27 November 2024

ASX: CRI

EXCELLENT HIGH GRADE CONTINUITY AT JUPITER AND MINERAL RESOURCE ESTIMATE UNDERWAY

The Board of Critica Limited (**Critica** or the **Company**) is pleased to announce final assay results from Mineral Resource drilling targeting high-grade zones at the Jupiter Project, which forms part of its broader Brothers Clay-Hosted Rare Earth Project in Western Australia. These results have again confirmed that the high-grade rare earth mineralisation at Jupiter demonstrates excellent continuity.

Critica has completed a detailed selection process and engaged leading geological consultants, SRK Consulting, to prepare the independent maiden Mineral Resource estimate for Jupiter. Work on this Mineral Resource estimate is in progress.

HIGHLIGHTS

- **Leading geological consultants, SRK Consulting, engaged to complete independent maiden Mineral Resource estimate for Jupiter.**
- **All assay data from the recent 262 infill drillhole program now received and provided to SRK Consulting.**
- **Receipt of final assay data from this infill drilling program has again confirmed that the high-grade zones at Jupiter demonstrate excellent continuity (refer Figure 2).**
- **Thorium and Uranium remain consistently very low throughout the entire Jupiter system.**
- **Current focus is finalisation of the maiden Mineral Resource estimate and advancing ongoing metallurgical testwork.**

Managing Director, Philippa Leggat, commented:

"In reviewing the final drilling data from the infill program at Jupiter, our technical team was delighted to again see such excellent grade continuity. Given the outstanding economic potential presented by the high grades at Jupiter, we made the decision to complete this infill drilling program targeting these high-grade areas with a focus on enhancing the certainty of the upcoming maiden Mineral Resource estimate.

"We have engaged SRK Consulting to prepare the maiden Mineral Resource estimate given their technical calibre, track record, and alignment with our focus on high-quality work. Critica's technical team made the remarkable discovery at Jupiter, meaning that all the exploration data is our own and we have not had to rely on the historical information of other parties. This delivers us a high degree of confidence in the quality of the drilling dataset that has been provided to SRK Consulting and the resulting robustness of the pending maiden Mineral Resource estimate for Jupiter.

"We are in an excellent financial position. Having funding secured through 2025 allows us the opportunity to advance Jupiter, and the broader Brothers Project, with a view to it becoming one of Australia's most significant, clay-hosted rare earth discoveries. Metallurgical studies are advancing, the Mineral Resource estimate is underway, and it will be my pleasure to update shareholders as we achieve each important milestone."

Table 1 | Significant Intercepts from Jupiter Resource Drilling Targeting High Grade Zones

Hole No.	Metres/TREO ppm	Including TREO ppm
JPAC104	**44 @ 2224**	**16 @ 4129**
JPAC107	**49 @ 2250**	**20 @ 3611**
JPAC108	**56 @ 2127**	
JPAC112	**35 @ 1585**	**12 @ 2098**
JPAC114	**60 @ 1796**	**20 @ 2603**
JPAC115	**50 @ 1655**	
JPAC118	**48 @ 1646**	**24 @ 2066**

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Hole No.	Metres/TREO ppm	Including TREO ppm
JPAC122	**55 @ 1736**	**24 @ 2009**
JPAC127	**43 @ 1721**	**16 @ 2184**
JPAC130	**34 @ 1720**	**8 @ 3061**
JPAC132	**36 @ 1814**	**20 @ 2290**
JPAC138	**54 @ 1408**	**12 @ 2326**
JPAC147	**38 @ 1513**	**12 @ 2213**
JPAC149	**24 @ 1889**	**12 @ 2125**
JPAC150	**24 @ 1986**	**20 @ 2195**
JPAC151	**53 @ 1858**	**28 @ 2227**
JPAC152	**31 @ 1764**	**16 @ 2006**
JPAC155	**32 @ 2244**	**4 @ 4103**
JPAC160	**33 @ 1477**	**8 @ 2906**
JPAC161	**46 @ 1627**	**8 @ 2012**
JPAC165	**35 @ 1884**	**12 @ 3353**
JPAC166	**32 @ 1728**	**4 @ 5649**
JPAC168	**45 @ 1498**	**8 @ 2343**
JPAC170	**25 @ 1859**	**12 @ 2578**
JPAC174	**31 @ 1585**	**12 @ 2394**
JPAC179	**47 @ 1856**	**32 @ 2085**
JPAC180	**33 @ 1992**	**12 @ 3051**
JPAC182	**31 @ 1621**	**12 @ 2321**
JPAC183	**28 @ 1768**	**8 @ 3345**
JPAC184	**55 @ 2065**	**20 @ 3116**
JPAC190	**48 @ 1728**	**24 @ 2367**
JPAC201	**56 @ 1347**	**12 @ 2255**
JPAC203	**31 @ 1746**	**16 @ 2254**
JPAC209	**54 @ 1869**	**16 @ 3168**
JPAC211	**34 @ 1770**	**12 @ 2316**
JPAC214	**17 @ 2527**	**4 @ 5380**
JPAC215	**58 @ 1606**	**24 @ 2072**
JPAC216	**79 @ 1460**	**28 @ 2430**
JPAC221	**46 @ 1724**	**12 @ 2349**
JPAC225	**53 @ 2221**	
JPAC226	**33 @ 2381**	**16 @ 3367**
JPAC229	**45 @ 1895**	**28 @ 2285**
JPAC233	**49 @ 1628**	**24 @ 2216**
JPAC239	**43 @ 1563**	**16 @ 2050**
JPAC240	**52 @ 1719**	**16 @ 2124**
JPAC241	**47 @ 2062**	**4 @ 3468**
JPAC242	**67 @ 1824**	**28 @ 2112**
JPAC243	**74 @ 1907**	**24 @ 2663**
JPAC244	**65 @ 1956**	**28 @ 2561**
JPAC245	**52 @ 2324**	**12 @ 3070**
JPAC247	**79 @ 1373**	**8 @ 2392**
JPAC249	**51 @ 1442**	**4 @ 4353**
JPAC257	**53 @ 1676**	**16 @ 2703**

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Figure 1 | New significant intersections from recent drilling, coloured by TREO grade-thickness and shown on gravity image.

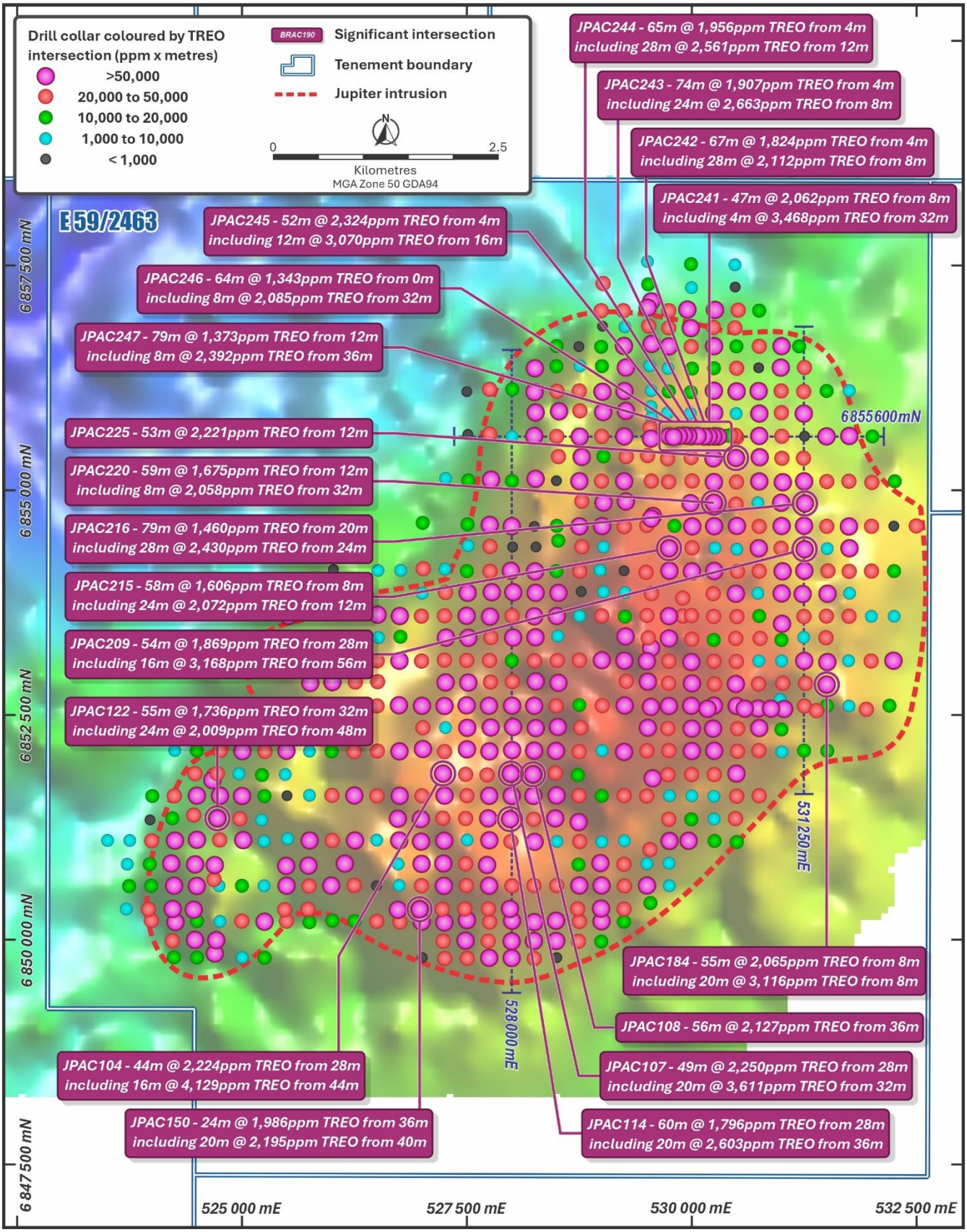

Figure 2 | East-west cross sections demonstrating the continuity of high-grade mineralisation

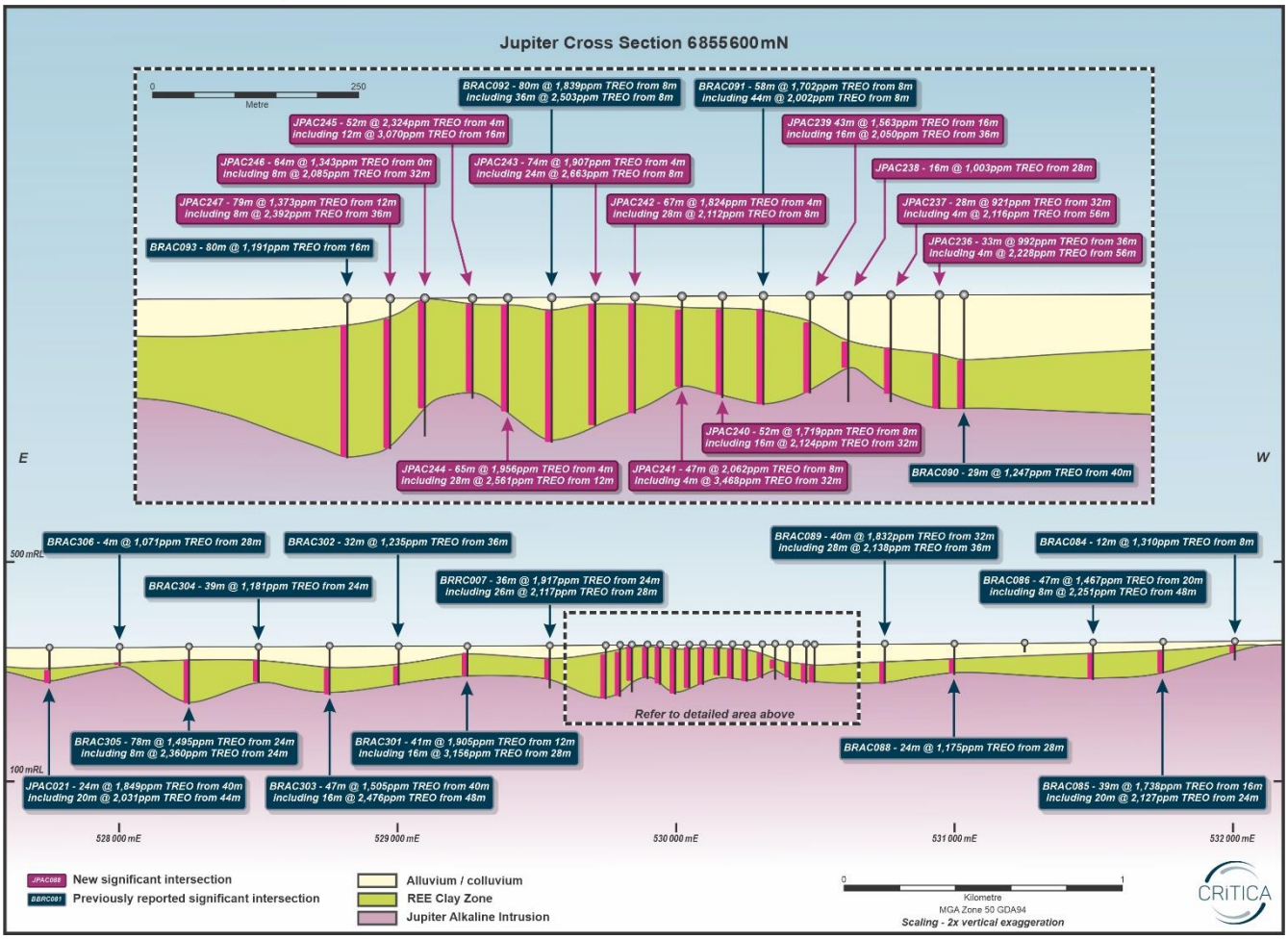

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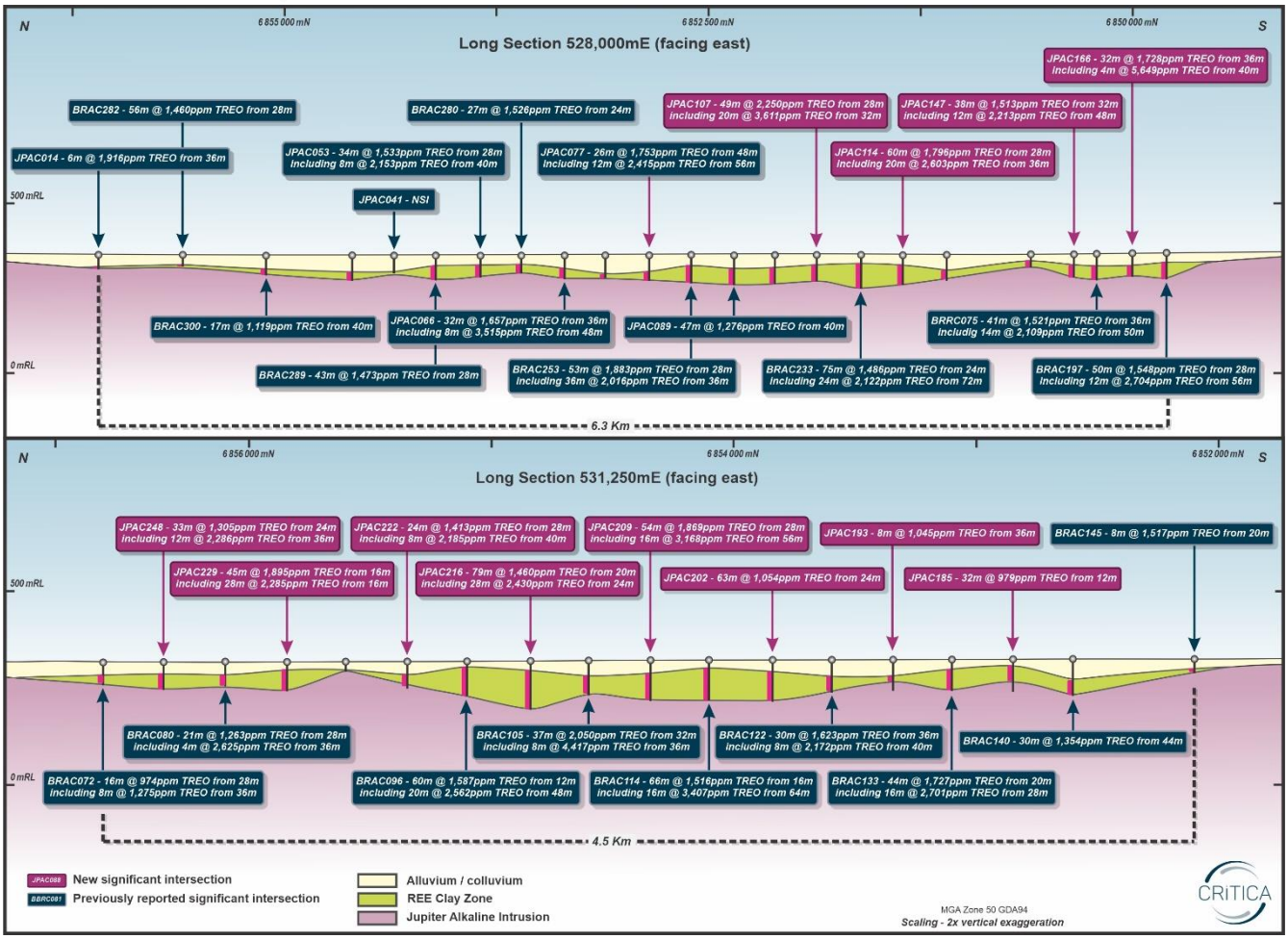
Figure 3 | North-south long sections demonstrating the continuity of high-grade mineralisation at 250m spacing



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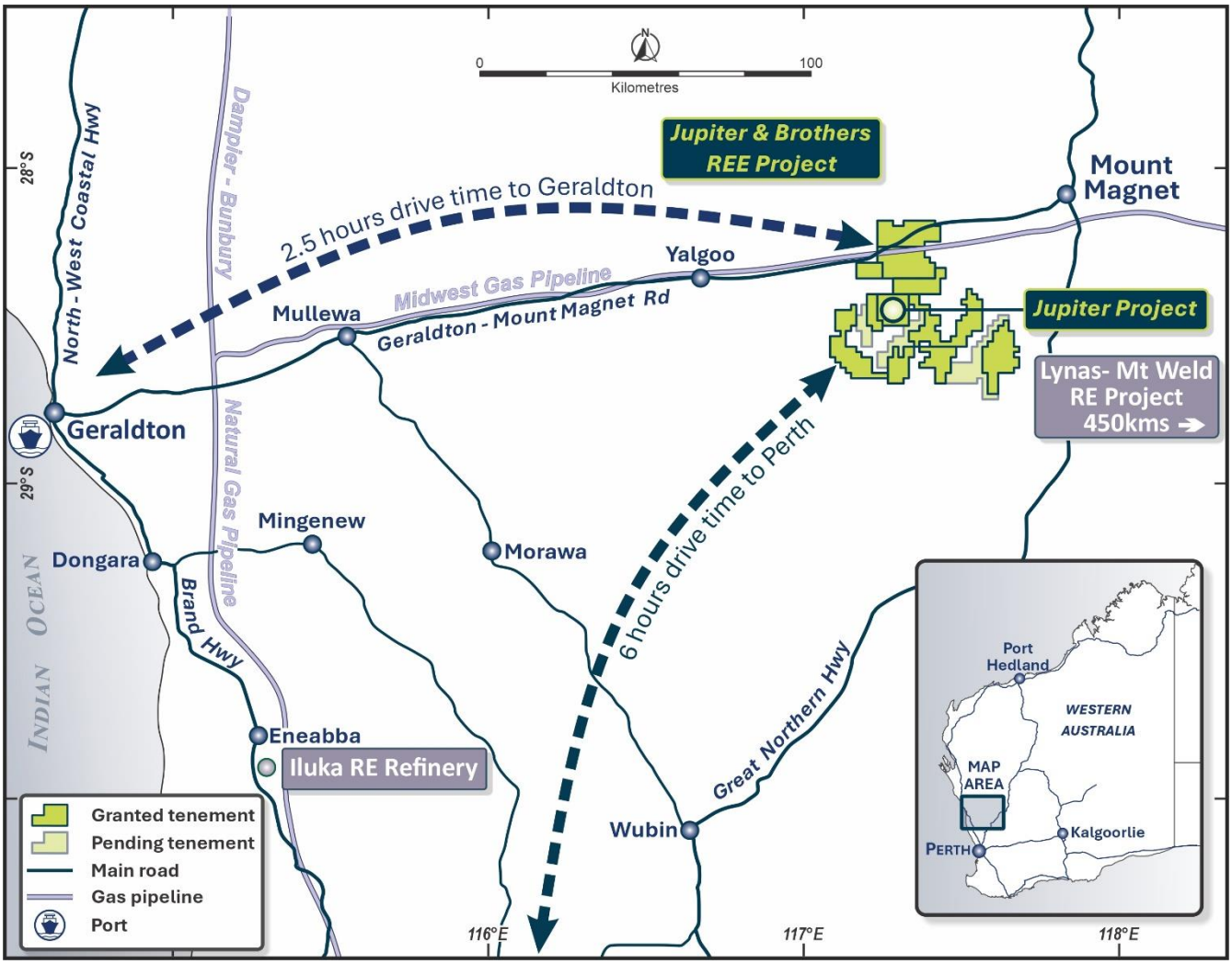
ABOUT JUPITER AND BROTHERS

Jupiter is a high-grade, clay-hosted rare earth discovery that forms part of the broader Brothers Project, which was discovered in late 2023. It is strategically located within the Mt Magnet and Yalgoo mining district of Western Australia.

Jupiter enjoys a myriad of benefits on account of the significant surrounding infrastructure. It is less than 10 km from the bitumen highway that runs between Mount Magnet and Geraldton, providing easy access to local labour centres, the Port of Geraldton and the mid-west gas pipeline that runs parallel to the highway. A unique benefit is that the project is in proximity to Lynas' Mt Weld project and their rare earths concentrator which is currently under construction. Iluka is also planning a rare earth refinery at Eneabba which is within easy driving distance of the site. The driving time from site to Perth is just six hours, and a short two-and-a-half hours to Geraldton.

The terrain at Jupiter is flat, sparsely vegetated and facilitates year-round access.

Figure 3 | Location Map



Jupiter was originally identified by geophysics, then cost-effective air core drilling quickly enabled Critica to advance the project. With Critica's strong cash position, the Company has been able to complete circa 40,000 metres of drilling in less than 18 months. Work is underway on metallurgical testwork and the maiden mineral resource estimate.

Jupiter boasts remarkably consistent, rare earth mineralisation over the entire 40 square km^2 project area. Broad, high-grade zones of 20 to 30 metre widths possess grade over 2,000 ppm of Total Rare Earth Oxides (TREO) and these typically occur within circa 80 metre zones of mineralisation that grade over 1,000 ppm TREO. The valuable magnet rare earths (MREO) make up an average of 23 percent of the material which grades over 1,000 ppm TREO. A stand-out feature of the project is the very, low prevalence of thorium and uranium.

In September and October 2024, Critica announced the discovery of five satellite targets at the Brothers Project, situated to the east of Jupiter. Together these discoveries indicate the provincial scale nature of the Brothers Project.

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Authorised by the Board of Critica Limited.

Philippa Leggat
Managing Director

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COMPETENT PERSONS STATEMENT

Competent Persons Statement The information in this report that relates to Exploration Results and Exploration Targets is based on information compiled by Dr. Stuart Owen who is a Member of the Australian Institute of Geoscientists. Dr. Owen is a permanent employee of Critica Limited and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr. Owen consents to the inclusion in the report of the matters based on his information in the form and context in which they appear.

The Information in this announcement that relates to previous exploration results for the Projects is extracted from the following ASX announcement:

- Best Intersection – 67m @3,074ppm TREO from Latest Jupiter Drilling – 6 November 2024
- Multiple Rare Earth Discoveries Near Jupiter – 17 October 2024
- New Rare Earth Discovery Jupiter Satellite – 17 September 2024
- Another Record Drilling Result – 57m @ 3,430ppm TREO – 17 July 2024
- Best Drill Intersection to date – 58m @ 2,723ppm TREO – 17 June 2024
- 8m @ 5,716ppm TREO- Jupiter Drilling Continues to Outperform – 5 June 2024
- Drilling Delivers More Record REE Intersections at Jupiter – 23 May 2024
- Jupiter-more outstanding REE hits up to 60 m over 2000 ppm – 16 April 2024
- Strategic Acquisition Adjacent to Jupiter REE Discovery – 22 March 2024
- 300 Drillhole Program Commences at Jupiter – 15 March 2024
- Jupiter Continues to Deliver with Record NdPr over 5,000 ppm – 8 March 2024
- Jupiter delivers record drill hit of 48 m @ 3,025 ppm TREO – 9 February 2024
- Jupiter Delivers over 7,000 ppm TREO from Maiden RC Drilling – 29 November 2023
- Massive new REE Target at Brothers with up to 3,969 ppm TREO – 9 November 2023
- VMS makes High Grade clay hosted REE discover at Brothers – 1 August 2023
- Venture set to drill at the Iron Duke High Grade REE Project –18 May 2023
- JV into Neighbouring REE project with 49m @ 1313ppm TREO – 9 May 2023

Notes

1.TREO represents the sum of 14 Rare Earth Elements excluding Promethium plus Yttrium expressed as oxides.

