	1.7	3.1	0.2	1.3	0.2	34.3	4.00	37.5	0.8
	57	58	10414	16215	1589	4479	255	42.5	73.9	4.9	16.8	1.8	3.2	0.3	1.5	0.2	39.4	3.31	30.3	1.6
	58	59	6110	10859	1023	2986	224	36.9	67.1	5.3	17.0	2.0	3.7	0.4	2.4	0.3	48.3	2.14	25.3	2.2
	59	60	6333	11400	1070	3126	235	38.4	68.8	5.8	16.6	2.0	3.7	0.4	2.2	0.2	47.0	2.23	25.0	2.9
	60	61	5102	9090	861	2566	200	31.3	57.6	4.7	16.2	2.1	4.1	0.4	2.4	0.4	57.2	1.80	22.7	4.4
	61	62	6028	10626	1005	2858	213	33.7	60.4	4.9	14.5	1.8	2.9	0.3	1.7	0.2	41.9	2.09	23.3	2.4
	62	63	5067	8648	813	2344	172	28.6	50.6	4.3	12.3	1.4	2.6	0.3	1.4	0.1	34.3	1.72	19.5	2.5
	63	64	3530	6240	604	1831	164	29.3	60.6	6.0	22.2	3.3	6.8	0.7	3.8	0.5	86.4	1.26	36.3	3.8
	64	65	7095	12714	1263	3523	250	38.3	68.0	5.1	14.2	1.7	2.6	0.2	1.1	0.1	34.3	2.50	30.1	2.5
	65	66	5981	10994	1126	3184	231	35.9	62.7	4.7	13.7	1.6	2.6	0.2	1.1	0.2	33.0	2.17	29.1	1.5
	66	67	10755	18733	1879	5027	348	53.7	88.8	6.1	16.0	1.8	2.6	0.2	0.9	0.2	34.3	3.69	46.9	1.7
	67	68	11552	20453	2018	5949	391	58.2	97.3	6.4	17.0	1.7	2.6	0.2	1.0	0.1	35.6	4.06	57.2	1.4
	68	69	9535	17136	1704	4677	332	51.1	86.5	6.1	15.3	1.7	2.7	0.2	1.1	0.1	34.3	3.36	42.8	1.4
	69	70	7858	13942	1383	3744	267	41.1	68.1	4.9	12.6	1.4	2.5	0.2	1.3	0.1	29.2	2.74	33.6	2.2
	70	71	8960	16215	1649	4526	317	46.9	79.1	5.5	14.2	1.4	2.5	0.2	1.0	0.1	30.5	3.18	35.0	2.1
	71	72	5641	9925	954	2799	213	33.8	58.1	4.6	13.7	1.7	3.1	0.3	1.6	0.2	38.1	1.97	23.5	3.0
	72	73	4984	9102	888	2636	213	36.5	68.5	5.8	20.7	2.8	5.5	0.6	3.3	0.5	73.7	1.80	29.1	3.2
	73	74	5653	10331	986	2916	218	34.5	59.5	4.4	13.8	1.8	3.2	0.3	1.9	0.2	41.9	2.03	24.0	1.7
	74	75	2322	4508	449	1376	119	21.8	43.8	4.2	15.5	2.3	4.7	0.5	3.4	0.5	59.7	0.89	18.7	3.3
	75	76	4187	7886	779	2379	199	33.4	61.6	5.3	19.1	2.7	5.6	0.7	3.9	0.5	72.4	1.56	24.2	1.8
	76	77	4504	8206	799	2356	187	31.2	56.0	4.8	15.8	2.2	4.2	0.4	2.7	0.3	53.3	1.62	22.0	2.1
	77	78	6251	10736	1009	2916	222	36.7	67.2	5.6	17.7	2.2	3.7	0.4	2.2	0.3	53.3	2.13	24.8	1.8
	78	79	6744	11817	1157	3219	246	41.7	78.2	6.3	19.5	2.3	4.1	0.4	1.8	0.3	55.9	2.34	25.5	2.2
	79	80	7201	12714	1208	3453	245	38.9	69.7	5.5	16.8	2.0	3.5	0.4	1.7	0.3	48.3	2.50	27.6	2.6
	80	81	6251	11289	1113	3219	241	38.2	68.0	5.2	15.5	1.8	3.2	0.3	1.7	0.2	43.2	2.23	27.1	2.2
	81	82	7635	13451	1335	3709	271	43.2	74.9	5.8	16.5	1.9	3.1	0.3	1.6	0.2	44.5	2.66	31.6	2.0
	82	83	5629	10306	985	2904	217	35.8	62.8	4.9	14.5	1.8	3.1	0.3	1.9	0.2	39.4	2.02	24.2	2.2
	83	84	9594	16645	1595	4316	304	47.5	80.7	6.1	16.1	1.7	3.2	0.2	1.3	0.2	36.8	3.26	38.8	2.0
	84	85	5899	10626	1057	3044	225	35.2	62.4	4.5	13.5	1.6	2.6	0.3	1.4	0.2	34.3	2.10	26.7	2.5
	85	86	4832	9225	905	2718	215	33.7	59.7	4.9	16.3	2.1	3.8	0.4	2.5	0.3	52.1	1.81	27.0	5.2
	86	87	5676	10380	1017	2986	230	38.2	69.6	5.4	18.3	2.3	4.4	0.5	2.5	0.4	55.9	2.05	27.2	4.0
	87	88	4785	8955	874	2659	224	38.2	73.3	5.9	20.0	2.5	4.8	0.5	2.4	0.3	61.0	1.77	26.0	3.7
	88	89	2258	4508	458	1481	123	21.7	48.1	4.4	16.1	2.1	4.4	0.4	2.3	0.3	53.3	0.90	17.8	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 %	Th ppm	U ppm
	89	90	941	2008	208	716	75	16.9	42.9	4.5	20.0	3.0	6.4	0.7	3.9	0.5	78.7	0.41	25.0	5.3
	90	91	2838	5196	509	1598	135	24.9	54.9	4.8	17.9	2.3	4.8	0.5	2.5	0.3	57.2	1.04	16.4	3.7
	91	92	4187	7923	782	2449	188	31.7	62.1	4.9	17.7	2.1	4.0	0.4	2.3	0.3	53.3	1.57	19.8	2.1
	92	93	3847	7149	703	2187	167	27.8	54.1	4.6	15.4	1.9	3.4	0.4	2.3	0.3	48.3	1.42	21.1	2.6
	93	94	3518	6437	640	2006	153	26.2	56.3	5.1	19.7	2.5	4.9	0.5	3.0	0.4	64.8	1.29	24.5	4.6
	94	95	5653	10061	941	2788	198	33.2	60.3	4.3	13.7	1.5	2.9	0.2	1.1	0.2	33.0	1.98	20.4	2.5
	95	96	6286	11522	1103	3278	220	36.5	61.1	4.4	12.5	1.4	2.4	0.2	0.9	0.1	29.2	2.26	24.3	2.2
	96	97	5043	9569	925	2776	201	33.6	57.9	4.2	12.6	1.5	2.7	0.3	1.4	0.2	34.3	1.87	24.2	4.3
	97	98	4973	8808	880	2881	204	37.4	61.8	4.5	14.2	1.9	3.2	0.3	1.7	0.3	41.9	1.79	22.6	3.7
	98	99	4668	8341	831	2694	184	34.3	57.9	4.1	13.0	1.6	3.0	0.3	1.7	0.2	36.8	1.69	21.2	3.6
	99	100	5008	9729	967	2916	194	29.9	48.2	3.3	8.6	0.9	1.7	0.2	1.0	0.1	20.3	1.89	22.8	4.2
	100	101	3518	6928	673	2000	135	20.8	35.0	2.3	6.7	0.8	1.1	0.1	0.7	0.1	15.2	1.33	13.6	1.3
	101	102	3049	5995	582	1767	128	21.2	36.5	2.7	9.0	1.1	2.2	0.2	1.4	0.2	25.4	1.16	16.6	3.0
	102	103	1677	3415	349	1100	94	17.7	36.5	3.3	13.5	1.9	4.2	0.5	2.4	0.4	49.5	0.68	17.6	3.5
	103	104	2228	4250	449	1540	118	22.6	43.5	4.5	15.3	2.0	3.8	0.4	2.6	0.4	53.3	0.87	52.5	2.9
	104	105	1982	3587	362	1207	98	20.4	41.2	4.0	16.8	2.7	5.4	0.6	3.6	0.5	73.7	0.74	28.8	4.9
	105	106	3425	6818	668	1995	129	20.2	33.0	2.2	6.2	0.7	1.1	0.1	0.6	0.1	14.0	1.31	12.6	1.5
	106	107	3342	6732	669	2041	139	21.9	35.4	2.2	6.4	0.7	1.3	0.1	0.6	0.1	15.2	1.30	13.9	2.2
	107	108	3870	7899	789	2368	154	22.6	34.7	2.2	6.2	0.6	1.1	0.1	0.5	0.1	12.7	1.52	12.8	1.1
	108	109	4070	8107	795	2403	162	25.4	40.7	2.7	7.2	0.8	1.5	0.1	0.7	0.1	16.5	1.56	16.0	1.0
	109	110	4175	7837	799	2578	156	25.9	38.8	2.3	7.4	0.8	1.5	0.1	0.6	0.1	15.2	1.56	16.3	0.4
	110	111	4738	9704	962	2881	181	27.1	43.7	2.9	8.4	0.9	1.4	0.1	0.9	0.1	19.1	1.86	20.5	0.6
	111	112	3636	7321	735	2228	135	19.3	35.7	2.3	6.3	0.6	1.0	0.1	0.3	0.1	12.7	1.41	12.8	-0.3
	112	113	4421	8771	888	2718	165	23.7	40.5	2.5	6.7	0.7	1.0	0.1	0.6	0.1	15.2	1.71	14.0	-0.3
	113	114	4644	9643	962	2939	183	26.3	44.8	2.8	7.4	0.8	1.1	0.1	0.5	0.1	15.2	1.85	16.8	0.3
	114	115	4691	9520	940	2834	173	25.6	45.0	2.8	7.4	0.7	1.3	0.1	0.5	0.1	15.2	1.83	15.8	-0.3
	115	116	4562	8918	866	2566	148	22.1	39.4	2.9	7.8	0.9	1.5	0.2	0.7	0.1	17.8	1.72	16.6	0.3
	116	117	3554	7223	718	2170	136	20.7	34.8	2.4	7.0	0.7	1.0	0.1	0.5	0.1	14.0	1.39	15.2	-0.3
	117	118	4046	8279	822	2449	150	22.0	35.4	2.2	5.9	0.6	1.1	0.1	0.6	0.1	12.7	1.58	14.4	-0.3
	118	119	4609	9434	907	2753	169	25.5	41.7	2.9	7.7	0.7	1.5	0.2	0.6	0.1	17.8	1.80	19.6	-0.3
	119	120	7600	14679	1444	4257	279	45.3	73.3	5.0	13.8	1.3	2.6	0.2	0.9	0.1	27.9	2.84	40.5	0.8
	120	121	8608	16092	1607	4537	310	50.7	85.4	5.7	15.5	1.5	2.9	0.2	1.0	0.1	30.5	3.13	51.6	0.5
	121	122	6626	13390	1359	3942	260	40.8	67.0	4.3	11.4	1.1	2.1	0.2	0.9	0.1	22.9	2.57	29.9	0.3
	122	123	5512	10208	1020	3243	195	32.4	47.7	2.8	8.3	1.0	1.6	0.2	0.7	0.1	20.3	2.03	23.2	0.3
	123	124	4527	8267	841	2683	154	25.5	37.6	2.2	6.9	0.7	1.1	0.1	0.5	0.1	16.5	1.66	18.1	-0.3
	124	125	7482	14495	1383	3989	233	33.6	52.8	3.6	9.6	0.9	1.5	0.1	0.7	0.1	20.3	2.77	24.3	0.3
	125	126	7588	14557	1395	3814	215	33.2	55.0	4.1	11.5	1.0	2.1	0.2	1.0	0.1	22.9	2.77	34.7	4.0
	126	127	6110	11707	1118	3138	186	29.2	47.0	3.5	10.3	1.0	1.7	0.1	0.8	0.1	20.3	2.24	33.4	4.0
	127	128	6169	11608	1093	3103	183	29.3	53.0	4.4	13.5	1.3	2.5	0.2	1.0	0.2	29.2	2.23	46.6	0.7
	128	129	8468	16522	1613	4491	255	38.1	60.5	4.4	11.7	1.2	2.2	0.1	0.7	0.1	25.4	3.15	32.5	0.8
	129	130	6427	13082	1329	3837	235	37.1	59.0	3.6	9.5	0.9	1.6	0.1	0.7	0.1	19.1	2.50	27.7	0.5
	130	131	5641	11154	1069	3056	183	28.4	46.6	3.5	9.9	1.0	1.7	0.1	0.8	0.1	22.9	2.12	27.1	0.6
	131	132	7541	14986	1492	4187	260	43.1	75.2	6.2	18.6	1.7	2.5	0.2	0.9	0.2	36.8	2.87	63.0	0.8
	132	133	14367	23892	2217	5937	328	54.9	96.4	7.4	20.4	1.9	2.6	0.2	0.8	0.1	38.1	4.70	70.4	1.2
	133	134	14484	22664	2060	5424	306	56.7	104.5	8.3	24.0	2.4	3.2	0.3	1.0	0.2	50.8	4.52	81.2	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 %	Th ppm	U ppm
	134	135	8315	13758	1196	3371	189	34.4	60.3	5.0	16.3	1.7	2.2	0.2	0.9	0.1	38.1	2.70	43.7	1.2
	135	136	7482	13451	1238	3604	199	33.5	58.0	4.7	15.6	1.6	2.1	0.2	1.0	0.1	34.3	2.61	42.6	0.9
	136	137	5383	9962	953	2916	170	27.6	43.5	2.8	6.7	0.7	1.3	0.1	0.6	0.1	14.0	1.95	17.0	0.3
	137	138	5782	11424	1096	3429	212	35.0	57.3	3.7	9.8	1.0	1.4	0.1	0.6	0.1	17.8	2.21	28.3	0.4
	138	139	13370	25796	2501	7348	412	65.7	104.5	6.7	17.2	1.7	2.7	0.2	0.9	0.1	34.3	4.97	52.0	0.9
	139	140	10590	20944	2163	6264	365	56.6	90.5	5.4	13.3	1.3	1.8	0.2	0.9	0.1	25.4	4.05	32.8	0.3
	140	141	8092	16031	1577	4829	282	46.0	73.3	4.5	11.0	1.1	1.7	0.2	0.8	0.1	21.6	3.10	27.2	-0.3
	141	142	7436	14065	1365	4187	244	39.1	63.4	3.9	10.6	1.1	1.7	0.2	0.8	0.1	22.9	2.74	25.1	0.3
	142	143	4117	7751	756	2368	159	28.3	50.8	3.6	10.0	1.0	1.4	0.1	0.5	0.1	19.1	1.53	41.3	0.3
	143	144	5336	9594	916	2834	184	30.2	49.7	3.1	8.4	0.9	1.3	0.1	0.7	0.1	17.8	1.90	21.0	0.4
	144	145	11845	19654	1836	5319	357	62.9	108.7	6.9	18.9	2.0	2.7	0.2	1.0	0.1	35.6	3.93	43.7	0.5
	145	146	12490	20391	1957	5564	372	67.0	114.0	7.1	19.4	1.8	2.7	0.2	1.0	0.1	35.6	4.10	43.6	0.6
	146	147	16126	25796	2392	6660	431	76.9	133.7	8.6	24.6	2.5	3.7	0.3	1.6	0.2	50.8	5.17	53.3	0.7
	147	148	15246	24445	2241	6240	421	69.4	120.5	7.6	21.4	2.0	3.2	0.2	0.9	0.1	43.2	4.89	51.1	0.6
	148	149	14660	24814	2362	6823	468	76.2	126.2	8.1	20.4	1.9	3.1	0.3	0.9	0.1	39.4	4.94	56.9	0.6
	149	150	10626	18180	1746	5074	362	59.5	103.6	7.0	20.7	2.0	3.3	0.2	1.1	0.2	45.7	3.62	44.8	0.7
	150	151	15891	27148	2634	7535	524	84.6	141.8	9.0	25.0	2.5	3.8	0.3	1.1	0.1	50.8	5.41	67.6	1.0
<b>KGKRC050</b>	0	1	6357	12063	1197	3732	276	46.0	81.7	5.7	18.9	2.4	4.4	0.5	2.4	0.4	57.2	2.38	38.3	2.1
	1	2	4468	8427	841	2636	195	33.8	59.7	4.4	15.2	1.7	3.1	0.3	2.3	0.2	44.5	1.67	27.7	2.2
	2	3	4163	7985	794	2508	187	32.0	58.0	4.5	14.8	1.9	3.7	0.4	2.5	0.3	47.0	1.58	25.4	3.2
	3	4	3753	7223	713	2245	167	27.8	48.9	3.5	11.8	1.4	2.7	0.3	1.7	0.2	36.8	1.42	24.1	2.0
	4	5	3905	7223	691	2117	153	25.9	46.1	3.3	10.3	1.2	2.3	0.2	1.1	0.2	29.2	1.42	20.0	1.1
	5	6	4234	7874	754	2315	164	28.3	49.5	3.7	11.5	1.3	2.7	0.2	1.5	0.2	33.0	1.55	22.3	1.2
	6	7	3917	7751	774	2438	179	29.8	54.3	4.3	13.1	1.6	2.9	0.3	1.4	0.2	40.6	1.52	16.8	0.7
	7	8	4703	8918	875	2706	183	30.8	55.1	3.9	12.2	1.3	2.3	0.2	1.3	0.1	31.8	1.75	21.9	0.6
	8	9	8362	14741	1377	4082	274	45.6	76.9	5.0	14.5	1.4	2.3	0.2	1.0	0.1	29.2	2.90	40.1	0.5
	9	10	3601	6805	662	2059	140	22.5	39.1	2.9	9.2	1.1	1.7	0.2	0.8	0.1	22.9	1.34	14.8	0.3
	10	11	9500	15785	1426	4106	257	40.2	68.7	4.6	13.9	1.6	2.1	0.2	0.8	0.1	30.5	3.12	29.9	0.3
	11	12	13135	21374	1939	5284	325	51.1	86.9	6.0	17.2	1.8	2.6	0.2	0.9	0.1	36.8	4.23	43.9	0.4
	12	13	3155	5884	568	1755	128	21.5	39.4	3.1	11.7	1.5	3.1	0.4	2.5	0.3	44.5	1.16	16.0	-0.3
	13	14	2246	4459	439	1388	105	18.1	32.7	2.8	10.8	1.4	3.0	0.3	2.4	0.3	39.4	0.87	16.6	-0.3
	14	15	4304	8169	789	2414	169	28.1	48.1	3.7	11.9	1.3	2.2	0.2	1.1	0.2	31.8	1.60	27.5	0.3
	15	16	4808	8980	872	2683	183	29.1	48.9	3.2	9.3	1.1	1.6	0.1	0.7	0.1	22.9	1.76	22.8	-0.3
	16	17	3131	5835	557	1697	115	18.5	29.1	1.9	5.4	0.6	0.9	0.1	0.5	-0.1	12.7	1.14	12.2	-0.3
	17	18	3999	7395	707	2146	144	22.8	37.2	2.4	6.7	0.7	1.4	0.1	0.8	0.1	16.5	1.45	14.6	-0.3
	18	19	3272	6142	592	1802	128	21.2	36.9	2.5	7.8	0.8	1.5	0.2	0.6	0.1	20.3	1.20	18.5	-0.3
	19	20	9863	16706	1510	4374	284	46.3	78.4	5.5	16.1	1.5	2.5	0.2	1.0	0.1	35.6	3.29	34.5	-0.3
	20	21	17885	28745	2610	7138	424	65.4	106.3	6.8	18.5	1.7	2.2	0.2	0.7	0.1	34.3	5.70	41.8	0.4
	21	22	20114	32553	2948	8153	489	76.2	126.2	7.8	21.1	2.1	3.1	0.2	0.8	0.1	43.2	6.45	52.3	0.3
	22	23	8339	14802	1377	4082	267	42.6	71.6	4.7	13.8	1.5	2.1	0.2	0.9	0.1	33.0	2.90	29.9	0.3
	23	24	3905	7211	702	2193	166	28.5	53.1	4.2	14.0	1.7	3.2	0.3	1.8	0.3	41.9	1.43	18.3	-0.3
	24	25	1970	3992	396	1271	106	19.1	36.1	3.1	10.9	1.6	3.3	0.4	2.3	0.3	43.2	0.79	13.0	0.4
	25	26	3096	6117	604	1895	143	23.3	40.9	3.0	10.4	1.2	2.4	0.2	1.3	0.2	33.0	1.20	18.6	-0.3
	26	27	2662	5159	480	1493	106	18.0	32.3	2.4	7.5	0.9	1.6	0.2	0.8	0.1	21.6	1.00	15.5	-0.3
	27	28	1636	3354	314	1003	77	12.5	23.2	2.2	6.0	0.9	1.6	0.4	1.0	0.4	17.8	0.64	11.2	-0.3