2.MREO represents the sum of the Neodymium, Praseodymium, Dysprosium and Terbium expressed as oxide

Glossary

RE – Rare earth(s)

REE – Rare earth elements

TREO – Total rare earth oxides

MREO – Magnet rare earth oxides

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TABLE ONE: NEW JUPITER AIR CORE DRILL HOLE LOCATIONS AND SIGNIFICANT INTERSECTIONS

Hole No.	East MGA Zone 50 GDA94 m	North MGA Zone 50 GDA94 m	EOH m	From m	To m	Interval m	TREO ppm	MREO ppm	MREO/ TREO %	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm
JPAC099	524500	6851848	61	40	61	21	1115	212	19	52	154	1	5
JPAC100	524749	6851853	57	36	57	21	1297	287	22	64	213	2	9
JPAC101	524996	6851849	31	24	28	4	611	128	21	30	94	1	4
JPAC102	525241	6851846	23	12	23	11	944	237	25	49	178	2	9
JPAC103	525498	6851841	19	8	12	4	1221	187	15	49	134	1	4
JPAC104	527251	6851849	72	28	72	44	2224	420	19	90	312	3	15
including				44	60	16	4129	776	19	162	582	6	26
JPAC105	527501	6851842	79	60	79	19	1750	429	25	95	321	2	11
JPAC106	527743	6851843	65	32	65	33	1277	273	21	60	202	2	9
JPAC107	527999	6851854	77	28	77	49	2250	508	23	111	380	3	14
including				32	52	20	3611	839	23	183	631	5	21
JPAC108	528249	6851843	92	36	92	56	2127	566	27	115	427	4	20
JPAC109	528494	6851857	73	40	73	33	1127	245	22	53	180	2	10
including				64	68	4	2232	625	28	126	465	6	29
JPAC110	528746	6851846	48	36	44	8	1587	336	21	73	251	2	10
JPAC111	528750	6851325	80	36	80	44	1173	290	25	59	218	2	12
JPAC112	528491	6851354	55	20	55	35	1585	361	23	78	270	2	12
including				28	40	12	2098	479	23	104	357	3	15
JPAC113	528248	6851353	73	48	73	25	1670	399	24	85	300	3	12
including				52	60	8	2049	492	24	103	370	3	16
JPAC114	527992	6851353	88	28	88	60	1796	412	23	96	304	2	10
including				36	56	20	2603	626	24	145	464	3	14
JPAC115	527748	6851355	74	24	74	50	1655	403	24	82	302	3	16
JPAC116	527500	6851357	68	36	68	32	1405	292	21	59	217	3	13
including				52	60	8	2559	545	21	101	406	6	32
JPAC117	527247	6851349	73	28	56	28	626	114	18	25	86	1	3
and				68	73	5	886	167	19	33	127	1	7
JPAC118	527004	6851355	96	24	72	48	1646	411	25	92	303	3	14
including				40	64	24	2066	514	25	113	382	3	16
JPAC119	526747	6851352	83	32	76	44	1214	277	23	59	204	2	12
JPAC120	525243	6851341	22	12	22	10	726	139	19	34	100	1	4
JPAC121	524998	6851351	64	32	64	32	1547	374	24	76	280	3	15
including				48	56	8	2099	483	23	98	360	4	22
JPAC122	524755	6851359	87	32	87	55	1736	425	24	88	319	3	15
including				48	72	24	2009	517	26	106	389	4	19
JPAC123	524495	6851393	57	16	56	40	1204	265	22	57	197	2	10
JPAC124	524249	6851348	63	16	24	8	874	228	26	50	166	2	9
and				48	56	8	1245	257	21	64	187	1	6
JPAC119	526747	6851352	83	32	76	44	1214	277	23	59	204	2	12
JPAC120	525243	6851341	22	12	22	10	726	139	19	34	100	1	4
JPAC121	524998	6851351	64	32	64	32	1547	374	24	76	280	3	15
including				48	56	8	2099	483	23	98	360	4	22
JPAC122	524755	6851359	87	32	87	55	1736	425	24	88	319	3	15
including				48	72	24	2009	517	26	106	389	4	19
JPAC123	524495	6851393	57	16	56	40	1204	265	22	57	197	2	10
JPAC125	523999	6851345	17	failed to reach target zone									
JPAC126	524499	6850848	62	4	60	56	1170	283	24	63	209	2	9
including				12	24	12	2251	618	27	135	461	4	18
JPAC127	524244	6850859	47	4	47	43	1721	400	23	88	298	3	12
including				20	36	16	2184	487	22	109	361	3	14
JPAC128	524001	6850844	40	24	40	16	720	154	21	35	113	1	5
JPAC129	523752	6850847	52	24	32	8	925	253	27	59	186	1	6
JPAC130	524725	6850842	50	16	50	34	1720	424	25	89	317	3	16
including				20	28	8	3061	747	24	158	560	5	24
JPAC131	525506	6850834	62	28	62	34	1528	394	26	82	294	3	15
including				44	56	12	2111	582	28	118	438	5	22
JPAC132	525764	6850832	68	28	64	36	1814	407	22	87	302	3	15
including				36	56	20	2290	516	23	111	385	3	17

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Hole No.	East MGA Zone 50 GDA94 m	North MGA Zone 50 GDA94 m	EOH m	From m	To m	Interval m	TREO ppm	MREO ppm	MREO/ TREO %	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm
JPAC133	526168	6850853	42	8	42	34	1584	365	23	76	270	3	17
including				12	24	12	2045	467	23	100	348	3	16
JPAC134	526750	6850853	13	8	13	5	1036	268	26	54	200	2	13
JPAC135	527007	6850855	77	28	77	49	1276	307	24	67	226	2	12
JPAC136	527254	6850864	82	28	76	48	1255	287	23	63	211	2	11
JPAC137	527502	6850852	54	12	44	32	916	216	24	46	160	2	9
JPAC138	527745	6850841	86	32	86	54	1408	316	22	68	234	3	12
including				52	64	12	2326	406	17	86	301	3	16
JPAC139	528748	6850852	41	12	24	12	1183	127	11	32	91	1	3
JPAC140	528993	6850857	67	24	64	40	1436	342	24	74	252	3	14
JPAC141	529252	6850852	62	20	62	42	1082	250	23	55	183	2	11
JPAC142	529510	6850850	38	0	4	4	1094	262	24	57	195	2	8
JPAC143	529752	6850859	19	0	4	4	884	162	18	36	116	2	10
JPAC144	529254	6850351	66	40	66	26	1349	344	26	75	253	2	13
including				40	48	8	2601	692	27	155	509	4	24
JPAC145	529001	6850356	63	24	63	39	1568	347	22	78	257	2	10
including				36	44	8	2042	460	23	102	340	3	15
JPAC146	528747	6850351	38	8	38	30	1308	320	24	64	239	3	14
including				12	20	8	2129	481	23	94	363	4	20
JPAC147	527993	6850352	70	32	70	38	1513	366	24	79	270	3	14
including				48	60	12	2213	509	23	109	378	4	19
JPAC148	527753	6850355	64	20	28	8	1871	423	23	97	310	3	13
and				44	64	20	865	213	25	45	158	2	9
JPAC149	527495	6850351	76	40	64	24	1889	406	21	90	297	4	16
including				40	52	12	2125	428	20	97	309	3	15
JPAC150	527242	6850352	60	36	60	24	1986	477	24	106	352	4	16
including				40	60	20	2195	527	24	117	389	4	18
JPAC151	526996	6850348	81	28	81	53	1858	482	26	101	358	4	19
including				44	72	28	2227	594	27	121	444	5	24
JPAC152	526749	6850343	63	32	63	31	1764	445	25	94	334	3	15
including				32	48	16	2006	514	26	111	384	4	16
JPAC153	525749	6850341	78	40	72	32	1151	228	20	51	166	2	10
JPAC154	525500	6850346	63	32	63	31	1331	289	22	65	214	2	9
including				36	40	4	2370	501	21	116	368	3	14
JPAC155	524493	6850349	43	8	40	32	2244	585	26	117	442	4	22
including				24	28	4	4103	1079	26	206	838	6	29
JPAC156	524248	6850354	48	16	48	32	1650	375	23	83	278	2	11
including				8	16	8	2257	491	22	116	360	3	13
JPAC157	523994	6850352	90	44	88	44	848	164	19	39	120	1	5
including				64	72	8	1107	223	20	52	162	2	7
JPAC158	523744	6850353	73	56	64	8	625	121	19	27	89	1	4
JPAC159	524500	6850005	54	20	54	34	1557	366	24	78	274	3	12
JPAC160	524252	6849998	61	28	61	33	1477	338	23	71	253	2	12
including				32	40	8	2906	635	22	138	478	3	16
JPAC161	524746	6850002	50	4	50	46	1627	419	26	84	317	3	16
including				12	20	8	2012	510	25	107	384	3	16
JPAC162	528999	6849998	39	16	24	8	2009	458	23	94	334	5	25
JPAC163	528751	6849999	41	21	41	20	1927	203	11	46	148	1	8
including				20	28	8	3653	311	9	70	227	2	11
JPAC164	528504	6849995	75	36	75	39	1343	303	23	65	226	2	11
including				40	48	8	2008	492	25	104	369	3	16
JPAC165	528252	6850000	67	32	67	35	1884	429	23	94	316	4	16
including				36	48	12	3353	736	22	163	539	6	28
JPAC166	527998	6850000	68	36	68	32	1728	398	23	84	294	4	17
including				40	44	4	5649	1419	25	306	1039	13	62
JPAC167	527750	6850000	46	20	46	26	1587	358	23	74	266	3	15
including				24	36	12	2058	443	22	93	330	4	16
JPAC168	527497	6849994	69	24	69	45	1498	364	24	74	273	3	14
including				52	60	8	2343	606	26	114	459	5	27
JPAC169	527251	6849998	63	28	63	35	1307	305	23	64	228	2	11
including				32	40	8	2100	464	22	100	347	3	13
JPAC170	529752	6851342	53	28	53	25	1859	426	23	90	317	3	16

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Hole No.	East MGA Zone 50 GDA94 m	North MGA Zone 50 GDA94 m	EOH m	From m	To m	Interval m	TREO ppm	MREO ppm	MREO/ TREO %	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm
including				32	44	12	2578	575	22	123	431	4	18
JPAC171	530000	6851348	57	24	36	12	1326	416	31	92	311	3	12
JPAC172	530250	6851348	63	16	28	12	823	170	21	42	123	1	5
JPAC173	530497	6851352	74	32	56	24	1396	325	23	67	241	3	14
JPAC174	529756	6851840	67	36	67	31	1585	375	24	76	282	3	15
including				48	60	12	2394	552	23	114	415	4	20
JPAC175	530002	6851845	66	44	66	22	950	202	21	45	150	1	6
JPAC176	530250	6851845	58	36	58	22	1605	397	25	88	295	3	13
including				48	56	8	2580	636	25	137	476	4	20
JPAC177	530498	6851852	76	28	76	48	1339	298	22	60	222	3	13
including				56	60	4	2095	523	25	99	395	4	25
JPAC178	529745	6852354	59	20	59	39	970	201	21	46	149	1	6
including				52	56	4	2824	526	19	113	393	3	18
JPAC179	530003	6852348	71	24	71	47	1856	385	21	85	287	2	11
including				28	60	32	2085	430	21	95	321	3	12
JPAC180	530246	6852349	65	32	65	33	1992	368	18	83	272	2	11
including				40	52	12	3051	537	18	117	399	4	18
JPAC181	531000	6852354	69	44	60	16	1026	240	23	55	178	1	6
JPAC182	530755	6852356	59	28	59	31	1621	460	28	101	342	3	13
including				32	44	12	2321	686	30	155	511	4	18
JPAC183	530510	6852348	63	32	60	28	1768	356	20	80	263	2	11
including				52	60	8	3345	638	19	134	475	5	24
JPAC184	531500	6852846	63	8	63	55	2065	448	22	96	332	4	17
including				8	28	20	3116	658	21	139	487	6	27
JPAC185	531258	6852849	47	12	44	32	979	217	22	48	160	2	8
JPAC186	531008	6852849	35	12	35	23	1468	352	24	70	262	4	17
JPAC187	530746	6852853	47	24	47	23	1109	240	22	55	176	2	7
JPAC188	530493	6852845	70	24	70	46	1468	382	26	79	285	3	15
including				40	44	4	2025	558	28	109	420	6	24
JPAC189	530250	6852851	34	8	34	26	1438	377	26	73	282	4	18
JPAC190	530009	6852851	60	12	60	48	1728	386	22	78	289	3	16
including				16	40	24	2367	492	21	100	369	4	19
JPAC191	529747	6852856	47	16	47	31	1251	295	24	58	220	3	14
JPAC192	531495	6853363	76	48	76	28	954	220	23	47	166	1	6
JPAC193	531243	6853350	65	36	44	8	1045	295	28	55	223	3	14
JPAC194	531002	6853344	54	44	48	4	2659	525	20	87	381	9	48
JPAC195	530750	6853354	49	20	49	29	1485	336	23	69	249	3	15
JPAC196	530494	6853351	48	20	48	28	1679	397	24	81	295	4	17
including				28	36	8	2048	515	25	107	387	4	17
JPAC197	530252	6853344	17	8	17	9	1611	381	24	81	287	3	11
JPAC198	530007	6853345	36	8	36	28	949	253	27	49	190	3	12
JPAC199	529753	6853352	54	12	54	42	1545	394	26	77	292	4	21
including				24	28	4	2034	557	27	111	421	4	21
JPAC200	531749	6853849	43	36	43	7	880	162	18	38	119	1	4
JPAC201	531504	6853850	89	28	84	56	1347	305	23	66	225	3	13
including				40	52	12	2255	535	24	114	394	4	23
JPAC202	531237	6853847	87	24	87	63	1054	226	21	51	166	1	7
JPAC203	530999	6853855	71	40	71	31	1746	417	24	88	305	4	19
including				40	56	16	2254	536	24	114	393	5	24
JPAC204	530742	6853849	63	44	52	8	791	141	18	27	102	2	11
JPAC205	530490	6853855	84	36	84	48	1497	363	24	76	266	4	17
including				56	64	8	2016	533	26	110	396	5	22
JPAC206	530252	6853850	72	44	72	28	1583	375	24	78	279	3	15
including				44	56	12	2166	496	23	107	370	4	16
JPAC207	531750	6854355	73	32	73	41	1571	348	22	73	258	3	15
including				36	44	8	2062	444	22	97	328	3	17
JPAC208	531507	6854346	40	24	32	8	1111	246	22	58	178	2	8
JPAC209	531249	6854347	82	28	82	54	1869	390	21	85	289	3	13
including				56	72	16	3168	769	24	162	577	5	25
JPAC210	530993	6854349	88	44	80	36	1053	207	20	46	153	1	7
including				56	60	4	2212	391	18	86	292	2	12
JPAC211	530752	6854348	42	8	42	34	1770	441	25	94	325	4	18

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Hole No.	East MGA Zone 50 GDA94 m	North MGA Zone 50 GDA94 m	EOH m	From m	To m	Interval m	TREO ppm	MREO ppm	MREO/ TREO %	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm
including				12	24	12	2316	553	24	124	407	4	19
JPAC212	530500	6854347	10	4	8	4	626	126	20	30	91	1	5
JPAC213	530259	6854350	16	8	12	4	807	181	22	39	134	2	7
JPAC214	530009	6854356	41	24	41	17	2527	594	24	117	448	5	24
including				24	28	4	5380	1202	22	234	923	9	36
JPAC215	529748	6854353	66	8	66	58	1606	409	25	86	303	4	16
including				12	36	24	2072	527	25	114	389	4	20
JPAC216	531249	6854843	99	20	99	79	1460	299	20	66	219	2	11
including				24	52	28	2430	483	20	107	354	4	18
JPAC217	531002	6854850	57	16	57	41	1472	317	22	74	234	2	9
including				44	52	8	2530	529	21	116	396	3	14
JPAC218	530747	6854849	17	8	17	9	846	210	25	43	153	2	12
JPAC219	530497	6854844	35	8	35	27	1347	342	25	69	250	4	19
JPAC220	530248	6854849	71	12	71	59	1675	447	27	94	332	4	18
including				32	40	8	2058	572	28	120	425	5	23
JPAC221	529995	6854840	66	20	66	46	1724	467	27	94	344	4	20
including				32	44	12	2349	600	26	126	443	6	26
JPAC222	531241	6855350	59	28	52	24	1413	327	23	76	241	2	9
including				40	48	8	2185	496	23	114	365	3	14
JPAC223	531002	6855353	69	28	48	20	1149	277	24	64	202	2	10
and				60	69	9	2040	490	24	112	362	3	14
JPAC224	530759	6855348	87	16	87	71	1164	268	23	61	198	2	8
JPAC225	530497	6855348	65	12	65	53	2221	576	26	117	435	4	20
JPAC226	530247	6855342	73	40	73	33	2381	614	26	128	461	4	20
including				44	60	16	3367	896	27	185	676	6	29
JPAC227	529999	6855349	48	20	48	28	1558	382	25	76	286	3	17
JPAC228	529746	6855346	72	20	40	20	1215	285	23	62	212	2	10
including				20	24	4	2059	350	17	78	264	2	7
JPAC229	531246	6855848	61	16	61	45	1895	433	23	99	318	3	14
including				16	44	28	2285	527	23	121	387	4	16
JPAC230	531006	6855855	63	32	63	31	1105	234	21	57	170	1	6
JPAC231	530751	6855843	88	40	88	48	1315	285	22	66	209	2	9
JPAC232	530501	6855847	35	20	35	15	609	114	19	27	83	1	3
JPAC233	530251	6855851	53	4	53	49	1628	413	25	84	309	4	17
including				8	32	24	2216	565	25	119	424	4	18
JPAC234	529995	6855848	14	4	12	8	784	174	22	38	128	1	6
JPAC235	529742	6855851	12	8	12	4	792	202	26	41	150	2	9
JPAC236	530467	6855607	69	36	69	33	992	213	21	48	157	1	7
including				56	60	4	2228	570	26	121	426	4	19
JPAC237	530408	6855600	65	32	60	28	921	211	23	47	156	2	7
including				56	60	4	2116	548	26	114	410	5	20
JPAC238	530354	6855584	65	28	44	16	1003	270	27	59	199	2	11
JPAC239	530310	6855603	59	16	59	43	1563	399	26	85	296	3	15
including				36	52	16	2050	586	29	120	437	5	23
JPAC240	530202	6855594	62	8	60	52	1719	449	26	94	334	4	18
including				32	48	16	2124	586	28	120	440	5	21
JPAC241	530151	6855598	55	8	55	47	2062	511	25	106	382	4	19
including				32	36	4	3468	975	28	199	730	9	38
JPAC242	530099	6855597	71	4	71	67	1824	470	26	95	353	4	18
including				8	36	28	2112	535	25	108	402	5	21
JPAC243	530049	6855598	78	4	78	74	1907	507	27	102	386	4	16
including				8	32	24	2663	722	27	147	552	5	19
JPAC244	529944	6855604	69	4	69	65	1956	505	26	100	383	4	19
including				12	40	28	2561	673	26	130	512	6	25
JPAC245	529902	6855609	61	4	56	52	2324	595	26	119	449	5	22
including				16	28	12	3070	766	25	153	574	7	33
JPAC246	529847	6855603	84	0	64	64	1343	339	25	74	251	3	12
including				32	40	8	2085	527	25	119	387	4	17
JPAC247	529798	6855593	91	12	91	79	1373	336	24	74	248	3	12
including				36	44	8	2392	705	29	155	526	5	21
JPAC248	531251	6856353	57	24	57	33	1305	300	23	67	220	2	12
including				36	48	12	2286	544	24	119	400	4	22

Hole No.	East MGA Zone 50 GDA94 m	North MGA Zone 50 GDA94 m	EOH m	From m	To m	Interval m	TREO ppm	MREO ppm	MREO/ TREO %	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm
JPAC249	530998	6856349	59	8	59	51	1442	327	23	78	238	2	10
including				52	56	4	4353	1001	23	222	751	5	24
JPAC250	530747	6856353	19	failed to reach target zone									
JPAC251	530498	6856347	21	4	21	17	1241	256	21	60	188	2	9
JPAC252	530249	6856351	15	4	15	11	1086	286	26	57	214	3	13
JPAC253	530008	6856344	19	4	19	15	1283	339	26	68	254	3	14
JPAC254	529746	6856347	9	4	9	5	947	233	25	49	173	2	10
JPAC255	530486	6856797	35	12	35	23	1578	361	23	80	268	2	11
including				24	28	4	2267	478	21	110	353	3	13
JPAC256	530241	6856793	58	20	58	38	1302	284	22	59	213	2	10
including				20	36	16	2158	495	23	101	373	4	18
JPAC257	529991	6856793	65	12	65	53	1676	314	19	74	226	2	12
including				36	52	16	2703	447	17	109	317	3	18
JPAC258	529751	6856791	49	20	49	29	1350	307	23	65	223	3	16
JPAC259	530497	6857496	54	44	48	4	1235	222	18	58	160	1	4
JPAC260	530495	6857245	8	NSI									
JPAC261	530004	6857238	34	28	34	6	811	143	18	37	103	1	3
JPAC262	530002	6857497	40	28	40	12	1299	235	18	61	168	1	5

TREO represents the sum of 14 Rare Earth Elements excluding Promethium plus Yttrium expressed as oxides. MREO represents the sum of the Neodymium, Praseodymium, Dysprosium and Terbium expressed as oxides See Table Three for complete REE assay listing. NSI = no significant intersection Intersections are made up of 4 m composite sample results with the bottom of the hole sample results a miixture of 2 m, 3 m, 5 m and 6 m composite sample results.