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 %	Th ppm	U ppm
	28	29	1865	3771	349	1101	83	14.4	25.7	2.1	7.0	0.9	2.1	0.2	1.1	0.2	24.1	0.72	12.2	-0.3
	29	30	2744	5491	513	1656	129	21.0	38.3	3.0	9.6	1.1	2.3	0.3	1.5	0.2	30.5	1.06	13.9	-0.3
	30	31	5266	10024	924	2893	210	33.4	59.4	4.3	12.1	1.4	2.4	0.2	1.1	0.2	30.5	1.95	26.7	0.3
	31	32	3038	5810	539	1726	137	23.9	45.6	3.5	11.0	1.4	2.7	0.3	1.4	0.2	34.3	1.14	19.6	-0.3
	32	33	5442	10613	1000	3126	219	33.4	59.7	4.0	10.9	1.1	1.6	0.2	0.9	0.1	24.1	2.05	25.6	-0.3
	33	34	2580	5049	469	1452	106	17.4	31.7	2.5	7.8	0.8	1.7	0.1	0.9	0.1	21.6	0.97	14.4	-0.3
	34	35	2604	5417	552	1820	125	20.3	35.5	2.4	7.6	0.9	1.5	0.1	0.7	0.1	19.1	1.06	18.3	-0.3
	35	36	4292	9139	911	3009	201	32.0	54.5	3.3	10.0	1.0	1.6	0.1	0.8	0.1	24.1	1.77	30.4	-0.3
	36	37	3436	7383	724	2391	164	26.5	44.0	3.0	9.2	0.9	1.5	0.1	0.9	0.1	22.9	1.42	25.8	-0.3
	37	38	3905	7346	759	2344	178	29.5	53.8	3.9	12.9	1.3	2.4	0.3	1.4	0.2	34.3	1.47	24.3	-0.3
	38	39	4926	8906	919	2811	205	33.4	60.1	4.3	13.1	1.4	2.9	0.3	1.8	0.3	38.1	1.79	22.5	-0.3
	39	40	11693	18672	1788	5202	365	57.9	99.6	6.7	17.9	1.8	3.3	0.2	1.4	0.2	39.4	3.79	57.8	0.3
	40	41	4504	8574	802	2519	179	27.4	50.7	3.7	11.0	1.3	2.1	0.2	1.1	0.2	29.2	1.67	28.8	-0.3
	41	42	4820	9434	895	2811	205	32.5	61.2	4.7	14.8	1.7	3.0	0.3	1.5	0.2	39.4	1.83	30.8	0.3
	42	43	4210	8071	749	2304	164	25.7	46.1	3.3	10.2	1.1	1.8	0.1	0.9	0.1	25.4	1.56	24.0	0.3
	43	44	4351	8292	774	2426	177	28.1	50.0	3.7	11.4	1.2	2.3	0.2	1.1	0.2	31.8	1.62	28.6	0.3
	44	45	1771	3587	330	1056	79	13.2	25.4	2.1	6.9	0.8	1.7	0.2	0.9	0.1	22.9	0.69	10.2	-0.3
	45	46	11904	21558	2018	5902	424	68.2	121.0	8.1	21.6	2.2	3.8	0.3	1.1	0.2	45.7	4.21	58.2	0.3
	46	47	4515	8341	768	2414	190	30.7	57.9	4.3	11.9	1.3	2.1	0.2	1.0	0.1	27.9	1.64	35.1	-0.3
	47	48	12314	24445	2398	7092	475	73.9	132.6	8.9	24.3	2.4	3.9	0.3	1.5	0.2	53.3	4.70	45.5	0.3
	48	49	3084	6019	574	1866	160	27.9	57.1	4.6	15.2	1.7	3.0	0.3	1.6	0.2	40.6	1.19	46.4	0.3
	49	50	3425	6375	590	1866	146	25.1	47.0	4.3	13.4	1.5	3.0	0.3	1.7	0.3	38.1	1.25	31.8	-0.3
	50	51	5735	10834	1015	3103	232	36.7	59.8	4.4	12.5	1.2	2.4	0.2	1.1	0.1	30.5	2.11	31.4	-0.3
	51	52	4328	8132	762	2257	168	28.5	46.2	3.2	9.9	1.1	2.1	0.2	0.9	0.1	25.4	1.58	19.2	-0.3
	52	53	4316	7972	729	2239	162	26.6	48.4	3.7	9.9	1.1	2.1	0.2	0.9	0.2	26.7	1.55	21.5	-0.3
	53	54	4246	8378	795	2496	184	30.0	56.8	4.3	13.3	1.5	2.5	0.3	1.3	0.2	36.8	1.62	19.4	-0.3
	54	55	3084	5921	556	1767	131	21.5	40.8	2.9	8.0	0.8	1.7	0.1	0.6	0.1	20.3	1.16	20.1	-0.3
	55	56	2932	5638	521	1627	125	21.1	39.1	2.8	8.7	0.9	1.4	0.2	0.8	0.1	20.3	1.09	21.2	-0.3
	56	57	1478	2973	294	881	74	13.8	24.0	1.9	5.9	0.7	1.0	0.1	0.6	0.1	15.2	0.58	14.5	0.4
	57	58	4386	8402	849	2496	195	32.1	57.3	4.1	11.5	1.2	1.9	0.1	0.9	0.1	26.7	1.65	29.8	0.3
	58	59	5231	9999	997	2881	216	35.3	59.2	4.4	11.9	1.4	2.3	0.2	0.9	0.1	29.2	1.95	27.3	0.3
	59	60	6603	13021	1275	3837	261	41.6	71.0	5.0	13.7	1.4	2.3	0.2	0.9	0.1	30.5	2.52	31.7	0.3
	60	61	11142	19839	1800	5132	326	52.0	86.9	6.1	16.4	1.6	2.3	0.2	1.0	0.1	34.3	3.84	37.5	0.3
	61	62	5067	9582	951	2671	196	31.6	55.4	3.9	10.4	1.2	1.9	0.2	0.8	0.1	25.4	1.86	19.3	-0.3
	62	63	8784	16645	1601	4829	340	54.7	90.6	6.0	16.6	1.7	2.9	0.3	1.4	0.2	38.1	3.24	53.8	0.7
	63	64	8432	15478	1613	4211	303	48.1	84.0	6.1	16.8	1.8	2.9	0.3	1.0	0.2	38.1	3.02	29.9	0.3
	64	65	5055	9532	947	2694	205	33.4	58.2	4.0	11.6	1.2	2.1	0.2	1.0	0.1	25.4	1.86	25.4	-0.3
	65	66	13604	25428	2598	7500	501	78.4	129.1	8.5	23.0	2.4	3.8	0.3	1.5	0.2	47.0	4.99	50.0	0.3
	66	67	5970	11621	1208	3301	254	42.0	70.5	5.3	14.7	1.7	3.0	0.3	1.6	0.2	39.4	2.25	28.6	-0.3
	67	68	7131	13451	1414	3791	275	44.9	77.5	5.3	15.0	1.8	3.1	0.3	1.5	0.2	36.8	2.62	28.1	0.3
	68	69	3213	6240	600	1820	135	23.4	40.2	2.9	9.5	1.1	2.1	0.2	1.1	0.1	25.4	1.21	14.2	-0.3
	69	70	5500	10626	1079	2998	225	36.8	65.1	4.9	13.4	1.5	3.0	0.3	1.5	0.3	35.6	2.06	23.0	-0.3
	70	71	5266	10134	1020	2928	231	38.6	65.6	4.8	13.4	1.6	2.7	0.3	1.5	0.2	36.8	1.97	24.8	-0.3
	71	72	4433	7751	725	2210	164	27.7	45.5	3.1	11.4	1.4	2.3	0.2	1.4	0.2	31.8	1.54	21.7	-0.3
	72	73	4832	8537	818	2519	181	30.5	52.1	3.6	12.9	1.5	2.6	0.2	1.5	0.2	34.3	1.70	25.0	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 %	Th ppm	U ppm
	73	74	6697	12038	1150	3488	242	39.6	60.9	3.7	12.9	1.3	1.9	0.2	1.0	0.2	29.2	2.38	33.9	0.3
	74	75	9206	16645	1577	4677	310	50.3	72.6	4.5	15.2	1.7	3.1	0.2	1.5	0.2	36.8	3.26	28.8	0.5
	75	76	6052	10540	996	2928	177	27.3	41.5	2.3	8.2	0.9	1.7	0.2	1.0	0.2	21.6	2.08	14.9	0.6
	76	77	7846	13697	1287	3849	250	40.1	61.7	3.9	12.2	1.4	2.1	0.2	1.0	0.1	27.9	2.71	26.6	0.4
	77	78	9640	16768	1607	4736	311	49.0	73.8	4.4	14.5	1.6	2.5	0.2	1.1	0.2	34.3	3.32	32.0	0.4
	78	79	13663	22787	2205	6100	390	64.7	100.3	6.0	20.1	2.1	3.1	0.2	1.6	0.2	44.5	4.54	48.3	0.6
	79	80	10039	16031	1438	4211	283	47.4	74.7	5.1	17.9	2.0	3.7	0.4	1.9	0.3	48.3	3.22	61.9	0.6
	80	81	15012	23892	2241	6194	398	69.9	111.8	7.3	20.2	2.1	3.1	0.2	1.0	0.2	40.6	4.80	51.7	0.4
	81	82	10391	16829	1528	4456	292	46.9	73.7	4.9	16.0	1.7	2.7	0.2	1.1	0.1	35.6	3.37	47.9	0.3
	82	83	8550	13574	1214	3499	230	37.9	59.6	4.1	12.2	1.3	2.2	0.2	0.8	0.1	30.5	2.72	39.7	0.3
	83	84	5981	10441	992	2986	204	33.5	49.9	3.2	10.2	1.2	1.6	0.1	0.9	0.1	25.4	2.07	24.8	0.3
	84	85	9324	16276	1637	4771	336	53.5	80.0	4.5	14.4	1.5	2.4	0.2	0.7	0.1	30.5	3.25	36.4	0.3
	85	86	4726	8353	807	2519	188	31.3	49.7	3.4	10.6	1.3	2.1	0.1	0.9	0.1	26.7	1.67	23.8	-0.3
	86	87	3730	6904	702	2304	198	34.9	60.3	4.3	14.0	1.6	2.5	0.2	1.0	0.2	34.3	1.40	53.9	2.1
	87	88	3776	6719	661	2088	172	33.0	60.4	4.9	20.9	3.1	6.4	0.7	4.1	0.6	78.7	1.36	34.0	9.4
	88	89	3202	5798	581	1878	167	33.4	68.1	6.1	27.7	4.2	8.6	1.0	5.1	0.6	109.2	1.19	34.3	9.7
	89	90	5407	9803	968	3056	249	43.5	75.7	5.6	20.3	2.7	5.0	0.5	2.9	0.4	61.0	1.97	41.0	11.1
	90	91	4879	8722	847	2624	200	35.4	58.4	3.8	12.2	1.3	2.1	0.2	0.8	0.1	27.9	1.74	26.5	1.0
	91	92	13253	23217	2410	6917	497	82.9	129.1	7.5	21.9	2.3	3.2	0.3	1.0	0.2	44.5	4.66	74.7	0.4
	92	93	7623	14004	1383	4211	291	47.1	75.0	4.5	13.4	1.3	1.8	0.2	0.7	0.1	26.7	2.77	39.4	0.4
	93	94	10063	17382	1734	4887	312	49.2	71.9	4.2	13.1	1.5	2.4	0.2	1.4	0.2	30.5	3.46	28.8	0.9
	94	95	7834	13942	1335	4117	297	53.8	89.1	6.5	22.7	2.7	4.2	0.4	2.6	0.4	62.2	2.78	74.7	3.9
	95	96	4421	7628	738	2286	194	39.7	76.8	6.6	23.5	2.6	4.6	0.5	2.7	0.5	63.5	1.55	80.2	10.9
	96	97	5653	9569	895	2718	198	34.5	56.8	3.9	12.3	1.4	2.2	0.2	0.9	0.1	27.9	1.92	24.8	-0.3
	97	98	9183	15416	1450	4304	302	52.6	82.5	5.4	17.0	1.9	2.4	0.2	1.0	0.1	39.4	3.09	36.8	0.3
	98	99	11071	18303	1758	4794	303	51.5	84.4	5.8	18.0	2.1	3.4	0.2	1.3	0.2	44.5	3.64	33.3	0.4
	99	100	10051	16583	1498	4292	267	43.2	67.9	4.2	12.3	1.4	1.9	0.2	0.7	0.1	29.2	3.29	27.3	0.3
	100	101	10168	15846	1420	4047	259	43.8	70.0	4.4	14.5	1.6	2.4	0.3	0.9	0.2	31.8	3.19	33.8	0.3
	101	102	14953	22234	2084	5657	371	63.9	112.3	7.4	20.3	2.1	3.4	0.3	1.6	0.2	45.7	4.56	50.8	0.4
	102	103	14895	22418	2126	5809	393	66.2	116.4	7.3	19.3	2.1	3.3	0.3	1.4	0.2	43.2	4.59	50.1	0.4
	103	104	12373	18856	1806	4946	327	56.3	96.6	6.4	16.4	1.7	2.5	0.2	0.8	0.1	35.6	3.85	42.2	0.3
	104	105	10121	15478	1480	4106	284	48.8	87.8	5.9	16.3	1.7	2.4	0.2	0.8	0.1	35.6	3.17	45.5	0.3
	105	106	15950	24507	2362	6509	420	68.9	118.1	7.9	20.0	2.1	2.9	0.2	1.0	0.1	43.2	5.00	51.5	0.8
	106	107	17768	28745	2900	8153	543	88.5	152.1	9.7	23.2	2.3	3.3	0.3	1.3	0.2	45.7	5.84	72.8	1.1
	107	108	22576	34518	3347	9086	567	91.7	151.6	9.7	24.0	2.4	3.2	0.2	1.0	0.1	44.5	7.04	57.0	0.6
	108	109	8995	14311	1426	4059	285	48.2	82.2	5.3	13.3	1.4	1.8	0.2	0.6	0.1	26.7	2.93	36.3	-0.3
	109	110	13194	19839	1885	5121	329	55.7	96.7	6.2	16.1	1.6	2.4	0.1	0.5	0.1	31.8	4.06	38.5	-0.3
	110	111	9711	15109	1456	4024	270	44.1	77.7	5.3	13.7	1.3	2.1	0.1	0.6	0.1	29.2	3.07	32.7	-0.3
	111	112	24394	35378	3310	8853	584	98.2	175.8	11.9	31.6	3.4	5.5	0.4	1.6	0.2	68.6	7.29	93.5	0.5
	112	113	21521	32307	3069	8386	571	97.8	168.9	10.9	28.7	3.0	4.5	0.3	1.4	0.2	59.7	6.62	84.7	0.3
	113	114	6462	9717	935	2578	181	32.7	60.2	4.3	11.5	1.3	2.1	0.2	0.8	0.1	29.2	2.00	26.0	-0.3
	114	115	25802	38080	3564	9634	651	109.2	190.8	12.4	31.9	3.5	4.7	0.6	1.6	0.4	64.8	7.82	87.0	0.6
	115	116	6298	9557	918	2566	190	33.4	59.9	4.1	11.3	1.3	2.1	0.2	0.8	0.1	26.7	1.97	27.1	0.3
	116	117	16888	25919	2489	6893	479	81.3	141.8	9.2	23.2	2.4	3.7	0.3	1.1	0.2	47.0	5.30	64.6	0.5
	117	118	6591	11424	1214	3639	271	45.4	76.9	4.6	11.3	1.2	1.9	0.2	0.9	0.1	24.1	2.33	37.3	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 %	Th ppm	U ppm
	118	119	7858	12714	1257	3581	262	44.7	78.7	5.1	13.1	1.3	2.3	0.2	0.9	0.1	29.2	2.58	36.2	0.5
	119	120	5618	9102	918	2659	197	33.2	60.9	3.9	10.3	1.1	1.7	0.1	0.8	0.1	24.1	1.86	29.8	1.0
	120	121	6990	10773	1058	2986	215	37.1	65.2	4.5	11.7	1.2	1.9	0.2	0.8	0.1	27.9	2.22	31.0	0.3
	121	122	7459	11559	1114	3079	208	35.6	65.0	4.4	11.7	1.3	1.8	0.1	0.7	0.1	27.9	2.36	30.9	-0.3
	122	123	8116	12714	1206	3313	215	35.1	61.6	4.0	10.6	1.1	1.8	0.1	0.6	0.1	22.9	2.57	25.0	-0.3
	123	124	7635	12137	1196	3359	231	38.7	67.2	4.3	10.7	1.1	1.8	0.1	0.7	-0.1	22.9	2.47	27.9	-0.3
	124	125	7518	12014	1184	3348	230	39.3	69.7	4.4	11.4	1.2	1.8	0.1	0.5	0.1	24.1	2.44	30.3	-0.3
	125	126	9629	15478	1528	4339	305	52.5	93.6	6.5	17.7	1.9	3.3	0.3	1.3	0.2	44.5	3.15	54.5	1.4
	126	127	10438	18303	1903	5610	402	65.1	109.4	6.8	17.5	1.8	3.1	0.2	1.3	0.2	38.1	3.69	51.3	1.2
	127	128	10508	16522	1595	4432	300	49.7	88.1	5.6	14.7	1.6	2.1	0.2	0.8	0.1	30.5	3.36	35.8	0.4
	128	129	5536	8623	841	2391	167	28.5	50.4	3.6	10.1	1.0	1.8	0.1	0.6	0.1	22.9	1.77	26.3	0.5
	129	130	8268	13267	1305	3721	273	46.2	82.6	5.6	15.6	1.6	2.5	0.2	0.9	0.1	35.6	2.70	44.7	0.5
	130	131	6826	11006	1027	2998	221	37.8	61.8	3.8	12.6	1.3	1.8	0.2	0.9	0.1	26.7	2.22	32.5	-0.3
	131	132	7764	12837	1250	3744	281	45.7	72.3	4.5	13.3	1.4	1.9	0.2	0.6	0.1	27.9	2.60	40.4	0.5
	132	133	17182	24015	2126	5260	333	55.2	90.1	6.0	18.3	1.9	2.5	0.2	1.0	0.1	38.1	4.91	43.8	0.7
	133	134	17064	23462	2102	5342	357	59.4	99.7	7.2	21.8	2.1	3.0	0.3	0.9	0.1	45.7	4.86	60.2	0.7
	134	135	8890	14802	1402	4106	298	48.2	80.2	5.1	19.5	2.2	3.1	0.3	1.1	0.1	49.5	2.97	44.7	1.5
	135	136	11787	18549	1776	5027	369	60.9	99.9	6.1	18.4	1.7	2.5	0.2	0.8	0.1	36.8	3.77	51.7	0.7
	136	137	6802	10884	1021	2951	221	36.9	61.3	3.9	11.9	1.3	1.6	0.1	0.6	-0.1	25.4	2.20	32.1	0.3
	137	138	6509	9852	893	2519	179	30.3	48.0	3.1	9.2	0.9	1.3	0.1	0.7	-0.1	20.3	2.01	25.3	0.3
	138	139	9359	13635	1184	3219	209	36.0	58.2	3.8	11.8	1.2	2.2	0.1	0.7	0.1	27.9	2.77	28.8	0.5
	139	140	11165	16522	1438	3837	246	40.3	70.4	4.5	13.1	1.3	2.1	0.1	0.5	-0.1	29.2	3.34	33.2	0.3
	140	141	11540	16952	1474	4001	255	41.7	67.9	4.5	14.0	1.5	2.1	0.2	0.7	0.1	29.2	3.44	36.4	0.4
	141	142	11048	16153	1395	3663	221	35.2	58.3	4.1	12.2	1.3	1.6	0.1	0.6	0.1	29.2	3.26	26.9	0.4
	142	143	9816	17013	1734	4946	346	55.0	85.9	5.3	15.8	1.7	2.3	0.2	0.9	0.1	30.5	3.41	58.2	0.3
	143	144	5301	8009	720	1977	133	22.5	36.7	2.4	7.6	0.8	1.3	0.1	0.3	-0.1	19.1	1.62	21.2	-0.3
	144	145	12784	18365	1559	4024	226	35.0	58.1	4.0	13.5	1.5	2.1	0.2	0.7	0.1	31.8	3.71	28.4	0.8
	145	146	15891	21436	1861	4572	285	47.1	78.8	5.3	15.5	1.7	2.3	0.2	0.9	0.1	33.0	4.42	36.2	0.6
	146	147	14660	20514	1752	4677	284	46.6	75.6	5.0	15.7	1.7	2.6	0.2	1.3	0.1	36.8	4.21	39.8	0.9
	147	148	6755	10675	992	2823	205	34.0	57.2	3.8	12.6	1.4	1.9	0.2	0.8	0.1	29.2	2.16	38.3	0.6
	148	149	12725	17996	1510	3989	255	41.2	72.3	5.2	16.2	1.7	2.6	0.2	0.8	0.1	38.1	3.67	52.0	1.2
	149	150	6814	9987	861	2321	150	24.8	43.9	2.9	9.3	1.0	1.4	0.1	0.6	0.1	21.6	2.02	21.0	0.4
<b>KGKRC051</b>	0	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1	2	4046	7751	790	2554	224	43.8	91.4	7.9	29.5	4.0	7.9	0.9	4.9	0.7	107.9	1.57	33.8	13.7
	2	3	2533	4717	480	1569	147	30.3	62.8	5.6	19.9	2.9	5.2	0.6	3.0	0.4	72.4	0.96	16.1	7.7
	3	4	2498	4668	471	1534	145	29.4	62.6	5.5	21.4	3.0	6.5	0.7	3.8	0.5	78.7	0.95	19.1	6.9
	4	5	2838	5331	546	1785	168	33.9	69.6	5.7	19.5	2.4	4.7	0.5	2.4	0.3	61.0	1.09	18.4	7.3
	5	6	3073	5749	582	1895	177	35.4	71.8	5.9	20.9	2.8	5.3	0.5	2.9	0.4	68.6	1.17	18	7.3
	6	7	4586	8046	748	2216	158	29.1	55.0	4.9	17.9	2.3	3.5	0.4	2.3	0.3	58.4	1.59	22.9	7.4
	7	8	6662	12112	1188	3499	232	38.7	64.7	4.4	11.8	1.4	2.1	0.2	1.1	0.2	30.5	2.38	28.3	3.7
	8	9	9265	16215	1510	4327	275	45.0	76.4	4.7	13.1	1.5	2.1	0.2	0.9	0.1	30.5	3.18	32.6	2.3
	9	10	7037	11719	1081	3044	187	30.1	52.8	3.8	11.9	1.5	2.9	0.3	1.9	0.3	38.1	2.32	23.5	2.1
	10	11	5254	9090	847	2484	159	25.6	44.6	3.1	10.1	1.3	2.4	0.2	1.6	0.3	33.0	1.80	19.4	3.1
	11	12	4562	7751	720	2094	135	21.5	36.9	2.4	7.1	0.9	1.6	0.2	1.1	0.1	21.6	1.54	17.6	3
	12	13	5407	9238	842	2414	148	22.9	40.2	2.5	7.1	0.9	1.6	0.2	0.9	0.1	21.6	1.81	16.6	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 %	Th ppm	U ppm
	13	14	8890	16522	1655	4806	315	51.1	87.5	5.9	17.9	2.2	4.1	0.4	2.6	0.4	54.6	3.24	50.4	4
	14	15	13429	23524	2193	6205	386	61.7	102.6	6.1	16.6	1.8	2.6	0.3	1.3	0.2	40.6	4.60	47.9	5.1
	15	16	4984	8390	752	2228	155	24.0	40.3	2.4	8.0	0.9	1.8	0.1	0.9	0.1	20.3	1.66	19	2.5
	16	17	2885	4901	442	1341	90	14.1	24.3	1.5	5.9	0.7	1.3	0.1	0.7	0.1	15.2	0.97	12.4	2.5
	17	18	4375	7493	687	2070	139	20.8	35.4	2.1	6.9	0.8	1.6	0.2	0.8	0.1	17.8	1.49	17.5	2
	18	19	4257	7223	652	1954	130	20.2	34.0	2.2	7.2	0.8	1.6	0.2	0.9	0.1	17.8	1.43	16.5	2.6
	19	20	4163	7211	674	2030	139	21.8	37.0	2.1	7.4	0.7	1.4	0.1	0.8	0.1	17.8	1.43	18.2	1.8
	20	21	3941	7088	666	2059	147	24.3	42.2	2.7	9.5	1.0	2.3	0.2	1.4	0.2	25.4	1.40	22.5	1.5
	21	22	4023	6597	596	1773	126	20.0	35.3	2.5	9.1	1.0	1.9	0.2	1.3	0.1	24.1	1.32	17.1	1.5
	22	23	2803	4570	428	1277	94	16.9	30.9	2.4	8.7	1.0	2.1	0.2	1.6	0.2	27.9	0.93	17.4	3.6
	23	24	1577	3108	303	1001	95	18.6	36.3	3.4	13.1	1.6	3.0	0.3	1.9	0.3	40.6	0.62	32.8	2.5
	24	25	3190	5847	553	1750	139	24.7	44.5	3.6	13.4	1.5	2.7	0.3	1.5	0.2	36.8	1.16	26	1.9
	25	26	2217	4115	396	1260	105	18.6	34.4	2.6	9.5	1.1	2.1	0.2	1.1	0.2	25.4	0.82	15.1	1.8
	26	27	7353	12898	1232	3837	296	49.4	88.4	6.5	21.7	2.2	3.7	0.4	2.4	0.3	54.6	2.58	72.2	2.1
	27	28	4844	8243	776	2379	192	34.5	65.8	5.3	19.2	2.0	4.1	0.5	3.2	0.5	53.3	1.66	48.5	4.2
	28	29	2709	4742	439	1359	104	18.1	34.4	2.5	9.4	1.0	2.1	0.2	1.1	0.2	21.6	0.94	12.4	5.1
	29	30	6087	9852	878	2578	171	27.8	49.1	3.2	11.4	1.2	2.2	0.2	1.3	0.2	29.2	1.97	20.3	2
	30	31	8655	14311	1293	3767	246	38.8	64.0	3.9	12.7	1.3	1.9	0.2	1.0	0.1	29.2	2.84	25.1	1.2
	31	32	7037	11400	1009	2951	197	31.6	56.7	3.8	12.9	1.4	2.2	0.2	1.1	0.1	31.8	2.27	23.2	2.8
	32	33	5794	9090	800	2344	173	31.2	58.1	4.4	16.9	2.0	3.8	0.4	1.9	0.2	49.5	1.84	20.9	2
	33	34	2991	5061	469	1458	125	23.5	50.4	4.2	17.2	2.1	4.5	0.4	2.3	0.3	49.5	1.03	17.5	3.3
	34	35	3120	5122	464	1400	115	22.6	49.8	4.8	19.7	2.9	6.4	0.7	4.1	0.4	74.9	1.04	20.9	3.3
	35	36	1900	3366	315	1019	106	23.2	55.2	5.9	27.3	4.0	9.2	1.0	5.4	0.7	109.2	0.69	29.2	6.1
	36	37	33190	52944	4893	14288	870	141.8	229.9	13.2	36.3	3.2	4.9	0.3	1.5	0.2	63.5	10.67	119	1.9
	37	38	19468	31324	2960	8538	518	84.2	137.2	7.8	21.5	2.2	3.1	0.2	0.8	0.1	39.4	6.31	60.7	1.3
	38	39	12314	19716	1830	5097	335	53.8	89.7	5.5	15.6	1.5	2.6	0.2	0.9	0.1	29.2	3.95	39.5	1.1
	39	40	10027	16215	1426	4106	257	42.0	69.6	4.3	12.9	1.3	2.3	0.2	1.1	0.2	29.2	3.22	29.7	1.9
	40	41	2568	4324	384	1144	79	12.7	22.9	1.7	6.0	0.7	1.3	0.2	0.7	0.1	16.5	0.86	11	1
	41	42	3495	5614	492	1423	98	16.4	30.3	2.4	8.2	0.9	1.9	0.2	1.1	0.1	24.1	1.12	16.7	1.2
	42	43	4269	6633	581	1668	111	18.8	32.7	2.3	8.0	0.9	1.9	0.2	1.0	0.2	24.1	1.34	18	1.8
	43	44	23280	33044	2888	7523	459	77.0	129.1	9.3	30.2	3.5	6.2	0.5	2.7	0.4	80.0	6.75	70.2	12
	44	45	20114	30710	2622	7173	439	69.0	115.8	8.3	26.4	3.0	4.5	0.5	2.1	0.3	69.8	6.14	70.3	8.2
	45	46	9394	14311	1257	3266	204	32.5	56.7	4.6	15.7	2.0	4.0	0.4	2.6	0.4	53.3	2.86	39.6	7.8
	46	47	768	1284	117	336	29	5.6	11.8	1.4	6.9	1.2	3.1	0.4	2.3	0.3	35.6	0.26	24.1	3.4
	47	48	3284	5847	550	1610	111	17.7	29.4	2.3	7.5	1.0	1.7	0.2	1.3	0.2	24.1	1.15	15.4	2.3
	48	49	1935	3575	353	1101	95	17.5	32.0	3.1	11.9	1.7	3.1	0.4	2.1	0.4	41.9	0.72	28.3	2.5
	49	50	2234	4054	391	1163	84	13.6	23.1	1.9	6.3	0.8	1.5	0.2	1.0	0.2	20.3	0.80	12.5	1.1
	50	51	3718	6314	579	1662	119	19.7	36.2	3.0	11.5	1.6	3.1	0.4	2.2	0.3	43.2	1.25	15.1	1.6
	51	52	3999	6953	660	1913	126	19.7	31.9	2.1	6.5	0.9	1.4	0.2	0.8	0.2	20.3	1.37	15.7	3.1
	52	53	9746	15601	1408	3814	244	38.0	60.5	4.1	11.3	1.3	2.2	0.2	1.0	0.2	30.5	3.10	26.4	4.4
	53	54	3730	6253	576	1656	115	19.2	33.8	2.9	11.1	1.5	3.0	0.3	1.7	0.2	38.1	1.24	21	1.4
	54	55	5735	9655	888	2496	165	25.5	42.3	3.0	9.3	1.2	2.1	0.2	1.3	0.2	27.9	1.91	19.3	1.3
	55	56	9382	15048	1341	3616	224	34.4	54.9	3.6	9.8	1.1	1.5	0.2	0.6	0.1	22.9	2.97	29.5	1.3
	56	57	17651	26288	2277	5972	372	57.1	96.0	6.3	17.2	1.8	2.4	0.2	0.9	0.1	35.6	5.28	45.8	1.7
	57	58	13370	20576	1812	4712	284	43.7	71.5	4.7	12.3	1.2	1.7	0.2	0.7	0.1	24.1	4.09	39.9	1.2

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 %	Th ppm	U ppm
	58	59	14015	22050	1987	5342	333	49.8	80.1	5.0	13.2	1.3	1.9	0.2	0.7	0.1	27.9	4.39	42.2	0.9
	59	60	13663	20760	1794	4607	267	41.7	67.1	4.4	11.1	1.2	1.5	0.1	0.6	0.1	24.1	4.12	38.9	0.8
	60	61	11153	16891	1480	3802	215	30.8	49.8	3.1	8.0	0.9	1.1	0.1	0.5	0.1	16.5	3.37	28.1	0.6
	61	62	16771	25919	2284	6077	364	54.7	91.6	6.2	17.5	1.7	2.5	0.2	0.9	0.1	35.6	5.16	47.4	1.1
	62	63	11142	17136	1504	3896	234	35.1	57.2	3.8	10.2	1.0	1.4	0.1	0.6	0.1	22.9	3.40	30.5	0.7
	63	64	12138	18365	1607	4164	246	37.5	65.4	4.8	15.2	1.8	2.7	0.3	1.3	0.2	41.9	3.67	31.7	1.4
	64	65	11564	17505	1534	4012	249	39.0	67.5	5.1	16.4	1.9	3.1	0.3	1.4	0.2	43.2	3.50	38.3	1.5
	65	66	6720	10810	957	2624	163	24.4	40.1	2.7	7.7	0.9	1.3	0.1	0.6	0.1	20.3	2.14	24	0.6
	66	67	15481	24445	2211	5809	348	53.2	86.8	5.4	15.6	1.7	2.3	0.2	0.7	0.1	34.3	4.85	43.1	1.3
	67	68	5325	9287	865	2473	164	25.4	40.8	2.8	7.5	0.9	1.3	0.1	0.6	0.1	17.8	1.82	18.2	2
	68	69	3038	5380	509	1493	105	16.2	26.6	1.9	6.4	0.8	1.4	0.2	0.8	0.1	17.8	1.06	15.1	1.3
	69	70	7119	12898	1238	3534	233	35.2	55.4	3.7	10.1	1.2	1.8	0.2	0.9	0.1	24.1	2.52	28.4	2
	70	71	10133	17996	1746	4841	310	46.7	75.8	4.6	11.9	1.3	1.8	0.2	0.8	0.1	25.4	3.52	45.3	1.1
	71	72	7013	12272	1145	3266	212	32.2	50.6	3.3	8.6	1.0	1.5	0.2	0.9	0.1	21.6	2.40	27	1
	72	73	26740	46802	4458	13005	850	126.2	197.1	11.0	28.1	2.9	3.8	0.3	0.9	0.2	54.6	9.23	103.5	2.8
	73	74	25332	48399	4869	14638	971	137.8	209.8	11.5	30.0	2.9	4.1	0.3	1.1	0.1	58.4	9.47	103.5	3.4
	74	75	19234	34272	3093	9413	602	99.8	164.3	9.7	23.5	2.3	2.9	0.2	0.8	0.1	41.9	6.70	76.7	2.7
	75	76	11963	20146	1794	5202	336	55.8	96.8	6.0	15.2	1.5	1.9	0.2	0.7	0.1	29.2	3.96	39.3	2.6
	76	77	8503	14618	1335	3837	249	40.9	67.1	4.0	9.8	1.1	1.5	0.2	0.8	0.1	21.6	2.87	36	1.7
	77	78	1736	3096	289	900	70	12.9	23.6	1.9	6.8	0.9	1.7	0.2	1.0	0.2	21.6	0.62	17.2	0.6
	78	79	1501	2752	253	774	60	11.6	23.1	2.3	8.7	1.3	1.9	0.2	1.1	0.2	27.9	0.54	22.6	1.1
	79	80	1818	3317	300	897	64	11.2	20.4	1.8	6.4	1.0	1.8	0.2	1.5	0.2	25.4	0.65	10.9	5.8
	80	81	5418	10085	944	2823	187	31.5	53.6	3.7	10.7	1.3	1.8	0.2	1.0	0.1	27.9	1.96	23.3	2.7
	81	82	3272	5933	553	1674	113	18.8	31.6	2.0	5.7	0.8	1.3	0.1	0.7	0.1	16.5	1.16	14.8	1.7
	82	83	5676	10355	970	2858	181	29.2	47.1	3.1	7.8	1.0	1.4	0.1	0.8	0.1	19.1	2.02	20.4	2.1
	83	84	2756	5110	476	1446	96	15.8	26.9	2.0	6.1	0.9	1.5	0.2	1.1	0.2	19.1	1.00	15.7	1.1
	84	85	3401	5712	510	1481	95	16.0	27.7	2.1	6.1	0.8	1.4	0.2	0.8	0.1	19.1	1.13	18.6	5.1
	85	86	5829	10171	903	2648	168	26.6	45.2	2.9	7.9	0.9	1.4	0.1	0.6	0.1	19.1	1.98	21.8	3.2
	86	87	6486	11559	1044	3033	184	29.4	46.6	2.9	7.2	0.8	1.1	0.1	0.7	0.1	17.8	2.24	17.5	2.1
	87	88	1560	2801	254	776	53	9.3	16.0	1.2	4.3	0.6	1.1	0.2	0.7	0.1	14.0	0.55	7.9	0.6
	88	89	4070	7186	651	1954	126	20.4	33.4	2.0	5.4	0.7	1.0	0.1	0.5	0.1	14.0	1.41	13.9	1
	89	90	6110	10319	904	2636	164	26.3	43.1	2.8	7.6	0.9	1.4	0.1	0.5	0.1	19.1	2.02	18.6	1.6
	90	91	3542	5847	507	1470	91	14.8	25.5	1.8	5.6	0.8	1.0	0.1	0.6	0.1	17.8	1.15	12.6	1
	91	92	9652	15416	1317	3639	215	34.3	57.4	3.8	9.3	1.1	1.5	0.1	0.5	0.1	21.6	3.04	25.3	0.5
	92	93	7037	11965	1079	3103	197	31.5	53.0	3.5	9.8	1.2	1.8	0.2	1.0	0.1	25.4	2.35	28.3	2.6
	93	94	2498	4582	416	1248	83	13.7	22.1	1.5	4.0	0.5	0.9	0.1	0.6	-0.1	11.4	0.89	8.8	1.9
	94	95	2721	4791	440	1318	88	15.1	25.6	1.9	5.9	0.8	1.4	0.2	0.8	0.1	17.8	0.94	14.9	2.4
	95	96	1460	2715	249	771	56	10.1	18.4	1.5	5.7	0.8	1.6	0.2	1.0	0.1	20.3	0.53	12.6	1.7
	96	97	1912	3538	331	1018	71	12.0	21.6	1.6	4.9	0.7	1.3	0.1	0.7	0.1	15.2	0.69	12.8	0.7
	97	98	1683	3145	296	920	70	13.4	24.9	2.0	7.5	1.0	1.9	0.2	1.4	0.2	26.7	0.62	15.8	1.2
	98	99	1689	3108	283	871	64	11.6	21.0	1.8	6.1	0.8	1.4	0.2	1.0	0.1	21.6	0.61	13	0.9
	99	100	2756	5036	471	1441	105	18.5	34.6	2.8	9.8	1.3	2.4	0.3	1.4	0.2	31.8	0.99	26.7	1.1
	100	101	2615	4717	434	1312	91	15.3	26.2	1.8	6.0	0.8	1.1	0.2	0.9	0.1	19.1	0.92	15	1.2
	101	102	1660	2960	271	808	54	9.0	15.3	1.2	3.6	0.5	0.9	0.1	0.7	0.1	12.7	0.58	7.8	2.1
	102	103	2639	4778	440	1324	89	15.2	26.6	2.0	6.4	0.9	1.5	0.2	0.9	0.1	19.1	0.93	14.4	2.8