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TABLE TWO: NEW JUPITER AIR CORE DRILL HOLE REE, TH AND U ASSAYS

Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC099	40	44	4	1010	233	543	46	134	18	2.7	8.8	1.1	4.4	0.7	1.5	0.2	1.1	0.2	16	68	3
JPAC099	44	48	4	1807	398	942	88	271	35	6	16.9	2.1	8.6	1.3	3.3	0.4	2.2	0.3	34	59	4
JPAC099	48	52	4	985	232	524	47	134	16	2.6	7	0.9	3.7	0.6	1.3	0.2	1.1	0.1	15	35	2
JPAC099	52	56	4	828	223	424	38	104	13	2	5.6	0.7	2.9	0.5	1.2	0.2	0.9	0.1	12	32	2
JPAC099	56	61	5	977	250	492	45	135	16	2.9	8.6	1	4.3	0.7	1.7	0.2	1.4	0.1	19	35	3
JPAC100	28	32	4	559	116	273	25	88	12	2.6	8.1	1.1	5.2	1	2.7	0.3	2.4	0.3	22	26	3
JPAC100	32	36	4	565	133	257	29	93	15	2.9	7.7	1.1	5.1	0.8	2.1	0.3	1.9	0.2	18	28	4
JPAC100	36	40	4	1405	296	695	70	238	34	6.6	16.9	2.1	8.3	1.3	3.1	0.3	2.3	0.3	32	20	2
JPAC100	40	44	4	1228	303	594	60	187	24	4.9	13.2	1.6	6.4	1	2.5	0.3	1.7	0.2	27	17	2
JPAC100	44	48	4	1550	338	748	77	254	32	6.8	18.9	2.5	11	1.8	4.7	0.6	3.6	0.4	52	16	3
JPAC100	48	52	4	1235	263	577	61	212	28	6.3	16.4	2.1	9.4	1.6	4	0.6	3.5	0.4	51	16	2
JPAC100	52	57	5	1112	244	506	53	181	26	5.4	16.2	2.1	10.2	1.8	5.1	0.6	3.9	0.5	57	15	2
JPAC101	20	24	4	433	107	216	20	61	8	1.7	4.4	0.5	2.8	0.4	0.9	0.1	0.9	0.1	10	14	1
JPAC101	24	28	4	611	147	298	30	94	11	2.8	6.6	0.8	3.6	0.6	1.4	0.2	1	0.1	14	18	1
JPAC101	28	31	3	498	123	230	26	85	10	2.3	5.5	0.6	2.5	0.5	1.2	0.2	1	0.2	11	25	2
JPAC102	12	16	4	970	185	436	50	180	29	6	17.1	2.2	9.7	1.5	4	0.5	3.3	0.4	47	16	2
JPAC102	16	20	4	971	175	442	50	183	29	6.2	17.2	2.2	9.3	1.5	4	0.5	3.3	0.4	47	17	2
JPAC102	20	23	3	873	169	389	46	168	26	5.5	15.4	1.9	8	1.3	3.2	0.4	2.4	0.3	37	14	2
JPAC103	8	12	4	1221	297	693	49	134	16	2.5	8.3	1	4.2	0.7	1.6	0.2	0.9	0.1	15	35	2
JPAC104	16	20	4	373	158	80	25	68	9	2.1	6.1	0.7	3.4	0.6	1.4	0.2	1.2	0.1	18	24	1
JPAC104	20	24	4	479	215	95	33	90	11	2.7	7	0.9	3.9	0.6	1.5	0.2	1.1	0.1	19	28	1
JPAC104	24	28	4	340	150	76	22	59	7	1.8	4.6	0.6	2.5	0.4	1.1	0.1	1.1	0.1	14	26	2
JPAC104	28	32	4	614	263	154	40	107	13	3	7.5	1	4.2	0.7	1.7	0.2	1.3	0.2	18	36	2
JPAC104	32	36	4	831	296	289	48	134	17	3.6	9.4	1.2	5.3	0.9	2	0.3	1.4	0.2	24	39	2
JPAC104	36	40	4	847	274	334	44	124	17	3.6	9.3	1.3	5.8	1	2.3	0.3	2	0.3	29	40	2
JPAC104	40	44	4	594	168	253	31	94	12	2.6	7	0.9	3.8	0.6	1.5	0.2	1.4	0.2	18	36	3
JPAC104	44	48	4	5528	922	3266	236	795	107	19.7	48.4	5.9	24.5	3.6	8.5	1	6.1	0.7	83	31	5
JPAC104	48	52	4	1866	385	779	106	393	56	11	31.4	3.9	17.4	2.9	6.9	0.9	5	0.6	69	28	4
JPAC104	52	56	4	4073	483	2616	129	479	71	14.8	46	6.1	29	5.5	15	1.9	11.8	1.4	163	32	7
JPAC104	56	60	4	5048	610	3181	175	662	100	20.1	58.6	7.7	34.7	5.7	15	1.9	12.9	1.6	164	25	6
JPAC104	60	64	4	2565	343	1578	83	301	46	8.9	28.1	3.7	19.8	3.9	10.9	1.8	10.9	1.7	126	29	5
JPAC104	64	68	4	1396	257	747	54	179	25	5.3	15.9	2.1	10.8	2.3	6.7	1	6.2	1.1	85	25	4
JPAC104	68	72	4	1102	233	543	48	163	22	4.9	13.3	1.7	8.2	1.7	4.3	0.6	3.6	0.6	55	25	3
JPAC105	32	36	4	373	159	73	25	78	10	2.6	5.6	0.7	3.2	0.5	1.2	0.1	0.7	0.1	13	30	1
JPAC105	36	40	4	268	99	75	15	49	6	1.9	4.2	0.5	2.5	0.4	1	0.1	0.6	0.1	13	31	1
JPAC105	40	44	4	253	89	81	14	47	6	1.6	3.3	0.3	1.7	0.3	0.7	0.1	0.7	0.1	8	40	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC105	44	48	4	383	146	104	25	79	10	2.2	4.8	0.5	2.2	0.3	0.8	0.1	0.5	0	9	43	2
JPAC105	48	52	4	323	133	77	22	69	8	2.1	3.5	0.4	1.7	0.3	0.7	0.1	0.5	0	7	39	2
JPAC105	52	56	4	545	213	133	35	110	14	3.6	8.2	0.9	4.4	0.7	1.6	0.2	1.1	0.1	19	34	2
JPAC105	56	60	4	101	42	20	6	18	3	0.7	1.6	0.3	1.2	0.2	0.6	0.1	0.6	0.1	7	13	1
JPAC105	60	64	4	1900	726	451	130	419	51	10.8	27.1	3.1	14.1	2.3	5.1	0.6	3.7	0.5	57	37	3
JPAC105	64	68	4	1017	326	325	68	220	25	4.9	11.8	1.3	5.6	0.9	2.1	0.3	1.5	0.2	24	25	3
JPAC105	68	72	4	2933	684	1210	169	604	76	14.7	36.4	4.3	20.3	3.4	8.8	1.2	7.2	1.1	95	34	3
JPAC105	72	76	4	1459	228	953	48	161	19	4.2	10.2	1.1	4.9	0.9	2.1	0.3	2	0.3	26	28	2
JPAC105	76	79	3	1335	213	768	45	162	23	5.5	16.8	2.2	11.3	2.1	5.7	0.8	5.4	0.8	74	22	2
JPAC106	32	36	4	967	238	467	44	141	19	3.8	11.5	1.4	7.4	1.4	2.9	0.3	2	0.2	29	27	2
JPAC106	36	40	4	1118	279	583	46	141	17	3.3	9.2	1.1	5.8	1	2.5	0.3	1.7	0.2	28	28	2
JPAC106	40	44	4	867	199	420	38	131	18	3.6	10.6	1.3	7.1	1.2	3.2	0.4	2.7	0.4	32	29	3
JPAC106	44	48	4	1456	335	700	69	229	29	5.7	16.9	2	10.1	1.9	4.2	0.6	3.2	0.4	50	25	2
JPAC106	48	52	4	1454	320	689	72	244	31	6.7	19.5	2.5	11	1.8	4.3	0.6	3	0.4	49	24	2
JPAC106	52	56	4	1538	353	728	76	255	34	6.6	19.9	2.4	11.1	1.8	4	0.5	3.1	0.4	44	25	2
JPAC106	56	60	4	1451	312	698	72	245	34	6.4	19	2.4	10.5	1.7	4	0.5	3.2	0.4	43	22	3
JPAC106	60	65	5	1344	292	623	65	226	29	6.7	19.4	2.4	12.1	2.1	5.2	0.7	3.9	0.5	58	23	2
JPAC107	28	32	4	1954	455	896	97	333	42	7.9	21.8	2.4	11.1	2.1	5.6	0.8	5	0.8	73	38	2
JPAC107	32	36	4	4189	967	2045	202	686	83	15.9	41.7	4.5	19.5	3.4	8.1	1.1	6.3	0.9	107	53	2
JPAC107	36	40	4	2974	686	1443	137	472	63	12.4	34.7	4	17	3	7.1	0.9	5.1	0.7	89	55	2
JPAC107	40	44	4	3476	931	1283	202	715	92	18.8	48.2	5.4	24.9	4.5	10.9	1.3	8	1	130	45	2
JPAC107	44	48	4	3619	1043	1369	210	716	89	17.4	43.1	4.9	22.4	3.6	8.3	1.1	5.9	0.7	85	64	3
JPAC107	48	52	4	3795	814	1965	165	566	76	14.8	41.5	4.7	22.3	3.9	9.2	1.3	7.1	1	105	49	3
JPAC107	52	56	4	1269	256	717	48	156	20	4.6	11.8	1.4	7.3	1.3	3.3	0.5	2.9	0.4	39	36	3
JPAC107	56	60	4	1617	372	786	75	250	32	7.2	18.2	2.3	10.9	2	4.7	0.7	4	0.5	53	35	3
JPAC107	60	64	4	1336	311	645	65	211	25	5.4	14.5	1.7	7.7	1.5	3.8	0.5	3.2	0.5	41	33	3
JPAC107	64	68	4	1451	355	581	78	271	34	7.9	21.1	2.6	12.4	2.5	6.5	0.9	5.7	1	72	28	3
JPAC107	68	72	4	880	218	418	42	132	17	3.5	9.1	1.1	5.2	1	2.3	0.3	2.1	0.3	30	24	2
JPAC107	72	77	5	781	189	372	37	120	15	3.3	8.7	0.9	4.5	0.9	2.2	0.3	1.8	0.3	26	20	2
JPAC108	36	40	4	1437	338	553	78	283	42	8.8	24.7	2.8	14.2	2.5	6.2	0.8	4.6	0.6	78	15	1
JPAC108	40	44	4	1369	285	592	76	274	42	8.3	23	2.7	11.8	1.9	4	0.5	2.8	0.4	46	12	2
JPAC108	44	48	4	2200	422	975	114	421	63	13.1	39.5	4.7	22.3	3.8	8.4	1.1	6	0.8	105	16	3
JPAC108	48	52	4	2455	445	1208	118	426	64	12.3	35.7	4.3	19.7	3.4	8.2	1	6.3	0.8	104	15	4
JPAC108	52	56	4	2240	402	1110	116	412	60	11.1	30.3	3.4	15.8	2.5	5.4	0.8	4.5	0.6	65	16	4
JPAC108	56	60	4	2006	351	985	111	388	56	9.7	27.3	3	13.3	2	4.6	0.6	3.7	0.6	50	20	5
JPAC108	60	64	4	2618	434	1133	143	555	85	17.2	53.8	6.4	29.7	5.3	12.1	1.5	9.1	1.2	131	16	4
JPAC108	64	68	4	1955	320	876	99	371	59	12	40.8	4.8	24	4.3	10.5	1.2	7.3	1	125	17	4
JPAC108	68	72	4	2171	373	974	115	426	66	13	39.9	4.5	21.7	3.8	9.5	1.3	7.3	1.1	117	16	4
JPAC108	72	76	4	1821	317	868	98	353	52	10.5	28	3.3	14.6	2.4	5.8	0.8	4.7	0.7	62	16	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC108	76	80	4	2199	362	1023	128	456	65	12.2	34.1	3.9	18.4	3	7	0.9	5.9	0.9	79	18	4
JPAC108	80	84	4	2613	382	1116	148	574	93	18.6	56.3	6.4	30.7	5.5	12.7	1.8	9.9	1.3	158	19	4
JPAC108	84	88	4	2122	300	950	124	482	71	14.2	38	4.3	20	3.4	8.3	1.1	7.5	1.1	98	16	4
JPAC108	88	92	4	2571	430	1102	145	566	85	17.3	47.8	5.3	24.1	4.1	9.2	1.2	6.7	1	127	36	5
JPAC109	40	44	4	605	129	345	23	72	9	2	5.3	0.7	3	0.5	1.2	0.1	1	0.1	14	36	2
JPAC109	44	48	4	716	176	360	32	99	13	3	6.8	0.8	3.9	0.7	1.5	0.2	1.2	0.2	18	34	2
JPAC109	48	52	4	517	116	280	22	66	9	2.1	4.5	0.5	2.6	0.5	1.2	0.2	1.3	0.2	12	17	3
JPAC109	52	56	4	475	71	329	12	36	5	1.1	3.2	0.5	2.8	0.5	1.5	0.2	1.9	0.3	11	4	6
JPAC109	56	60	4	1643	405	829	68	209	28	5.8	17.5	2.4	11.6	2	4.6	0.5	2.9	0.4	57	39	4
JPAC109	60	64	4	1373	337	648	67	206	29	5.7	15	1.9	9.6	1.7	4	0.5	3.1	0.4	46	38	3
JPAC109	64	68	4	2232	549	764	126	465	69	14.7	47.2	5.7	28.8	5	11.8	1.5	8	1	136	35	3
JPAC109	68	73	5	1389	312	500	70	265	40	8.4	28	3.6	18.8	3.7	9.9	1.3	7.2	1	121	30	3
JPAC110	36	40	4	959	272	388	50	162	22	4.2	12	1.4	6.9	1.1	2.9	0.4	2.6	0.4	34	28	2
JPAC110	40	44	4	2214	523	1063	96	340	49	10.1	27.6	3.1	14.1	2.4	5.6	0.8	3.9	0.5	75	33	2
JPAC111	36	40	4	2097	379	970	91	351	57	11.3	36.2	4.4	22.3	4.4	11.8	1.6	9	1.1	147	23	3
JPAC111	40	44	4	740	134	356	35	126	20	3.9	11.3	1.3	6	1.1	2.9	0.4	3.1	0.6	39	25	4
JPAC111	44	48	4	987	172	476	51	185	28	5.5	14.1	1.7	7.5	1.3	3.3	0.5	3.1	0.5	39	21	5
JPAC111	48	52	4	897	164	420	47	166	26	4.9	14.2	1.6	7.6	1.3	3.2	0.4	2.8	0.4	38	31	5
JPAC111	52	56	4	1222	212	554	65	236	37	7.3	20.8	2.4	11.6	1.9	5.1	0.8	4.2	0.7	65	18	6
JPAC111	56	60	4	1232	209	593	63	231	36	6.5	18.6	2.2	10.1	1.8	4.4	0.6	3.6	0.5	52	15	6
JPAC111	60	64	4	1632	260	728	80	307	48	9.9	28.4	3.6	18.4	3.5	10	1.5	9.6	1.6	122	17	5
JPAC111	64	68	4	1134	187	474	57	215	36	7.1	22.6	2.9	14.5	2.8	7.8	1.2	7.2	1.2	98	17	5
JPAC111	68	72	4	1009	182	441	53	193	32	6	17.5	2.2	10.1	1.9	4.6	0.7	3.8	0.7	62	17	5
JPAC111	72	76	4	999	179	433	53	198	31	6	18	2.2	10.1	1.9	4.7	0.6	3.9	0.5	57	18	5
JPAC111	76	80	4	951	175	413	51	186	29	5.7	16.9	2	9.7	1.7	4	0.6	3.6	0.6	54	16	3
JPAC112	12	16	4	428	129	147	23	75	10	2	6.1	0.8	4.3	0.8	1.9	0.3	1.8	0.2	26	22	2
JPAC112	16	20	4	339	80	141	16	56	8	1.5	5.1	0.8	3.6	0.7	1.9	0.3	1.7	0.2	22	24	2
JPAC112	20	24	4	774	153	406	34	116	16	3.2	9.2	1.1	5.6	0.9	2.2	0.3	1.6	0.2	25	31	2
JPAC112	24	28	4	896	202	420	43	147	20	3.9	11.1	1.4	6.8	1.2	2.7	0.4	2	0.3	34	29	2
JPAC112	28	32	4	2081	460	935	105	364	50	9.3	28.2	3.4	16.2	2.9	7.2	0.9	4.9	0.6	95	32	2
JPAC112	32	36	4	2112	473	968	105	346	42	8.1	22.7	2.7	13.5	2.7	7.7	1.1	6.6	0.9	113	50	3
JPAC112	36	40	4	2100	453	969	103	360	48	9.8	28.2	3.3	15.9	2.9	7.6	1	6.2	0.9	92	44	3
JPAC112	40	44	4	1632	326	753	82	295	41	8	22.6	2.9	13.7	2.4	6.1	0.9	5	0.7	74	31	3
JPAC112	44	48	4	1621	328	742	80	283	38	7.6	21	2.6	13.4	2.6	6.9	1	6.3	1	88	28	4
JPAC112	48	52	4	1550	338	722	76	260	33	6.6	18	2.1	10.5	1.9	5.5	0.8	4.6	0.7	71	34	5
JPAC112	52	55	3	1464	323	667	72	252	33	6.8	18.5	2.2	10.4	2	5.3	0.7	4.1	0.6	69	27	6
JPAC113	48	52	4	1387	279	689	72	240	32	5.4	14.2	1.7	7.3	1.3	3.1	0.5	2.4	0.3	39	26	3
JPAC113	52	56	4	1890	389	898	99	343	48	7.7	23.2	2.7	11.9	1.9	4.9	0.6	3.3	0.5	57	24	2
JPAC113	56	60	4	2207	457	995	107	396	57	9.8	35.1	4.3	19.9	3.6	8.3	1.1	6.6	0.9	106	28	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC113	60	64	4	1626	311	731	82	301	43	7.6	25.1	3.1	14.4	2.7	6.7	0.9	5.4	0.7	93	26	4
JPAC113	64	68	4	1451	303	674	74	259	35	6.1	17.8	2.2	10.3	1.8	4.7	0.6	3.5	0.5	59	23	2
JPAC113	68	73	5	1500	317	701	77	268	35	6.2	17.9	2.2	10.4	1.8	4.1	0.6	3.5	0.5	55	24	2
JPAC114	24	28	4	286	124	77	18	46	5	1.1	2.9	0.3	1.6	0.3	0.7	0.1	0.5	0.1	9	30	1
JPAC114	28	32	4	2795	1308	675	190	480	40	7.7	20.5	2.2	10	1.6	3.5	0.4	1.6	0.2	54	26	2
JPAC114	32	36	4	394	124	161	20	59	7	1.4	3.7	0.4	2.2	0.4	1.1	0.2	1.2	0.2	12	36	3
JPAC114	36	40	4	1987	737	652	115	343	37	7.6	20.2	2.2	10.1	1.8	4.1	0.5	2.5	0.4	56	35	3
JPAC114	40	44	4	3384	940	1332	204	653	79	15.2	36.3	4.2	18.2	3.1	7.3	1	5.7	0.8	86	42	4
JPAC114	44	48	4	1299	255	777	46	147	17	4	9.5	1.2	5.8	1	2.5	0.3	2.1	0.3	31	44	4
JPAC114	48	52	4	3015	832	1259	165	535	64	13.4	31.2	3.7	16.6	2.7	6.4	0.8	4.6	0.6	80	41	3
JPAC114	52	56	4	3330	950	1253	194	642	77	16.1	43.6	5	21.3	3.6	8.9	1.1	5.5	0.7	108	34	4
JPAC114	56	60	4	1062	229	527	48	158	22	4.8	13.8	1.7	7.5	1.4	3.5	0.5	2.6	0.3	43	37	3
JPAC114	60	64	4	1633	293	916	67	230	31	7	19	2.2	9.8	1.7	4.3	0.5	2.8	0.4	49	37	4
JPAC114	64	68	4	1806	368	895	84	292	40	8.6	23.4	2.6	12.3	2.1	5.9	0.7	4.5	0.6	66	34	3
JPAC114	68	72	4	1609	367	771	79	261	34	7.2	19.1	2.3	9.7	1.6	4.5	0.6	3.5	0.5	48	28	3
JPAC114	72	76	4	1603	373	748	83	273	35	7.4	18.9	2.2	9.5	1.6	4.2	0.5	3.4	0.5	44	33	3
JPAC114	76	80	4	1079	246	503	53	170	24	5	14.1	1.6	7.5	1.3	3.7	0.5	2.9	0.5	45	30	2
JPAC114	80	84	4	815	197	372	40	131	18	3.8	10.1	1.2	6	0.9	2.6	0.3	1.9	0.3	30	29	2
JPAC114	84	88	4	1130	262	530	56	181	25	4.7	14.1	1.8	7.6	1.4	3.3	0.5	2.5	0.3	40	39	3
JPAC115	20	24	4	407	130	138	22	73	10	2.2	6.2	0.8	3.8	0.7	1.6	0.2	1.2	0.2	19	39	2
JPAC115	24	28	4	973	248	372	51	182	27	5.6	16.3	2	9.3	1.7	4	0.5	2.6	0.4	52	28	2
JPAC115	28	32	4	1405	348	616	69	233	30	6.5	18.1	2.2	10.8	1.9	4.8	0.6	3.3	0.5	60	36	2
JPAC115	32	36	4	2122	463	1012	99	345	47	9.4	26.3	3.2	15.5	2.8	6.8	1	5.1	0.8	86	25	3
JPAC115	36	40	4	1873	372	846	96	351	49	10	28.7	3.6	16.6	3	7.5	0.9	5	0.8	83	24	4
JPAC115	40	44	4	1718	334	770	86	328	48	9.3	28.4	3.5	16.5	2.9	6.8	0.9	5	0.7	79	22	5
JPAC115	44	48	4	1666	333	733	83	304	45	9.6	28.7	3.6	18.2	3.1	7.5	1	5.1	0.8	90	21	4
JPAC115	48	52	4	1570	304	691	78	295	43	9.4	26.6	3.3	16.3	2.9	7.1	1	5.5	0.9	87	20	4
JPAC115	52	56	4	2130	388	946	107	409	63	11.5	40	5	22.8	4	9.7	1.1	6.7	1.1	116	17	4
JPAC115	56	60	4	1854	354	820	92	345	52	9.5	31.6	4.1	19.1	3.5	9.1	1.4	8.9	1.5	103	14	4
JPAC115	60	64	4	1739	341	785	87	316	45	8.3	27.4	3.4	16.2	2.9	7.7	1.2	8.2	1.3	90	14	4
JPAC115	64	68	4	1683	332	769	84	310	44	8.7	25.6	3.1	13.9	2.6	6.3	0.9	5.3	1	77	16	3
JPAC115	68	72	4	1426	265	625	70	261	40	8	25	3	14	2.7	7.5	1.1	6.5	1	97	11	3
JPAC115	72	74	2	1051	202	468	52	195	29	6.1	17.5	2.2	9.7	1.9	4.7	0.7	4	0.6	59	14	2
JPAC116	28	32	4	537	163	237	25	78	9	2.3	5.3	0.7	3.3	0.5	1.2	0.1	0.9	0.1	12	36	2
JPAC116	32	36	4	570	121	335	20	66	7	2.3	4.2	0.5	2.4	0.4	0.9	0.1	0.8	0.1	10	42	2
JPAC116	36	40	4	729	202	349	34	100	11	3.3	6.3	0.8	4	0.7	1.8	0.2	1.2	0.1	16	32	1
JPAC116	40	44	4	884	259	379	47	145	14	4.2	7.6	0.9	4.3	0.8	1.9	0.2	1.2	0.2	19	37	1
JPAC116	44	48	4	653	168	323	29	95	10	3.5	5.1	0.6	3	0.6	1.2	0.2	1	0.2	14	32	1
JPAC116	48	52	4	1275	235	678	54	196	27	6	15	1.9	9.2	1.6	4.2	0.6	3.3	0.5	44	24	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC116	52	56	4	2943	482	1486	120	478	72	16.7	48.7	6.5	31.8	5.9	14.5	2	10.4	1.5	169	25	7
JPAC116	56	60	4	2175	306	1028	82	335	53	13.7	44.3	6	31.8	6.7	17.6	2.7	14.8	2.5	232	30	8
JPAC116	60	64	4	1373	265	720	54	189	26	5.6	16.8	2.2	11	2.1	5.7	0.8	4.6	0.8	71	31	6
JPAC116	64	68	4	1204	246	546	55	200	29	5.4	18.3	2.3	11.2	2.2	6	0.8	4.6	0.8	76	24	4
JPAC117	28	32	4	769	168	400	31	110	15	3.7	9	1	5.1	0.9	2	0.3	1.4	0.3	21	37	2
JPAC117	32	36	4	561	141	289	22	72	8	2.5	5	0.6	2.7	0.5	1.1	0.2	0.9	0.1	16	43	1
JPAC117	36	40	4	633	129	354	23	80	10	2.8	6.4	0.8	3.7	0.6	1.7	0.2	1.2	0.2	20	29	1
JPAC117	40	44	4	381	94	185	16	56	6	2.2	3.6	0.4	1.9	0.4	1.1	0.2	1.1	0.2	13	22	1
JPAC117	44	48	4	744	174	381	32	109	12	3.8	6.7	0.7	3.6	0.6	1.5	0.2	1.4	0.2	19	26	1
JPAC117	48	52	4	689	155	362	28	94	11	3.3	6.7	0.8	3.6	0.6	1.6	0.2	1.3	0.2	21	22	1
JPAC117	52	56	4	605	149	322	24	78	8	2.6	4.8	0.5	2.4	0.4	1	0.2	1	0.1	12	21	1
JPAC117	68	73	5	886	149	480	33	127	16	4.2	10	1.3	6.8	1.4	4.2	0.6	4	0.7	49	26	3
JPAC118	16	20	4	522	202	151	29	87	11	2.4	6.6	0.8	4.2	0.7	1.7	0.2	1.3	0.2	24	33	2
JPAC118	20	24	4	610	224	187	36	98	12	2.7	8	1	5.2	0.9	2.5	0.3	2.1	0.3	31	42	2
JPAC118	24	28	4	742	237	276	45	127	16	2.8	7.6	0.9	4.3	0.7	1.8	0.2	1.2	0.2	22	50	2
JPAC118	28	32	4	776	246	257	47	139	17	3.5	10.7	1.3	6.5	1.2	3.1	0.4	2.2	0.4	41	47	3
JPAC118	32	36	4	1846	650	405	120	377	56	11.4	35.5	4.4	21.8	3.8	9.9	1.2	6.9	0.8	144	48	3
JPAC118	36	40	4	1122	357	367	70	213	29	5.7	16.3	1.9	8.8	1.4	3.5	0.4	2.6	0.4	45	50	4
JPAC118	40	44	4	2350	535	1001	147	485	65	11.5	28.9	3.2	14.6	2.2	4.8	0.7	4.2	0.5	48	44	6
JPAC118	44	48	4	1656	463	615	95	295	42	8.3	24.7	3	14.2	2.6	6.6	0.8	4.7	0.7	81	38	5
JPAC118	48	52	4	1450	374	586	84	274	37	7	19.8	2.2	10.4	1.6	4	0.6	3.4	0.4	46	45	4
JPAC118	52	56	4	2807	794	980	165	576	79	15.8	45.7	5.2	22.1	3.6	9.3	1.2	7	0.9	102	43	5
JPAC118	56	60	4	2110	422	1016	100	358	52	10.5	32.4	3.7	17.6	2.8	6.7	0.8	5.3	0.7	82	46	5
JPAC118	60	64	4	2023	346	1086	86	304	45	9	29.2	3.6	17.2	2.8	7.5	0.9	5.8	0.8	80	51	5
JPAC118	64	68	4	1496	287	726	70	240	35	7.2	22.2	2.7	14	2.5	6.4	0.9	5.8	0.8	75	55	5
JPAC118	68	72	4	1374	265	613	70	250	38	7.2	23.6	3	14.1	2.5	6.4	0.9	5.1	0.7	75	43	6
JPAC118	88	92	4	691	146	323	36	119	16	3.3	9.6	1.3	5.3	0.9	2.4	0.3	2.1	0.3	26	28	4
JPAC119	12	16	4	639	157	246	36	122	18	4.4	12.2	1.5	7.1	1.1	2.4	0.3	1.4	0.2	30	24	2
JPAC119	32	36	4	922	228	355	53	178	26	6.8	15	1.8	8.8	1.4	3.5	0.4	2.3	0.3	42	21	2
JPAC119	36	40	4	1306	303	559	67	222	33	7.6	20.2	2.7	12.2	2.2	5.8	0.7	4.2	0.6	68	36	3
JPAC119	40	44	4	1221	239	717	49	145	18	4.2	10.3	1.1	6	0.9	2.3	0.3	2.1	0.3	27	33	3
JPAC119	44	48	4	1790	279	1040	76	251	36	7.5	22.3	2.7	12.2	1.9	4.4	0.6	3.4	0.4	53	18	5
JPAC119	48	52	4	1239	201	651	57	199	30	6.8	19.4	2.5	12.1	1.8	4.7	0.6	3.6	0.5	50	17	5
JPAC119	52	56	4	1552	242	650	76	304	51	12.2	34.5	4.1	21.9	3.9	10.5	1.4	8.7	1.1	131	14	4
JPAC119	56	60	4	1314	229	576	64	224	37	8	23.5	3	15.7	3	9	1.3	8.7	1.4	111	22	5
JPAC119	60	64	4	953	184	414	48	166	25	5.4	17.2	2.1	10.9	1.9	5.5	0.8	4.4	0.7	67	15	3
JPAC119	64	68	4	920	181	411	47	167	26	5.2	16	1.9	9.4	1.6	3.9	0.5	3.2	0.5	47	15	3
JPAC119	68	72	4	1027	199	459	55	191	29	5.8	17.5	2.2	9.6	1.6	4.1	0.6	3.3	0.4	50	14	2
JPAC119	72	76	4	1107	216	506	57	199	29	6	18.4	2.2	10.8	1.8	4.4	0.6	3.3	0.5	53	10	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC119	76	80	4	690	137	309	35	124	19	4.4	11.8	1.4	6.7	1.1	2.9	0.4	2.2	0.3	35	11	2