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 %	Th ppm	U ppm
	103	104	2135	3808	344	1033	74	12.7	24.1	2.1	7.5	1.1	2.1	0.3	1.5	0.2	29.2	0.75	16	3.4
	104	105	3518	6117	578	1691	114	18.4	31.0	2.2	7.4	1.0	2.2	0.3	1.6	0.3	27.9	1.21	22.6	4
	105	106	10414	18303	1770	4946	307	49.7	82.9	5.6	17.1	2.0	3.1	0.3	1.7	0.3	45.7	3.59	56.5	6.7
	106	107	2510	4385	436	1365	109	19.5	38.5	3.5	11.8	1.5	2.6	0.3	1.6	0.3	36.8	0.89	58.2	6.7
	107	108	5067	8488	779	2193	132	21.1	35.3	2.3	7.2	1.0	1.7	0.2	1.1	0.2	24.1	1.68	21.9	5.4
	108	109	7647	12137	1070	2904	166	26.3	44.3	3.0	9.5	1.3	2.4	0.3	1.6	0.2	33.0	2.40	22.9	6.9
	109	110	8690	13144	1124	3009	169	26.6	46.3	3.2	9.5	1.2	2.1	0.2	1.3	0.2	26.7	2.63	20.3	5.3
	110	111	3378	5479	500	1400	85	14.0	24.1	1.6	5.5	0.8	1.5	0.2	0.9	0.1	20.3	1.09	11.2	1.3
	111	112	18061	28867	2598	7115	405	65.4	110.1	6.7	16.9	1.7	2.3	0.2	0.9	0.1	33.0	5.73	46	2
	112	113	5125	8857	822	2327	143	22.5	37.8	2.3	6.0	0.7	0.9	0.1	0.5	0.1	14.0	1.74	17.2	1.1
	113	114	6896	10626	919	2508	146	24.0	42.1	2.9	9.1	1.0	1.6	0.2	0.7	0.1	24.1	2.12	21.4	1.2
	114	115	13370	19962	1746	4549	261	42.8	71.5	4.9	14.2	1.6	2.5	0.2	1.1	0.2	35.6	4.01	43.1	1.3
	115	116	20114	29850	2598	6812	387	62.5	104.7	7.1	20.1	2.1	2.9	0.2	1.3	0.2	44.5	6.00	50.2	3.7
	116	117	11282	17505	1565	4117	237	37.4	62.1	4.3	12.1	1.4	1.9	0.2	1.1	0.1	29.2	3.49	29.7	2.7
	117	118	8655	13451	1220	3173	181	29.0	49.2	3.4	9.0	1.0	1.5	0.1	0.6	0.1	21.6	2.68	22.7	1.3
	118	119	10215	14986	1287	3243	171	27.7	46.3	3.1	9.1	1.0	1.7	0.2	0.8	0.1	22.9	3.00	20.5	1
	119	120	10520	16153	1438	3744	215	34.2	58.3	4.1	12.3	1.3	1.8	0.2	0.8	0.1	29.2	3.22	31.5	1.5
	120	121	6908	11129	980	2671	152	23.9	40.0	2.8	7.4	0.9	1.3	0.1	0.6	0.1	19.1	2.19	18.1	0.7
	121	122	15657	23094	1981	5062	276	44.7	76.9	5.6	15.6	1.7	2.6	0.2	1.0	0.2	36.8	4.63	34.2	1.4
	122	123	15716	25674	2314	6275	328	52.0	82.9	5.1	13.9	1.4	2.1	0.2	0.7	0.1	27.9	5.05	35	1
	123	124	14719	23462	2175	5704	324	52.8	90.5	6.1	18.5	2.0	3.2	0.3	1.4	0.2	44.5	4.66	51.1	1.1
	124	125	14191	22541	1987	5144	264	39.8	64.7	4.2	11.0	1.3	1.7	0.2	0.7	0.1	26.7	4.43	27.1	0.8
	125	126	16888	26656	2380	6287	356	57.8	102.0	7.5	22.8	2.7	4.4	0.4	2.1	0.3	63.5	5.28	55.5	1.5
	126	127	14425	23585	2120	5785	314	50.5	86.1	5.7	16.2	1.8	2.6	0.2	0.9	0.1	36.8	4.64	38	1
	127	128	15891	25305	2290	6089	325	51.9	84.1	5.6	15.0	1.6	2.3	0.2	0.7	0.1	30.5	5.01	36.2	0.8
	128	129	17533	28253	2549	6975	386	62.4	106.2	6.8	19.1	2.0	2.9	0.2	1.0	0.2	39.4	5.59	49.2	0.8
	129	130	12901	20760	1879	5016	284	46.3	81.5	5.7	16.9	2.0	3.2	0.3	1.3	0.2	43.2	4.10	39.2	1
	130	131	12138	19470	1746	4642	261	41.5	70.5	4.4	11.9	1.2	1.7	0.1	0.6	0.1	25.4	3.84	34.2	0.7
	131	132	13429	21743	1994	5260	297	47.4	77.7	4.7	12.6	1.4	1.7	0.1	0.6	0.1	25.4	4.29	36.9	0.7
	132	133	11540	18610	1679	4351	227	36.0	58.6	3.7	9.5	1.0	1.5	0.1	0.6	0.1	21.6	3.65	24.5	0.8
	133	134	12901	20821	1885	5004	270	41.2	66.4	4.1	10.1	1.0	1.6	0.1	0.7	0.1	21.6	4.10	30.6	1.5
	134	135	8139	12960	1126	3138	177	27.2	45.8	3.1	8.4	0.9	1.5	0.1	0.7	0.1	20.3	2.56	22.6	1.7
	135	136	8245	13328	1156	3278	208	32.9	58.6	4.4	11.9	1.4	2.2	0.3	1.3	0.2	30.5	2.64	42.3	3
	136	137	13663	20576	1812	4771	283	44.6	76.7	5.7	16.4	1.9	3.0	0.3	1.5	0.2	41.9	4.13	32.9	1.8
	137	138	11787	19470	1794	4887	291	44.9	75.5	5.1	15.3	1.7	3.0	0.3	1.5	0.2	40.6	3.84	30.3	1.6
	138	139	5184	8402	755	2170	141	22.9	41.3	3.4	13.1	1.7	3.2	0.4	2.1	0.3	43.2	1.68	18.2	1.6
	139	140	12842	21067	1945	5260	314	48.6	82.4	5.4	14.0	1.5	2.2	0.2	0.9	0.1	33.0	4.16	39.7	2.6
	140	141	8386	13881	1238	3523	209	34.0	55.4	3.7	11.0	1.2	2.3	0.2	1.0	0.1	29.2	2.74	30.1	1.8
	141	142	7928	13512	1226	3558	216	34.0	55.0	3.5	9.6	1.2	2.2	0.2	1.1	0.1	27.9	2.66	29.1	1.6
	142	143	12549	21128	1957	5470	340	52.5	83.6	5.0	13.1	1.5	2.4	0.2	1.1	0.2	33.0	4.16	42.4	1.7
	143	144	9265	15969	1474	4176	261	41.8	68.8	4.3	11.9	1.4	2.3	0.2	1.4	0.2	30.5	3.13	31.6	2.1
	144	145	8327	13512	1201	3406	214	33.9	57.2	3.8	10.6	1.3	2.1	0.2	1.1	0.1	27.9	2.68	26.9	1.2
	145	146	9242	16092	1522	4304	263	41.8	68.9	4.8	12.7	1.4	2.5	0.2	1.0	0.2	30.5	3.16	37.4	1.3
	146	147	5770	9324	828	2356	146	23.9	38.8	2.8	8.3	1.0	1.4	0.1	0.8	0.1	20.3	1.85	17.1	1
	147	148	20934	32307	2827	7932	472	75.8	125.6	8.3	23.1	2.5	3.7	0.3	1.5	0.2	50.8	6.48	55.7	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 %	Th ppm	U ppm
	148	149	15833	25305	2308	6310	386	60.8	98.7	6.4	16.9	1.8	2.7	0.2	1.0	0.1	35.6	5.04	43.3	1.2
	149	150	9465	15601	1432	4001	255	39.6	68.0	4.4	12.1	1.3	1.7	0.2	0.8	0.1	25.4	3.09	29	1
	150	151	17182	25305	2199	5774	342	53.6	92.1	6.6	17.9	2.0	3.3	0.3	1.4	0.2	44.5	5.10	47.6	1.6
	151	152	4820	7985	737	2164	141	22.0	36.8	2.4	6.9	0.8	1.3	0.1	0.6	0.1	17.8	1.59	18	0.6
	152	153	10508	17443	1625	4491	275	43.4	71.5	4.9	15.2	1.8	3.1	0.3	1.5	0.2	41.9	3.45	34	1.9
	153	154	6685	10970	988	2904	197	32.2	55.7	3.9	11.9	1.5	2.3	0.2	1.0	0.2	33.0	2.19	26.8	1.1
<b>KGKRC052</b>	0	1	8339	13205	1142	3196	199	33.0	59.0	4.3	13.2	1.6	2.7	0.3	1.5	0.2	39.4	2.62	23.5	0.6
	1	2	15481	24691	2235	6054	361	57.6	94.6	6.6	19.4	2.3	4.0	0.4	1.9	0.2	53.3	4.91	40.7	0.7
	2	3	10919	17689	1625	4386	259	41.1	72.3	5.4	17.5	2.2	3.9	0.4	1.8	0.3	49.5	3.51	35.9	0.7
	3	4	8550	14311	1287	3686	233	36.8	63.5	4.6	14.5	1.7	2.6	0.3	1.5	0.2	38.1	2.82	25.9	1.5
	4	5	5911	10011	924	2706	175	28.5	49.6	3.7	10.9	1.3	1.9	0.2	1.0	0.1	26.7	1.99	19.4	0.9
	5	6	7858	14065	1329	3861	241	37.8	62.0	4.2	11.6	1.2	2.1	0.2	0.9	0.1	26.7	2.75	25.8	0.9
	6	7	8233	14004	1281	3709	226	35.4	57.5	3.6	9.9	1.2	1.8	0.2	1.0	0.1	22.9	2.76	24.2	0.7
	7	8	6978	12345	1132	3313	199	30.8	48.8	3.1	8.2	0.9	1.4	0.1	0.6	0.1	17.8	2.41	18.6	1.6
	8	9	7084	12837	1214	3616	223	34.9	57.2	3.6	10.3	1.0	1.5	0.2	0.7	0.1	21.6	2.51	20.4	1.9
	9	10	5078	9225	874	2601	179	30.6	52.2	4.1	13.1	1.4	2.5	0.2	1.4	0.2	34.3	1.81	28.1	1.2
	10	11	6884	14065	1462	4479	319	49.6	77.6	5.1	15.3	1.5	2.7	0.2	1.3	0.2	34.3	2.74	40.3	1.3
	11	12	5289	9655	922	2799	202	35.1	59.4	4.8	16.8	1.8	3.7	0.4	2.4	0.3	44.5	1.90	27.3	0.7
	12	13	4738	8808	852	2624	198	33.8	56.9	4.3	16.1	1.9	4.1	0.4	2.5	0.3	50.8	1.74	22.5	1.0
	13	14	10309	20453	2072	6089	405	63.3	95.7	5.9	17.0	1.6	2.6	0.2	0.9	0.1	33.0	3.95	44.4	1.0
	14	15	3460	6707	669	2129	186	35.6	65.9	6.1	26.4	3.8	9.2	1.0	6.8	0.8	113.0	1.34	47.9	3.5
	15	16	5477	9938	953	2986	237	42.8	76.8	6.7	23.9	2.6	5.3	0.5	3.5	0.4	67.3	1.98	41.9	2.5
	16	17	5137	9606	911	2788	210	36.5	62.0	4.9	17.1	1.9	3.5	0.3	2.1	0.3	44.5	1.88	35.8	2.8
	17	18	2862	5294	499	1499	107	18.1	28.4	2.1	6.7	0.7	1.5	0.1	0.9	0.1	17.8	1.03	14.0	4.4
	18	19	4081	7542	718	2158	151	24.8	40.7	2.8	9.2	1.0	1.9	0.2	0.9	0.1	22.9	1.48	19.0	2.9
	19	20	6462	11854	1107	3336	235	39.1	66.2	4.8	16.1	1.7	3.1	0.3	1.4	0.2	39.4	2.32	26.7	0.6
	20	21	4093	7370	704	2170	177	32.9	59.2	5.4	20.4	2.5	4.9	0.5	2.9	0.4	61.0	1.47	25.2	0.6
	21	22	7999	14188	1323	3907	282	48.6	81.8	6.3	20.7	2.2	3.7	0.4	2.1	0.3	52.1	2.79	38.1	0.8
	22	23	6450	11289	1038	3114	228	40.5	69.2	5.9	23.9	3.1	5.8	0.6	4.1	0.6	77.5	2.24	29.1	0.6
	23	24	3859	7137	689	2205	189	35.3	63.2	5.9	24.9	3.3	6.6	0.8	5.7	0.8	88.9	1.43	31.9	0.8
	24	25	4750	8267	755	2263	169	31.3	55.8	4.8	18.6	2.1	4.5	0.5	2.9	0.4	53.3	1.64	36.3	7.3
	25	26	6697	12407	1177	3604	267	44.8	72.8	5.3	18.1	2.0	3.5	0.3	2.1	0.2	47.0	2.43	37.5	1.6
	26	27	3413	6461	636	2018	172	32.0	56.8	4.8	19.9	2.7	5.8	0.6	3.4	0.4	71.1	1.29	31.0	2.8
	27	28	1542	3108	303	1007	103	22.1	49.7	5.0	23.3	3.3	7.1	0.8	4.4	0.5	87.6	0.63	40.3	3.8
	28	29	2064	3882	370	1196	120	24.8	52.9	5.5	24.0	3.4	7.3	0.7	4.7	0.6	86.4	0.78	42.8	3.1
	29	30	3706	6805	654	2082	187	36.9	73.8	7.0	30.2	4.1	9.2	0.9	5.1	0.5	105.4	1.37	46.3	3.3
	30	31	2381	4521	433	1394	133	27.9	58.7	5.8	26.3	3.7	8.5	0.9	5.5	0.6	95.2	0.91	38.7	3.3
	31	32	4257	7358	694	2210	181	33.1	67.8	5.3	21.2	2.8	5.4	0.7	3.4	0.4	71.1	1.49	21.4	3.0
	32	33	5571	9557	855	2473	169	30.0	51.9	3.7	12.5	1.4	2.1	0.2	1.1	0.2	31.8	1.88	20.9	0.7
	33	34	7025	11854	1077	3219	217	34.6	64.8	4.4	12.7	1.4	2.4	0.2	1.3	0.2	30.5	2.35	27.3	1.6
	34	35	6837	12345	1141	3406	237	39.8	66.5	4.8	15.6	1.8	3.1	0.3	1.4	0.2	39.4	2.41	27.2	3.4
	35	36	4914	8525	773	2274	153	25.9	43.5	2.9	9.5	1.0	1.7	0.1	0.8	0.1	21.6	1.67	17.8	2.6
	36	37	5454	9839	918	2799	218	40.1	72.5	6.4	24.6	3.1	6.2	0.6	2.7	0.3	74.9	1.95	25.6	9.3
	37	38	9945	16092	1504	4234	295	54.4	96.7	7.7	22.7	3.0	5.3	0.5	2.1	0.2	64.8	3.23	30.3	5.1
	38	39	15481	24077	2163	5855	365	63.7	103.2	6.8	17.0	1.8	2.9	0.2	1.3	0.2	39.4	4.82	38.4	1.0

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 %	Th ppm	U ppm
	39	40	18589	28499	2573	7127	431	73.0	118.1	7.7	18.8	1.9	3.0	0.3	1.3	0.2	40.6	5.75	45.4	0.4
	40	41	11963	19409	1776	4887	310	53.8	86.1	5.8	14.7	1.6	2.5	0.2	1.3	0.1	34.3	3.85	32.9	1.0
	41	42	6697	11154	1041	3114	232	44.8	78.8	6.3	20.0	2.5	4.5	0.4	1.8	0.2	57.2	2.25	24.1	5.6
	42	43	3143	5479	528	1662	150	32.0	64.7	6.0	21.8	3.2	6.2	0.7	3.6	0.5	78.7	1.12	17.6	8.0
	43	44	3753	6326	593	1825	154	31.7	61.4	5.7	20.8	3.0	6.1	0.7	3.8	0.5	78.7	1.29	21.0	9.1
	44	45	2117	3587	343	1082	103	24.0	52.6	5.6	22.4	3.6	7.7	0.9	5.2	0.6	99.1	0.75	16.9	12.0
	45	46	2140	3796	364	1172	114	25.8	57.4	5.9	23.5	3.6	7.6	0.8	4.9	0.6	96.5	0.78	12.7	9.7
	46	47	2627	4692	459	1493	145	33.5	72.2	7.2	28.7	4.1	8.4	0.9	4.6	0.6	113.0	0.97	15.8	6.7
	47	48	3108	5294	510	1621	152	32.3	67.3	6.3	23.8	3.3	6.5	0.7	3.2	0.4	88.9	1.09	24.2	6.6
	48	49	6849	10871	975	2893	216	41.3	78.4	6.7	22.4	3.1	5.7	0.6	3.0	0.3	78.7	2.20	25.7	5.3
	49	50	10239	16338	1504	4152	276	48.2	81.7	5.8	15.8	1.9	3.3	0.3	1.5	0.2	44.5	3.27	30.0	2.7
	50	51	4937	8304	772	2327	177	34.2	62.7	5.0	16.1	2.0	3.5	0.3	1.8	0.2	49.5	1.67	19.2	4.7
	51	52	4656	7702	719	2170	162	30.7	55.0	4.3	13.2	1.7	3.0	0.3	1.4	0.2	39.4	1.56	16.8	5.1
	52	53	3929	6339	586	1779	146	29.9	60.5	5.5	19.5	2.7	5.3	0.5	2.3	0.3	66.0	1.30	11.8	5.7
	53	54	7670	11965	1055	3009	196	33.9	58.4	4.3	12.4	1.5	2.7	0.3	1.4	0.2	36.8	2.40	20.0	3.7
	54	55	5770	9078	812	2403	175	34.5	65.4	5.7	18.9	2.6	4.7	0.5	2.6	0.3	66.0	1.84	17.0	3.5
	55	56	8397	13328	1199	3441	226	39.4	64.0	4.3	11.8	1.3	2.2	0.2	0.8	0.1	27.9	2.67	27.4	1.4
	56	57	8503	13942	1257	3686	253	43.9	72.2	5.2	14.1	1.6	2.6	0.2	1.1	0.2	36.8	2.78	27.6	3.7
	57	58	7729	12837	1176	3464	240	42.2	70.8	5.0	14.1	1.7	2.9	0.3	1.4	0.2	38.1	2.56	28.7	3.6
	58	59	6263	10183	918	2718	193	36.1	62.1	4.6	14.9	1.8	3.0	0.3	1.5	0.2	43.2	2.04	19.6	5.2
	59	60	6486	10503	942	2776	194	34.9	60.5	4.8	14.5	1.8	3.3	0.3	1.5	0.2	41.9	2.11	19.4	5.5
	60	61	3671	5835	528	1545	101	17.4	27.1	2.0	5.3	0.6	1.0	0.1	0.7	0.1	12.7	1.17	10.6	7.3
	61	62	6556	10982	1006	2928	186	31.3	49.2	3.1	8.0	0.8	1.4	0.2	0.8	0.1	19.1	2.18	21.3	3.7
	62	63	6450	10847	1004	2963	211	39.8	73.3	6.0	20.9	2.8	5.4	0.6	3.2	0.4	76.2	2.17	35.9	3.2
	63	64	6521	10147	890	2531	163	28.0	45.9	3.3	10.2	1.3	2.5	0.3	1.4	0.2	30.5	2.04	18.6	4.4
	64	65	6216	9299	801	2286	153	27.2	45.9	3.3	10.6	1.3	1.9	0.2	1.1	0.2	27.9	1.89	23.4	6.6
	65	66	12549	19347	1734	4712	306	54.5	92.6	6.3	18.0	2.0	3.2	0.3	1.3	0.2	44.5	3.89	33.8	3.5
	66	67	4269	7702	721	2175	165	29.3	54.1	4.1	14.4	1.8	3.2	0.4	1.7	0.2	41.9	1.52	19.8	6.0
	67	68	4937	8611	785	2321	171	30.7	56.0	4.3	14.7	1.8	3.7	0.3	1.8	0.2	44.5	1.70	27.7	7.1
	68	69	3331	5724	523	1592	137	26.6	53.5	4.6	16.3	2.1	4.2	0.4	2.1	0.2	52.1	1.15	20.3	15.0
	69	70	3073	5466	529	1697	158	30.3	60.1	5.4	18.7	2.6	5.3	0.5	2.6	0.3	67.3	1.11	33.9	10.9
	70	71	4527	8083	774	2391	189	33.0	60.5	4.8	15.7	1.8	3.4	0.3	1.5	0.2	45.7	1.61	32.5	15.7
	71	72	3213	5221	465	1359	96	16.2	27.2	2.1	6.0	0.7	1.3	0.1	0.8	0.1	17.8	1.04	18.5	10.0
	72	73	3530	6019	555	1621	113	19.0	31.8	2.1	6.2	0.7	1.0	0.1	0.6	0.1	14.0	1.19	14.4	8.6
	73	74	4996	8906	838	2508	189	32.7	58.6	4.6	15.6	1.9	3.4	0.3	1.6	0.2	47.0	1.76	38.2	4.5
	74	75	13311	23340	2181	6345	459	75.4	119.9	8.6	23.3	2.3	4.0	0.3	1.5	0.2	50.8	4.59	82.3	2.7
	75	76	9218	14618	1269	3581	229	37.1	61.3	4.6	13.3	1.4	2.6	0.2	1.1	0.2	33.0	2.91	37.2	2.1
	76	77	13663	22725	2120	5937	415	68.0	110.4	8.0	21.7	2.3	3.5	0.3	1.3	0.2	48.3	4.51	69.8	1.2
	77	78	13839	23155	2139	6019	413	67.5	105.0	7.0	19.4	1.9	3.0	0.2	1.0	0.1	40.6	4.58	59.9	1.2
	78	79	9969	16891	1583	4421	284	45.0	69.5	4.9	13.1	1.4	2.5	0.2	1.3	0.2	30.5	3.33	35.9	1.8
	79	80	10368	17198	1559	4316	271	42.5	66.3	4.6	11.1	1.2	2.2	0.2	0.8	0.1	25.4	3.39	33.6	1.6
	80	81	9148	15232	1408	3907	257	41.8	65.9	4.8	13.1	1.5	2.3	0.2	1.0	0.2	31.8	3.01	41.6	1.5
	81	82	7049	11363	988	2788	179	29.5	50.5	3.4	11.3	1.2	2.3	0.2	1.1	0.1	29.2	2.25	23.5	1.5
	82	83	9992	17505	1649	4666	318	51.2	79.9	5.3	13.5	1.3	2.2	0.2	0.8	0.1	29.2	3.43	44.2	2.2
	83	84	8479	14925	1426	4106	278	45.0	70.1	4.8	12.4	1.3	2.2	0.2	0.8	0.1	27.9	2.94	39.6	1.8

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 %	Th ppm	U ppm
	84	85	9253	16829	1631	4712	328	50.7	79.3	5.4	14.1	1.5	2.4	0.2	1.0	0.1	31.8	3.29	43.6	1.8
	85	86	5887	10110	950	2869	206	34.4	56.3	4.2	11.4	1.4	2.5	0.2	1.3	0.2	30.5	2.02	40.9	1.6
	86	87	3401	6339	611	1890	143	23.3	41.3	3.2	10.3	1.3	2.9	0.3	1.8	0.2	35.6	1.25	23.0	6.1
	87	88	785	1517	153	549	75	18.0	43.9	5.0	21.4	3.2	7.6	0.7	3.8	0.4	86.4	0.33	20.9	7.9
	88	89	575	1284	143	541	78	19.6	48.5	5.4	25.8	4.0	9.0	1.0	5.5	0.7	113.0	0.29	32.1	8.5
	89	90	3073	5479	516	1580	122	22.7	43.0	4.2	15.6	2.0	4.2	0.5	2.7	0.4	57.2	1.09	45.0	5.3
	90	91	6228	10245	907	2613	164	26.2	42.1	3.2	10.0	1.2	1.8	0.2	0.9	0.1	25.4	2.03	24.9	0.8
	91	92	9840	17075	1631	4724	343	55.8	91.3	6.9	18.6	1.9	3.0	0.2	1.1	0.1	43.2	3.38	77.4	1.0
	92	93	4644	8034	752	2263	171	29.6	53.0	4.1	12.5	1.4	2.6	0.2	1.5	0.2	39.4	1.60	46.1	0.5
	93	94	4363	7444	690	2094	158	27.6	49.3	4.6	13.9	1.4	2.6	0.2	1.0	0.2	35.6	1.49	51.7	0.8
	94	95	10977	17873	1643	4491	288	45.7	73.2	5.6	17.0	1.9	3.1	0.2	1.0	0.2	41.9	3.55	39.7	1.4
	95	96	7447	12407	1106	3208	234	40.4	71.8	5.7	17.9	2.0	3.5	0.3	1.7	0.3	47.0	2.46	45.5	1.1
	96	97	18061	27885	2791	7792	582	103.5	191.3	13.5	37.9	3.6	5.2	0.4	1.7	0.3	73.7	5.75	113.0	0.4
	97	98	6005	9496	932	2729	210	37.9	71.7	5.7	17.9	2.0	3.2	0.3	1.7	0.2	45.7	1.96	63.1	1.7
	98	99	4656	7432	723	2070	143	23.6	42.0	3.2	10.4	1.2	1.9	0.2	1.0	0.1	27.9	1.51	23.6	0.7
	99	100	4386	6904	667	1913	133	21.8	37.7	2.5	7.8	0.9	1.4	-0.1	0.8	0.1	20.3	1.41	14.8	0.6
	100	101	3038	4938	482	1406	102	16.9	30.0	2.0	6.2	0.6	1.3	0.1	0.6	0.1	15.2	1.00	13.6	0.7
	101	102	2592	4091	387	1103	77	13.2	22.8	1.6	5.7	0.7	1.6	0.1	0.7	0.1	17.8	0.83	10.2	2.6
	102	103	3143	4926	462	1324	94	15.6	27.2	2.4	10.7	1.4	2.3	0.1	0.9	0.2	34.3	1.00	16.4	2.9
	103	104	2955	4557	420	1201	83	14.4	27.1	2.3	11.7	1.5	2.6	0.2	1.0	0.1	36.8	0.93	16.2	3.7
	104	105	2909	4656	453	1318	94	15.5	27.0	2.1	9.2	1.3	2.4	0.2	1.0	0.1	31.8	0.95	11.7	2.2
	105	106	2340	3919	388	1178	91	16.7	31.8	3.4	13.5	1.5	2.3	0.1	0.9	0.1	35.6	0.80	29.5	1.4
	106	107	2451	4041	400	1201	95	16.4	31.6	2.8	10.8	1.3	1.8	0.1	1.0	0.1	30.5	0.83	23.6	1.0
	107	108	1976	3575	360	1075	82	13.9	27.0	2.4	9.5	1.3	2.2	0.1	1.3	0.2	29.2	0.72	12.0	1.2
	108	109	2662	4668	466	1382	98	16.6	29.3	2.1	7.0	0.8	1.7	0.1	0.9	0.1	20.3	0.94	9.7	0.9
	109	110	2944	4840	469	1371	96	16.0	27.1	1.7	5.3	0.5	1.0	-0.1	0.6	0.1	12.7	0.98	10.5	2.2
	110	111	7049	12468	1257	3674	252	39.1	64.3	3.8	10.9	1.1	1.9	0.1	1.0	0.1	24.1	2.48	34.2	1.3
	111	112	9218	15048	1528	4199	289	47.1	83.8	5.1	14.2	1.4	1.9	0.1	1.0	0.2	27.9	3.05	30.5	1.2
	112	113	14074	22234	2229	6089	429	70.6	126.8	8.9	26.3	2.6	3.9	0.3	1.5	0.3	54.6	4.54	73.7	2.1
	113	114	11247	17873	1812	4957	347	58.6	105.2	7.9	23.0	2.3	3.2	0.2	1.4	0.1	49.5	3.65	56.8	1.6
	114	115	15833	25182	2537	6940	481	79.2	136.6	8.5	22.3	2.0	3.0	0.2	0.9	0.2	39.4	5.13	56.3	1.4
	115	116	18413	29113	2984	8573	582	97.6	166.0	10.2	27.9	2.6	3.7	0.2	1.0	0.1	47.0	6.00	61.6	1.6
	116	117	10145	16829	1752	4852	346	57.8	100.3	6.5	16.5	1.6	1.9	0.1	0.8	0.1	30.5	3.41	38.3	1.9
	117	118	9019	14557	1462	4094	295	47.8	82.6	4.8	11.9	1.1	1.5	0.1	0.5	0.1	20.3	2.96	30.1	1.8
	118	119	7013	12223	1250	3697	263	42.8	71.9	4.3	11.5	1.0	1.6	0.1	0.7	0.1	21.6	2.46	37.2	29.8
	119	120	5934	10613	1098	3243	221	36.1	61.1	3.6	9.9	1.0	1.7	0.1	0.8	0.1	20.3	2.12	37.7	44.1
	120	121	5289	9348	953	2811	194	31.5	51.6	3.3	9.0	1.0	1.6	0.1	0.8	0.1	20.3	1.87	32.3	33.5
	121	122	5747	9975	1021	2974	202	32.4	53.9	3.4	8.8	1.0	1.4	0.1	0.7	0.1	19.1	2.00	34.3	37.3
	122	123	4410	7714	791	2321	162	26.2	44.8	2.8	8.3	0.9	1.6	0.1	0.9	0.1	19.1	1.55	48.7	96.0
	123	124	4222	7432	766	2263	157	25.1	42.5	2.7	8.3	0.8	1.6	0.1	0.8	0.1	17.8	1.49	41.0	75.2
	124	125	11447	20637	2187	6135	430	69.0	114.9	6.9	17.3	1.7	2.4	0.1	0.8	0.2	31.8	4.11	58.0	6.4
	125	126	5735	10061	1028	3033	218	36.7	62.8	4.2	11.9	1.3	2.1	0.2	1.1	0.2	26.7	2.02	31.8	10.8
	126	127	3753	6744	633	1954	155	29.5	63.4	5.6	23.5	3.2	6.9	0.7	4.0	0.5	82.5	1.35	39.8	9.1
	127	128	2791	5159	486	1522	128	26.4	55.3	5.5	23.3	3.3	7.3	0.9	4.4	0.6	90.2	1.03	25.4	7.3
	128	129	2744	4938	452	1435	119	22.2	50.8	4.8	20.2	2.9	6.6	0.7	4.2	0.5	74.9	0.99	26.1	8.5



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 %	Th ppm	U ppm
	129	130	2369	4177	382	1184	88	14.7	28.9	2.0	7.2	0.9	1.9	0.2	1.0	0.1	20.3	0.83	14.7	12.0
	130	131	2393	4201	388	1172	96	18.9	38.0	3.7	14.6	2.2	4.8	0.5	2.5	0.3	55.9	0.84	16.2	10.0
	131	132	1882	3501	348	1122	103	21.0	48.5	5.2	23.0	3.5	7.9	0.9	4.7	0.6	95.2	0.72	26.1	10.7
	132	133	1314	2616	255	846	91	21.1	48.6	5.3	23.9	3.7	8.1	0.9	5.0	0.6	100.3	0.53	23.4	11.8
	133	134	792	1671	173	605	76	18.2	45.8	5.4	25.3	3.6	8.2	0.9	5.5	0.6	104.1	0.35	23.2	9.3
	134	135	1970	3685	370	1207	111	22.2	50.5	5.2	22.7	3.2	7.2	0.8	4.2	0.5	87.6	0.75	28.5	10.1
	135	136	1859	3489	341	1085	96	19.3	38.3	3.5	14.5	2.0	4.6	0.5	2.9	0.4	55.9	0.70	21.3	11.2
	136	137	1712	3526	348	1120	111	22.0	47.6	4.8	21.1	3.0	7.2	0.8	4.8	0.7	86.4	0.70	31.6	13.1
	137	138	3601	6511	639	1942	147	25.5	46.5	3.8	11.9	1.5	2.6	0.3	1.4	0.2	34.3	1.30	29.5	6.7
	138	139	2791	5135	484	1493	100	15.9	28.7	1.8	6.0	0.7	1.5	0.1	0.9	0.1	16.5	1.01	11.8	6.5
	139	140	4339	7776	756	2245	146	23.0	39.3	3.2	10.3	1.2	2.3	0.2	1.3	0.2	27.9	1.54	20.6	10.3
	140	141	6028	10392	982	2893	194	31.3	53.4	3.9	11.9	1.3	2.4	0.3	1.5	0.2	30.5	2.06	25.9	8.4
	141	142	4879	8943	882	2694	183	29.4	48.0	3.3	9.6	1.1	2.1	0.2	0.9	0.1	24.1	1.77	23.5	5.1
	142	143	3202	5675	545	1615	104	16.9	27.8	2.0	6.1	0.7	1.5	0.1	0.8	0.1	16.5	1.12	13.3	3.7
	143	144	5254	9717	906	2683	176	27.2	44.1	3.0	9.5	1.0	1.9	0.2	1.1	0.1	24.1	1.88	22.9	5.4
	144	145	4797	9324	912	2858	195	33.7	60.9	4.1	11.9	1.4	2.5	0.2	1.1	0.2	29.2	1.82	31.5	1.6
	145	146	5031	9569	948	2904	192	30.1	49.2	3.4	9.3	1.1	2.1	0.2	1.0	0.1	21.6	1.88	24.3	3.9
	146	147	3565	6977	712	2216	152	23.9	38.0	2.5	7.2	0.8	1.7	0.2	0.8	0.1	17.8	1.37	18.8	12.5
	147	148	3905	7334	733	2327	148	24.1	40.7	2.4	7.4	0.9	1.7	0.2	0.9	0.1	20.3	1.45	17.4	3.5
	148	149	4820	8980	877	2659	173	26.5	42.4	2.6	8.2	0.9	1.5	0.1	0.9	0.1	17.8	1.76	18.1	4.7
	149	150	4011	7162	709	2164	153	25.1	43.6	3.3	10.1	1.2	2.1	0.2	1.3	0.1	25.4	1.43	18.8	4.2
	150	151	4386	8120	801	2473	169	26.2	42.5	3.0	9.3	1.0	1.9	0.2	0.9	0.1	22.9	1.61	16.8	3.0
<b>KGKRC053</b>	0	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1	2	5923	10577	1005	3009	214	35.4	61.0	4.6	13.1	1.3	2.2	0.2	1.0	0.1	30.5	2.09	38.2	3.8
	2	3	5489	10073	991	2986	199	32.1	52.0	3.6	10.8	1.1	1.7	0.1	0.6	0.1	22.9	1.99	26.3	1.5
	3	4	4937	8869	872	2636	180	29.5	49.1	3.5	9.6	1.0	1.7	0.1	0.7	0.1	21.6	1.76	26.2	1.6
	4	5	8761	15662	1595	4397	288	47.0	75.5	5.2	13.1	1.2	1.9	0.2	0.8	0.1	26.7	3.09	34.0	2.0
	5	6	5794	10331	992	2916	194	30.1	48.2	3.2	8.7	0.9	1.5	0.1	0.6	0.1	17.8	2.03	24.1	4.3
	6	7	7224	11719	1083	3219	209	33.0	57.6	3.5	11.0	1.2	2.1	0.1	0.9	0.1	26.7	2.36	23.2	2.7
	7	8	4034	6904	658	1989	140	23.6	43.9	2.9	10.6	1.2	2.6	0.2	1.3	0.1	30.5	1.38	18.5	4.4
	8	9	3038	5356	522	1645	136	24.2	50.7	4.3	17.0	2.4	5.4	0.5	2.9	0.4	64.8	1.09	25.6	4.5
	9	10	9617	16031	1498	4374	291	47.0	79.9	5.1	15.8	1.6	3.1	0.2	1.3	0.2	38.1	3.20	32.9	2.0
	10	11	6861	11817	1135	3453	247	41.1	73.7	5.3	18.4	2.0	3.8	0.3	1.8	0.3	47.0	2.37	30.1	1.8
	11	12	7635	13328	1281	3896	291	49.6	92.7	7.0	24.3	2.5	4.9	0.5	3.0	0.4	64.8	2.67	48.7	4.1
	12	13	2721	4607	433	1318	100	17.3	34.5	3.0	11.9	1.8	4.5	0.5	3.0	0.4	48.3	0.93	17.4	1.9
	13	14	3307	6093	533	1639	121	23.2	43.2	3.8	15.6	2.3	5.5	0.6	3.6	0.4	57.2	1.18	22.0	2.3
	14	15	3507	5909	558	1674	120	21.7	41.6	3.8	14.9	2.1	5.2	0.5	3.5	0.4	58.4	1.19	18.9	2.0
	15	16	3741	6511	617	1849	125	20.2	34.6	2.2	7.0	0.7	1.5	0.1	0.8	0.1	19.1	1.29	15.0	3.1
	16	17	6685	11633	1109	3278	213	32.2	55.3	3.2	9.5	0.9	1.6	0.1	0.7	-0.1	21.6	2.30	22.2	1.2
	17	18	5242	9029	865	2601	172	27.3	46.3	2.9	9.0	0.9	1.7	0.1	0.8	0.1	20.3	1.80	19.1	2.9
	18	19	5653	9508	886	2636	175	27.7	46.2	3.0	9.0	0.9	1.8	0.1	0.7	-0.1	21.6	1.90	18.8	2.3
	19	20	4984	8513	812	2461	168	26.9	46.1	2.9	8.4	0.9	1.8	0.1	0.8	0.1	21.6	1.70	18.7	2.9
	20	21	4996	9520	852	2683	199	36.9	65.5	5.3	17.0	2.2	3.8	0.4	2.3	0.3	50.8	1.84	32.5	4.9
	21	22	6662	12001	1190	3744	282	45.6	78.8	5.8	20.0	2.1	3.9	0.4	2.2	0.3	52.1	2.41	40.9	2.6
	22	23	5418	9631	938	2916	224	39.5	74.1	5.7	20.4	2.4	5.2	0.4	2.7	0.3	63.5	1.93	25.4	4.8