JPAC119	80	83	3	781	152	349	40	145	22	4.7	13.4	1.6	7.9	1.3	3	0.4	2.7	0.4	38	15	3
JPAC120	12	16	4	653	160	317	31	92	12	2.3	7.2	0.9	4.7	0.8	2	0.3	1.5	0.2	22	27	2
JPAC120	16	20	4	820	204	430	38	106	13	2.2	6.5	0.8	3.7	0.5	1.4	0.2	1	0.2	13	29	2
JPAC120	20	22	2	683	166	327	33	103	13	2.3	7.7	0.9	4.5	0.6	1.8	0.2	1.5	0.2	22	22	2
JPAC121	24	28	4	568	203	174	33	112	14	3.1	8.5	0.8	3.7	0.6	1.5	0.2	1.2	0.2	13	36	3
JPAC121	28	32	4	582	169	253	28	92	12	2.3	6.1	0.7	3.1	0.5	1.4	0.1	1	0.2	14	30	2
JPAC121	32	36	4	1012	291	411	52	170	24	4.9	12.9	1.5	7	1.1	2.8	0.3	1.7	0.2	31	27	3
JPAC121	36	40	4	1443	357	553	81	289	42	8.2	23	2.9	14.1	2.2	5.6	0.7	3.3	0.4	62	20	3
JPAC121	40	44	4	1945	365	877	97	387	56	11.5	35.6	4.1	20.1	3.2	7.6	0.8	4.9	0.6	75	15	3
JPAC121	44	48	4	1582	291	749	74	275	42	8.8	25.6	3.1	14.8	2.6	7.3	0.9	5.4	0.8	82	14	3
JPAC121	48	52	4	2196	469	1018	102	358	49	10.9	30.1	3.6	18.8	3.5	9.6	1.3	8.7	1.2	112	23	3
JPAC121	52	56	4	2001	351	849	94	361	57	12.2	37.1	4.8	24.5	5	14.7	1.9	13.7	2	174	17	3
JPAC121	56	60	4	1189	234	510	59	217	33	7.4	20.4	2.5	12.2	2.3	6.2	0.8	5	0.7	80	12	1
JPAC121	60	64	4	1005	202	443	51	185	28	6.3	16.8	2	9.7	1.7	4.6	0.5	3.2	0.4	51	10	1
JPAC122	32	36	4	893	212	404	47	157	21	4.2	10.5	1.3	6.6	1	2.4	0.3	1.8	0.3	23	27	3
JPAC122	36	40	4	1628	379	763	82	279	38	7.5	19.5	2.3	10.8	1.7	3.9	0.4	2.5	0.4	41	24	1
JPAC122	40	44	4	1673	354	833	87	301	38	7.3	16	1.7	7.1	1	2.5	0.3	1.7	0.3	23	16	2
JPAC122	44	48	4	1550	346	815	67	225	30	5.8	15.9	1.7	7.9	1.2	2.5	0.3	2.3	0.3	29	16	2
JPAC122	48	52	4	2025	400	764	105	408	69	16.2	56.4	6.6	32.1	5	11.3	1.2	7.1	1	143	22	2
JPAC122	52	56	4	2114	406	990	107	402	61	12.4	37.5	4.4	19.5	2.8	6.4	0.7	4.8	0.7	61	15	2
JPAC122	56	60	4	1487	264	666	82	315	47	9.4	25.8	2.9	13.4	2	5.2	0.5	3.7	0.5	51	11	2
JPAC122	60	64	4	1690	319	826	87	317	45	9	22.9	2.6	11.5	1.6	4	0.5	3.1	0.4	40	18	2
JPAC122	64	68	4	2402	514	1087	132	461	63	12.6	31.9	3.7	16.9	2.6	6.3	0.8	5.5	0.8	65	12	2
JPAC122	68	72	4	2335	509	1023	122	430	58	11.5	31.8	3.6	18.4	3.2	9.1	1.2	8.2	1.3	104	17	2
JPAC122	72	76	4	1301	232	628	64	233	34	7	19.7	2.3	11.4	2.1	5.2	0.7	4.9	0.7	57	16	3
JPAC122	76	80	4	2232	418	909	107	402	61	13.7	42.7	5.3	28	5.5	16.6	2.3	15.1	2.3	204	17	1
JPAC122	80	84	4	1622	312	715	80	300	45	9.8	28.1	3.3	15.9	2.8	7.5	0.9	5.9	0.8	96	15	1
JPAC122	84	87	3	1229	272	582	59	207	27	5.9	14.2	1.7	7.3	1.3	3.6	0.4	2.9	0.5	44	18	4
JPAC123	16	20	4	1681	338	857	70	251	36	8.4	24.6	3	15.2	2.5	5.7	0.6	3.3	0.4	66	16	1
JPAC123	20	24	4	1405	307	700	64	215	28	6.3	17.9	2.3	11.5	1.9	4.2	0.4	2.7	0.3	45	17	2
JPAC123	24	28	4	448	100	199	21	73	10	2.2	6.9	0.9	4.9	0.9	2.1	0.3	1.9	0.2	25	52	2
JPAC123	28	32	4	811	199	330	45	156	21	4.9	11.8	1.4	7.4	1.1	2.6	0.3	1.6	0.2	28	17	2
JPAC123	32	36	4	1403	331	619	71	251	35	7.5	18.4	2.1	11.4	1.9	4.5	0.4	2.9	0.3	48	16	2
JPAC123	36	40	4	1326	286	612	64	230	30	7	18.4	2.2	11.3	2	4.5	0.6	3.3	0.4	55	14	2
JPAC123	40	44	4	1508	353	698	72	245	29	6.8	17.1	2	10.7	2	5.5	0.6	4.3	0.5	63	14	2
JPAC123	44	48	4	1383	319	640	66	226	29	6.3	17	2.2	10.9	1.9	5.2	0.6	3.3	0.5	57	16	1
JPAC123	48	52	4	936	213	409	44	146	21	4.8	14	1.7	9	1.7	5	0.8	5.4	0.9	61	30	3
JPAC123	52	56	4	1136	263	505	54	174	24	5.4	15	1.8	9.7	2	5.6	0.8	5	0.9	71	13	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC124	12	16	4	570	145	265	29	89	12	2.3	5.9	0.7	3.4	0.5	1.4	0.1	0.8	0.1	15	25	2
JPAC124	16	20	4	1146	271	449	66	221	33	6.1	20.5	2.5	12.5	2	4.8	0.5	2.8	0.3	54	32	1
JPAC124	20	24	4	601	186	191	35	112	16	2.8	10.4	1.3	6.4	1.2	2.9	0.3	1.6	0.2	34	36	2
JPAC124	24	28	4	415	152	139	25	69	9	1.9	4.1	0.5	2.5	0.4	1.1	0.1	0.8	0.1	11	47	1
JPAC124	48	52	4	1345	310	721	63	181	20	4.1	9.2	1	4.9	0.9	2.5	0.4	2.4	0.4	26	42	2
JPAC124	52	56	4	1144	338	453	65	192	22	4.7	11	1.2	6.4	1.2	3.6	0.6	3.6	0.7	41	31	2
JPAC124	56	60	4	622	147	332	27	78	8	1.6	4.4	0.5	2.7	0.5	1.3	0.2	1.3	0.2	17	30	2
JPAC126	4	8	4	830	168	392	40	133	21	4.2	12.7	1.6	7.8	1.3	3.8	0.4	2.9	0.4	42	23	2
JPAC126	8	12	4	1362	308	575	74	253	39	7.5	23.5	2.6	12.8	2.1	4.8	0.5	2.9	0.4	57	21	2
JPAC126	12	16	4	1914	401	817	110	372	57	10.6	34.9	3.9	18	2.8	6.2	0.7	3.2	0.5	76	18	3
JPAC126	16	20	4	2957	488	1424	185	616	78	14.1	41.9	4.5	20.1	2.9	6.6	0.7	3.7	0.5	73	17	4
JPAC126	20	24	4	1883	317	862	110	396	56	10.6	30.3	3.5	16.1	2.5	5.8	0.6	3.9	0.5	68	18	3
JPAC126	24	28	4	996	245	456	50	160	23	6.7	11.5	1.3	6.6	1.1	2.7	0.3	2.2	0.4	30	27	2
JPAC126	28	32	4	604	156	275	29	91	14	4.5	7.9	0.9	4	0.7	2.1	0.2	1.6	0.2	19	28	2
JPAC126	32	36	4	931	257	403	45	138	20	6	12.3	1.6	7.4	1.3	3.3	0.4	2.6	0.4	35	40	2
JPAC126	36	40	4	924	246	379	46	152	20	5.4	13.4	1.7	8.7	1.5	4	0.5	3.1	0.5	43	27	2
JPAC126	40	44	4	616	176	244	32	101	14	4.7	8.3	1	4.9	0.8	2.3	0.3	1.6	0.3	25	22	2
JPAC126	44	48	4	556	153	240	29	91	12	5	5.5	0.6	3	0.5	1.2	0.2	1.1	0.2	14	12	1
JPAC126	48	52	4	554	109	248	27	100	15	4.9	9	1	5.2	0.9	2.4	0.4	2.2	0.4	30	33	2
JPAC126	52	56	4	1225	305	602	60	181	20	5.5	10.1	1	4.9	0.9	2.5	0.4	3.1	0.6	29	42	3
JPAC126	56	60	4	1031	279	513	50	143	14	5	5.8	0.6	2.5	0.4	1.3	0.2	1.3	0.3	15	36	3
JPAC127	4	8	4	887	220	354	51	169	23	5.2	13.1	1.5	7.3	1.3	3.1	0.4	2.1	0.3	38	19	2
JPAC127	8	12	4	1713	394	669	104	372	51	11.7	27.8	3.2	14.6	2.2	5.2	0.5	2.8	0.3	55	17	1
JPAC127	12	16	4	1641	365	749	86	294	42	9.5	23.1	2.6	12	1.8	3.9	0.4	1.8	0.3	50	18	1
JPAC127	16	20	4	1745	378	803	87	302	42	9.6	25.8	3	15.4	2.4	5.6	0.6	3	0.4	69	12	1
JPAC127	20	24	4	1934	452	933	92	294	40	8.9	21.7	2.5	11.7	2.1	5.5	0.6	3.3	0.5	68	11	2
JPAC127	24	28	4	1835	432	847	92	300	40	8.5	22.8	2.4	12.1	2	5.8	0.7	4	0.5	66	20	2
JPAC127	28	32	4	2654	576	1265	135	456	58	13	33.7	3.8	17.3	2.9	7.1	0.9	5.6	0.7	80	30	3
JPAC127	32	36	4	2312	529	1059	119	395	52	11.5	29.5	3.2	16.4	2.6	7.2	0.9	5.9	1	81	29	3
JPAC127	36	40	4	1455	332	670	70	231	30	6.6	18.6	2.2	11.5	2.1	6	0.8	5	0.7	69	20	2
JPAC127	40	44	4	1394	314	653	69	234	32	6.1	17.3	2.1	9.1	1.5	4.3	0.5	3	0.4	47	19	1
JPAC127	44	47	3	1234	289	586	60	203	25	5.5	13.3	1.5	7.3	1.3	3.2	0.4	2.5	0.4	36	20	1
JPAC128	20	24	4	375	121	181	16	39	4	0.8	2.2	0.3	1.6	0.2	0.7	0.1	0.7	0.2	8	28	1
JPAC128	24	28	4	687	191	314	36	106	12	2.3	5.7	0.7	3.7	0.5	1	0.2	1	0.1	12	18	2
JPAC128	28	32	4	720	165	343	39	121	17	2.8	7.2	1	4	0.7	1.6	0.2	1.3	0.2	17	17	2
JPAC128	32	36	4	282	83	110	15	48	5	1.1	2.8	0.4	1.7	0.4	1.1	0.1	1	0.2	12	21	2
JPAC128	36	40	4	1192	214	612	51	176	26	3.8	16.7	2.2	11	2	5.8	0.7	4.1	0.5	68	30	3
JPAC129	24	28	4	611	231	198	37	104	13	2.4	6.2	0.6	3.2	0.5	1.4	0.2	0.9	0.2	13	18	2
JPAC129	28	32	4	1239	358	408	82	268	34	6.3	18.9	2	9.8	1.6	3.9	0.5	2.8	0.4	43	21	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC129	44	48	4	686	165	346	32	98	12	2	6	0.7	3.4	0.6	1.5	0.2	1.3	0.2	17	26	2
JPAC129	48	52	4	634	154	319	28	87	11	2.2	5.9	0.7	3.3	0.6	1.6	0.2	1.2	0.2	19	19	2
JPAC130	16	20	4	1105	308	491	58	169	21	3.9	11.9	1.3	6.1	1	2.6	0.3	1.8	0.2	28	21	3
JPAC130	20	24	4	3412	784	1541	176	604	87	16.5	47	5.3	23.6	3.6	9	1.1	5.7	0.8	108	33	4
JPAC130	24	28	4	2709	523	1240	141	515	81	15.4	45.1	5.4	24.7	3.7	9.2	1.1	6.1	0.7	99	30	4
JPAC130	28	32	4	1643	313	723	85	324	48	9.6	27.9	3.4	16.1	2.7	7.3	0.9	4.7	0.6	77	27	5
JPAC130	32	36	4	1497	293	679	79	283	43	8.4	25.6	3	13.8	2.2	5.7	0.6	3.8	0.4	56	22	7
JPAC130	36	40	4	1537	274	647	77	303	53	11.1	33.3	4.1	20	3.3	8.6	1.2	7.1	0.9	94	24	7
JPAC130	40	44	4	1161	221	494	58	214	34	6.9	21.6	2.7	14.2	2.4	6.7	0.8	5	0.8	80	21	3
JPAC130	44	48	4	1057	218	461	54	193	32	6.3	18.3	2.2	10.6	1.7	4.5	0.6	3.1	0.4	53	20	3
JPAC130	48	50	2	993	216	446	50	171	26	5.6	15	1.9	8.8	1.5	3.7	0.5	2.9	0.4	45	20	3
JPAC131	24	28	4	487	143	195	25	80	12	2.3	6.7	0.8	3.9	0.6	1.5	0.2	1.3	0.2	15	29	2
JPAC131	28	32	4	836	262	336	44	135	18	3.3	9.5	1	4.6	0.7	1.6	0.2	1.2	0.1	19	18	2
JPAC131	32	36	4	542	138	252	28	85	12	2.2	5.9	0.7	3.1	0.5	1.1	0.1	0.9	0.1	13	13	1
JPAC131	36	40	4	1635	306	845	84	279	39	7	20.8	2.4	10.3	1.5	3.1	0.4	1.6	0.2	36	13	2
JPAC131	40	44	4	1668	280	740	85	325	54	10.7	34	4.1	20.5	3.3	8.1	0.9	4.6	0.5	98	18	3
JPAC131	44	48	4	2243	406	960	118	444	70	13.7	43.1	5.3	25.4	4.4	11.9	1.5	8.1	1	131	17	4
JPAC131	48	52	4	2373	457	941	140	519	81	16	47.6	5	23.8	3.7	10	1.4	8.1	1.1	119	13	3
JPAC131	52	56	4	1717	344	688	95	352	55	11.6	32.7	3.6	17.6	3.1	8.3	1.2	7.4	1	98	14	3
JPAC131	56	60	4	1395	278	561	71	261	43	9.3	28.2	3.2	17	3	7.9	1.3	9	1.3	101	13	2
JPAC131	60	62	2	1154	233	494	57	204	34	7.2	20.7	2.4	12.6	2.1	6.1	0.9	6.6	1.1	73	16	2
JPAC132	28	32	4	674	179	274	35	118	18	3.6	10	1.2	5.8	1	2.1	0.3	1.7	0.2	25	34	2
JPAC132	32	36	4	1526	351	754	72	238	34	6.8	17.9	1.9	9.6	1.4	2.8	0.3	1.9	0.2	35	17	2
JPAC132	36	40	4	2220	438	1078	111	379	54	10.1	31.8	3.6	17.4	2.8	6.9	0.9	4.6	0.5	83	16	3
JPAC132	40	44	4	1600	354	747	76	255	38	7.4	22.5	2.6	12.5	2.2	5.7	0.8	4.4	0.6	71	21	3
JPAC132	44	48	4	2613	425	1529	108	367	52	9.5	26.2	2.8	14.4	2.2	5.7	0.7	4.2	0.6	66	20	3
JPAC132	48	52	4	2497	466	1208	126	457	66	12.7	34.6	3.8	18.4	3.1	7.6	1	6.7	0.8	85	20	3
JPAC132	52	56	4	2518	511	1115	132	469	68	14.4	39.4	4.6	23	3.8	10.5	1.5	9.6	1.3	115	23	4
JPAC132	56	60	4	1624	310	713	75	272	43	9.9	30.6	3.8	19.2	3.4	9.7	1.5	9.8	1.3	123	24	5
JPAC132	60	64	4	1055	205	445	48	166	28	5.8	19.5	2.3	13.4	2.7	8.1	1.1	7.9	1.3	102	27	9
JPAC133	8	12	4	1387	343	551	75	257	37	8.4	23.5	2.6	12.1	1.9	4.7	0.6	3.7	0.6	67	33	3
JPAC133	12	16	4	2054	494	803	109	388	62	13.3	36.2	4	19.5	3.1	7.8	1.1	6.7	1	106	32	3
JPAC133	16	20	4	2130	477	1075	99	322	42	8.7	24.6	2.5	12.3	1.9	4.5	0.6	3.4	0.5	57	31	5
JPAC133	20	24	4	1950	395	920	92	333	51	11	32.2	3.5	17.2	2.7	7.1	1	5.9	0.8	79	42	7
JPAC133	24	28	4	1240	262	554	59	217	37	7.7	22.7	2.6	12.1	1.8	5.3	0.6	4.6	0.6	55	25	6
JPAC133	28	32	4	2165	340	748	82	324	63	15.6	66.8	8.7	51.7	10.3	28.7	4	24.5	3.6	395	21	4
JPAC133	32	36	4	1095	232	497	53	189	29	5.7	17.7	1.9	9.1	1.6	4.4	0.5	3.3	0.5	51	18	3
JPAC133	36	40	4	975	189	441	50	175	29	5.7	17.1	1.8	9.9	1.6	3.8	0.5	3.5	0.4	48	15	3
JPAC133	40	42	2	931	174	414	48	173	28	5.3	17.5	2	9.8	1.6	3.9	0.6	3	0.5	51	12	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC134	8	13	5	1036	181	446	54	200	34	7.1	22	2.5	12.7	2.2	5.5	0.7	4	0.6	65	11	2
JPAC135	8	12	4	545	169	187	33	102	14	2.9	7.9	0.9	4.7	0.7	1.8	0.2	1.3	0.2	20	38	2
JPAC135	12	16	4	479	189	129	31	89	12	2.9	6.4	0.7	3	0.5	1.1	0.1	1	0.1	14	36	2
JPAC135	16	20	4	312	120	88	19	55	7	2	4.7	0.5	2.4	0.3	0.9	0.1	0.6	0.1	12	23	1
JPAC135	20	24	4	421	140	152	22	66	10	2	5.5	0.8	3.5	0.6	1.7	0.2	1.5	0.2	17	52	2
JPAC135	24	28	4	508	133	230	24	75	10	2.5	6.3	0.7	3.8	0.6	1.6	0.2	1.6	0.2	18	50	3
JPAC135	28	32	4	1638	422	608	97	321	49	9.1	29.3	3.3	15.8	2.6	5.8	0.7	4.2	0.5	71	32	5
JPAC135	32	36	4	1181	271	431	65	226	35	7.8	25.3	2.8	13.8	2.4	6.3	0.7	4.1	0.5	91	41	4
JPAC135	36	40	4	1769	598	461	119	382	52	10.9	31.8	3.6	17.9	2.7	6.2	0.7	3.9	0.5	79	46	3
JPAC135	40	44	4	775	210	303	41	132	17	4.7	10.9	1.2	6.7	1.1	3.2	0.3	2	0.2	41	50	3
JPAC135	44	48	4	851	156	381	46	166	26	5.3	15.6	1.8	8.2	1.4	3.3	0.4	2.4	0.3	39	34	6
JPAC135	48	52	4	604	113	295	30	103	17	3	9.6	1.1	5.5	0.8	2	0.3	1.7	0.3	22	39	5
JPAC135	52	56	4	1369	280	775	54	167	23	4.8	13.4	1.4	8.1	1.3	3.1	0.4	2.8	0.4	34	40	5
JPAC135	56	60	4	1779	384	912	80	253	35	7	19.2	2.2	12.2	2.1	5.3	0.7	4.7	0.6	62	50	4
JPAC135	60	64	4	1821	331	873	94	338	53	10	27.4	3.2	14.8	2.5	6	0.8	6.6	0.9	61	26	5
JPAC135	64	68	4	1498	282	636	73	268	44	9.8	28.6	3.3	18.4	3.3	8.7	1.2	9	1.2	113	25	5
JPAC135	68	72	4	1035	199	447	52	183	28	6.4	18.4	2	11	1.9	5.4	0.8	5.4	0.8	75	16	3
JPAC135	72	77	5	1046	211	461	53	188	30	6.1	18.4	2.1	10.5	1.8	4.3	0.5	4	0.5	55	15	3
JPAC136	20	24	4	575	186	203	34	101	13	2.7	7.6	0.9	4.2	0.7	1.6	0.2	1.6	0.2	19	48	3
JPAC136	24	28	4	583	190	205	34	102	14	2.5	8	1	4.1	0.6	1.7	0.2	1.5	0.2	18	49	3
JPAC136	28	32	4	756	238	259	48	142	21	3.8	11.5	1.3	5.3	0.8	1.7	0.2	1.2	0.2	23	31	2
JPAC136	32	36	4	1377	402	476	86	265	39	7.9	23	2.3	11.8	1.9	4.3	0.5	2.8	0.4	54	29	4
JPAC136	36	40	4	1133	297	453	65	203	29	5.8	17	1.9	9.1	1.5	3.5	0.4	2.7	0.3	44	41	4
JPAC136	40	44	4	809	198	330	45	143	22	4	13.6	1.5	8	1.3	2.9	0.3	2.1	0.2	38	37	3
JPAC136	44	48	4	1389	305	610	71	233	37	7.5	23.9	2.6	13.7	2.3	5.3	0.6	3.6	0.4	74	24	5
JPAC136	48	52	4	893	210	402	45	144	23	4.9	13.5	1.6	8.1	1.4	3.1	0.4	2	0.3	36	22	4
JPAC136	52	56	4	1235	266	604	62	194	31	5.2	15.9	1.8	9.1	1.5	3.1	0.5	2.6	0.3	40	30	5
JPAC136	56	60	4	1268	179	717	60	205	31	5.6	14.2	1.8	8.8	1.4	3	0.4	2.9	0.4	39	18	4
JPAC136	60	64	4	1342	171	820	51	182	30	5.3	15.8	1.9	9.4	1.6	4.1	0.6	3.5	0.4	45	13	4
JPAC136	64	68	4	1971	287	1075	89	323	53	9.6	28.8	3.3	16.6	2.8	6	0.8	5.3	0.6	72	32	4
JPAC136	68	72	4	1589	260	770	76	286	47	8.6	28	3.4	15.9	2.7	6.4	0.9	5.8	0.7	79	25	3
JPAC136	72	76	4	1298	244	591	60	217	33	6.3	23.4	2.7	14.6	2.5	6.7	0.8	5.9	0.8	90	22	2
JPAC136	76	80	4	702	151	321	36	116	18	3.5	10.5	1.2	6.1	1	2.3	0.4	2.3	0.3	34	16	2
JPAC136	80	82	2	834	175	376	42	144	22	4	14.3	1.6	7.8	1.3	3.3	0.4	2.5	0.4	40	18	2
JPAC137	12	16	4	1020	243	469	51	164	24	4.7	14	1.6	8	1.3	2.8	0.3	2.2	0.3	34	44	3
JPAC137	16	20	4	1017	224	472	54	177	26	4.9	14.4	1.7	7.4	1.2	2.5	0.3	1.5	0.1	31	26	2
JPAC137	20	24	4	857	184	408	43	143	22	5	12.1	1.4	6.7	1.1	2.3	0.3	1.7	0.2	27	20	2
JPAC137	24	28	4	553	145	200	33	111	16	4.7	8.7	1	5.3	0.8	2	0.3	1.5	0.2	25	21	2
JPAC137	28	32	4	576	104	259	26	94	16	5.9	10.6	1.4	6.5	1.3	3.4	0.5	3.1	0.4	44	23	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC137	32	36	4	844	155	405	43	146	22	5.9	12.9	1.5	7.1	1.3	3.2	0.4	2.7	0.4	38	28	3
JPAC137	36	40	4	1608	246	807	77	286	49	10.9	30	3.7	16.2	2.6	6.3	0.8	5	0.6	68	17	5
JPAC137	40	44	4	856	130	386	42	160	27	7	19.1	2.4	11.5	2.1	5.3	0.7	4.6	0.6	59	18	4
JPAC138	32	36	4	2470	994	619	150	470	60	14.1	34.6	3.8	18.2	3	7.2	0.8	4.2	0.5	92	32	2
JPAC138	36	40	4	809	203	228	46	171	27	7.4	19.1	2.4	11.5	2.1	5.8	0.7	3.8	0.5	81	35	2
JPAC138	40	44	4	1309	393	378	79	279	40	9.6	24.4	2.8	13.4	2.2	5.9	0.7	4.3	0.6	77	66	3
JPAC138	44	48	4	1204	398	371	69	229	32	8.3	20.4	2.2	10.4	1.7	4.4	0.5	3	0.5	55	71	4
JPAC138	48	52	4	839	273	375	38	107	11	3.9	6.4	0.7	3.5	0.5	1.5	0.2	1.1	0.2	18	54	3
JPAC138	52	56	4	1761	405	907	73	233	31	8.2	18.6	2.2	10.2	1.7	4.6	0.6	4.3	0.7	62	29	4
JPAC138	56	60	4	2441	318	1572	86	303	43	9.5	24.6	3	13.4	2.2	5.6	0.7	4.4	0.6	57	37	6
JPAC138	60	64	4	2776	324	1695	100	367	60	14	40.7	5.2	24.2	4.1	10.4	1.5	9.3	1.4	121	29	5
JPAC138	64	68	4	1201	218	488	61	229	39	7.4	25.3	3.1	15.7	2.9	7.3	1	7	1.2	95	21	3
JPAC138	68	72	4	1055	211	461	54	192	31	6	17.6	2.2	10.2	1.8	4.4	0.7	4.2	0.6	61	35	4
JPAC138	72	76	4	1024	202	452	53	189	29	6.4	18	2.1	10	1.7	4.4	0.6	3.2	0.5	53	51	4
JPAC138	76	80	4	751	148	329	39	137	21	4.9	13.4	1.6	8	1.3	3.3	0.4	2.6	0.4	41	21	4
JPAC138	80	84	4	897	182	392	46	163	26	5.3	16.1	2	9.4	1.5	3.9	0.5	3.1	0.5	46	24	3
JPAC138	84	86	2	942	190	414	49	172	27	5.5	17.2	2	9.3	1.5	3.9	0.5	3.1	0.4	47	18	3
JPAC139	12	16	4	1104	267	632	44	120	14	2.5	6.5	0.8	3.5	0.4	1.1	0.1	0.8	0.1	11	19	1
JPAC139	16	20	4	1362	185	1006	33	99	13	2.4	6.2	0.8	3.3	0.5	1.1	0.1	0.8	0.1	13	33	1
JPAC139	20	24	4	1083	100	879	20	55	8	1.2	3.9	0.5	2.3	0.4	1.1	0.1	0.8	0.1	11	32	1
JPAC139	24	28	4	678	118	446	20	60	7	1.6	4	0.5	2.3	0.4	1.3	0.2	1.2	0.2	15	40	1
JPAC139	28	32	4	677	143	409	24	70	8	1.6	4.1	0.5	2	0.4	1.1	0.2	1	0.1	12	40	2
JPAC140	16	20	4	585	177	172	38	124	19	3.9	11.1	1.3	6.3	0.9	2.4	0.3	1.5	0.2	29	16	1
JPAC140	20	24	4	718	191	215	45	154	25	5	14.6	1.8	8.5	1.5	3.8	0.5	2.9	0.4	49	12	1
JPAC140	24	28	4	1141	266	415	66	224	35	7.4	22.8	2.7	13.1	2.2	5.9	0.7	3.6	0.5	77	12	2
JPAC140	28	32	4	1597	312	743	80	271	42	8.8	26.5	3	14.6	2.5	6.5	0.8	4.2	0.6	84	15	2
JPAC140	32	36	4	1694	347	815	78	259	39	8.2	23.9	2.9	14.9	2.5	6.7	0.9	5.3	0.7	89	17	3
JPAC140	36	40	4	1341	276	651	67	214	33	6.4	19.3	2.2	11	1.8	4.3	0.5	3.4	0.4	52	22	3
JPAC140	40	44	4	1283	274	615	65	209	30	6.5	18.1	2.2	10.2	1.6	3.6	0.4	2.6	0.3	45	30	3
JPAC140	44	48	4	1337	299	535	79	266	39	8.2	23.3	3	13.7	2.2	5.5	0.6	3.8	0.5	58	21	3
JPAC140	48	52	4	1732	327	825	88	298	45	9.3	28	3.4	16.3	2.6	6.3	0.7	3.8	0.5	78	18	4
JPAC140	52	56	4	1984	353	857	97	366	61	13.1	38.2	4.7	23.4	4.3	11.4	1.6	10.3	1.5	142	20	4
JPAC140	56	60	4	1187	213	532	60	213	32	7.4	21.9	2.6	13.1	2.5	6.4	1	8.6	1.4	72	12	3
JPAC140	60	64	4	1067	196	463	56	200	31	6.9	20.2	2.3	11.6	1.9	5.5	0.8	5.5	0.9	65	14	3
JPAC141	20	24	4	1134	289	535	57	182	21	4.2	10	1.1	5.2	0.9	2.1	0.2	1.2	0.2	26	13	2
JPAC141	24	28	4	882	182	406	42	155	23	5.7	16.5	1.9	9.4	1.4	2.9	0.3	1.8	0.3	33	11	2
JPAC141	28	32	4	240	71	79	12	38	6	1.5	4.4	0.7	3.9	0.8	2.1	0.3	2.2	0.3	19	9	2
JPAC141	32	36	4	511	177	160	30	88	13	2.9	7.4	1.1	5.5	0.9	2.3	0.4	2.5	0.4	21	9	1
JPAC141	36	40	4	1311	297	565	71	244	36	8.5	21.9	2.8	13.1	1.9	4.8	0.5	3.3	0.5	43	11	1

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC141	40	44	4	1718	357	774	84	296	44	10.3	30.1	3.9	19.2	3.3	8	1	6.5	0.9	82	15	2
JPAC141	44	48	4	1448	307	632	70	233	31	7.4	20.9	3	16	3.3	9.2	1.3	9.3	1.3	104	14	2
JPAC141	48	52	4	1446	301	634	69	230	30	7.4	21.9	3	16.6	3.5	9.4	1.4	9.9	1.5	108	14	2
JPAC141	52	56	4	1116	223	479	55	185	26	5.8	17.5	2.3	12.3	2.6	7.2	1.1	7.6	1.1	91	9	2
JPAC141	56	60	4	1067	230	496	56	185	24	5.2	13.6	1.5	7.6	1.4	3.5	0.4	2.5	0.4	40	10	2
JPAC141	60	62	2	976	214	447	50	171	22	4.7	12.4	1.4	7.1	1.3	3.1	0.4	2.6	0.4	39	16	3
JPAC142	0	4	4	1094	234	499	57	195	26	5.5	14.5	1.6	8.3	1.5	3.4	0.5	2.9	0.4	45	7	1
JPAC143	0	4	4	884	137	492	35	116	18	4.4	13.7	1.9	10	1.8	4.6	0.6	3.8	0.5	45	10	6
JPAC144	20	24	4	301	146	75	17	42	6	1.6	3.6	0.4	1.9	0.3	0.8	0.1	0.7	0.1	7	42	1
JPAC144	24	28	4	458	178	167	25	65	7	1.6	3.7	0.5	1.8	0.3	0.8	0.1	0.5	0.1	8	51	1
JPAC144	28	32	4	795	235	394	35	94	10	2	5.3	0.6	2.9	0.4	1.2	0.2	1.1	0.2	14	38	2
JPAC144	32	36	4	496	115	279	19	52	5	1.1	3.3	0.4	2.5	0.5	1.5	0.2	1.9	0.3	15	74	3
JPAC144	36	40	4	3441	1150	1034	232	780	96	18.9	40.4	4.5	19.7	2.8	6	0.6	4.1	0.5	53	6	4
JPAC144	40	44	4	3140	1065	930	227	703	81	15.9	36.2	3.9	17.7	2.7	5.3	0.6	3.7	0.5	49	5	4
JPAC144	44	48	4	2062	280	970	83	316	47	11	37.5	5.1	30.1	6.6	19.5	2.7	17.8	2.7	233	5	3
JPAC144	48	52	4	768	150	327	38	136	21	4.2	13.7	1.8	8.8	1.7	4.5	0.6	3.9	0.6	57	7	1
JPAC144	52	56	4	806	170	359	40	140	19	4.4	12	1.5	7.6	1.4	3.4	0.4	3	0.4	44	5	1
JPAC144	56	60	4	792	175	354	40	136	19	4.1	11.5	1.4	7.2	1.3	3.1	0.4	2.4	0.3	36	3	1
JPAC144	60	64	4	794	164	346	41	141	20	4.3	12.9	1.6	8.6	1.5	4.1	0.5	3	0.4	45	5	2
JPAC144	64	66	2	815	168	355	41	150	21	4.5	13.8	1.7	8.8	1.6	3.8	0.6	3.1	0.4	43	5	1
JPAC145	0	4	4	715	146	316	37	129	19	4.3	12.4	1.4	7.3	1.3	3.2	0.4	2.7	0.4	37	3	0
JPAC145	24	28	4	1588	389	780	77	247	31	6	14.5	1.8	8.2	1.2	2.6	0.3	1.9	0.2	28	29	2
JPAC145	28	32	4	1802	423	851	88	296	37	7.9	22.1	2.5	12.2	2	4.7	0.5	2.6	0.4	53	19	2
JPAC145	32	36	4	1347	317	628	64	223	28	5.8	16.5	1.9	9.8	1.6	3.7	0.5	2.5	0.3	46	20	2
JPAC145	36	40	4	2449	537	1132	124	416	50	10.7	29.3	3.4	17.3	3	8.1	1.2	7.3	1.1	108	22	1
JPAC145	40	44	4	1635	378	753	80	264	32	6.6	18.2	2.3	12.1	2.2	5.4	0.8	4.8	0.7	75	17	1
JPAC145	44	48	4	864	195	398	44	147	18	4.4	10.9	1.3	6.3	1.1	2.5	0.3	1.9	0.3	32	8	1
JPAC145	48	52	4	1406	340	663	68	226	27	5.6	14.9	1.7	8.1	1.4	3.5	0.5	2.9	0.4	43	16	1
JPAC145	52	56	4	1359	307	628	70	233	30	5.9	16	1.9	10.1	1.6	3.6	0.5	3.2	0.4	48	14	1
JPAC145	56	60	4	1639	404	783	83	259	30	6.2	15.2	1.6	7.8	1.4	3.7	0.5	2.9	0.4	41	22	2
JPAC145	60	63	3	1592	372	769	81	262	30	6.3	15.2	1.7	7.8	1.4	3.4	0.5	2.8	0.4	39	19	1
JPAC146	8	12	4	776	158	339	38	135	19	4.4	13.6	1.7	9	1.6	4.2	0.6	3.4	0.4	48	31	3
JPAC146	12	16	4	2455	369	1424	104	386	56	11.2	27	3	14.2	1.9	4.6	0.6	3.6	0.4	49	26	3
JPAC146	16	20	4	1802	282	788	84	339	54	11.5	40.1	4.8	25.5	4.6	11.7	1.5	8.7	1.2	146	24	3
JPAC146	20	24	4	1387	242	607	74	276	41	8.2	25.9	3.1	15.8	2.5	6.7	0.9	5.6	0.8	78	19	3
JPAC146	24	28	4	909	162	386	49	185	29	5.3	17.6	2.1	10.6	1.7	4.4	0.5	3.6	0.5	52	23	4
JPAC146	28	32	4	916	167	397	46	172	28	6.3	19.6	2.3	11.9	1.9	4.7	0.7	4.5	0.6	54	24	4
JPAC146	32	36	4	1012	177	426	53	198	32	6.5	21.8	2.7	13.8	2.3	5.8	0.9	5.5	0.8	66	21	5
JPAC146	36	38	2	1105	215	470	57	208	34	7.5	24.1	2.9	14.3	2.3	5.7	0.7	4.6	0.6	60	24	5