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 %	Th ppm	U ppm
	23	24	4597	8181	801	2461	175	28.0	50.5	3.6	11.4	1.3	2.6	0.1	1.1	0.1	31.8	1.63	21.1	4.0
	24	25	6087	10699	1045	3173	215	33.7	56.6	3.3	9.5	0.9	1.6	0.1	0.7	0.1	21.6	2.13	25.5	2.6
	25	26	9042	15539	1480	4409	293	45.3	75.2	4.6	12.7	1.2	1.9	0.1	0.8	0.1	25.4	3.09	34.0	2.0
	26	27	5993	10491	1038	3196	227	34.9	57.9	3.2	9.9	0.9	1.8	0.1	0.7	-0.1	21.6	2.11	25.9	2.8
	27	28	4504	8279	842	2648	188	29.6	48.4	2.9	7.8	0.7	1.0	-0.1	0.5	-0.1	15.2	1.66	21.1	3.1
	28	29	5383	9483	930	2834	193	31.5	53.8	3.4	10.1	1.0	1.9	0.1	0.8	-0.1	22.9	1.89	20.4	3.5
	29	30	5782	10171	986	2998	205	32.0	53.8	3.2	9.0	0.9	1.5	0.1	0.6	0.1	19.1	2.03	23.2	2.1
	30	31	7013	11805	1135	3453	246	39.8	67.2	4.4	12.6	1.5	2.9	0.2	1.3	0.2	34.3	2.38	30.6	3.2
	31	32	5946	10577	1020	3103	208	32.3	55.0	3.5	10.8	1.1	1.9	0.1	0.9	-0.1	26.7	2.10	22.8	1.7
	32	33	5970	10269	996	3009	202	32.8	53.8	3.4	10.0	0.9	1.6	-0.1	0.6	-0.1	21.6	2.06	24.8	2.5
	33	34	8268	14127	1341	4059	291	47.0	81.3	5.3	15.8	1.7	3.0	0.2	1.3	0.1	40.6	2.83	46.5	2.7
	34	35	5618	10073	975	2951	199	30.9	52.6	3.3	10.1	1.0	2.1	0.1	0.8	0.1	24.1	1.99	24.7	3.3
	35	36	5160	9434	888	2706	193	29.0	53.4	3.7	11.3	1.3	2.4	0.2	1.1	0.2	29.2	1.85	24.0	3.4
	36	37	5993	11203	1060	3266	229	33.7	59.0	4.1	11.7	1.2	2.3	0.2	1.1	0.2	31.8	2.19	28.1	3.1
	37	38	7248	13390	1353	3966	291	43.2	78.2	5.6	17.0	1.8	3.7	0.3	2.2	0.3	45.7	2.64	55.0	4.1
	38	39	3167	5380	484	1470	112	18.1	36.2	3.3	13.0	2.0	4.7	0.5	3.2	0.4	54.6	1.07	19.1	1.9
	39	40	765	1480	137	436	44	9.4	23.3	2.5	12.7	2.0	4.9	0.6	3.2	0.5	55.9	0.30	8.8	1.8
	40	41	896	1861	181	597	57	10.9	25.5	2.6	12.6	1.9	4.9	0.5	3.2	0.5	53.3	0.37	11.8	2.6
	41	42	603	1198	121	402	38	7.6	18.2	2.0	9.0	1.5	3.7	0.4	2.6	0.3	40.6	0.24	8.5	1.4
	42	43	2991	5761	562	1767	123	19.1	34.7	2.5	9.1	1.1	2.3	0.3	1.6	0.2	25.4	1.13	16.5	0.9
	43	44	4996	9790	959	2939	192	28.8	49.5	3.5	10.4	1.1	1.7	0.2	0.8	0.1	22.9	1.90	20.3	0.9
	44	45	5641	10933	1077	3301	215	31.5	55.3	3.8	10.2	1.2	1.9	0.2	0.7	0.1	24.1	2.13	22.7	0.7
	45	46	5454	10613	1041	3231	213	29.4	51.5	3.6	10.2	1.1	1.8	0.2	0.9	0.1	24.1	2.07	20.5	0.8
	46	47	6497	12775	1323	3861	257	37.2	62.9	4.1	11.5	1.2	2.2	0.2	1.0	0.1	26.7	2.49	27.2	0.9
	47	48	6533	12837	1311	3849	266	38.6	67.4	4.5	12.5	1.2	1.9	0.2	0.8	0.2	26.7	2.49	33.9	0.5
	48	49	8679	17259	1764	5214	348	51.0	88.8	6.0	16.8	1.6	2.9	0.2	1.3	0.1	35.6	3.35	41.6	1.3
	49	50	7107	14188	1456	4292	288	42.6	73.9	5.1	14.4	1.5	2.5	0.2	1.3	0.2	33.0	2.75	32.8	2.7
	50	51	6380	12591	1311	3896	260	38.3	67.8	4.7	13.1	1.4	2.4	0.2	1.1	0.1	30.5	2.46	29.1	0.8
	51	52	5981	12001	1182	3686	253	37.1	64.8	4.6	13.1	1.3	2.4	0.2	0.9	0.1	26.7	2.33	35.1	0.6
	52	53	5407	10392	1009	3114	212	30.5	54.8	3.7	10.7	1.2	1.8	0.2	0.7	0.1	24.1	2.03	23.3	0.8
	53	54	5113	9987	988	3068	205	29.4	50.9	3.3	9.2	0.9	1.7	0.2	0.7	0.1	20.3	1.95	19.8	0.5
	54	55	10274	20269	2126	6404	422	59.5	101.2	6.8	18.4	1.7	2.7	0.2	0.9	0.1	38.1	3.97	49.6	0.4
	55	56	6063	11928	1192	3581	232	32.9	57.8	3.8	11.0	1.0	2.1	0.1	0.7	0.1	22.9	2.31	23.1	0.6
	56	57	8538	16706	1704	4981	328	46.9	79.5	5.4	15.2	1.5	2.4	0.2	0.9	0.1	31.8	3.24	37.2	0.4
	57	58	6978	12960	1263	3674	245	36.7	64.1	4.4	12.9	1.3	2.6	0.2	1.1	0.2	30.5	2.53	29.3	0.4
	58	59	5618	11142	1079	3301	207	30.8	51.6	3.6	11.0	1.1	2.1	0.2	0.9	0.1	22.9	2.15	27.0	1.2
	59	60	5993	11989	1177	3628	242	35.3	59.8	4.0	11.7	1.1	1.7	0.2	0.7	0.1	24.1	2.32	33.5	1.1
	60	61	5852	11240	1103	3429	237	33.7	58.6	4.2	12.3	1.2	1.9	0.2	1.1	0.1	26.7	2.20	30.1	0.4
	61	62	5454	10552	1034	3219	213	30.6	52.3	3.8	10.6	1.1	1.9	0.2	1.0	0.2	24.1	2.06	24.0	0.3
	62	63	6286	12468	1263	3697	230	32.9	55.3	3.7	10.3	1.0	1.8	0.2	0.9	0.1	21.6	2.41	21.7	0.3
	63	64	4832	9348	889	2788	179	27.2	46.1	3.2	9.1	1.0	1.4	0.1	0.6	0.1	21.6	1.81	21.7	0.3
	64	65	4504	8832	846	2648	172	26.8	48.2	3.5	11.3	1.2	1.8	0.2	0.8	0.1	25.4	1.71	30.2	0.4
	65	66	6873	12653	1162	3593	221	33.9	61.0	4.6	15.0	1.3	2.1	0.2	0.8	0.1	30.5	2.47	42.9	1.0
	66	67	5172	9790	941	2939	181	29.6	54.4	4.5	15.4	1.5	1.9	0.2	0.7	0.1	34.3	1.92	34.1	0.8
	67	68	4058	7874	765	2403	143	22.8	38.4	2.4	7.1	0.7	1.3	0.1	0.5	0.1	15.2	1.53	15.4	-0.3