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC147	24	28	4	533	138	206	30	96	17	3.4	8.4	1.2	6.4	0.9	2.4	0.3	2	0.3	21	41	4
JPAC147	28	32	4	352	121	131	19	53	8	1.7	4.2	0.5	2.2	0.4	1	0.2	0.9	0.1	10	34	2
JPAC147	32	36	4	709	246	219	43	131	18	4.1	10.4	1.2	6.2	0.9	2.3	0.3	1.4	0.2	27	28	2
JPAC147	36	40	4	1597	480	457	107	353	47	9.9	28.7	3.4	17.1	2.6	6.6	0.7	3.7	0.5	81	31	3
JPAC147	40	44	4	1115	292	363	67	230	33	7	21.7	2.6	13.9	2.4	6	0.8	4.1	0.5	71	29	4
JPAC147	44	48	4	1525	348	696	72	246	32	7.1	20.2	2.5	12.6	2.4	6.5	0.9	4.9	0.7	74	42	4
JPAC147	48	52	4	1921	391	973	83	285	38	8.1	24.6	2.9	15.4	2.7	7.4	1	5.8	0.8	84	35	3
JPAC147	52	56	4	2739	635	1205	143	484	63	12	34.7	4.1	20.8	3.6	9.6	1.4	8.4	1.2	115	35	4
JPAC147	56	60	4	1978	371	862	101	366	52	10.5	31	3.9	20	3.6	10.2	1.5	9.6	1.3	135	34	4
JPAC147	60	64	4	1286	253	560	62	219	31	6.6	20.2	2.6	13.5	2.6	7.3	1.1	6.8	0.9	100	24	3
JPAC147	64	68	4	1009	219	464	52	172	24	4.8	14.5	1.6	8.5	1.4	3.3	0.5	2.8	0.3	41	22	3
JPAC147	68	70	2	986	228	457	49	163	22	4.6	12	1.5	7.1	1.2	2.9	0.4	2.3	0.4	35	24	3
JPAC148	20	24	4	997	232	508	49	143	21	4	10.4	1.2	5.8	0.9	1.8	0.2	1.4	0.2	18	25	4
JPAC148	24	28	4	2745	647	1234	145	478	68	14.1	39.3	4.6	21	3.2	7	0.8	4.2	0.6	78	34	4
JPAC148	40	44	4	599	127	254	29	98	15	4	9.9	1.3	6.6	1.3	3.5	0.5	3.1	0.5	46	17	2
JPAC148	44	48	4	911	176	391	46	166	25	5.6	16.4	2.1	10.3	1.8	4.8	0.6	3.6	0.5	62	20	3
JPAC148	48	52	4	771	164	329	40	137	20	4.9	13.6	1.6	7.5	1.4	3.7	0.5	2.6	0.4	46	25	3
JPAC148	52	56	4	915	187	405	47	162	24	5.2	15.9	1.9	9.1	1.6	3.7	0.5	3.1	0.5	49	15	3
JPAC148	56	60	4	889	176	387	47	163	25	5.4	15.9	1.9	9.3	1.6	4.1	0.6	3.2	0.4	50	19	3
JPAC148	60	64	4	838	158	355	45	160	24	5.3	16.1	1.9	9.7	1.8	4.3	0.6	3.5	0.5	53	13	2
JPAC149	36	40	4	376	113	156	16	49	8	1.9	5	0.6	2.9	0.6	1.6	0.3	1.4	0.2	20	8	2
JPAC149	40	44	4	2352	589	1089	112	353	50	10.9	31.4	3.7	17.1	2.8	6.8	0.8	4.2	0.5	82	45	3
JPAC149	44	48	4	2398	650	1131	104	326	47	10.3	28.1	3.3	14.2	2.4	6.1	0.7	3.7	0.4	71	41	3
JPAC149	48	52	4	1624	380	760	74	248	40	8.5	26.4	3.2	13.8	2.2	5.1	0.6	3.5	0.5	59	24	2
JPAC149	52	56	4	1406	299	680	66	222	36	7.9	24.2	2.8	12.5	1.9	4.4	0.5	3	0.5	47	17	4
JPAC149	56	60	4	1614	404	772	78	237	34	6.7	19.5	2.3	10.3	1.7	4.2	0.5	2.9	0.4	42	12	4
JPAC149	60	64	4	1938	297	776	105	396	69	16.1	46.9	6.3	30.4	5.4	15.1	2	11.6	1.6	161	3	12
JPAC149	64	68	4	383	37	90	12	50	11	4.1	14.2	2.4	14.9	3.3	10.1	1.5	8.1	1.3	125	2	7
JPAC149	68	72	4	299	35	81	11	43	9	3.5	9.6	1.5	9.2	2	6.6	1	5.4	0.9	81	2	7
JPAC149	72	76	4	957	180	391	46	163	27	5.7	19.4	2.5	12.5	2.5	7.3	0.9	5.4	0.9	95	14	4
JPAC150	32	36	4	522	185	187	26	77	12	2.4	7.1	0.9	4.2	0.7	1.9	0.2	1.4	0.2	18	49	6
JPAC150	36	40	4	939	287	332	50	165	26	5.3	15.4	1.8	8.2	1.3	3.4	0.4	2.2	0.3	41	33	6
JPAC150	40	44	4	2550	638	1140	125	410	58	12.1	34.4	4.1	18.3	3	7.7	1.1	5.4	0.6	93	44	4
JPAC150	44	48	4	1839	459	815	93	297	41	8.9	25.5	3.1	14	2.3	5.8	0.7	3.9	0.5	70	21	3
JPAC150	48	52	4	2458	577	1041	125	424	62	13.1	38.6	4.7	21.9	4	10.2	1.4	7.4	1	126	28	3
JPAC150	52	56	4	2063	473	889	112	380	56	11.5	34.2	4.1	17.4	2.8	6.4	0.7	3.7	0.5	72	28	5
JPAC150	56	60	4	2067	660	626	130	433	61	13.3	35.3	3.9	16.5	2.6	5.8	0.7	4.1	0.6	75	19	4
JPAC151	20	24	4	541	181	171	32	103	14	3	8.6	1	4.4	0.7	1.9	0.2	1.1	0.1	20	31	3
JPAC151	24	28	4	621	220	195	37	110	16	3.4	8.9	1.1	4.7	0.7	1.9	0.2	1.1	0.2	22	22	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC151	28	32	4	1325	407	524	72	210	28	5.8	17.1	2	8.6	1.3	3.6	0.4	2.1	0.3	43	18	2
JPAC151	32	36	4	1357	368	559	79	234	31	6.5	19.3	2.3	9.3	1.5	3.9	0.5	2.2	0.3	41	20	2
JPAC151	36	40	4	1549	404	609	92	286	40	8.2	23.9	2.9	12.8	2.1	5.2	0.7	3.4	0.4	59	20	3
JPAC151	40	44	4	1379	307	572	80	262	41	8	24	2.9	12.6	2.1	5.4	0.7	3.5	0.5	57	24	4
JPAC151	44	48	4	1814	380	803	98	330	49	9.6	28.1	3.4	16.4	2.8	7	0.9	4.8	0.7	81	29	4
JPAC151	48	52	4	2146	404	1028	115	387	55	10.7	31.8	3.9	18.2	3	7.2	0.9	5	0.7	77	24	6
JPAC151	52	56	4	3239	608	1277	199	760	115	22.5	64.2	7.4	33.1	5.3	11.5	1.3	7.2	1	127	20	5
JPAC151	56	60	4	1997	323	943	98	366	56	10.8	36	4.5	21.4	4	9.9	1.2	7	0.9	117	19	4
JPAC151	60	64	4	2200	411	949	121	438	68	12.3	39.4	4.9	23.5	4	10.4	1.1	6.1	0.8	112	23	4
JPAC151	64	68	4	1503	259	694	80	298	48	8.4	24.6	3.1	13.9	2.4	6.3	0.7	4.9	0.7	59	42	6
JPAC151	68	72	4	2690	459	1059	138	528	91	19.1	64.8	8.2	41.7	7.9	20.6	2.6	15.7	2.4	233	19	3
JPAC151	72	76	4	1656	292	709	83	309	48	9.6	30.7	4	19.2	3.9	10.2	1.4	9.2	1.4	127	14	2
JPAC151	76	81	5	1406	250	599	72	268	43	8.3	27.1	3.4	16.5	3	8.3	1.1	6.4	1	100	12	2
JPAC152	28	32	4	633	210	247	32	92	14	2.7	7.3	0.9	4.4	0.8	2.1	0.3	1.8	0.2	20	35	2
JPAC152	32	36	4	1905	481	855	95	305	44	8.7	24.1	2.9	13.1	2.3	5.8	0.7	4.1	0.6	64	31	2
JPAC152	36	40	4	1778	366	804	97	343	51	10.3	26.2	3	13.3	2.3	5.3	0.6	3.4	0.4	53	20	3
JPAC152	40	44	4	2030	379	906	113	407	62	11.8	33.3	4	18.6	3.2	7.5	0.8	4.6	0.5	79	17	7
JPAC152	44	48	4	2312	421	1036	137	482	71	13.3	36.7	4.3	18.9	3	7	0.8	4.5	0.6	76	16	8
JPAC152	48	52	4	1507	277	663	82	305	47	9.8	27.8	3.3	14.2	2.4	6.2	0.7	4.1	0.7	64	17	6
JPAC152	52	56	4	1771	339	823	90	330	49	9.7	27.3	3.3	14.9	2.6	5.6	0.7	4.2	0.6	72	22	4
JPAC152	56	60	4	1251	240	554	62	229	37	7.3	21.3	2.6	12.5	2.2	6.1	0.7	4.5	0.7	71	23	3
JPAC152	60	63	3	1492	350	693	73	248	35	7.2	18.9	2.1	9.6	1.5	4.1	0.5	3.2	0.4	46	26	2
JPAC153	28	32	4	485	135	145	29	104	17	3.1	11.3	1.5	7.5	1.2	2.7	0.3	1.6	0.2	26	68	2
JPAC153	32	36	4	605	144	223	32	109	18	3.2	13.8	1.8	10.5	1.7	4	0.4	1.9	0.2	43	36	3
JPAC153	36	40	4	641	143	327	28	88	12	2.2	7.3	1	4.8	0.9	2.2	0.2	1.4	0.2	24	33	2
JPAC153	40	44	4	1032	255	424	54	176	29	4.2	16.8	2.3	12.3	2	5.1	0.6	3.2	0.4	48	21	8
JPAC153	44	48	4	285	65	130	14	44	7	1.2	4.2	0.6	3.2	0.5	1.3	0.2	1.2	0.1	14	23	3
JPAC153	48	52	4	870	201	470	36	108	13	2.6	7.6	1	4.6	0.8	2	0.2	1.7	0.2	21	31	3
JPAC153	52	56	4	949	234	499	40	121	15	2.5	7.6	0.9	4.9	0.8	1.9	0.2	1.7	0.2	21	26	4
JPAC153	56	60	4	1408	323	700	65	210	27	4.8	15.5	1.9	9.7	1.8	4.4	0.6	3.5	0.4	41	31	4
JPAC153	60	64	4	1576	283	851	64	215	33	4.7	19.5	2.8	14.2	2.6	7	0.9	5.4	0.7	74	34	5
JPAC153	64	68	4	1744	304	928	72	244	40	5.2	25.1	3.4	18.3	3.2	8.1	0.9	5.5	0.7	86	32	4
JPAC153	68	72	4	1345	259	647	60	209	32	5.1	22.6	3.1	14.7	2.9	6.7	0.9	5	0.6	77	31	5
JPAC154	32	36	4	1329	289	725	57	182	23	4.4	12	1.4	6.3	1.1	2.4	0.2	1.7	0.2	25	24	2
JPAC154	36	40	4	2370	504	1214	116	368	45	8.5	25.1	3.1	14.4	2.4	5.7	0.6	3.2	0.4	59	17	3
JPAC154	40	44	4	1600	258	760	86	310	46	8.9	24.9	3.2	15.3	2.7	6.7	0.9	5	0.7	72	13	6
JPAC154	44	48	4	1345	274	641	72	241	31	6.1	16.6	2	9	1.5	3.6	0.5	2.8	0.3	43	15	3
JPAC154	48	52	4	955	251	459	46	139	16	3.9	7.9	1	4.6	0.8	1.9	0.3	1.8	0.2	22	17	2
JPAC154	52	56	4	979	265	458	46	140	16	4	9.2	1.1	5	0.9	2.6	0.4	2.5	0.4	29	24	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC154	56	60	4	1062	274	481	50	160	19	4.3	10.8	1.4	6.9	1.3	3.3	0.5	3.2	0.5	45	24	2
JPAC154	60	63	3	899	201	399	46	157	22	4.8	12.9	1.5	7.3	1.3	3.2	0.4	2.6	0.4	40	15	2
JPAC155	4	8	4	636	144	278	33	110	15	2.9	9.8	1.2	6	1	2.6	0.3	2.2	0.3	31	19	2
JPAC155	8	12	4	1922	430	889	104	337	46	9.3	25.4	2.8	13.3	2.2	4.6	0.6	2.9	0.4	56	20	1
JPAC155	12	16	4	1605	340	728	90	298	41	8	22.7	2.6	12.2	1.9	4.2	0.5	3	0.4	52	22	2
JPAC155	16	20	4	1843	411	787	99	357	47	10	28.7	3	14.1	2.5	5.8	0.7	4.1	0.6	74	25	3
JPAC155	20	24	4	2526	528	1104	133	485	66	13.6	38	4.1	19.1	3.5	8.4	1.1	6.1	1	116	29	4
JPAC155	24	28	4	4103	660	2008	206	838	119	23.9	64.5	6.5	28.8	4.6	10.5	1.4	8.6	1.1	123	29	3
JPAC155	28	32	4	2168	404	963	120	449	65	13.7	37.9	4	18.2	3	7	1	5.9	0.8	78	23	2
JPAC155	32	36	4	2623	343	915	124	546	97	22.9	83.2	10	54.9	10.7	27.5	4.2	27	4.2	354	17	3
JPAC155	36	40	4	1165	211	490	61	229	35	7.9	23.4	2.8	13.5	2.3	5.8	0.8	5	0.8	78	19	3
JPAC156	8	12	4	1920	496	932	90	285	33	6.9	17.6	2.1	9.5	1.5	3.5	0.4	2.5	0.4	41	26	2
JPAC156	16	20	4	2179	548	1071	105	311	34	6.8	20.5	2.4	11.8	2.2	4.8	0.6	3.2	0.3	58	25	1
JPAC156	20	24	4	2335	503	1113	126	408	44	9.1	25.3	2.9	14.4	2.5	6.2	0.8	4.3	0.5	75	26	2
JPAC156	24	28	4	1520	291	661	82	325	45	9.5	25.7	2.7	12.9	2.2	4.9	0.6	3.6	0.4	55	14	2
JPAC156	28	32	4	1355	306	632	63	217	30	6.8	19.1	2	10.4	1.9	4.8	0.7	4.3	0.6	57	19	3
JPAC156	32	36	4	1352	306	632	70	230	28	6.4	16.3	1.9	9.4	1.5	3.6	0.5	3.2	0.5	43	17	3
JPAC156	36	40	4	1648	373	744	81	278	35	7.7	21.3	2.5	12.1	2.3	5.9	0.9	5.9	0.9	79	18	2
JPAC156	40	44	4	1573	346	713	78	264	34	7	19.7	2.4	11.9	2.2	6.4	0.9	5.4	0.9	82	20	2
JPAC156	44	48	4	1236	300	578	61	195	25	4.7	13.7	1.6	7.7	1.3	3.5	0.5	3	0.4	42	26	2
JPAC157	8	12	4	747	184	366	34	108	14	2.4	7.8	0.9	4.4	0.8	2.1	0.3	1.3	0.2	21	33	1
JPAC157	12	16	4	707	152	408	27	79	10	2.1	5.5	0.7	3.4	0.7	1.5	0.2	1	0.1	17	48	1
JPAC157	16	20	4	763	200	410	32	88	9	1.9	4	0.5	2.8	0.5	1.3	0.2	1	0.1	12	46	1
JPAC157	20	24	4	1033	283	494	51	152	16	3.3	7	0.9	3.8	0.8	1.9	0.2	1.5	0.2	19	39	2
JPAC157	24	28	4	672	198	336	31	79	7	1.7	3.3	0.4	2.1	0.4	1	0.1	0.8	0.1	10	40	1
JPAC157	28	32	4	287	80	139	13	37	4	1.2	3	0.4	1.6	0.3	0.7	0.1	0.9	0.1	7	36	1
JPAC157	32	36	4	447	127	208	22	66	7	1.4	3.7	0.4	2	0.3	0.7	0.1	0.6	0.1	8	44	1
JPAC157	36	40	4	438	112	219	20	62	7	1.2	3.5	0.4	2.2	0.3	0.9	0.1	0.8	0.1	9	34	2
JPAC157	40	44	4	496	121	258	23	68	7	1.4	3.9	0.4	2.1	0.4	1	0.1	1	0.1	9	36	2
JPAC157	44	48	4	675	149	376	29	86	11	1.8	5.3	0.5	2.6	0.5	1.1	0.2	1.2	0.2	12	43	2
JPAC157	48	52	4	762	143	474	26	80	10	1.5	5.5	0.6	3	0.6	1.4	0.2	1.6	0.2	15	43	3
JPAC157	52	56	4	1079	242	620	42	121	15	2.5	7.6	0.9	4.4	0.7	1.8	0.3	1.5	0.3	21	40	4
JPAC157	56	60	4	811	198	430	37	107	12	2.1	5.5	0.6	3.1	0.5	1.2	0.2	1.3	0.2	14	31	2
JPAC157	60	64	4	712	182	344	36	106	13	2.2	6.3	0.7	3.4	0.6	1.5	0.2	1.7	0.2	15	36	2
JPAC157	64	68	4	1206	257	650	53	168	21	3.4	11.7	1.5	6.8	1.1	2.9	0.3	2.2	0.3	28	39	4
JPAC157	68	72	4	1007	258	454	50	157	21	3.2	12.8	1.6	8.2	1.2	3.1	0.4	2.3	0.2	34	33	3
JPAC157	72	76	4	722	194	340	34	103	13	2.5	6.8	0.8	3.9	0.7	1.7	0.2	1.6	0.2	19	22	2
JPAC157	76	80	4	805	201	382	40	124	15	3	8.1	1	4.8	0.8	2	0.3	2	0.2	21	24	2
JPAC157	80	84	4	698	192	290	39	121	15	2.9	8.1	0.8	4.5	0.8	2	0.2	1.9	0.2	21	28	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC157	84	88	4	854	229	359	45	145	18	3.6	10.8	1.2	6.4	1	2.6	0.3	2.6	0.4	29	31	2
JPAC157	88	90	2	487	145	166	30	94	12	2.5	7	0.8	4.3	0.7	1.8	0.3	1.8	0.3	21	28	2
JPAC158	36	40	4	387	131	174	17	45	5	1.3	3.1	0.3	1.6	0.3	0.6	0	0.4	0	7	17	2
JPAC158	40	44	4	191	56	83	10	28	4	0.7	1.9	0.2	1.4	0.2	0.5	0.1	0.4	0	5	19	4
JPAC158	44	48	4	452	142	193	25	66	8	1.6	3.7	0.4	2.2	0.4	0.8	0.1	0.8	0.1	9	21	6
JPAC158	48	52	4	418	131	181	22	59	7	1.4	3.5	0.4	2.1	0.4	0.8	0.1	0.8	0.1	10	20	2
JPAC158	52	56	4	549	134	259	30	90	11	2.2	5.3	0.6	2.9	0.5	1	0.1	1	0.1	12	18	3
JPAC158	56	60	4	629	125	340	27	91	12	2.5	6.4	0.7	3.5	0.6	1.4	0.2	1.5	0.2	18	17	2
JPAC158	60	64	4	620	139	312	27	88	12	2.9	7.7	0.9	4.8	0.8	2.2	0.3	2	0.3	22	19	2
JPAC158	64	68	4	428	105	205	19	56	7	1.9	5.2	0.5	3.1	0.6	1.7	0.2	1.7	0.2	22	18	2
JPAC158	68	73	5	518	143	255	23	64	7	1.6	4	0.4	2.3	0.4	1.1	0.1	1.1	0.2	15	23	2
JPAC159	20	24	4	1632	365	866	72	229	29	5.5	15.2	1.7	8.1	1.2	2.9	0.4	2.3	0.2	35	26	3
JPAC159	24	28	4	1452	276	691	77	276	42	8.2	21	2.3	9.8	1.6	3.6	0.4	2.9	0.4	41	21	3
JPAC159	28	32	4	1650	353	779	81	283	41	8.5	23.4	2.6	12.7	2.1	5.1	0.5	3.6	0.3	55	31	2
JPAC159	32	36	4	1634	283	755	83	309	47	10.2	29.5	3.3	16.7	2.8	6.7	0.8	4.6	0.5	84	14	3
JPAC159	36	40	4	1816	344	871	93	328	48	10.4	27.8	3	14.5	2.2	5.5	0.6	3.7	0.5	67	14	3
JPAC159	40	44	4	1696	323	782	87	314	47	10.1	28.6	3.1	15.3	2.5	6.3	0.8	5.5	0.8	72	12	3
JPAC159	44	48	4	1359	250	621	69	250	37	8.1	23	2.6	13.7	2.3	5.8	0.7	4.9	0.7	72	12	2
JPAC159	48	52	4	1298	278	615	64	221	30	6.7	16.7	1.8	9.2	1.6	3.6	0.4	3.2	0.4	48	19	2
JPAC159	52	54	2	1400	291	663	70	244	36	7.2	20.1	2.1	10	1.6	3.9	0.5	3	0.4	49	15	1
JPAC160	28	32	4	616	171	291	29	88	11	2.2	5.6	0.6	2.8	0.4	1.2	0.1	1.2	0.1	12	11	1
JPAC160	32	36	4	3696	806	1873	174	606	74	14.9	38.2	4.3	19.2	2.8	6.5	0.8	4.1	0.5	73	30	2
JPAC160	36	40	4	2116	502	990	101	350	39	7.6	22.3	2.4	12.8	2.2	5.8	0.8	5.3	0.6	76	24	2
JPAC160	40	44	4	1389	299	624	65	233	31	5.6	18.3	2.5	13.1	2.5	7.2	0.9	5.7	0.8	81	22	1
JPAC160	44	48	4	1125	195	464	57	218	33	6.5	22	2.9	17.7	3	8.5	1.1	7.4	1	89	6	1
JPAC160	48	52	4	1361	305	628	65	230	30	5.9	17	2.1	10.9	1.8	4.9	0.7	4.1	0.6	57	14	1
JPAC160	52	56	4	880	172	379	45	171	23	5	14.3	1.8	9.8	1.6	4.2	0.5	3.5	0.5	49	7	1
JPAC160	56	61	5	801	153	344	40	153	22	4.7	14.2	1.8	9.5	1.6	4.3	0.6	3.5	0.5	49	5	1
JPAC161	4	8	4	1321	313	597	64	220	29	5.8	17.1	2.1	10.3	1.7	4.5	0.6	3.3	0.4	52	28	4
JPAC161	8	12	4	1707	387	770	86	304	42	8.3	24	2.6	13.4	2	4.9	0.6	3.4	0.4	58	29	3
JPAC161	12	16	4	2135	477	923	111	394	53	11.1	31.1	3.5	16.5	2.7	7.7	1	5.8	0.8	97	31	2
JPAC161	16	20	4	1889	416	792	103	373	52	10.4	28.6	3.2	16.4	2.5	6.4	0.8	4.3	0.6	81	19	3
JPAC161	20	24	4	1794	346	775	96	356	52	11.2	33.2	3.9	18.3	3	7.8	0.9	5.1	0.7	86	11	3
JPAC161	24	28	4	1912	339	812	102	410	65	13.5	38.3	4.1	19	3.1	7.6	0.9	5.4	0.7	92	17	3
JPAC161	28	32	4	1813	330	775	92	370	57	12.4	36.1	4.1	19.3	3.1	8.4	1	6.4	0.9	99	15	4
JPAC161	32	36	4	1768	305	727	90	375	60	12.7	37.9	4.5	21.8	3.6	9.7	1.3	8.9	1.5	109	14	5
JPAC161	36	40	4	1652	307	716	82	316	49	10.9	32.7	3.7	18.4	3.2	7.9	1.1	6.3	1.1	98	21	3
JPAC161	40	44	4	1235	230	539	61	239	37	7.8	24.4	2.8	13.8	2.1	5.5	0.7	4.2	0.7	67	14	2
JPAC161	44	48	4	1030	201	449	52	200	31	6.2	19.6	2.2	10.7	1.7	3.9	0.5	2.8	0.4	50	11	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC161	48	50	2	917	182	409	47	174	25	5.3	15.3	1.8	8.6	1.3	3.3	0.4	2.7	0.4	41	11	2
JPAC162	12	16	4	398	229	90	16	40	4	0.9	3	0.4	2.4	0.4	1	0.1	1.4	0.2	10	25	4
JPAC162	16	20	4	1515	273	852	66	212	29	4.9	14.6	2	10.5	1.5	4.4	0.6	3.8	0.6	40	9	7
JPAC162	20	24	4	2503	558	960	121	457	68	14.5	54.2	7.3	40.3	6.8	18	2.3	14.9	2	178	9	7
JPAC162	24	28	4	537	126	182	22	77	10	2.6	10.4	1.5	10.1	2	6	0.9	5.5	0.9	82	28	2
JPAC162	28	32	4	483	122	236	22	66	8	1.3	4.9	0.6	2.8	0.5	1.5	0.2	1.1	0.1	16	30	2
JPAC162	32	36	4	604	157	282	28	89	12	1.4	6.6	0.8	4.1	0.6	1.5	0.2	1.5	0.2	20	26	2
JPAC163	16	20	4	540	260	78	38	109	12	2.3	8	1	5.2	0.8	1.9	0.2	1.3	0.2	22	22	1
JPAC163	20	24	4	4226	412	3365	73	237	31	6.1	17	2.3	11.5	2	5.9	0.8	4.4	0.5	58	32	1
JPAC163	24	28	4	3079	360	2309	67	218	29	5.4	15.8	2.1	10.9	1.8	5.2	0.7	4	0.4	50	39	1
JPAC163	28	32	4	1050	227	580	39	122	15	2.1	8.2	1	5.3	1	3.1	0.5	3.2	0.5	42	41	1
JPAC163	32	36	4	727	144	449	24	72	8	1.3	4.4	0.6	3.2	0.6	1.7	0.2	1.5	0.2	18	25	2
JPAC163	36	41	5	827	159	454	30	103	15	2.6	9.7	1.2	7	1.3	3.8	0.5	3.7	0.5	36	18	5
JPAC164	36	40	4	1238	249	666	52	171	24	5.3	15.2	1.8	8	1.6	3.1	0.4	2.3	0.3	38	18	2
JPAC164	40	44	4	1999	399	946	100	363	51	10.3	30.4	3.6	16.8	2.9	5.9	0.7	3.6	0.5	67	17	4
JPAC164	44	48	4	2017	446	907	108	375	53	10.6	30.9	3.4	15.4	2.4	5.2	0.5	3.4	0.4	56	14	4
JPAC164	48	52	4	680	157	313	31	102	14	3.7	8.2	1.1	5.2	1.2	3.1	0.4	2.9	0.5	37	22	1
JPAC164	52	56	4	1537	321	723	72	241	33	7.5	20.6	2.4	11.7	2.5	7.1	1	7	1.1	86	13	2
JPAC164	56	60	4	1468	289	647	71	254	35	8.2	21	2.5	13	2.8	8.5	1.3	9.4	1.4	104	11	2
JPAC164	60	64	4	1172	232	549	57	195	26	5.9	15.7	2	9.7	2	5.2	0.7	5.6	0.9	66	14	3
JPAC164	64	68	4	951	202	415	45	159	21	5.3	14	1.6	8.6	1.8	5.4	0.8	5.8	0.9	65	8	3
JPAC164	68	72	4	1644	348	745	76	269	38	8.5	24.8	2.9	13.9	2.9	7.6	1.1	7.1	1.1	98	13	2
JPAC164	72	75	3	522	112	223	25	93	13	3.7	8.6	1	5.3	1.1	2.7	0.3	2.3	0.3	31	6	1
JPAC165	32	36	4	1501	393	657	86	261	33	6.8	16.4	1.8	7.8	1.3	2.8	0.3	2.2	0.2	32	11	2
JPAC165	36	40	4	4627	1296	1922	228	716	98	21.7	66.9	8.2	38.2	7	15.2	1.8	10.1	1.3	197	13	2
JPAC165	40	44	4	2712	683	1124	127	435	64	14.8	47.3	5.8	27.3	5.1	11.6	1.4	8	1	157	23	4
JPAC165	44	48	4	2719	613	1240	133	466	66	13.5	37.4	4.3	19.5	3.6	8.3	1	6	0.8	106	27	4
JPAC165	48	52	4	985	191	413	47	174	29	6.7	20.4	2.7	13.3	2.6	6.3	0.8	5.2	0.7	73	15	3
JPAC165	52	56	4	1102	223	486	54	193	30	6.8	19.9	2.4	11	2.2	5.2	0.8	4.6	0.6	63	15	2
JPAC165	56	60	4	1081	218	468	54	196	30	7	20.1	2.4	11.2	2.1	5.1	0.7	4.4	0.6	62	14	3
JPAC165	60	64	4	981	202	447	49	174	25	5.9	15.6	1.8	8.6	1.5	3.7	0.5	3	0.4	44	13	2
JPAC165	64	67	3	1035	197	461	55	198	29	6.7	18.9	2.1	9.7	1.9	3.9	0.5	3.1	0.5	48	11	2
JPAC166	36	40	4	1970	273	1183	60	219	36	8.8	28.1	3.8	18.9	3.8	9.9	1.3	8.8	1.2	115	13	2
JPAC166	40	44	4	5649	1449	2088	306	1039	156	33.4	104.3	13	62.5	11.7	27.5	3.5	20.6	2.4	334	21	5
JPAC166	44	48	4	1170	229	516	59	213	32	6.9	20.9	2.5	11.5	2.2	5.6	0.7	4.5	0.6	67	19	4
JPAC166	48	52	4	1143	230	523	57	202	31	6.4	19	2.2	9.8	1.9	4.4	0.6	3.5	0.5	53	19	3
JPAC166	52	56	4	1048	221	481	51	183	26	6.1	16.4	1.8	8.2	1.6	3.8	0.5	2.9	0.4	45	18	3
JPAC166	56	60	4	1010	212	464	51	176	26	6.1	15	1.7	7.9	1.5	3.4	0.4	2.9	0.4	43	17	3
JPAC166	60	64	4	917	196	419	46	160	24	5.5	13.8	1.6	6.8	1.3	3.2	0.4	2.7	0.4	36	17	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC166	64	68	4	913	199	415	46	160	23	5.2	13.4	1.5	6.7	1.2	2.9	0.4	2.6	0.4	37	16	2
JPAC167	20	24	4	960	266	354	54	184	28	5.7	16.3	1.8	7.8	1.4	3.1	0.3	2.1	0.3	37	26	2
JPAC167	24	28	4	2335	507	1185	104	353	52	10.3	28.6	3.3	13.8	2.4	5.4	0.6	3.4	0.4	67	34	2
JPAC167	28	32	4	1763	382	834	83	288	43	8.8	25.1	2.8	12.9	2.3	5.3	0.7	4.4	0.5	71	31	3
JPAC167	32	36	4	2075	405	966	93	349	53	11.3	36.1	4.6	21.8	4.1	9.8	1.3	7.9	0.9	112	32	4
JPAC167	36	40	4	1318	258	619	61	226	33	7.1	21.9	2.8	13.7	2.5	5.4	0.7	4.2	0.5	64	39	4
JPAC167	40	46	6	1243	228	524	57	221	35	7.2	24	3.2	17.1	3.3	8.2	1.2	8.1	1.2	105	16	3
JPAC168	20	24	4	519	141	174	29	105	16	3	9.5	1.2	6.1	1	2.5	0.3	2	0.3	29	25	3
JPAC168	24	28	4	639	206	206	35	121	16	3.9	10.2	1.2	5.8	1	2.4	0.3	1.7	0.2	27	24	3
JPAC168	28	32	4	849	304	263	48	152	19	5.2	10.9	1.3	5.7	1	2.7	0.4	1.8	0.2	34	23	2
JPAC168	32	36	4	1414	385	528	78	265	35	8.1	21.9	2.6	12.1	2.1	5.5	0.6	4	0.5	66	20	3
JPAC168	36	40	4	1304	319	511	72	252	37	7.4	22.5	2.6	12.4	2	4.6	0.6	3.1	0.4	59	21	3
JPAC168	40	44	4	1831	430	808	92	314	43	9	25.4	3	13.9	2.5	6	0.8	4.9	0.6	78	20	3
JPAC168	44	48	4	1686	355	776	80	290	41	8.7	26.4	3.1	14.1	2.5	6	0.8	4.7	0.6	76	24	4
JPAC168	48	52	4	1503	270	791	63	236	34	7.9	21.7	2.6	11.7	2	4.8	0.6	3.4	0.4	55	24	4
JPAC168	52	56	4	2440	445	1065	121	479	70	15.3	47.8	5.8	28.4	5	12.3	1.5	8	1.1	135	21	4
JPAC168	56	60	4	2245	395	954	108	440	63	14.4	43.1	5.1	25.8	5.2	13.8	1.9	10.6	1.3	165	20	3
JPAC168	60	64	4	1489	300	639	71	271	40	9.3	27	3.3	16.1	3.1	8.3	1.2	8.6	1	92	19	2
JPAC168	64	69	5	1158	235	526	55	202	28	6.2	17.6	2	10.3	2	5.1	0.7	5.2	0.8	63	17	2
JPAC169	28	32	4	1568	477	635	81	265	32	6.3	18.4	2	8.4	1.4	3.2	0.4	2.3	0.3	35	21	2
JPAC169	32	36	4	1903	503	855	90	303	40	8.5	22.4	2.8	11.6	2.1	4.5	0.5	2.8	0.3	57	9	1
JPAC169	36	40	4	2296	578	1019	111	392	53	10.9	31.6	3.4	15	2.5	5.4	0.6	3.7	0.5	71	13	4
JPAC169	40	44	4	1410	278	588	73	280	41	8.8	26.6	3.1	15.2	2.7	7.1	0.9	5.9	0.8	79	8	2
JPAC169	44	48	4	1086	209	453	50	186	27	6.5	20.8	2.8	14.6	3	8.3	1.1	6.7	0.9	98	11	1
JPAC169	48	52	4	913	187	404	44	167	23	5.4	14.6	1.8	8.9	1.6	4.1	0.5	3.2	0.4	47	7	1
JPAC169	52	56	4	812	166	362	40	149	21	5.1	12.7	1.6	7.6	1.4	3.3	0.4	2.7	0.4	39	6	1
JPAC169	56	60	4	899	197	408	44	160	21	4.8	12.7	1.5	7.3	1.2	3.3	0.4	2.7	0.3	37	8	1
JPAC169	60	63	3	734	150	318	35	128	19	4.5	12.8	1.7	8.8	1.7	4.3	0.6	3.4	0.5	46	7	1
JPAC170	28	32	4	1146	385	332	76	246	31	5.6	18.9	2.4	11.4	1.7	3.3	0.3	1.8	0.2	32	24	2
JPAC170	32	36	4	2198	638	917	120	384	48	8.3	24.8	3	13.1	1.9	3.9	0.4	2.6	0.3	33	37	3
JPAC170	36	40	4	2193	449	1097	106	379	53	9.1	27.7	3.4	14.6	2.3	5	0.6	3.5	0.4	43	19	4
JPAC170	40	44	4	3343	625	1738	143	529	75	16.3	46.7	5.9	26.9	4.6	11.1	1.3	6.9	0.7	114	19	3
JPAC170	44	48	4	1361	222	650	59	225	34	7	24	3.2	16.6	3.2	9.1	1.2	8.3	1.1	99	27	6
JPAC170	48	53	5	1103	211	515	48	176	24	4.9	16.8	2.2	11.8	2.4	6.8	0.9	6.5	0.9	78	33	4
JPAC171	24	28	4	1177	418	295	76	253	34	7.2	19.7	2.2	10.4	1.9	4.4	0.5	3	0.4	53	28	2
JPAC171	28	32	4	1957	679	348	152	531	64	12.6	36.9	4	18.5	3.2	8.6	0.9	4.9	0.6	95	42	5
JPAC171	32	36	4	843	255	314	48	149	19	3.8	11.5	1.3	6.9	1.1	3.2	0.5	3.5	0.5	27	14	7
JPAC171	36	40	4	466	85	210	24	83	13	2.8	7.8	1.1	6	1.1	3.5	0.6	4.5	0.7	25	11	7
JPAC171	40	44	4	576	160	187	36	122	18	3.9	11.9	1.4	6.6	1	2.7	0.4	2.4	0.3	25	26	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC172	16	20	4	823	266	343	39	114	14	2.5	8.5	1.1	5.1	0.9	2.1	0.3	1.6	0.3	26	32	3
JPAC172	20	24	4	765	232	323	40	116	14	2.7	8.4	1.1	5	0.8	2	0.3	1.9	0.3	20	35	3
JPAC172	24	28	4	882	263	376	46	139	18	3.2	9.5	1.1	5.1	0.7	2	0.2	1.3	0.3	18	31	3
JPAC172	28	32	4	672	185	311	33	102	13	2.8	7	0.8	3.5	0.5	1.2	0.2	1.1	0.2	13	22	3
JPAC172	32	36	4	237	85	104	9	25	3	0.7	1.9	0.2	1.1	0.2	0.4	0.1	0.4	0.1	5	13	1
JPAC172	36	40	4	632	175	311	29	85	9	2.7	5.3	0.6	2.6	0.4	1.1	0.1	0.7	0.1	11	10	1
JPAC172	40	44	4	644	151	303	32	104	13	3.7	8.1	0.9	4.2	0.7	1.8	0.2	1.4	0.2	20	13	1
JPAC172	44	48	4	571	149	260	25	77	9	2.9	6.1	0.7	3.7	0.8	2.5	0.3	2.2	0.4	32	11	1
JPAC172	48	52	4	169	47	82	7	22	2	1.6	1.1	0.1	0.7	0.1	0.4	0.1	0.5	0.1	5	6	1
JPAC172	52	56	4	775	204	378	36	110	13	3.2	6.8	0.8	3.5	0.6	1.7	0.2	1.2	0.2	18	17	1
JPAC172	56	60	4	1008	237	470	49	166	21	4.5	12.1	1.4	6.9	1.1	3	0.3	2.1	0.4	33	17	1
JPAC172	60	63	3	813	167	370	41	145	19	4.8	13.1	1.6	7	1.2	3.7	0.4	2.8	0.4	38	12	1
JPAC173	16	20	4	639	211	258	32	94	12	1.9	6.8	0.8	3.7	0.6	1.6	0.1	1.1	0.2	17	32	2
JPAC173	20	24	4	229	71	93	12	36	5	0.9	2.5	0.3	1.7	0.3	0.7	0.1	0.8	0.1	6	37	3
JPAC173	24	28	4	94	21	42	4	15	2	0.5	1.3	0.2	1.1	0.2	0.6	0.1	0.8	0.1	6	45	4
JPAC173	28	32	4	549	168	214	27	86	12	2.4	7	0.8	4	0.8	2.1	0.2	1.3	0.2	24	32	3
JPAC173	32	36	4	2139	491	941	104	372	52	10	29.5	3.2	17.4	3.2	9.2	1.2	7.7	1	97	19	2
JPAC173	36	40	4	1290	343	521	63	213	29	6.2	16.7	2	11.2	2.1	6.1	0.8	5.5	0.8	72	29	2
JPAC173	40	44	4	936	240	391	47	163	24	4.7	12.9	1.5	7.6	1.3	3.3	0.4	2.4	0.4	37	17	2
JPAC173	44	48	4	1547	299	688	76	279	43	8.4	26.5	3.2	16.5	2.9	8.4	1	6	0.7	90	9	3
JPAC173	48	52	4	1436	278	596	70	260	46	7.9	28.8	3.6	19.5	3.4	9.3	1.1	7.2	0.9	105	10	3
JPAC173	52	56	4	1025	178	524	43	162	29	5	18.6	2.2	10.4	1.7	4.4	0.4	2.5	0.3	44	26	2
JPAC174	32	36	4	449	134	150	27	86	14	2.7	7.9	0.9	4.7	0.8	2	0.3	1.6	0.2	18	51	4
JPAC174	36	40	4	1006	269	276	61	244	39	7.8	24.6	2.7	14	2.3	5.1	0.6	3.2	0.3	56	19	2
JPAC174	40	44	4	462	76	222	18	71	13	2.4	10.5	1.2	6.7	1.2	3.3	0.4	2.3	0.3	35	51	1
JPAC174	44	48	4	1183	231	626	50	170	24	4.7	14	1.6	8.8	1.5	4.1	0.5	3.3	0.3	44	54	4
JPAC174	48	52	4	2337	452	1186	101	361	55	10	30.7	3.4	18.4	3	8.7	1	6.4	0.9	101	42	6
JPAC174	52	56	4	2643	557	1190	129	477	70	13	38.7	4.5	21.6	3.6	10.5	1.4	9.3	1.4	117	33	4
JPAC174	56	60	4	2203	473	942	112	406	60	11	34.9	3.9	20.5	3.8	10.3	1.3	8.6	1.2	116	39	4
JPAC174	60	64	4	1751	319	770	86	331	52	9.1	29.4	3.3	17.7	3.2	9.4	1.3	8.9	1.3	110	23	3
JPAC174	64	67	3	933	173	397	44	163	28	5	16.9	2.1	11.7	2.1	6.4	0.9	5.9	0.9	77	20	2
JPAC175	24	28	4	791	188	377	36	115	18	3.2	11	1.2	6.7	1.1	2.7	0.3	2.3	0.3	29	34	3
JPAC175	28	32	4	754	189	328	38	126	20	3.4	10.4	1.3	6.4	1	2.8	0.3	1.9	0.3	26	34	4
JPAC175	32	36	4	348	74	171	16	51	9	1.5	4.6	0.5	3.2	0.5	1.5	0.2	1.5	0.2	14	40	4
JPAC175	36	40	4	153	37	67	7	24	4	0.7	2.2	0.3	1.7	0.3	0.8	0.1	1.1	0.1	8	24	3
JPAC175	40	44	4	84	30	36	3	9	1	0.3	0.7	0.1	0.6	0.2	0.5	0.1	0.6	0.1	4	17	2
JPAC175	44	48	4	817	195	391	40	128	19	3.9	9.3	0.9	4.6	0.7	1.9	0.3	1.6	0.2	21	35	3
JPAC175	48	52	4	1016	229	480	50	170	26	5.4	12.6	1.3	7	1	2.7	0.3	2.1	0.2	29	35	4
JPAC175	52	56	4	877	211	422	40	134	19	4.5	9.6	1.1	4.9	0.8	2.3	0.3	1.9	0.3	26	23	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC175	56	60	4	1057	245	481	48	167	24	5.3	15.1	1.6	9.2	1.5	4.6	0.6	3.8	0.6	49	33	4
JPAC175	60	64	4	992	242	464	46	152	22	4.3	11.7	1.4	6.6	1.1	3.2	0.4	2.7	0.4	35	32	4
JPAC175	64	66	2	926	222	431	43	144	22	4.2	12.1	1.3	6.5	1	3	0.3	2.4	0.3	33	28	4
JPAC176	32	36	4	622	255	180	36	100	14	2.7	7.3	0.8	4.1	0.7	1.6	0.1	1.1	0.1	19	31	2
JPAC176	36	40	4	951	359	262	57	181	25	4.7	14.8	1.6	7.7	1.2	2.8	0.4	1.9	0.2	32	37	3
JPAC176	40	44	4	798	259	269	45	142	18	3.6	11.1	1.3	7.5	1.1	2.7	0.3	1.8	0.3	36	38	3
JPAC176	44	48	4	1455	457	505	87	280	34	6	17.9	2	10.1	1.7	4	0.5	2.9	0.3	48	43	4
JPAC176	48	52	4	2569	676	993	152	512	70	12.6	32.4	3.9	18.5	2.9	7.7	1.1	7.1	0.9	81	34	5
JPAC176	52	56	4	2591	535	1226	121	441	61	11.6	37.2	4.2	21.6	3.8	9.7	1.2	8.1	1	110	36	4
JPAC176	56	58	2	921	201	414	40	139	20	3.9	12.3	1.5	7.9	1.6	5.1	0.8	5.6	1	68	30	4
JPAC177	24	28	4	674	216	242	34	112	17	3.6	10.6	1.2	6.3	1	2.3	0.3	2	0.3	26	17	3
JPAC177	28	32	4	838	208	302	46	167	24	5.2	15.6	1.9	9.5	1.5	4.1	0.5	2.8	0.4	49	13	4
JPAC177	32	36	4	1101	235	550	47	161	23	4.8	14.9	1.8	9.3	1.6	4	0.5	3	0.4	46	31	8
JPAC177	36	40	4	1479	270	895	48	159	24	5.2	13.7	1.7	8.9	1.5	3.9	0.6	3.5	0.5	45	39	6
JPAC177	40	44	4	1351	224	867	39	124	19	3.9	11.6	1.4	7.6	1.5	4.2	0.6	3.6	0.5	44	40	5
JPAC177	44	48	4	1181	235	698	36	118	16	3.3	10.1	1.2	6.6	1.4	3.6	0.6	4	0.6	47	73	7
JPAC177	48	52	4	1166	257	608	45	146	20	4.1	12.2	1.5	8.2	1.5	4.7	0.7	4.1	0.6	54	45	6
JPAC177	52	56	4	1511	435	480	92	332	47	9.1	24.9	2.8	13.8	2.4	6	0.9	6	0.9	58	45	4
JPAC177	56	60	4	2095	367	937	99	395	63	12.9	41	4.7	24.6	4.2	11.7	1.6	10.7	1.4	121	25	5
JPAC177	60	64	4	1586	266	602	82	332	58	11.3	36.4	4.3	23	4.2	12.1	1.8	12.9	2.2	139	21	6
JPAC177	64	68	4	1225	212	515	61	234	41	8.2	24.4	3	14.6	2.7	7.4	1.1	7.3	1.2	94	20	6
JPAC177	68	72	4	1318	227	535	66	261	48	9.8	31.6	3.7	18.3	2.9	8	1	6.8	0.9	98	22	5
JPAC177	72	76	4	1212	215	501	61	239	43	8.9	27.3	3.3	15.8	2.6	6.6	1	5.8	0.8	81	23	5
JPAC178	20	24	4	1160	345	451	65	217	28	5.3	13.3	1.3	6.6	0.9	2.3	0.3	1.8	0.2	22	24	1
JPAC178	24	28	4	425	145	149	22	67	9	1.9	5.3	0.6	3.2	0.5	1.3	0.2	1.5	0.2	19	29	2
JPAC178	28	32	4	518	155	223	22	68	9	2	5.6	0.8	3.9	0.6	1.9	0.2	1.7	0.2	24	37	2
JPAC178	32	36	4	554	160	227	28	88	11	2.4	6.5	0.7	4.1	0.7	1.9	0.2	1.8	0.2	22	37	2
JPAC178	36	40	4	603	202	226	31	96	11	2.4	6.4	0.8	3.9	0.6	1.5	0.2	1.6	0.2	20	36	2
JPAC178	40	44	4	589	188	246	29	88	11	2.2	5.3	0.6	3.2	0.5	1.1	0.2	1.1	0.2	15	32	2
JPAC178	44	48	4	708	238	269	37	115	14	2.5	6.7	0.7	3.9	0.6	1.5	0.2	1.3	0.2	18	35	3
JPAC178	48	52	4	1230	353	539	65	196	24	4.3	10.7	1.2	6.3	0.9	2.1	0.3	2.2	0.2	24	34	3
JPAC178	52	56	4	2824	528	1566	113	393	54	9.5	28.4	3.5	17.6	3	8	1.2	7.9	1.2	92	30	3
JPAC178	56	59	3	1125	216	581	45	161	21	4.1	13.6	1.6	9.2	1.8	5	0.8	5.2	0.7	59	23	3
JPAC179	20	24	4	604	164	292	28	87	11	2	5.1	0.6	2.4	0.5	1.1	0.1	0.8	0.1	11	22	2
JPAC179	24	28	4	1561	367	801	69	227	29	5.9	13.8	1.6	7.1	1.1	3	0.4	2	0.3	33	24	1
JPAC179	28	32	4	2447	510	1265	110	365	47	9.4	25.5	2.8	14	2.3	6.1	0.8	4.9	0.7	84	26	2
JPAC179	32	36	4	2196	436	1207	97	319	42	8.7	21.5	2.4	10.9	1.7	3.8	0.4	2.2	0.3	43	28	3
JPAC179	36	40	4	2071	422	1087	95	323	41	8.6	22.2	2.5	11.1	1.8	4.6	0.5	2.7	0.3	49	27	4
JPAC179	40	44	4	1946	406	1045	87	287	37	7.4	18.7	2	8.9	1.4	3.1	0.4	2.4	0.3	41	27	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC179	44	48	4	1881	399	963	89	293	40	8.4	21	2.3	10.5	1.6	4.2	0.5	2.5	0.3	47	24	2
JPAC179	48	52	4	2136	434	1124	97	331	44	9.1	23.3	2.6	11.5	1.8	4.4	0.5	3.4	0.4	50	23	2
JPAC179	52	56	4	2172	426	1114	99	345	48	9.9	26.6	2.9	13.9	2.5	6.2	0.8	4.8	0.7	73	21	2
JPAC179	56	60	4	1834	386	844	89	305	40	9.5	25.8	2.9	14.3	2.7	8	1.1	6.9	1.2	99	20	2
JPAC179	60	64	4	1518	325	711	73	248	33	7.5	19.7	2.2	10.5	1.9	5.4	0.7	4.6	0.8	75	17	2
JPAC179	64	68	4	1194	270	575	57	189	25	5.6	14.8	1.6	7.4	1.3	3.3	0.4	2.5	0.4	42	14	2
JPAC179	68	71	3	1138	264	548	55	179	24	5.4	13.4	1.4	6.7	1.1	3	0.4	2.4	0.3	36	13	2
JPAC180	32	36	4	1681	468	774	79	244	31	6.7	16.3	1.8	8.5	1.5	3.6	0.5	2.4	0.3	45	33	2
JPAC180	36	40	4	1826	419	868	89	297	38	8.3	22.4	2.5	11.7	2	5.1	0.7	3.8	0.4	58	29	4
JPAC180	40	44	4	1749	339	947	75	239	32	6.5	18.3	2	10.5	1.9	5.6	0.7	4.3	0.6	68	23	6
JPAC180	44	48	4	4949	672	3045	183	647	92	19.9	55.5	6.7	30.5	5.3	14	1.7	10.2	1.3	164	21	12
JPAC180	48	52	4	2454	426	1455	93	310	42	9	22.8	2.7	12.8	2.1	5.9	0.8	4.6	0.6	68	22	7
JPAC180	52	56	4	1505	341	814	60	187	22	5.1	12.7	1.4	7.8	1.4	3.9	0.5	3.6	0.5	45	25	5
JPAC180	56	60	4	1081	274	530	49	147	17	3.8	9.3	1	5.3	1.1	3.1	0.4	2.4	0.4	36	24	5
JPAC180	60	65	5	951	240	461	44	135	17	3.5	9.2	1	5.1	0.9	2.6	0.3	1.9	0.3	30	21	7
JPAC181	32	36	4	620	273	91	51	153	18	3.5	7.4	0.8	3.3	0.6	1.4	0.2	1.2	0.2	16	13	2
JPAC181	36	40	4	671	255	168	49	148	17	3.5	8.3	0.8	3.5	0.6	1.4	0.2	1.2	0.2	16	21	3
JPAC181	40	44	4	683	223	225	43	138	16	3.1	8.8	1	4	0.7	1.6	0.2	1.4	0.2	18	37	4
JPAC181	44	48	4	891	255	360	52	162	19	3.4	9.3	1.1	5.3	0.8	1.8	0.3	1.6	0.2	21	32	4
JPAC181	48	52	4	1247	274	624	62	204	25	5	11.8	1.3	6.2	1	2.5	0.4	2.4	0.4	28	16	3
JPAC181	52	56	4	1077	280	449	61	202	25	4.2	12.5	1.4	6.9	1	2.4	0.3	2	0.3	28	36	3
JPAC181	56	60	4	887	238	387	44	145	17	3	10.3	1.3	5.6	0.9	2.6	0.3	2.1	0.3	30	31	3
JPAC181	60	64	4	423	105	204	20	66	8	1.6	3.9	0.4	1.9	0.3	0.9	0.1	0.9	0.1	11	18	2
JPAC182	24	28	4	356	144	82	21	65	9	2	6.1	0.6	3.4	0.6	1.6	0.2	1.1	0.1	19	39	2
JPAC182	28	32	4	1017	350	284	63	206	30	5.3	17.2	1.9	10.2	1.5	3.9	0.4	2.2	0.3	43	29	3
JPAC182	32	36	4	2795	888	849	186	600	80	14.5	37.8	4.3	21	3.3	8.2	1.1	5.8	0.7	97	18	5
JPAC182	36	40	4	2713	900	734	182	616	84	14.9	44.2	4.9	21.8	3.5	7.6	1.1	5.8	0.7	94	28	6
JPAC182	40	44	4	1454	486	419	95	316	43	7.9	22	2.4	10.6	1.6	3.9	0.5	3.1	0.4	44	38	5
JPAC182	44	48	4	1222	312	451	76	260	36	6.5	18.3	2	8.9	1.5	3.6	0.5	3.2	0.4	43	37	4
JPAC182	48	52	4	979	236	298	66	243	36	6.9	18.8	2.3	11.2	1.9	4.7	0.7	5	0.7	49	13	6
JPAC182	52	56	4	1471	298	632	73	273	39	7.9	24.7	3	14.5	2.8	7.4	1.1	6.5	1	88	29	5
JPAC182	56	59	3	1215	267	571	56	187	25	4.8	14.8	1.7	8.6	1.8	4.8	0.7	4.7	0.7	68	36	5
JPAC183	20	24	4	289	121	77	16	46	6	1.2	4.3	0.5	2.3	0.4	0.9	0.1	0.9	0.1	12	56	4
JPAC183	24	28	4	359	140	84	20	65	10	2.2	6.8	0.8	4.4	0.8	1.7	0.3	1.5	0.2	23	70	5
JPAC183	28	32	4	290	116	83	17	46	7	1.7	4.2	0.5	2.2	0.4	1.1	0.1	1	0.1	12	47	4
JPAC183	32	36	4	1044	362	334	60	188	25	5.3	13.8	1.7	7.6	1.3	3.1	0.4	2.4	0.3	39	50	3
JPAC183	36	40	4	882	252	381	43	134	18	3.7	10.4	1.2	5.4	1	2	0.3	1.7	0.2	29	57	5
JPAC183	40	44	4	1080	276	538	49	147	20	3.9	10.5	1.1	5.7	0.9	2	0.3	1.6	0.2	26	68	7
JPAC183	44	48	4	1249	328	593	61	185	25	4.8	12.6	1.4	6.1	1	2.3	0.3	1.9	0.2	27	66	7