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 %	Th ppm	U ppm	
	68	69	6040	11363	1098	3418	228	37.4	68.6	5.7	18.4	1.6	2.4	0.2	1.1	0.1	40.6	2.23	54.3	1.1	
	69	70	4163	8034	783	2484	158	24.0	39.1	2.4	7.0	0.7	1.4	0.1	0.6	0.1	15.2	1.57	15.5	0.4	
	70	71	4832	9336	918	2916	191	29.9	49.9	3.2	8.6	0.9	1.5	0.1	0.5	0.1	17.8	1.83	22.4	0.9	
	71	72	7330	14434	1414	4514	306	46.6	80.2	5.4	15.7	1.4	2.2	0.1	0.7	0.1	30.5	2.82	43.6	1.1	
	72	73	4421	8476	824	2613	171	26.5	46.3	2.8	8.0	0.8	1.3	0.1	0.6	-0.1	17.8	1.66	20.2	0.5	
	73	74	4163	8193	803	2589	170	27.2	49.7	3.8	11.3	1.0	1.4	0.1	0.6	0.1	21.6	1.60	41.1	1.2	
	74	75	4891	9520	930	2974	196	30.0	46.9	3.4	10.0	1.0	1.5	0.2	0.6	0.1	21.6	1.86	33.2	0.9	
	75	76	5805	11142	1084	3453	238	36.2	63.9	4.6	14.5	1.5	2.3	0.2	1.3	0.2	34.3	2.19	40.8	1.9	
	76	77	8995	16829	1698	4992	322	51.3	89.9	6.8	21.0	2.0	3.0	0.2	1.1	0.1	44.5	3.31	55.3	1.2	
	77	78	9324	16891	1637	4794	327	54.3	103.2	8.2	25.5	2.4	3.4	0.3	1.5	0.2	52.1	3.32	90.4	1.2	
	78	79	8479	14802	1365	4176	269	45.3	88.1	8.1	26.7	2.2	2.7	0.2	0.8	0.1	44.5	2.93	78.7	1.5	
	79	80	16478	27148	2586	7640	581	98.9	188.5	15.5	47.3	4.0	5.2	0.3	1.6	0.2	83.8	5.49	187.0	1.5	
	80	81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	81	82	16302	29113	2924	9355	705	122.2	232.8	19.1	62.6	5.7	8.7	0.6	3.5	0.5	130.8	5.90	274.0	2.9	
	82	83	13077	24445	2513	7593	593	104.2	200.6	17.2	55.2	5.8	8.4	0.6	3.1	0.5	125.7	4.87	196.5	2.7	
	83	84	23163	38449	3600	11022	764	135.5	255.9	20.6	72.7	6.6	9.5	0.7	3.3	0.4	142.2	7.76	209.0	2.4	
	84	85	16067	26533	2549	7325	507	85.1	160.2	12.7	43.0	4.1	6.4	0.5	2.6	0.3	95.2	5.34	121.0	2.1	
	85	86	24042	40660	3890	12072	797	133.2	242.1	17.4	56.2	4.9	7.6	0.5	2.6	0.4	107.9	8.20	151.5	2.3	
	86	87	22166	37958	3673	11197	739	123.3	226.5	17.1	55.7	5.0	7.7	0.6	2.9	0.4	111.8	7.63	147.5	3.3	
	87	88	41869	71247	6403	20179	1334	220.6	397.7	28.5	114.8	7.5	11.4	0.7	3.3	0.4	162.6	14.20	256.0	3.9	
	88	89	38468	65228	5920	18371	1223	198.0	352.7	25.1	114.8	6.9	10.3	0.7	3.3	0.4	152.4	13.01	200.0	4.5	
	89	90	24512	43363	4180	13239	862	138.4	240.9	16.6	50.6	4.6	7.0	0.5	2.7	0.3	101.6	8.67	141.0	5.1	
	90	91	7565	14004	1335	4222	305	52.0	99.4	7.8	27.0	3.0	5.8	0.7	3.5	0.5	77.5	2.77	64.3	7.8	
	91	92	13898	25919	2598	7815	511	81.1	144.7	12.1	44.8	4.7	8.1	0.6	4.2	0.5	118.1	5.12	95.8	5.8	
	92	93	13429	26042	2537	7570	475	74.0	141.2	12.4	44.5	4.5	7.8	0.7	4.0	0.6	119.4	5.05	129.5	2.6	
	93	94	15188	29113	2924	8981	536	89.6	170.6	16.1	57.3	5.4	7.7	0.6	3.1	0.4	132.1	5.72	179.5	3.3	
	94	95	14895	29727	3069	9308	526	84.5	153.3	12.9	37.6	3.6	4.9	0.5	1.9	0.3	78.7	5.79	137.5	2.3	
	95	96	9488	19102	1981	5715	337	54.4	98.6	8.3	25.9	2.7	4.5	0.4	2.1	0.4	71.1	3.69	85.0	1.7	
	96	97	9148	18057	1824	5330	313	48.5	85.3	6.5	17.1	1.7	2.4	0.2	1.1	0.2	38.1	3.49	67.7	1.4	
	97	98	11259	22603	2326	6823	395	60.3	107.2	8.9	24.5	2.4	2.9	0.3	1.3	0.2	49.5	4.37	98.0	5.5	
	98	99	8644	17075	1740	5016	293	45.4	80.3	7.1	21.7	2.2	3.1	0.3	1.5	0.2	52.1	3.30	72.6	10.3	
	99	100	7811	15539	1631	4677	281	44.8	79.9	6.3	18.8	1.8	2.6	0.3	1.4	0.2	45.7	3.01	70.0	2.4	
	100	101	11564	22357	2241	6788	377	61.5	115.1	9.8	32.9	3.1	4.8	0.4	1.9	0.3	72.4	4.36	97.4	2.6	
	101	102	8315	16461	1728	4946	295	46.0	79.4	5.8	17.9	1.8	3.0	0.3	1.4	0.2	40.6	3.19	49.5	2.2	
	102	103	8280	16583	1722	5027	299	47.6	82.0	6.4	18.0	1.9	2.7	0.2	1.3	0.2	41.9	3.21	58.4	3.0	
	103	104	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	104	105	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	105	106	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	106	107	5536	10896	1093	3324	201	31.4	54.3	4.0	11.0	1.2	1.8	0.2	1.0	0.2	27.9	2.12	34.8	2.5	
	107	108	6321	12898	1317	4012	249	38.8	67.3	4.9	12.9	1.3	1.8	0.2	1.0	0.2	30.5	2.50	45.4	1.7	
	108	109	6486	12837	1299	3966	244	38.3	67.1	5.0	13.7	1.4	2.2	0.2	1.1	0.2	29.2	2.50	48.6	2.8	
	109	110	8069	16031	1673	4946	322	51.8	86.9	5.7	14.6	1.5	2.4	0.2	1.1	0.2	31.8	3.12	57.3	11.3	
	110	111	6920	13942	1486	4479	304	46.9	77.2	4.8	11.4	1.2	1.8	0.2	0.8	0.1	25.4	2.73	87.0	100.5	
	111	112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	112	113	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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 %	Th ppm	U ppm
	113	114	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	114	115	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	115	116	6228	12530	1281	3966	264	43.3	74.0	5.1	14.4	1.5	2.3	0.2	1.3	0.2	34.3	2.44	55.7	20.5
	116	117	7740	15048	1510	4351	260	40.0	67.8	4.6	12.1	1.4	2.1	0.2	0.9	0.2	27.9	2.91	46.1	10.0
	117	118	5770	11228	1096	3336	209	33.9	62.8	5.0	15.0	1.7	3.0	0.3	1.7	0.3	40.6	2.18	53.2	4.6
	118	119	7412	14004	1383	4001	246	39.8	69.6	5.2	15.5	1.7	3.0	0.3	1.6	0.2	40.6	2.72	46.6	6.8
	119	120	8010	16215	1649	4724	264	40.1	68.7	4.8	12.2	1.3	2.2	0.2	0.8	0.1	29.2	3.10	36.8	2.0
	120	121	4973	9999	1016	3173	200	32.4	56.6	4.6	14.4	1.5	2.3	0.2	1.3	0.2	34.3	1.95	46.4	12.0
	121	122	5887	11412	1116	3429	216	35.4	63.1	5.2	16.6	1.8	2.9	0.3	1.7	0.2	44.5	2.22	49.0	21.3
	122	123	3999	8120	834	2624	179	28.1	51.2	4.0	12.7	1.4	2.5	0.3	1.7	0.3	34.3	1.59	43.1	10.5
	123	124	5536	10933	1093	3441	237	40.4	74.5	6.3	19.1	2.1	3.8	0.4	2.6	0.5	50.8	2.14	63.0	16.0
	124	125	7869	13942	1293	3709	227	38.8	74.3	7.1	24.0	3.4	6.6	0.7	3.6	0.5	88.9	2.73	55.3	14.2
	125	126	19175	32675	2984	8188	448	72.4	127.4	9.4	26.5	2.8	3.9	0.4	1.7	0.3	59.7	6.38	97.4	10.9
	126	127	9746	17996	1722	4852	289	49.1	88.3	6.7	20.0	2.1	3.5	0.3	1.9	0.3	50.8	3.48	65.1	10.0
	127	128	6591	12468	1205	3581	215	34.0	58.3	4.5	13.7	1.4	2.4	0.2	1.3	0.2	33.0	2.42	37.3	9.8
	128	129	6673	12837	1275	3896	237	36.0	59.2	4.2	12.1	1.4	2.3	0.3	1.1	0.3	27.9	2.51	29.8	5.3
	129	130	4058	8058	820	2578	177	28.5	53.6	4.5	13.8	1.6	2.9	0.3	2.3	0.4	38.1	1.58	46.2	13.6
	130	131	1947	4152	441	1580	136	24.1	50.7	4.9	17.8	1.7	3.2	0.4	2.3	0.3	45.7	0.84	56.8	25.1
	131	132	2005	3919	382	1312	131	33.0	106.5	20.3	130.8	20.3	46.5	5.2	30.6	3.7	613.4	0.88	145.5	28.2
	132	133	2017	3906	379	1295	118	24.4	59.2	6.2	29.2	4.4	11.1	1.2	7.6	0.9	121.9	0.80	50.6	9.0
	133	134	1601	3157	313	1109	115	25.1	61.6	6.9	33.2	4.8	11.9	1.6	10.7	1.4	137.2	0.66	47.9	7.5
	134	135	2093	4091	410	1411	129	26.2	56.5	5.2	22.0	2.8	6.5	0.8	5.7	0.9	77.5	0.83	41.7	28.0
	135	136	1115	2469	257	944	108	22.9	52.7	5.0	21.4	3.0	7.2	0.8	5.6	0.8	86.4	0.51	30.4	19.4
	136	137	561	1139	127	488	69	17.1	47.0	5.1	25.5	3.6	8.1	0.9	4.3	0.6	96.5	0.26	18.3	10.0
	137	138	761	1621	167	618	76	16.4	42.5	4.3	20.2	3.0	6.9	0.8	4.4	0.5	80.0	0.34	18.8	9.8
	138	139	571	1151	127	479	66	15.2	41.4	4.5	21.5	3.1	7.6	0.8	4.3	0.6	85.1	0.26	17.0	9.9
	139	140	596	1176	130	511	73	17.4	47.7	5.5	25.5	3.9	9.0	1.0	5.1	0.6	104.1	0.27	20.4	11.5
	140	141	304	676	83	345	59	14.7	42.4	5.0	22.7	3.6	8.1	0.9	5.0	0.6	97.8	0.17	17.9	12.9
	141	142	772	1529	155	563	77	17.7	51.2	5.6	25.6	3.9	8.8	0.9	5.0	0.7	102.9	0.33	22.7	9.9
	142	143	303	662	80	339	57	15.1	43.8	4.8	23.6	3.5	8.5	1.0	5.0	0.6	95.2	0.16	18.6	11.7
	143	144	561	1112	123	477	68	17.5	47.6	5.3	26.2	3.8	8.8	0.9	5.6	0.6	104.1	0.26	20.1	10.3
	144	145	771	1640	166	588	68	15.3	42.1	4.5	21.9	3.3	7.2	0.8	4.4	0.6	85.1	0.34	22.2	9.9
	145	146	3143	6093	604	2006	158	28.7	63.3	5.4	24.3	3.2	7.1	0.7	4.3	0.5	83.8	1.22	39.4	6.8
	146	147	4457	8107	768	2414	172	29.4	59.7	4.8	18.1	2.3	4.4	0.5	2.7	0.3	57.2	1.61	42.6	13.7
	147	148	9723	15478	1311	3802	225	34.0	62.9	5.1	17.7	1.8	3.2	0.3	1.5	0.2	45.7	3.07	47.3	9.2
<b>KGKRC054</b>	0	1	17299	28622	2682	7897	480	78.5	141.2	10.0	32.1	3.6	6.5	0.6	3.3	0.4	83.8	5.73	63.8	3.2
	1	2	22342	35869	3262	9471	557	90.0	163.7	11.6	37.3	4.0	7.1	0.7	3.2	0.4	91.4	7.19	70.3	2.8
	2	3	7424	11977	1051	3068	195	31.6	60.4	4.4	15.7	1.6	2.5	0.2	1.4	0.2	38.1	2.39	27.6	1.2
	3	4	4656	7530	660	1983	131	21.5	40.8	3.2	10.6	1.2	2.4	0.2	1.1	0.2	29.2	1.51	15.1	1.1
	4	5	4375	7063	620	1831	117	20.4	38.3	2.9	10.7	1.3	2.4	0.2	1.1	0.1	33.0	1.41	15.6	0.5
	5	6	8268	12837	1093	3138	185	28.7	50.6	3.6	12.9	1.5	3.0	0.3	1.6	0.2	38.1	2.57	23.0	0.8
	6	7	8690	12775	1061	2998	164	25.1	43.6	3.0	9.4	1.1	1.8	0.2	0.8	0.1	24.1	2.58	16.6	0.8
	7	8	12021	17505	1420	3942	214	33.0	58.7	3.9	11.0	1.2	1.8	0.2	0.7	0.1	26.7	3.52	19.2	0.6
	8	9	15891	23278	2006	5074	267	40.8	72.4	4.7	14.6	1.3	2.5	0.2	0.8	0.1	29.2	4.67	26.4	0.7
	9	10	10966	16092	1323	3686	204	32.1	55.0	3.7	10.9	1.1	1.9	0.2	0.8	0.1	25.4	3.24	24.3	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 %	Th ppm	U ppm
	10	11	6204	11375	1104	3569	239	35.3	62.0	3.9	12.1	1.3	2.5	0.3	1.3	0.2	27.9	2.26	33.4	0.5
	11	12	8245	12898	1087	3114	186	29.6	54.9	3.7	11.0	1.1	2.1	0.2	1.1	0.2	29.2	2.57	25.6	0.8
	12	13	10825	17628	1583	4316	267	44.1	73.5	4.8	13.2	1.5	2.5	0.2	1.4	0.2	36.8	3.48	36.5	0.9
	13	14	9676	14986	1232	3406	210	36.1	66.2	4.8	15.5	1.7	3.1	0.3	1.7	0.2	43.2	2.97	35.3	0.8
	14	15	13253	20821	1891	5109	346	60.0	107.2	7.5	22.7	2.4	3.8	0.4	1.7	0.2	57.2	4.17	73.5	0.7
	15	16	9007	12837	1020	2741	160	29.8	53.3	3.8	11.7	1.3	2.7	0.2	1.4	0.2	34.3	2.59	23.5	0.7
	16	17	15891	23892	1987	5155	292	47.4	79.4	4.8	12.3	1.2	1.6	0.1	0.6	0.1	24.1	4.74	37.4	0.5
	17	18	11493	16952	1371	3697	210	34.0	57.8	3.3	8.7	0.7	1.0	0.1	0.5	0.1	16.5	3.38	28.2	0.4
	18	19	11529	16399	1299	3441	191	30.5	53.0	3.2	9.4	0.9	1.6	0.2	0.7	0.1	22.9	3.30	25.6	0.3
	19	20	20289	29850	2513	6450	363	58.8	100.6	6.6	18.4	1.9	3.2	0.3	1.0	0.1	45.7	5.97	49.2	0.6
	20	21	16009	23340	1994	5016	283	46.8	78.7	5.1	14.1	1.5	2.5	0.3	1.1	0.2	38.1	4.68	35.9	0.8
	21	22	3823	5589	455	1266	79	14.1	26.5	2.0	6.2	0.8	1.7	0.1	0.7	0.1	20.3	1.13	13.5	2.1
	22	23	1624	2543	207	582	40	7.3	13.8	1.3	4.7	0.6	1.3	0.1	0.6	0.1	16.5	0.50	7.6	1.0
	23	24	3073	4385	344	961	62	11.4	21.4	1.9	7.9	1.0	1.8	0.2	0.8	0.1	25.4	0.89	12.8	2.3
	24	25	1384	2211	176	497	36	6.7	14.2	1.5	7.2	0.9	1.7	0.2	0.9	0.1	25.4	0.44	8.7	0.8
	25	26	1366	2187	170	479	30	5.3	9.8	0.9	2.9	0.4	0.9	0.1	0.6	0.1	11.4	0.43	5.6	0.4
	26	27	14895	21190	1776	4374	240	38.3	65.7	4.4	12.4	1.2	1.9	0.1	0.7	0.1	26.7	4.26	32.4	0.5
	27	28	9699	13820	1086	2939	168	27.0	48.1	3.4	10.2	1.1	2.1	0.2	0.9	0.2	27.9	2.78	19.2	0.6
	28	29	12373	17935	1408	3802	210	34.0	56.7	3.6	10.0	1.0	1.9	0.1	0.8	0.1	25.4	3.59	24.8	0.4
	29	30	15774	22357	1891	4736	249	40.1	67.8	4.9	13.9	1.5	3.0	0.2	1.1	0.2	36.8	4.52	31.5	0.9
	30	31	3143	4631	366	1023	66	12.4	23.7	1.8	7.2	1.0	2.1	0.3	1.6	0.3	25.4	0.93	11.8	0.8
	31	32	2357	3562	294	853	59	10.9	22.4	2.1	9.2	1.4	3.3	0.4	2.2	0.3	40.6	0.72	11.8	1.0
	32	33	4691	7039	576	1621	101	17.5	31.9	2.7	9.4	1.2	2.4	0.2	1.5	0.2	30.5	1.41	13.8	1.0
	33	34	6497	10036	845	2344	141	23.0	42.1	3.0	11.3	1.3	3.1	0.3	1.7	0.3	36.8	2.00	17.7	1.0
	34	35	9570	15539	1317	3686	222	37.1	62.7	4.3	11.7	1.3	2.3	0.2	0.7	0.1	30.5	3.05	30.4	1.1
	35	36	11271	18733	1698	4502	266	41.9	76.0	5.4	16.2	1.8	3.0	0.3	1.3	0.2	40.6	3.67	29.3	1.0
	36	37	10919	18180	1710	4701	327	57.3	103.2	7.1	22.3	2.4	4.5	0.4	1.9	0.2	57.2	3.61	61.1	0.7
	37	38	9054	15171	1299	3721	223	36.6	64.7	4.5	13.9	1.5	2.7	0.3	1.4	0.2	39.4	2.96	27.5	2.0
	38	39	5149	8218	690	1925	112	17.6	31.5	2.2	7.4	0.9	1.6	0.2	0.8	0.1	24.1	1.62	13.4	0.7
	39	40	16712	24814	2090	5330	302	49.6	86.9	6.1	17.2	1.8	2.7	0.2	1.3	0.2	40.6	4.95	43.2	1.1
	40	41	11540	16768	1335	3651	210	35.4	63.1	4.1	12.1	1.3	2.3	0.2	1.0	0.1	30.5	3.37	26.7	1.0
	41	42	6556	9655	799	2280	145	25.7	46.6	3.5	10.9	1.3	2.3	0.2	1.1	0.2	30.5	1.96	27.0	1.2
	42	43	11071	15846	1317	3406	205	34.6	61.3	5.1	15.8	2.0	3.3	0.3	1.7	0.2	49.5	3.20	33.6	0.9
	43	44	6849	10061	861	2309	151	24.9	46.6	3.8	11.9	1.5	2.6	0.2	1.5	0.2	35.6	2.04	30.7	3.1
	44	45	15481	22664	1927	5074	305	46.7	80.1	5.4	13.8	1.4	2.1	0.1	0.8	0.1	29.2	4.56	37.2	0.6
	45	46	9840	15109	1305	3488	210	33.4	58.1	4.3	12.6	1.7	2.7	0.2	1.5	0.2	39.4	3.01	24.3	0.9
	46	47	7940	12837	1150	3231	210	32.5	56.6	3.7	10.2	1.1	1.9	0.2	0.9	0.1	25.4	2.55	27.9	3.1
	47	48	7565	11952	1095	3044	197	29.4	50.0	3.3	8.6	1.0	1.5	0.1	0.7	0.1	21.6	2.40	24.2	3.8
	48	49	6544	10429	924	2543	165	26.4	49.1	3.8	11.3	1.2	1.9	0.2	0.9	0.1	29.2	2.07	19.9	5.9
	49	50	4961	8046	721	2030	142	24.4	45.4	3.8	11.7	1.4	2.6	0.2	1.1	0.2	31.8	1.60	14.9	4.9
	50	51	8045	12530	1087	2939	179	29.0	50.6	3.7	11.1	1.4	2.1	0.2	0.8	0.1	27.9	2.49	20.1	4.4
	51	52	6920	10884	981	2729	187	31.6	56.3	4.2	12.3	1.5	2.1	0.2	1.0	0.1	30.5	2.18	38.6	3.1
	52	53	6040	9532	855	2356	151	23.9	41.6	2.9	8.6	1.0	1.8	0.2	0.9	0.1	22.9	1.90	19.2	2.7
	53	54	5876	9225	816	2245	140	21.0	37.0	2.5	7.9	0.8	1.5	0.1	0.6	0.1	19.1	1.84	13.4	4.2
	54	55	4515	7051	609	1668	104	17.0	30.8	2.5	7.6	0.8	1.5	0.1	0.7	0.1	17.8	1.40	13.4	5.1

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 %	Th ppm	U ppm
	55	56	5594	8697	753	2024	120	18.2	31.2	2.1	6.1	0.7	0.9	0.1	0.7	0.1	14.0	1.73	12.0	5.2
	56	57	7752	12284	1084	2928	178	26.6	47.7	3.1	8.4	0.9	1.6	0.1	0.7	0.1	19.1	2.43	17.8	4.4
	57	58	8984	13697	1171	3068	181	26.8	45.3	3.0	8.0	0.8	1.4	0.1	0.7	-0.1	19.1	2.72	19.6	2.6
	58	59	11364	17873	1534	4129	239	36.7	63.4	4.1	10.8	1.1	2.1	0.2	0.8	0.1	27.9	3.53	22.6	4.4
	59	60	12666	19409	1637	4327	253	39.7	72.0	5.2	15.3	1.8	3.2	0.3	1.8	0.2	41.9	3.85	35.7	5.1
	60	61	24160	36238	3153	8258	489	77.5	137.7	9.5	25.9	2.9	4.2	0.4	1.7	0.2	63.5	7.26	84.7	1.2
	61	62	33190	47171	3902	10066	581	93.7	171.2	12.3	34.7	3.9	5.7	0.5	1.7	0.2	82.5	9.53	96.0	1.1
	62	63	20641	30341	2622	6823	416	65.2	114.8	8.2	22.0	2.3	3.0	0.2	1.1	0.2	49.5	6.11	53.7	0.8
	63	64	22225	32798	2803	7337	459	75.7	138.3	10.0	30.8	3.1	4.9	0.4	1.7	0.2	71.1	6.60	78.7	1.0
	64	65	23691	34150	2900	7430	456	73.9	135.4	10.0	29.0	3.0	4.7	0.4	1.3	0.2	68.6	6.90	77.7	0.7
	65	66	14132	22418	2054	5517	351	55.1	94.6	6.3	18.7	2.1	3.2	0.3	1.5	0.2	47.0	4.47	50.0	0.8
	66	67	6685	11473	1079	3149	219	35.2	61.2	4.4	13.5	1.5	2.1	0.2	1.1	0.1	33.0	2.28	31.0	0.4
	67	68	6474	10319	938	2601	173	27.4	50.8	3.4	11.7	1.3	1.6	0.1	0.7	0.1	26.7	2.06	24.1	0.8
	68	69	8479	13328	1184	3266	220	37.9	73.8	6.0	17.9	2.1	2.9	0.3	1.0	0.2	45.7	2.67	52.0	1.0
	69	70	9335	15355	1335	3837	262	47.9	88.4	7.7	23.8	2.4	3.4	0.3	1.5	0.2	55.9	3.04	74.6	0.8
	70	71	8632	14188	1238	3488	215	35.0	59.0	4.2	11.7	1.3	2.1	0.2	0.8	0.1	26.7	2.79	25.3	1.6
	71	72	7506	12210	1066	3068	199	36.7	66.9	5.3	18.1	2.4	4.6	0.5	2.1	0.2	61.0	2.42	20.4	4.7
	72	73	7271	11670	1023	2928	184	29.2	52.4	3.6	11.0	1.3	2.2	0.2	1.0	0.2	29.2	2.32	19.1	4.8
	73	74	7365	11977	1035	2928	179	30.2	53.0	3.7	11.4	1.4	2.4	0.3	1.3	0.2	33.0	2.36	22.2	4.3
	74	75	6239	10208	903	2648	190	33.9	62.7	5.1	18.1	2.4	4.4	0.5	2.3	0.2	58.4	2.04	26.2	6.4
	75	76	8632	13942	1220	3488	219	38.3	66.3	5.1	15.0	1.7	2.7	0.2	1.3	0.1	38.1	2.77	38.5	2.6
	76	77	10168	16583	1456	4152	260	43.4	74.6	5.4	16.3	1.7	2.6	0.2	1.3	0.2	38.1	3.28	40.4	3.1
	77	78	6450	10331	895	2508	150	25.0	41.0	2.5	7.7	0.8	1.4	0.2	0.7	0.1	17.8	2.04	16.1	3.0
	78	79	17885	29236	2646	7407	446	75.2	122.2	8.3	23.6	2.7	4.7	0.4	1.9	0.2	61.0	5.79	53.7	1.4
	79	80	47264	74195	6524	19012	1119	189.9	302.0	19.3	52.5	5.2	8.0	0.6	2.6	0.3	106.7	14.88	140.0	1.9
	80	81	32135	53190	4797	13880	852	144.7	235.1	14.8	40.2	3.9	6.4	0.6	2.4	0.3	86.4	10.54	115.0	2.2
	0	1	8773	15724	1510	4642	387	70.4	127.4	10.6	39.6	5.2	9.8	1.1	6.3	0.7	133.3	3.14	58.3	9.2
	1	2	4351	7813	735	2245	182	33.6	61.2	5.0	17.1	2.0	3.7	0.3	1.8	0.2	49.5	1.55	19.1	7.6
	2	3	3718	7063	695	2222	191	36.1	67.2	5.3	20.0	2.5	4.9	0.5	2.4	0.3	62.2	1.41	24.3	5.1
	3	4	1701	3526	352	1119	103	17.8	32.3	2.6	8.5	1.1	2.2	0.2	1.3	0.2	27.9	0.69	18.0	1.8
	4	5	1572	3194	307	1051	100	20.2	43.3	4.0	16.8	2.1	4.7	0.5	2.7	0.3	53.3	0.64	19.2	2.1
	5	6	3061	5798	558	1825	145	26.3	50.0	4.1	14.2	1.8	3.4	0.3	1.6	0.2	41.9	1.15	22.5	1.9
	6	7	8327	15294	1432	4444	286	46.7	78.7	5.5	16.0	1.4	2.4	0.2	1.1	0.1	30.5	3.00	36.4	2.8
	7	8	4715	8402	794	2531	198	36.7	73.1	6.2	25.1	3.2	6.9	0.6	4.0	0.5	81.3	1.69	35.0	4.6
	8	9	4633	8120	756	2449	195	37.9	78.0	6.9	26.5	3.3	7.1	0.7	3.5	0.4	82.5	1.64	25.5	6.1
	9	10	4586	7985	738	2344	192	36.9	76.0	6.8	27.5	3.8	8.5	0.9	5.9	0.7	99.1	1.61	34.2	4.7
	10	11	2897	5122	486	1516	144	27.8	54.3	4.5	17.2	2.1	4.6	0.6	3.4	0.5	62.2	1.03	19.2	4.1
	11	12	3026	5270	507	1592	152	31.7	58.8	5.1	19.6	2.5	4.9	0.5	2.9	0.3	62.2	1.07	19.2	4.9
	12	13	2662	4840	459	1441	135	27.4	52.1	4.8	18.8	2.6	5.3	0.5	3.5	0.5	69.8	0.97	21.2	4.8
	13	14	3471	6019	558	1680	133	24.2	42.4	3.0	11.7	1.4	2.5	0.3	1.3	0.2	33.0	1.20	14.7	5.0
	14	15	4644	7923	733	2129	157	26.5	44.3	3.0	11.0	1.2	2.2	0.2	1.1	0.1	31.8	1.57	20.0	1.4
	15	16	3460	6007	562	1703	144	25.4	47.0	3.6	15.2	1.8	3.7	0.3	1.7	0.3	47.0	1.20	17.9	2.5
	16	17	2862	5258	507	1586	143	26.4	47.7	4.2	15.6	1.8	3.4	0.3	2.2	0.3	44.5	1.05	31.7	3.4
	17	18	1607	3317	318	1004	84	15.1	25.7	2.0	6.8	0.8	1.5	0.2	0.8	0.1	19.1	0.64	17.4	4.5
	18	19	4281	9238	929	3103	256	42.3	70.5	6.1	19.3	2.4	4.2	0.5	3.5	0.6	62.2	1.80	69.0	3.1



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 %	Th ppm	U ppm
	19	20	3659	6498	586	1814	146	25.9	44.4	4.0	14.9	2.1	4.0	0.3	2.5	0.3	50.8	1.29	17.9	5.1
	20	21	2592	4840	439	1376	107	19.2	32.3	2.9	9.3	1.2	2.2	0.1	1.1	0.1	27.9	0.94	21.4	3.8
	21	22	2275	4435	408	1289	99	16.4	28.7	2.4	8.4	1.0	1.8	0.1	0.8	-0.1	24.1	0.86	14.2	3.5
	22	23	1577	3059	280	884	72	13.9	23.3	2.4	10.0	1.3	2.4	0.2	1.3	0.1	33.0	0.60	11.6	2.6
	23	24	3835	7186	697	2309	220	42.2	81.3	8.4	29.0	3.5	6.6	0.6	4.6	0.6	92.7	1.45	56.9	7.4
	24	25	3800	7530	750	2613	279	56.0	108.0	9.8	32.5	4.1	7.8	0.6	4.7	0.5	100.3	1.53	62.3	8.4
	25	26	3870	7039	633	1954	143	24.2	40.0	3.4	10.9	1.3	2.3	0.1	1.3	0.1	31.8	1.38	16.9	2.9
	26	27	4703	8488	766	2333	159	25.9	40.9	3.0	9.4	1.2	1.9	0.1	0.8	0.1	26.7	1.66	21.5	5.1
	27	28	3988	7493	695	2140	153	25.5	40.9	3.1	9.3	1.2	2.1	0.1	0.9	0.1	24.1	1.46	19.1	6.5
	28	29	3788	7149	663	2047	146	23.2	37.3	2.6	7.6	0.8	1.5	-0.1	0.6	-0.1	17.8	1.39	17.0	6.5
	29	30	3108	5872	532	1627	119	20.2	31.4	2.2	6.0	0.8	1.4	-0.1	0.6	-0.1	16.5	1.13	15.6	6.5
	30	31	2955	5307	469	1423	107	17.6	28.2	2.2	6.8	0.9	1.6	0.1	0.9	-0.1	20.3	1.03	15.5	2.1
	31	32	3882	6363	542	1580	105	16.9	27.6	2.2	6.5	0.8	1.6	0.1	0.8	-0.1	20.3	1.25	12.9	2.9
	32	33	4867	7911	674	1942	133	21.8	35.3	2.9	8.2	1.0	1.7	0.1	1.1	-0.1	22.9	1.56	17.9	2.8
	33	34	8374	13635	1166	3418	223	36.6	57.5	4.2	11.6	1.3	2.1	0.1	0.8	-0.1	27.9	2.70	31.4	2.5
	34	35	6920	11891	1051	3114	221	38.0	64.7	5.1	16.3	2.0	3.7	0.2	1.7	0.1	44.5	2.34	32.7	2.1
	35	36	9218	15294	1323	3849	261	44.2	70.9	5.1	14.1	1.6	2.7	0.1	1.0	0.1	33.0	3.01	35.9	2.5
	36	37	11189	18672	1595	4677	308	49.8	80.8	5.8	14.2	1.7	2.6	0.1	1.1	-0.1	35.6	3.66	36.5	1.7
	37	38	9734	15908	1359	3966	262	42.4	68.4	4.7	11.9	1.2	2.3	0.1	0.9	-0.1	26.7	3.14	30.2	1.5
	38	39	7260	11092	911	2566	159	26.5	41.0	3.0	8.0	0.9	1.5	-0.1	0.9	-0.1	19.1	2.21	18.2	2.8
	39	40	8221	13205	1108	3184	208	34.9	53.7	3.7	9.5	1.1	1.7	-0.1	0.8	-0.1	21.6	2.61	23.0	2.9
	40	41	10919	17382	1462	4141	267	43.5	68.9	4.7	13.0	1.4	2.3	-0.1	0.9	-0.1	26.7	3.43	29.6	3.8
	41	42	10790	17136	1456	4199	266	43.1	68.2	4.9	12.4	1.4	2.1	0.1	0.7	-0.1	26.7	3.40	28.5	4.4
	42	43	9206	14925	1293	3744	245	39.6	61.2	4.3	10.4	1.2	1.7	-0.1	0.7	-0.1	22.9	2.96	25.3	3.8
	43	44	13487	22603	2012	5680	373	61.5	97.9	6.9	17.9	1.9	2.9	0.1	1.3	0.1	36.8	4.44	50.6	3.5
	44	45	17709	30096	2791	7920	553	94.5	150.4	10.1	26.2	2.7	3.9	0.2	1.4	0.1	50.8	5.94	63.4	3.0
	45	46	15657	26411	2356	6683	442	73.2	115.8	7.9	21.2	2.1	3.5	0.2	1.3	0.1	45.7	5.18	52.2	2.4
	46	47	14015	22725	1994	5447	351	57.8	91.3	6.6	16.3	1.8	3.1	0.2	1.5	0.1	38.1	4.47	38.7	2.2
	47	48	15540	26779	2501	7103	495	80.5	125.1	8.8	22.5	2.3	3.7	0.2	1.6	0.2	49.5	5.27	60.0	3.1
	48	49	8878	15048	1432	4164	300	49.8	80.9	5.9	16.3	2.2	3.5	0.6	2.1	0.5	45.7	3.00	35.8	3.0
	49	50	9171	15846	1528	4467	320	53.0	85.2	5.9	16.8	2.0	3.5	0.3	1.7	0.2	43.2	3.15	36.2	3.0
	50	51	7518	13144	1275	3732	264	43.8	66.6	4.2	11.7	1.2	2.1	0.1	1.0	-0.1	25.4	2.61	36.3	4.5
	51	52	6075	10466	996	2939	205	34.2	52.6	3.4	10.0	1.1	2.1	0.1	0.8	-0.1	22.9	2.08	24.9	2.8
	52	53	8386	14127	1347	3872	286	50.8	83.3	5.9	16.8	1.7	3.0	0.2	1.4	0.1	38.1	2.82	48.2	1.6
	53	54	6439	11178	1063	3114	219	35.8	53.5	3.3	9.8	1.1	1.6	-0.1	0.9	-0.1	21.6	2.21	28.2	4.4
	54	55	6638	11215	1048	3033	202	31.8	48.9	3.2	9.0	1.0	1.6	-0.1	0.7	-0.1	19.1	2.23	22.4	4.2
	55	56	5489	9090	841	2379	162	27.0	40.9	2.7	7.7	0.9	1.4	0.1	0.6	-0.1	17.8	1.81	20.3	4.5
	56	57	6239	10405	967	2811	190	31.2	48.2	3.2	9.0	1.0	1.6	0.1	0.8	-0.1	19.1	2.07	23.8	4.9
	57	58	5207	9053	860	2519	172	28.4	43.1	2.9	7.6	0.9	1.6	0.1	0.8	-0.1	19.1	1.79	20.7	3.4
	58	59	7717	13082	1220	3546	249	39.5	63.2	3.9	10.3	1.2	1.9	0.1	0.8	-0.1	22.9	2.60	27.5	2.4
	59	60	7060	11731	1106	3184	220	37.2	56.9	3.9	10.1	1.1	1.8	-0.1	1.0	-0.1	22.9	2.34	26.5	2.2
	60	61	8913	14802	1395	4024	288	46.2	71.9	4.5	12.2	1.3	2.3	0.1	0.9	-0.1	25.4	2.96	34.7	2.6
	61	62	4691	8046	760	2239	157	25.2	39.1	2.3	7.0	0.7	1.6	0.1	0.9	-0.1	16.5	1.60	18.3	4.0
	62	63	3905	6842	643	1866	130	21.5	34.1	2.3	6.7	0.8	1.5	-0.1	0.8	-0.1	16.5	1.35	15.8	2.6
	63	64	5231	8857	841	2461	180	30.3	46.5	3.3	9.6	1.3	1.7	0.1	1.1	0.1	25.4	1.77	21.7	1.2

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 %	Th ppm	U ppm
	64	65	4339	7493	701	2053	150	25.4	40.6	2.6	8.8	1.1	1.8	0.1	0.9	-0.1	21.6	1.48	19.2	2.7
	65	66	3589	6314	603	1796	133	21.5	35.2	2.5	7.5	0.9	1.7	0.1	0.9	-0.1	19.1	1.25	18.3	3.3
	66	67	4480	7592	712	2105	156	25.9	42.1	2.7	9.1	1.2	1.9	0.1	1.1	-0.1	22.9	1.52	23.5	1.2
	67	68	12314	20514	1933	5517	400	66.1	106.5	6.7	18.3	1.9	2.6	0.1	1.1	0.1	34.3	4.09	51.4	1.9
	68	69	4292	7530	708	2105	150	24.2	37.9	2.4	7.0	0.8	1.6	-0.1	0.8	-0.1	19.1	1.49	17.3	2.3
	69	70	4844	7825	708	2012	136	22.0	34.1	2.1	6.3	0.8	1.3	-0.1	0.6	-0.1	15.2	1.56	16.5	5.6
	70	71	4656	7653	701	2024	144	24.9	40.7	2.7	9.1	1.0	2.1	-0.1	0.8	-0.1	21.6	1.53	21.5	1.9
	71	72	4550	7297	673	1954	135	22.9	36.8	2.4	8.0	1.0	1.6	0.1	0.7	-0.1	20.3	1.47	20.0	1.4
	72	73	5653	9582	913	2683	190	33.4	53.1	3.7	11.8	1.3	1.9	0.1	1.0	0.1	26.7	1.92	36.8	1.4
	73	74	2052	3931	384	1190	120	25.5	52.3	5.3	21.1	3.3	7.3	0.8	5.0	0.5	86.4	0.79	33.0	9.7
	74	75	516	1010	114	425	67	18.4	46.5	5.5	24.6	4.2	8.8	0.9	5.0	0.6	104.1	0.23	21.9	9.4
	75	76	850	1634	173	583	71	17.3	38.6	4.1	17.9	2.8	6.5	0.6	4.6	0.4	76.2	0.35	25.5	8.0
	76	77	3952	6707	634	1925	165	32.2	60.6	5.2	17.2	2.3	4.1	0.4	2.4	0.2	55.9	1.36	27.4	8.1
	77	78	2099	3919	377	1159	95	17.1	28.1	2.0	6.9	0.8	1.8	0.1	0.8	-0.1	20.3	0.77	15.5	4.5
	78	79	5172	8918	800	2315	158	27.0	43.9	3.1	9.3	1.0	1.7	0.1	0.9	0.1	22.9	1.75	23.3	3.3
	79	80	4023	7112	639	1866	133	23.6	41.0	3.6	13.1	1.4	2.6	0.2	1.4	0.2	36.8	1.39	25.3	2.4
	80	81	2733	4889	468	1400	106	20.2	36.7	4.4	19.3	2.0	3.9	0.2	1.7	0.2	55.9	0.97	35.2	2.7
	81	82	4316	7346	651	1872	133	24.1	45.0	5.0	20.4	2.1	3.0	0.2	1.1	0.2	49.5	1.45	47.8	3.0
	82	83	3941	7346	685	2047	152	26.5	48.5	5.2	20.0	2.0	3.2	0.2	1.5	0.2	49.5	1.43	48.2	3.0
	83	84	4621	8058	738	2187	159	27.8	47.5	4.6	18.1	1.8	2.7	0.2	1.0	0.2	43.2	1.59	38.4	2.9
	84	85	4386	7960	733	2193	160	28.7	49.6	5.3	22.0	2.2	3.5	0.2	1.6	0.2	57.2	1.56	42.7	3.1
	85	86	1871	3624	361	1117	86	16.0	30.2	3.5	17.0	1.8	2.7	0.2	1.3	0.1	44.5	0.72	31.4	2.1
	86	87	10215	19962	1915	5867	450	77.8	128.5	10.0	33.1	3.1	4.5	0.3	1.6	0.2	69.8	3.87	91.8	4.0
	87	88	3249	6044	587	1814	148	28.5	55.3	7.1	30.9	3.4	5.0	0.4	2.9	0.4	82.5	1.21	67.2	2.8
	88	89	3331	5982	568	1744	141	27.1	50.1	5.5	21.9	2.3	4.1	0.3	2.1	0.3	57.2	1.19	58.0	2.5
	89	90	5418	9262	840	2496	186	33.4	59.6	5.8	22.6	2.4	4.2	0.3	1.6	0.2	61.0	1.84	45.7	2.8
	90	91	3413	6314	600	1849	140	25.7	48.4	6.6	28.0	2.6	3.7	0.2	1.4	0.2	62.2	1.25	62.8	2.7
	91	92	4210	7542	696	2065	154	27.9	50.3	5.1	19.4	2.0	3.1	0.2	1.1	0.2	45.7	1.48	53.1	3.1
	92	93	4550	8095	742	2187	166	30.6	53.5	5.2	18.1	2.0	3.0	0.2	1.3	0.2	44.5	1.59	51.2	2.0
	93	94	4292	7800	718	2129	158	26.9	45.1	3.7	13.5	1.5	2.7	0.2	1.3	0.2	38.1	1.52	30.1	2.4
	94	95	5852	10405	956	2811	206	36.8	62.1	5.3	17.7	1.9	2.9	0.2	1.0	0.2	41.9	2.04	49.6	2.9
	95	96	4023	7383	695	2105	162	30.9	58.4	6.3	23.4	2.3	3.9	0.3	1.6	0.2	57.2	1.46	68.3	1.9
	96	97	3636	6695	648	1965	144	25.5	44.7	4.2	15.4	1.7	3.0	0.2	1.6	0.2	45.7	1.32	36.2	1.8
	97	98	3096	5700	555	1685	127	22.9	40.3	3.7	13.8	1.5	2.2	0.1	1.0	0.2	35.6	1.13	34.1	2.7
	98	99	3389	6289	610	1901	151	27.3	49.0	5.1	18.4	1.8	2.7	0.2	1.1	0.1	44.5	1.25	47.4	1.6
	99	100	4644	8218	753	2228	175	31.0	57.6	5.8	21.8	2.2	3.0	0.2	1.1	0.2	52.1	1.62	56.8	2.4
	100	101	4879	8415	752	2187	167	31.4	60.6	6.2	24.1	2.5	3.8	0.2	1.5	0.2	59.7	1.66	53.5	2.3
	101	102	4574	8157	760	2280	175	29.9	50.4	4.0	14.0	1.5	2.4	0.2	1.1	0.2	36.8	1.61	30.7	2.5
	102	103	3131	5909	586	1820	146	25.8	44.4	3.3	10.8	1.2	1.8	0.1	0.9	0.1	26.7	1.17	36.6	3.5
	103	104	1331	2469	249	802	83	18.8	41.3	4.4	18.1	2.6	6.0	0.6	3.6	0.5	68.6	0.51	31.5	6.1
	104	105	1601	2776	262	801	74	16.3	33.3	3.5	15.0	2.0	5.0	0.6	3.8	0.5	58.4	0.57	34.5	4.8
	105	106	3061	5221	487	1452	116	21.8	38.4	3.2	11.9	1.3	2.5	0.2	1.3	0.2	31.8	1.04	28.2	2.6
	106	107	4163	6830	627	1971	146	26.6	52.9	6.0	25.0	2.6	3.9	0.3	1.4	0.2	58.4	1.39	56.6	2.1
	107	108	5102	8537	764	2170	170	33.4	63.9	6.5	22.0	2.2	3.2	0.2	1.3	0.2	52.1	1.69	56.7	2.9
	108	109	7987	13635	1263	3394	269	52.2	98.0	10.4	38.6	4.0	5.5	0.4	1.9	0.3	92.7	2.69	88.0	5.4

## 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>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><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>Standard reverse circulation drilling using 5 ¼ inch face sampling hammer</p>

Criteria	JORC Code explanation	Commentary
<i>Drill sample recovery</i>	<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>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>
<i>Logging</i>	<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> <li>• <i>The total length and percentage of the relevant intersections logged.</i></li> </ul>	<p>All RC chips have been geologically logged by the onsite geologist at 1 m intervals and chip trays have been 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.</p>
<i>Sub-sampling techniques and sample preparation</i>	<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> </ul>	<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>

Criteria	JORC Code explanation	Commentary																																												
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<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>Quality of assay data and laboratory tests</p>	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <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><b>Assay and Laboratory Procedures – All Samples</b></p> <p>Samples were dispatched by air freight direct to ALS laboratory Johannesburg South Africa for sample preparation.</p> <table border="1" data-bbox="1171 726 1854 1125"> <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="1328 1332 1982 1437"> <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>	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
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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																																							

Criteria	JORC Code explanation	Commentary																
		<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 411 1980 485"> <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> </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> <p><b>QAQC</b></p> <p><b>Analytical Standards</b> CRM AMIS0356 and OREAS 463 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> 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>No laboratory contamination or bias is evident from results for the blank samples.</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>	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn				
Ag	As	Cd	Co	Cu	Li	Mo	Ni											
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Criteria	JORC Code explanation	Commentary															
<p>Verification of sampling and assaying</p>	<ul style="list-style-type: none"> <li>• The verification of significant intersections by either independent or alternative company personnel.</li> <li>• The use of twinned holes.</li> <li>• Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>• Discuss any adjustment to assay data.</li> </ul>	<p>No independent verification of significant intersection undertaken.</p> <p>One RC drill pair were twinned, KGKRC40 and KGKRC046, with assay results acceptably comparable over similar depths.</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> <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="1384 1241 1928 1455"> <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> </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>
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<i>Location of data points</i>	<ul style="list-style-type: none"> <li><i>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i></li> <li><i>Specification of the grid system used.</i></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>																																	

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>• <i>Quality and adequacy of topographic control.</i></li> </ul>	<p>Downhole surveys were acquired using non-magnetic gyroscope survey</p> <p>Topography is derived from SRTM 30 metre digital elevation database.</p>
<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>

Criteria	JORC Code explanation	Commentary
		<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> <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</p>

Criteria	JORC Code explanation	Commentary
		contiguous internal waste used in the calculation. This cut-off is consistent with other similar deposits.  No metal equivalents values are used.
<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.