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC183	48	52	4	1431	387	626	78	240	31	5.7	15.3	1.7	7.4	1.2	2.8	0.4	2.4	0.3	32	62	5
JPAC183	52	56	4	3133	796	1443	153	512	67	13	35.1	4	17.6	2.9	6.9	0.9	6.6	0.9	75	52	6
JPAC183	56	60	4	3556	428	2241	115	438	71	15.2	45.9	6.1	29.8	5.2	12.6	1.8	11.7	1.5	133	11	5
JPAC184	8	12	4	2597	481	1486	101	332	51	7.9	30.1	3.8	17.6	3.1	6.6	0.9	4.9	0.5	72	31	3
JPAC184	12	16	4	3635	657	1885	152	545	88	14	56.6	7	33.3	5.9	14.6	1.9	10	0.9	166	42	5
JPAC184	16	20	4	3468	717	1750	163	536	75	10.9	40.4	4.8	23.8	4.1	10.3	1.4	8	0.9	123	40	7
JPAC184	20	24	4	3076	562	1572	147	519	82	12.2	44	5.3	24.1	3.7	8.6	1.1	6.3	0.7	89	40	9
JPAC184	24	28	4	2806	501	1265	131	505	88	14.6	61.3	7.6	35.8	6.1	13.7	1.7	8.8	0.9	166	36	7
JPAC184	28	32	4	1528	287	766	72	257	42	6.4	23.9	3	13.9	2.1	4.8	0.6	3.4	0.4	46	40	6
JPAC184	32	36	4	2730	572	1424	123	402	61	8.9	34.2	4.2	18.4	2.7	6.1	0.7	3.5	0.3	69	36	8
JPAC184	36	40	4	1749	378	907	83	266	39	5.6	18.9	2.3	9.5	1.4	3.2	0.4	2.7	0.3	32	58	13
JPAC184	40	44	4	1876	434	707	115	417	67	10	35.3	4.1	18.5	2.7	5.6	0.7	4	0.4	54	29	7
JPAC184	44	48	4	558	126	307	22	68	8	1.4	4.7	0.6	2.7	0.5	1.4	0.2	1.4	0.2	14	55	5
JPAC184	48	52	4	681	208	200	46	148	24	3.3	12	1.6	7.2	1.1	2.5	0.4	1.9	0.3	25	20	6
JPAC184	52	56	4	1023	219	507	48	159	25	3.9	13.4	1.7	8.4	1.3	2.9	0.4	2.2	0.3	30	34	5
JPAC184	56	60	4	1785	307	926	71	247	39	6.9	24.1	3.1	16.6	3.3	8.8	1.3	7.7	1.1	122	32	5
JPAC184	60	63	3	1167	225	521	57	210	35	6.6	20.9	2.4	11.1	2	5.3	0.7	4.2	0.5	66	33	5
JPAC185	12	16	4	953	258	424	48	156	21	3.7	10.8	1.2	5.4	0.9	2.1	0.3	1.6	0.2	21	74	2
JPAC185	16	20	4	1079	300	467	54	178	25	4.2	12.6	1.4	6.6	1.1	2.4	0.3	1.7	0.2	27	41	1
JPAC185	20	24	4	723	219	281	40	124	17	3	8.8	1.1	4.8	0.7	1.8	0.2	1.2	0.1	20	36	1
JPAC185	24	28	4	857	242	339	47	152	20	3.5	11.6	1.3	6.1	1	2.4	0.3	1.6	0.2	29	37	1
JPAC185	28	32	4	723	207	292	40	121	15	3	8.6	1	4.9	0.8	2	0.2	1.5	0.2	26	34	2
JPAC185	32	36	4	1147	179	558	43	181	37	7.8	26.5	3.3	15	2.6	6.9	0.9	5.6	0.8	80	25	3
JPAC185	36	40	4	1151	233	566	51	178	28	5.5	16.9	2	10.1	1.7	4.3	0.5	3.3	0.4	50	37	3
JPAC185	40	44	4	1200	266	561	59	194	27	5	16.3	1.8	8.9	1.5	4	0.6	3.8	0.5	51	38	3
JPAC186	12	16	4	1056	184	553	48	173	28	5.9	16.1	1.9	8.3	1.2	3	0.4	2.3	0.3	31	20	3
JPAC186	16	20	4	1808	287	1072	79	266	40	7.5	19.1	2.1	8.4	1.1	2.2	0.3	1.7	0.2	22	27	5
JPAC186	20	24	4	1875	299	911	97	382	64	12.4	35.2	3.8	15.8	2.2	4.4	0.5	2.7	0.4	45	35	14
JPAC186	24	28	4	1178	212	506	63	241	41	8.9	26.3	3	13.6	2	4.7	0.5	3.6	0.4	53	24	14
JPAC186	28	32	4	1763	228	560	73	296	58	14.5	56.3	7.9	44.1	9.3	27.4	4	27.6	4	353	20	9
JPAC186	32	35	3	1017	178	416	53	199	34	7.6	23.5	2.8	13.3	2.3	6	0.8	4.6	0.7	76	31	7
JPAC187	24	28	4	748	174	377	34	106	14	3.1	8.3	1	4.6	0.8	1.8	0.3	1.7	0.2	21	49	3
JPAC187	28	32	4	1011	237	519	45	142	19	4	10.7	1.3	5.7	1	2.4	0.2	1.9	0.2	22	27	2
JPAC187	32	36	4	656	165	321	32	94	12	2.2	6.2	0.7	3.7	0.6	1.5	0.2	1.5	0.3	16	36	3
JPAC187	36	40	4	1374	265	690	75	237	30	6.1	14.9	1.8	8	1.2	3.3	0.4	3	0.3	39	32	5
JPAC187	40	44	4	1667	328	799	87	283	38	8.2	23.1	2.7	12.7	2.1	5.8	0.8	5.5	0.7	69	26	4
JPAC187	44	47	3	1224	270	573	61	203	27	5.5	16.4	1.9	9	1.5	4.3	0.5	3.1	0.4	48	27	4
JPAC188	16	20	4	368	137	113	21	61	8	1.7	4.6	0.6	2.8	0.5	1.3	0.2	1.5	0.2	15	31	3
JPAC188	20	24	4	576	211	176	35	107	12	2.8	7.3	0.8	4	0.6	1.6	0.2	1.4	0.2	17	38	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC188	24	28	4	1292	373	580	66	192	23	5.2	13.5	1.5	6.6	0.9	2.1	0.3	1.5	0.2	26	39	2
JPAC188	28	32	4	1385	283	753	61	194	26	5.9	14.9	1.6	7.5	1.2	2.8	0.3	2.3	0.3	34	31	3
JPAC188	32	36	4	1429	264	682	73	259	38	8.1	23.5	2.7	12.4	2.1	4.9	0.6	3.3	0.4	57	30	4
JPAC188	36	40	4	1371	266	556	76	293	51	11.3	31.7	3.6	15.8	2.3	5.3	0.6	3.4	0.5	54	25	6
JPAC188	40	44	4	2025	386	851	109	420	75	17.3	48.9	5.7	23.9	3.4	7.7	0.9	5.7	0.7	71	26	7
JPAC188	44	48	4	1394	298	570	85	292	47	9.4	26.2	2.8	12.5	1.8	4	0.5	3.6	0.5	42	30	5
JPAC188	48	52	4	1914	380	748	115	422	69	15.7	45	5	21.8	3.2	6.8	0.8	4.5	0.6	77	29	5
JPAC188	52	56	4	2007	327	873	108	412	73	15.9	48.1	5.6	25	4	8.7	1.1	6.9	1	99	25	5
JPAC188	56	60	4	1365	221	578	72	262	41	9.6	30.4	3.6	17.4	3	7.8	1.1	7.4	1.1	110	18	4
JPAC188	60	64	4	1216	199	515	66	237	38	8.6	26.5	3.2	15	2.6	6.9	0.9	5.8	0.9	93	17	4
JPAC188	64	70	6	992	167	425	55	197	34	6.7	21	2.4	11.4	1.9	5	0.7	4	0.6	62	14	2
JPAC189	8	12	4	1096	220	517	56	191	30	6.1	18.5	2	9.2	1.4	3.1	0.4	2	0.3	40	21	2
JPAC189	12	16	4	1942	323	948	101	377	55	11.6	32.4	3.7	16.1	2.4	5.2	0.6	3	0.4	64	27	2
JPAC189	16	20	4	1411	227	642	73	302	43	8.8	27.1	3	14.1	2	4.6	0.5	2.7	0.3	60	29	2
JPAC189	20	24	4	1128	198	449	57	217	35	7.1	23.5	3.1	15.8	2.8	7.6	1.1	4.9	0.7	106	38	3
JPAC189	24	28	4	1527	246	655	78	296	47	9.4	29.7	3.5	18.8	3.5	9.8	1.5	8.1	1	120	28	7
JPAC189	28	32	4	1347	216	571	72	300	49	10.3	27.9	3	14.1	2.1	6	0.9	5.7	0.9	69	20	8
JPAC189	32	34	2	1790	195	490	70	308	71	19	78.3	10.6	59.7	11.1	31.7	5.3	30.6	4.8	406	17	9
JPAC190	0	4	4	288	62	111	12	45	8	1.7	6	0.9	5.1	0.9	2.5	0.4	2.5	0.4	31	21	2
JPAC190	12	16	4	864	200	395	40	138	19	4.2	11.9	1.5	6.9	1.1	3	0.5	2.4	0.4	41	20	2
JPAC190	16	20	4	2715	577	1418	112	377	48	10.8	28	3.1	14.5	2.7	7.8	1.2	6.8	0.9	108	35	2
JPAC190	20	24	4	3640	455	2376	117	424	58	12.2	32.9	3.7	17.8	3.1	8.9	1.3	8.4	1.1	120	22	2
JPAC190	24	28	4	1631	238	930	62	233	35	9.2	22.6	2.7	12.3	2.2	5.8	0.8	4.4	0.5	74	22	3
JPAC190	28	32	4	2178	359	1041	108	405	66	13.8	40.6	4.7	21.5	3.3	8	0.9	5.3	0.6	102	22	7
JPAC190	32	36	4	1933	325	817	100	387	66	14.8	45	5.2	25	3.9	9.9	1.5	8.4	1.1	125	20	6
JPAC190	36	40	4	2105	341	975	101	391	65	14.1	40.8	5.1	23.2	3.9	10.5	1.6	8.9	1.3	123	22	5
JPAC190	40	44	4	1526	259	630	75	295	50	11.4	33.6	4.2	20.1	3.7	9.9	1.6	9.7	1.5	121	22	5
JPAC190	44	48	4	1309	222	529	68	258	42	9.5	30.1	3.6	18	3.1	8.2	1.1	6.7	1	111	14	3
JPAC190	48	52	4	964	173	408	50	188	30	6.4	19.3	2.4	11.7	1.8	4.9	0.7	4.2	0.6	64	11	4
JPAC190	52	56	4	931	171	388	49	185	30	6.3	20	2.4	11	1.8	4.4	0.7	3.4	0.5	58	11	4
JPAC190	56	60	4	941	175	397	49	190	29	6.1	19.9	2.3	10.3	1.7	4.3	0.6	3	0.4	54	10	3
JPAC191	16	20	4	1731	244	1094	55	202	32	6.6	20.4	2.4	11.3	1.8	4.7	0.6	3.7	0.5	52	32	2
JPAC191	20	24	4	1398	266	742	61	214	32	6.2	19	2.2	9.6	1.5	2.9	0.4	2	0.2	39	19	2
JPAC191	24	28	4	1246	210	490	61	243	41	9.2	32.3	3.8	19.6	3.3	9.1	1.3	7.5	1	114	16	3
JPAC191	28	32	4	1080	189	437	54	210	37	7.7	25.4	3.1	15.6	2.6	6.6	0.9	5.4	0.7	85	19	3
JPAC191	32	36	4	1136	204	468	58	225	38	8.6	25.6	3.1	15.1	2.3	6.2	0.9	4.7	0.7	77	18	3
JPAC191	36	40	4	1153	208	474	60	228	40	8.2	27.3	3.1	14.9	2.3	6.3	0.7	4.5	0.6	76	16	3
JPAC191	40	44	4	1069	191	440	56	212	37	7.6	25.4	3	14.1	2.3	5.9	0.8	4.3	0.7	70	15	3
JPAC191	44	47	3	1172	211	476	60	232	40	8.4	28	3.3	15	2.6	6.3	0.9	5.4	0.7	82	16	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC192	44	48	4	623	179	281	31	93	10	2.2	4.6	0.5	2.7	0.4	1.2	0.2	1.2	0.1	16	40	2
JPAC192	48	52	4	1566	173	1149	42	142	18	3.5	7.9	0.9	4	0.7	1.9	0.3	2.1	0.3	20	42	2
JPAC192	52	56	4	946	227	354	60	222	25	5.2	10.7	1.1	5.6	0.9	2.7	0.4	3.2	0.5	29	53	2
JPAC192	56	60	4	606	149	232	37	132	16	3.6	7.2	0.8	3.7	0.6	1.9	0.3	2.1	0.3	21	20	2
JPAC192	60	64	4	547	128	199	30	110	14	4.2	8.6	1.1	5.4	1	3.1	0.5	3.7	0.6	38	15	2
JPAC192	64	68	4	494	97	212	25	93	14	3.3	8.6	1	4.9	0.9	2.3	0.4	2.6	0.4	31	15	3
JPAC192	68	72	4	983	173	415	55	205	31	6.1	19.1	2.1	10.8	1.8	4.4	0.7	3.9	0.5	55	18	4
JPAC192	72	76	4	1536	352	721	78	262	34	6.9	19.3	2	8.3	1.4	3.7	0.5	3.3	0.5	44	34	3
JPAC193	32	36	4	604	134	265	33	114	15	3.6	9	1.1	5.3	0.9	2.1	0.4	2.7	0.3	18	4	3
JPAC193	36	40	4	623	75	343	28	108	18	3.9	10	1.3	6.6	1.2	2.8	0.5	3.3	0.4	23	5	3
JPAC193	40	44	4	1467	171	647	83	338	63	14.2	35.6	4.6	21.8	3.5	8.4	1.2	7.4	1.1	68	5	3
JPAC194	44	48	4	2659	213	1535	87	381	81	22.1	67.2	9.4	47.8	8.2	19.5	2.7	15.7	1.9	167	3	2
JPAC195	20	24	4	1485	229	775	65	244	42	9.6	29.6	3.6	17.3	2.5	5.3	0.6	3.2	0.4	59	18	2
JPAC195	24	28	4	1665	286	857	78	273	43	8.3	26.2	3.1	13.8	2.4	5.2	0.6	3.6	0.5	65	20	3
JPAC195	28	32	4	1523	279	717	76	271	43	8.7	25.7	3.1	15	2.5	5.9	0.8	4.5	0.6	71	26	3
JPAC195	32	36	4	1803	311	844	86	317	51	10.2	32.1	3.9	19.2	3.5	9.1	1.3	8.8	1.1	107	26	3
JPAC195	36	40	4	1694	283	797	82	302	50	8.9	31	3.8	18.9	3.1	8.8	1.1	7.7	0.9	97	25	3
JPAC195	40	44	4	955	183	458	46	161	26	4.4	15.9	1.8	8.4	1.6	3.7	0.5	3.1	0.4	42	38	4
JPAC195	44	49	5	1315	265	631	56	191	28	6.7	20.6	2.6	14.1	2.6	7.1	1.1	7.5	1.2	81	52	3
JPAC196	16	20	4	658	160	244	36	126	22	4.4	13.6	1.6	7.5	1.3	3.2	0.4	2.1	0.3	38	25	2
JPAC196	20	24	4	1757	343	830	87	310	49	9.5	30.7	3.4	15.2	2.4	5.4	0.7	3.9	0.5	66	21	2
JPAC196	24	28	4	1745	286	927	76	275	48	9.8	30.2	3.5	15.1	2.5	5.4	0.6	3.2	0.3	63	15	3
JPAC196	28	32	4	1861	369	885	97	336	53	10.4	32.1	3.6	15	2.3	4.5	0.5	3	0.4	50	21	4
JPAC196	32	36	4	2234	426	1035	117	437	70	13.5	39.2	4.6	20	2.9	5.7	0.6	3.8	0.6	58	23	4
JPAC196	36	40	4	1858	348	901	91	329	55	10.7	30.7	3.6	16.5	2.8	6.3	0.8	4.8	0.6	58	34	4
JPAC196	40	44	4	1055	184	451	50	195	35	8.7	25.9	3.3	16.4	2.8	7.1	0.9	6	0.8	70	13	3
JPAC196	44	48	4	1243	244	459	52	187	34	9.1	30.6	4.2	23.4	5.1	13.7	2	13.5	2.1	165	22	4
JPAC197	4	8	4	589	134	240	30	107	17	3.5	11.3	1.3	6.5	1.2	2.9	0.4	2.5	0.4	32	25	2
JPAC197	8	12	4	672	150	282	32	116	18	4.1	13	1.5	7	1.3	3.2	0.4	2.7	0.3	40	25	2
JPAC197	12	17	5	2362	422	1197	120	423	59	12.3	33.3	3.5	14.9	2.4	5.4	0.7	4.4	0.6	63	22	4
JPAC198	8	12	4	878	172	404	47	167	25	4.9	14.2	1.6	7.5	1.1	2.6	0.4	2.3	0.4	27	17	2
JPAC198	12	16	4	1196	181	470	64	269	44	9.7	29.4	3.5	16.9	3.1	7.3	1.1	7.5	1	89	16	4
JPAC198	16	20	4	962	160	371	47	184	34	7.7	26.4	3.2	15.7	2.8	7.5	1	6	0.9	95	15	3
JPAC198	20	24	4	863	152	362	44	168	29	6.4	19.9	2.2	10.4	1.8	4.6	0.6	3.9	0.5	57	15	2
JPAC198	24	28	4	907	162	378	47	178	32	6.8	20.8	2.4	11.5	2	4.7	0.6	4.2	0.5	57	15	2
JPAC198	28	32	4	891	161	371	47	175	30	6.9	20	2.5	11	1.8	4.7	0.6	3.8	0.6	56	14	2
JPAC198	32	36	4	943	167	392	50	187	32	7.3	21.3	2.6	12	2	4.8	0.6	3.9	0.6	61	15	2
JPAC199	8	12	4	676	153	276	34	119	20	4.3	13.5	1.7	7.5	1.4	3.3	0.4	2.5	0.4	39	22	2
JPAC199	12	16	4	1599	300	686	77	289	48	11.3	35.1	4.2	20.2	3.7	8.5	1	6.3	0.7	107	26	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC199	16	20	4	1713	320	727	80	279	44	9.6	33.6	4.5	25.7	5.5	14.7	1.9	9.9	0.9	157	21	2
JPAC199	20	24	4	1584	284	704	87	308	43	8.4	24.4	2.8	15.3	2.6	8	0.9	5.5	0.6	91	19	2
JPAC199	24	28	4	2034	361	906	111	421	63	13.5	37.8	4.2	20.7	2.8	6.7	0.8	4.7	0.5	80	37	4
JPAC199	28	32	4	1882	323	787	102	405	66	13.5	40.9	4.7	22.3	3.3	7.5	1	5.9	0.8	99	36	4
JPAC199	32	36	4	1640	260	653	78	319	59	13.1	37.2	4.4	23.1	4	11.9	2	14.5	2.1	159	29	7
JPAC199	36	40	4	1649	234	573	70	276	52	13	52.7	7	39.8	7.3	20.1	3	19.9	2.9	278	25	6
JPAC199	40	44	4	1208	213	501	59	217	36	7.8	25.7	3.2	16.4	2.7	7.6	1.1	7	1.1	109	27	5
JPAC199	44	48	4	1123	209	474	57	212	34	7.7	23.3	2.6	13.8	2.4	6.1	0.8	5.4	0.6	73	24	6
JPAC199	48	54	6	1194	222	506	61	227	38	8.3	24.3	3	15.2	2.4	5.9	0.8	5.1	0.7	76	27	7
JPAC200	12	16	4	414	143	175	20	54	6	1.5	2.9	0.4	1.9	0.3	0.5	0.1	0.7	0.1	8	15	1
JPAC200	16	20	4	690	253	268	35	97	11	2.2	5.2	0.6	2.9	0.4	1	0.1	0.8	0.1	14	21	1
JPAC200	20	24	4	308	127	101	16	43	6	1	3.2	0.3	1.8	0.3	0.7	0.1	0.6	0.1	9	34	2
JPAC200	24	28	4	392	149	155	19	50	5	1.4	2.5	0.3	1.4	0.3	0.7	0.1	0.6	0.1	8	41	2
JPAC200	28	32	4	316	121	111	17	48	5	1.5	2.8	0.3	1.7	0.2	0.5	0	0.6	0.1	7	25	1
JPAC200	32	36	4	487	140	231	24	67	8	2.2	3.2	0.3	1.7	0.3	0.9	0.1	1	0.1	9	18	2
JPAC200	36	40	4	778	188	389	38	118	13	3	5.7	0.6	3.1	0.5	1.4	0.2	1.5	0.1	15	29	3
JPAC200	40	43	3	1016	190	597	38	120	17	4.6	8.4	1	5.4	0.8	2.4	0.4	2.5	0.3	28	23	3
JPAC201	20	24	4	696	244	251	37	109	11	2.4	7.4	0.9	4.8	0.7	1.9	0.3	1.4	0.2	25	18	1
JPAC201	24	28	4	554	162	184	33	118	16	3.8	8.6	1	4.5	0.7	1.7	0.2	1.3	0.1	19	20	1
JPAC201	28	32	4	785	239	302	42	135	17	3.9	8.3	1.1	5	0.8	1.9	0.2	1.4	0.1	27	54	1
JPAC201	32	36	4	799	232	296	44	159	22	5.1	11.7	1.3	5.4	0.9	1.9	0.2	1.2	0.1	19	37	1
JPAC201	36	40	4	1055	240	441	56	198	31	6.2	18.1	2.2	9.8	1.8	3.5	0.5	2.4	0.3	45	15	2
JPAC201	40	44	4	2400	432	1167	106	379	57	11.1	36.9	4.5	24.2	4.5	11.8	1.5	8.1	0.9	157	20	4
JPAC201	44	48	4	2173	414	991	110	378	58	9.4	33.2	4.2	23.2	3.9	11	1.4	7.8	0.8	128	22	8
JPAC201	48	52	4	2193	491	916	127	426	62	9.9	33.8	4.4	21.7	3.2	7.6	0.9	5.3	0.7	84	26	7
JPAC201	52	56	4	858	187	363	46	153	24	3.6	13.9	1.8	9.3	1.6	4.1	0.5	2.2	0.3	48	37	3
JPAC201	56	60	4	1058	223	431	56	192	32	4.9	20.7	2.6	13.6	2.2	5.4	0.7	3.6	0.4	69	34	5
JPAC201	60	64	4	1032	260	442	51	164	26	4.1	16.4	2	9.6	1.7	4.2	0.5	2.8	0.4	47	44	3
JPAC201	64	68	4	763	201	328	39	122	17	3	11.1	1.3	6.7	1	2.4	0.3	1.6	0.1	30	36	3
JPAC201	68	72	4	445	108	203	21	67	10	2.2	5.6	0.7	3.9	0.7	1.9	0.2	1.2	0.2	21	19	2
JPAC201	72	76	4	1317	319	593	62	203	29	4.8	18.4	2.2	12.6	2.2	5.1	0.6	3.3	0.4	61	40	3
JPAC201	76	80	4	2107	401	1072	93	321	54	7.7	27.8	3.7	17.8	3.3	7.9	1	5.5	0.6	92	35	4
JPAC201	80	84	4	1876	258	1102	69	253	42	6.6	22.7	3	14.5	2.8	6.9	1.1	6.2	0.7	88	18	3
JPAC201	84	89	5	504	87	196	18	68	13	3.2	10.8	1.4	8.9	2.1	6.1	0.8	5.8	0.8	82	11	1
JPAC202	16	20	4	501	168	205	25	69	8	1.3	4.3	0.5	2.6	0.5	0.9	0.2	1	0.2	15	25	2
JPAC202	20	24	4	477	147	193	25	73	9	1.8	5.6	0.6	3.4	0.5	1.2	0.2	0.9	0.2	16	34	3
JPAC202	24	28	4	1192	401	416	68	210	28	4.8	14.9	1.5	7.8	1.2	2.8	0.3	2.3	0.4	34	45	5
JPAC202	28	32	4	915	250	366	50	169	23	4.7	11.7	1.4	6.6	0.9	2.5	0.3	2.6	0.4	26	49	5
JPAC202	32	36	4	338	89	134	17	57	8	1.8	5.4	0.7	3.2	0.5	1.4	0.2	1.3	0.2	17	58	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC202	36	40	4	295	108	108	15	45	6	1.1	2.6	0.3	1.6	0.3	0.5	0.1	0.4	0.1	6	21	1
JPAC202	40	44	4	920	251	373	56	170	23	4.4	10.8	1.4	5.4	0.9	2	0.3	1.8	0.2	20	33	2
JPAC202	44	48	4	762	191	325	42	132	19	3.6	10.9	1.4	6.3	1	2.4	0.3	1.8	0.3	26	28	4
JPAC202	48	52	4	1152	228	635	48	152	20	4.2	12.5	1.5	7.2	1.2	3.4	0.4	2.9	0.4	37	33	5
JPAC202	52	56	4	786	173	406	34	106	16	3.1	8.8	1	5	0.9	2.3	0.3	2.1	0.4	28	25	3
JPAC202	56	60	4	710	140	389	28	93	12	2.5	8	0.8	4.2	0.8	2.2	0.4	2.1	0.3	27	20	4
JPAC202	60	64	4	1567	283	896	64	214	29	5.6	14.5	1.6	7.7	1.4	3.7	0.5	4.1	0.5	42	38	6
JPAC202	64	68	4	1613	297	825	78	266	38	6.7	20	2.2	11.4	1.9	4.8	0.8	5.2	0.9	56	39	4
JPAC202	68	72	4	1516	318	680	65	230	32	6.6	24.3	2.8	15.6	3	8.7	1.3	8.7	1.5	119	36	5
JPAC202	72	76	4	1139	264	516	53	170	22	4.5	15.1	1.6	9.2	1.6	4.9	0.7	4.2	0.6	74	37	3
JPAC202	76	80	4	1325	300	612	68	217	28	5.7	17.4	1.8	9.4	1.5	4	0.6	3.4	0.6	58	30	4
JPAC202	80	84	4	1210	293	558	62	198	24	5.1	13.8	1.5	7	1.3	3.3	0.4	2.3	0.3	41	35	4
JPAC202	84	87	3	1551	355	734	80	255	32	6.9	18.4	2	8.9	1.4	3.7	0.5	2.8	0.5	50	33	3
JPAC203	36	40	4	565	123	298	23	74	11	2.3	6.7	0.9	4	0.7	1.8	0.3	1.5	0.1	18	29	4
JPAC203	40	44	4	2058	426	1054	96	296	45	9.3	27.1	2.9	15	2.3	6	0.7	3.6	0.6	75	32	5
JPAC203	44	48	4	2845	486	1265	149	541	91	20	62.4	7.4	33.9	5.5	11.8	1.6	8	1.2	161	35	6
JPAC203	48	52	4	2197	407	991	113	385	63	13.5	42.3	5	24.6	4.2	10	1.3	7	0.8	130	44	6
JPAC203	52	56	4	1914	332	845	99	349	58	13.1	43	5.1	24.1	4.1	10.2	1.2	6.6	1	124	25	5
JPAC203	56	60	4	1474	283	656	75	257	43	9.5	30.1	3.8	16.2	2.7	6.8	0.9	5	0.7	87	22	4
JPAC203	60	64	4	1030	207	433	49	167	29	6.1	20.3	2.5	12.1	2.3	5.9	0.8	5.3	0.8	89	20	4
JPAC203	64	68	4	1107	209	467	56	201	34	6.9	23.1	2.5	12.9	2.3	6	0.9	5	0.7	82	22	4
JPAC203	68	71	3	1211	222	519	65	229	38	7.6	26.5	2.9	13.7	2.4	5.7	0.7	3.9	0.6	74	19	3
JPAC204	44	48	4	726	81	485	22	76	13	3.4	8	1.2	6.1	1	2.5	0.4	2.3	0.3	24	4	5
JPAC204	48	52	4	855	118	415	33	127	24	6.8	19.9	2.8	15.2	2.9	7.5	1	6.4	1	76	4	4
JPAC205	36	40	4	778	257	297	43	125	17	4.3	8.9	1	4.9	0.8	1.8	0.2	1.6	0.2	17	30	3
JPAC205	40	44	4	1112	299	527	58	156	22	4.5	10.9	1.3	5.4	0.8	2.1	0.3	1.9	0.3	23	36	5
JPAC205	44	48	4	1166	205	594	54	178	30	6.5	19.7	2.5	11.7	1.8	4.9	0.7	3.8	0.5	53	30	10
JPAC205	48	52	4	1597	325	815	76	231	35	7.5	22	2.6	12.9	2.1	5.3	0.8	5.1	0.6	56	31	9
JPAC205	52	56	4	1181	225	518	62	212	36	8.1	25	3.2	14.9	2.7	5.7	0.8	4.7	0.7	63	44	5
JPAC205	56	60	4	2053	348	912	110	398	68	13.4	41.2	4.7	22.6	3.8	9.4	1.2	6.8	1.2	113	31	7
JPAC205	60	64	4	1978	353	835	109	395	67	14.6	41.7	5	22.2	3.9	9.3	1.2	7.6	1	113	37	7
JPAC205	64	68	4	1914	325	750	98	358	62	13.1	44.7	5.7	28.2	5.3	15	2.1	11.6	1.5	194	32	6
JPAC205	68	72	4	1831	319	738	94	335	56	11.8	40	4.7	24.8	4.5	12.2	1.8	10.3	1.5	178	33	6
JPAC205	72	76	4	1497	269	612	73	279	51	10.9	34.2	4.4	21.5	3.7	11.1	1.5	7.9	1.1	118	30	5
JPAC205	76	80	4	1593	299	643	77	292	51	11.3	38.7	4.4	23.4	3.9	11.1	1.5	8.2	1.4	127	36	5
JPAC205	80	84	4	1263	243	523	62	236	41	8.7	26.1	3.1	15.7	2.7	7.5	1.1	5.6	0.8	87	25	5
JPAC206	40	44	4	638	189	268	30	96	14	2.9	8.3	1	4.1	0.8	1.9	0.3	1.7	0.2	21	23	3
JPAC206	44	48	4	2114	493	1060	97	316	44	8.8	23.2	2.7	12	1.7	4.3	0.6	3.2	0.4	48	35	6
JPAC206	48	52	4	2540	493	1234	130	458	71	14.1	36.1	4.2	18.5	2.7	6.5	0.8	4.7	0.7	66	23	8

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC206	52	56	4	1844	339	860	92	337	57	10.9	31	3.9	17.8	2.8	7.3	0.9	5.7	0.9	79	19	6
JPAC206	56	60	4	1395	232	554	69	267	44	9.8	32.1	4	21.9	3.9	11.2	1.5	9.4	1.4	135	16	4
JPAC206	60	64	4	1117	249	489	54	188	28	6.2	18.6	2.2	10.3	1.8	4.4	0.7	4	0.5	61	22	3
JPAC206	64	68	4	1011	208	445	52	186	27	5.9	16.8	2.1	10	1.7	4.4	0.7	3.2	0.5	49	19	3
JPAC206	68	72	4	1062	198	456	54	202	32	7.7	21.3	2.7	12.7	2	5.8	0.7	4.3	0.6	63	14	3
JPAC207	24	28	4	434	90	228	15	52	9	1.8	5.8	0.8	3.7	0.8	2	0.2	1.5	0.2	23	34	2
JPAC207	28	32	4	657	156	318	28	88	12	2.9	8.3	1	5.3	0.8	3	0.4	2.5	0.3	31	53	4
JPAC207	32	36	4	1714	398	906	73	227	29	5.8	14.4	2.1	9.1	1.4	3.7	0.5	2.7	0.3	41	43	5
JPAC207	36	40	4	1800	448	893	81	257	33	6.5	16.8	2.1	10	1.6	4	0.5	3	0.4	44	28	5
JPAC207	40	44	4	2324	576	989	113	399	57	12.2	35.6	4.5	23.2	3.4	9.2	1.1	6.1	0.7	96	13	6
JPAC207	44	48	4	1701	409	707	81	295	43	9.6	30.3	3.7	18.9	2.9	8.1	1	5.6	0.7	85	21	6
JPAC207	48	52	4	1501	361	614	72	267	39	8.7	26.6	3.4	17.1	2.7	7.2	0.8	5.1	0.6	76	14	5
JPAC207	52	56	4	1342	286	551	68	260	38	8.4	25.5	3.2	15.3	2.4	6.6	0.9	4.7	0.6	72	16	5
JPAC207	56	60	4	971	191	383	44	163	26	6.1	19.6	2.6	13.8	2.6	8.1	1.1	6.4	0.9	103	12	4
JPAC207	60	64	4	986	189	406	48	183	30	6.2	19.6	2.6	13.2	2.2	6.7	0.8	4.6	0.8	73	14	3
JPAC207	64	68	4	1605	375	715	72	254	39	7.4	22.8	3	14.9	2.6	7.3	1.1	6	0.8	84	31	4
JPAC207	68	73	5	1727	384	820	77	271	38	7.8	23.6	2.8	14.6	2.4	6.9	0.9	5.2	0.8	73	27	5
JPAC208	24	28	4	1090	265	562	46	136	19	3.8	11.3	1.5	7	1.2	3	0.3	1.7	0.3	32	12	1
JPAC208	28	32	4	1131	377	335	69	220	29	5.7	17.2	2	9.6	1.6	4.3	0.6	3.1	0.4	57	37	2
JPAC208	32	36	4	483	143	209	25	76	9	2	4.5	0.5	2.3	0.3	1	0.1	0.8	0.1	10	18	1
JPAC208	36	40	4	886	225	392	43	144	17	3.4	10.8	1.2	6.3	1	3.1	0.5	2.6	0.4	36	36	2
JPAC209	24	28	4	661	196	305	26	73	10	2.6	8.5	1.4	7.1	1	3.1	0.3	1.9	0.3	27	37	2
JPAC209	28	32	4	1704	630	501	103	311	38	7.7	22.8	2.4	10.8	1.8	4.7	0.5	2.1	0.4	69	37	2
JPAC209	32	36	4	206	87	56	12	31	5	1	2.3	0.3	1.7	0.3	0.9	0.1	0.8	0.1	9	40	2
JPAC209	36	40	4	851	214	435	41	116	14	2.7	7.2	0.8	3.5	0.6	1.5	0.2	1.1	0.2	15	40	4
JPAC209	40	44	4	1907	251	1326	58	186	24	5	13.6	1.5	6.8	1.1	2.6	0.3	1.6	0.2	29	31	3
JPAC209	44	48	4	1519	182	1060	41	141	20	4.4	14.1	1.7	8.2	1.5	3.1	0.5	2.8	0.4	39	39	3
JPAC209	48	52	4	1275	153	903	34	114	17	2.9	10	1.2	5.7	1	2.3	0.4	2	0.3	30	36	3
JPAC209	52	56	4	1712	235	1174	50	160	22	4	13.2	1.4	7.3	1.3	3.3	0.4	2.4	0.4	38	47	3
JPAC209	56	60	4	2809	489	1731	105	323	42	8.2	20.8	2.4	11	2	4.8	0.7	4.5	0.6	64	57	4
JPAC209	60	64	4	4071	699	2167	200	675	92	17.4	43.6	4.9	24.2	4.3	10.5	1.4	8.9	1.1	122	50	5
JPAC209	64	68	4	3763	734	1437	234	894	131	24.3	67.7	7.4	35.1	5.6	14.9	2	12.1	1.5	163	36	4
JPAC209	68	72	4	2027	430	653	109	417	63	14.2	48.5	5.7	31.1	5.9	16.8	2.3	15.3	2.3	213	36	3
JPAC209	72	76	4	1637	355	637	79	261	39	8.3	30.7	3.7	20	4.1	11.6	1.6	9.5	1.5	175	45	3
JPAC209	76	82	6	1169	267	517	56	184	26	5.2	16.1	1.8	9.7	1.8	5.4	0.7	4.1	0.6	74	39	3
JPAC210	16	20	4	540	152	191	31	102	15	3.4	9.3	1.1	5.3	0.8	2.1	0.3	1.4	0.3	25	40	2
JPAC210	20	24	4	344	104	114	20	65	10	2.2	6.6	0.8	3.6	0.6	1.5	0.2	1	0.2	15	41	2
JPAC210	44	48	4	1256	168	823	41	145	19	4.2	11.3	1.4	6.6	1	2.8	0.3	2.5	0.4	30	33	4
JPAC210	48	52	4	885	194	495	36	108	14	3.5	8.3	0.8	3.9	0.7	1.7	0.2	1.4	0.2	19	37	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC210	52	56	4	676	134	392	28	82	10	2.5	6.2	0.7	2.9	0.5	1.5	0.2	1.2	0.3	15	32	3
JPAC210	56	60	4	2212	339	1339	86	292	43	10.4	23.4	2.5	12.1	1.9	4.9	0.7	4.8	0.6	54	21	2
JPAC210	60	64	4	1202	324	357	71	250	36	9.1	25.8	3.1	15.6	2.8	6.9	0.9	6.5	0.9	93	21	2
JPAC210	64	68	4	535	108	248	25	82	12	3	7.4	0.9	4.7	1	3	0.5	2.8	0.4	37	17	2
JPAC210	68	72	4	1159	237	517	58	202	29	7.6	18.3	2.3	11.7	2	5.5	0.8	4.6	0.6	62	19	3
JPAC210	72	76	4	714	187	329	34	103	14	4.3	9.1	0.9	4.2	0.7	1.7	0.3	1.7	0.2	23	20	2
JPAC210	76	80	4	841	187	453	35	109	14	4.5	8.3	0.9	4	0.6	1.8	0.2	1.4	0.2	22	25	2
JPAC210	80	84	4	563	145	274	26	80	9	3.3	5.8	0.6	2.8	0.5	1.1	0.1	1	0.1	14	24	1
JPAC210	84	88	4	505	121	253	23	70	9	2.7	5.4	0.6	2.2	0.4	1.3	0.1	1	0.2	15	24	2
JPAC211	8	12	4	979	307	293	63	205	27	6.6	18.4	1.9	8.7	1.4	3.6	0.4	1.7	0.2	40	28	2
JPAC211	12	16	4	1755	433	691	100	332	52	11.8	31.8	3.4	15.7	2.5	5.7	0.6	3.1	0.4	72	37	2
JPAC211	16	20	4	2798	575	1424	139	440	63	12.8	34.9	3.9	18.4	2.6	6.4	0.6	3.2	0.5	75	40	3
JPAC211	20	24	4	2395	469	1061	133	450	66	15	41.4	4.5	22.5	3.8	9.3	1.1	5.8	0.7	112	37	3
JPAC211	24	28	4	1521	299	662	83	289	48	9.6	27.2	3.3	14.8	2.4	6	0.7	4.2	0.6	72	32	3
JPAC211	28	32	4	1770	339	840	90	304	48	10.1	28.8	3.2	14.9	2.4	6.2	0.7	5.4	1	78	32	4
JPAC211	32	36	4	2065	320	797	106	430	82	18.1	56	6.7	34.7	6	17.1	2	12.6	1.7	175	24	3
JPAC211	36	40	4	1252	225	502	62	220	37	9.5	29.4	3.6	18.7	3.3	9.3	1.3	10	1.4	120	20	4
JPAC211	40	42	2	1011	191	431	51	183	31	6.9	20.5	2.4	12.1	2	5.2	0.7	5.1	0.7	69	17	3
JPAC212	4	8	4	626	135	311	30	91	13	2.7	8	0.9	4.6	0.9	2.4	0.3	2.2	0.3	25	19	3
JPAC213	4	8	4	381	97	161	17	52	8	1.5	5	0.7	4	0.9	2.4	0.3	2.2	0.3	30	20	1
JPAC213	8	12	4	807	162	383	39	134	21	4	12.7	1.6	7.1	1.2	3.3	0.4	2.1	0.3	36	18	1
JPAC213	12	16	4	661	147	292	29	100	17	3.3	14	1.7	8.3	1.5	3.7	0.5	2.8	0.3	40	22	1
JPAC214	8	12	4	481	123	204	25	71	10	1.9	7.1	0.9	4.5	0.9	2.3	0.3	1.7	0.2	29	20	2
JPAC214	12	16	4	377	86	189	17	49	8	1.7	5.1	0.6	3	0.6	1.3	0.2	1.1	0.1	15	24	1
JPAC214	16	20	4	292	75	116	14	45	7	1.9	6.2	0.8	3.5	0.7	1.8	0.2	1.1	0.1	19	10	1
JPAC214	20	24	4	178	47	95	7	20	2	1.1	1.3	0.2	0.7	0.1	0.4	0.1	0.5	0.1	4	10	1
JPAC214	24	28	4	5380	544	3205	234	923	152	27.7	81.9	8.8	36.2	5.7	13.6	1.8	10.6	1.5	135	24	5
JPAC214	28	32	4	2359	272	1194	113	433	74	13.2	46.4	5.7	26.7	5	13.1	1.9	11.6	1.7	150	24	7
JPAC214	32	36	4	1476	189	659	72	262	43	8.2	31.8	4.1	21.2	4.3	12.4	1.7	11.1	1.7	153	25	6
JPAC214	36	41	5	1219	222	515	62	228	39	6.1	26.9	3.3	15	2.8	7.3	0.9	5.5	0.8	85	32	5
JPAC215	8	12	4	1124	249	503	62	200	27	5.3	16.5	1.9	8.4	1.5	3.6	0.5	2.6	0.4	43	24	3
JPAC215	12	16	4	1931	396	916	110	347	48	8.7	25.6	2.8	12.9	2	4.8	0.7	3.3	0.5	53	30	2
JPAC215	16	20	4	2128	391	993	125	424	60	11.5	32.7	3.8	16.1	2.5	5.4	0.7	3.5	0.5	59	33	3
JPAC215	20	24	4	1798	303	818	100	344	54	10.9	35.5	4.1	19.2	3.4	7.9	1	5.3	0.7	92	32	3
JPAC215	24	28	4	2146	317	953	112	413	69	14.2	47.3	5.9	28.2	5.3	13.2	1.7	8.7	1.1	157	32	3
JPAC215	28	32	4	2331	413	1041	124	443	67	13.9	43.8	5.3	24	4.4	11	1.5	8.6	1.1	130	24	4
JPAC215	32	36	4	2096	384	948	110	365	57	11.7	35.6	4.3	21.1	3.9	10.7	1.4	8	1.2	135	26	4
JPAC215	36	40	4	1548	303	678	90	296	44	9.3	26.2	3.2	14.6	2.6	6.2	0.8	5	0.7	70	28	4
JPAC215	40	44	4	1544	276	740	82	279	42	8.4	25.3	2.9	13.4	2.3	5.8	0.8	4.7	0.7	62	25	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC215	44	48	4	1329	155	721	61	234	41	8.1	23.6	2.8	12.8	2.2	5.7	0.8	4.7	0.7	56	25	5
JPAC215	48	52	4	2040	283	860	106	435	80	16.2	52.5	6.2	28.7	5.2	12.9	1.8	10.6	1.7	142	15	4
JPAC215	52	56	4	1097	168	451	56	208	36	7.7	27.2	3.3	14.9	3	8.8	1.2	7	1.2	106	14	3
JPAC215	56	60	4	861	141	381	43	160	26	5.4	17.6	2	9.8	1.9	5.1	0.7	4.1	0.6	63	11	2
JPAC215	60	64	4	887	157	398	47	163	27	5.6	16.9	2	9.3	1.7	4.5	0.6	3.6	0.5	51	13	3
JPAC215	64	66	2	857	142	386	45	160	27	5.4	17.6	2	9.8	1.7	4.9	0.6	3.7	0.5	52	11	3
JPAC216	16	20	4	351	110	116	21	67	9	1.7	4.8	0.7	3	0.5	1.4	0.2	1.1	0.2	14	46	2
JPAC216	20	24	4	785	220	306	45	146	20	3.9	11	1.2	5.1	0.9	2.1	0.3	1.4	0.2	23	28	2
JPAC216	24	28	4	1734	438	759	89	296	43	8.1	23.1	2.7	12	2	4.8	0.5	2.9	0.4	53	24	2
JPAC216	28	32	4	1802	441	801	89	290	43	8.3	25.4	3	13.8	2.5	6.1	0.8	4.5	0.6	73	18	3
JPAC216	32	36	4	2117	511	1011	101	316	44	9	24.9	3	13.8	2.3	5.7	0.8	4.2	0.5	71	17	4
JPAC216	36	40	4	2155	499	1006	109	351	50	10.2	28.9	3.3	15.3	2.5	6.3	0.7	4	0.5	69	14	5
JPAC216	40	44	4	1936	425	819	108	365	51	10.3	30.4	3.7	17.9	3.1	7.9	1	6	0.8	88	24	4
JPAC216	44	48	4	4756	596	3070	151	528	81	17.2	56.4	7.3	37.3	6.7	17.5	2.2	13.2	1.4	172	30	7
JPAC216	48	52	4	2508	435	1418	104	331	46	9.1	26.9	3.5	17.4	3.4	8.5	1.1	6.6	0.8	97	22	6
JPAC216	52	56	4	1179	256	535	57	182	27	5.3	16.8	2.1	11.1	2.1	5.9	0.8	5.1	0.7	73	36	5
JPAC216	56	60	4	1013	203	456	54	179	28	5.3	16.7	2.1	10	1.8	4.4	0.6	3.5	0.5	50	29	5
JPAC216	60	64	4	799	162	329	45	153	24	4.7	15.7	2	9	1.6	4	0.5	3	0.4	45	36	5
JPAC216	64	68	4	834	181	323	47	161	28	5.2	17.8	2.2	10.2	1.7	4.4	0.6	3.2	0.5	50	30	5
JPAC216	68	72	4	689	145	332	32	108	17	3.6	11.6	1.4	5.9	1	2.5	0.3	1.7	0.2	27	27	4
JPAC216	72	76	4	545	161	223	28	83	11	3.2	6.8	0.8	3.9	0.7	1.7	0.2	1.4	0.2	20	34	2
JPAC216	76	80	4	930	181	526	37	117	17	3.7	10.3	1.2	5.6	1	2.2	0.3	1.9	0.3	26	47	4
JPAC216	80	84	4	2324	250	1609	71	246	39	7.9	22.5	2.7	12.1	2.1	5.3	0.7	4.1	0.6	53	28	5
JPAC216	84	88	4	793	142	432	35	115	16	4.6	9.2	1.1	5.3	0.9	2.4	0.4	2.2	0.4	27	35	3
JPAC216	88	92	4	478	88	188	25	100	16	5.2	10.7	1.4	6	1.2	3.1	0.4	2.6	0.3	30	12	2
JPAC216	92	96	4	793	152	351	41	142	22	4.8	14.8	1.7	7.9	1.4	3.8	0.5	3.2	0.5	46	13	3
JPAC216	96	99	3	895	172	402	45	160	26	5.3	16.3	2	9.1	1.6	4	0.5	3.2	0.5	48	16	2
JPAC217	12	16	4	594	181	228	35	107	13	2.5	6.8	0.8	3.5	0.6	1.3	0.2	1.1	0.2	14	30	2
JPAC217	16	20	4	988	306	333	64	204	24	4.6	12	1.4	5.8	1	2.3	0.3	1.9	0.3	28	33	2
JPAC217	20	24	4	991	304	408	55	160	18	3.6	8.8	1	4.2	0.8	2	0.3	1.6	0.2	25	43	2
JPAC217	24	28	4	1040	278	494	50	146	17	4	10.4	1.2	5.5	1	2.5	0.3	1.4	0.2	29	42	3
JPAC217	28	32	4	1216	304	570	61	186	24	5	13.9	1.5	8	1.3	3.1	0.4	1.9	0.3	37	33	4
JPAC217	32	36	4	1184	279	609	53	159	21	4.3	11.4	1.3	6.5	1.2	2.8	0.4	1.9	0.3	34	37	3
JPAC217	36	40	4	1810	406	899	87	276	37	7.9	21.4	2.2	11.3	1.8	4.3	0.5	2.6	0.3	53	30	5
JPAC217	40	44	4	1323	404	500	79	233	28	6.1	15.7	1.7	8.3	1.4	3.2	0.4	2.3	0.3	41	40	3
JPAC217	44	48	4	1795	503	544	126	428	52	11.3	28.6	2.9	14.6	2.6	6.3	0.8	4.7	0.7	70	49	3
JPAC217	48	52	4	3265	391	2210	107	365	46	9.7	24.2	2.7	13.1	2.5	6.9	1	6.3	1	80	33	6
JPAC217	52	57	5	1184	266	566	60	190	25	5.4	13.8	1.5	8	1.4	3.4	0.5	2.5	0.4	41	23	5
JPAC218	8	12	4	809	134	330	38	140	24	5.8	20.2	2.6	14.2	2.7	6.9	0.9	4.9	0.7	84	20	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC218	12	17	5	875	160	388	46	164	26	5.7	16.9	2	10.1	1.8	4.3	0.6	3.3	0.5	48	22	3
JPAC219	8	12	4	881	172	422	44	142	22	4.3	13.9	1.6	8.4	1.5	3.6	0.5	2.4	0.4	42	21	2
JPAC219	12	16	4	1868	367	911	97	312	45	8.6	27.2	3	15	2.6	6.1	0.8	3.8	0.5	69	26	2
JPAC219	16	20	4	1448	265	663	83	275	41	8.4	24.7	2.8	14.1	2.2	5.4	0.7	3.6	0.5	60	25	3
JPAC219	20	24	4	1206	172	473	68	273	46	9.8	28.1	3.3	16.9	3	8.3	1.3	8.1	1.4	94	16	4
JPAC219	24	28	4	1673	226	575	81	347	70	16.7	57.9	7.2	37.8	6.8	18.5	2.5	16.1	2.3	208	20	5
JPAC219	28	32	4	1330	204	510	62	229	43	10.3	36.2	4.5	26.5	5.1	14.2	2.2	14.2	2.3	169	24	5
JPAC219	32	35	3	912	152	350	42	147	25	5.7	20.9	2.7	16.2	3.4	9.9	1.6	10.4	1.7	124	30	5
JPAC220	8	12	4	573	140	233	30	102	15	3.5	9.7	1.1	5.6	1	2.4	0.3	1.6	0.3	28	24	2
JPAC220	12	16	4	1495	311	647	81	289	45	10	28.4	3	14.5	2.3	4.9	0.5	2.4	0.3	56	35	3
JPAC220	16	20	4	1635	396	651	99	324	48	10.3	28.2	2.9	13.5	2.1	4.3	0.5	2.1	0.3	53	30	2
JPAC220	20	24	4	1981	454	835	120	392	55	11.4	29.9	3.2	14.5	2.1	4.7	0.5	2.7	0.3	56	27	3
JPAC220	24	28	4	2153	449	907	131	447	63	13.3	35.6	3.8	18.4	2.7	6.1	0.7	3.6	0.5	72	26	4
JPAC220	28	32	4	1558	324	690	93	301	44	8.8	23.5	2.6	12.1	2	4.8	0.5	2.9	0.4	49	32	4
JPAC220	32	36	4	2093	413	849	128	442	66	14	40.5	4.6	22.3	3.7	8.3	1	5.6	0.8	96	28	5
JPAC220	36	40	4	2023	318	915	113	408	65	13.7	41.5	4.7	23.1	3.6	8.5	1	4.8	0.6	103	26	5
JPAC220	40	44	4	1661	262	743	88	304	48	10.5	33.6	3.9	21.4	4	10.2	1.4	7.5	0.9	124	25	5
JPAC220	44	48	4	2013	324	873	112	430	68	14.3	41.3	4.7	22.3	3.9	9.1	1	5.5	0.8	104	28	5
JPAC220	48	52	4	2016	323	861	105	389	65	14.2	44	5	25.7	4.9	13	1.9	10.7	1.4	153	28	5
JPAC220	52	56	4	1545	250	693	80	287	47	9.8	29.3	3.5	18.4	3.4	9.2	1.3	8.8	1.5	105	27	4
JPAC220	56	60	4	1526	256	646	84	311	50	11.3	33.7	3.7	19.2	3.3	8.1	1.1	7	1.2	91	25	5
JPAC220	60	64	4	1269	198	533	66	243	41	9.3	28.2	3.4	18.5	3.3	8.9	1.3	8.7	1.4	105	19	5
JPAC220	64	68	4	1031	184	425	54	189	32	6.8	24	2.7	12.8	2.4	7	0.9	4.9	0.8	85	19	5
JPAC220	68	71	3	942	168	399	51	184	28	6.6	20.1	2.5	11.4	2	4.8	0.7	4	0.5	61	17	4
JPAC221	16	20	4	429	128	163	23	67	11	2.6	8	0.9	4.3	0.8	1.6	0.2	1.2	0.3	19	26	2
JPAC221	20	24	4	1266	457	346	84	258	34	6.6	19.2	2.1	9.6	1.5	3.5	0.4	2.1	0.3	41	43	2
JPAC221	24	28	4	1625	552	436	120	357	45	10.1	25.6	2.7	12.4	1.9	4.3	0.5	1.8	0.3	55	41	2
JPAC221	28	32	4	1641	373	559	103	353	58	12.3	37.2	4.4	20.7	3.3	8.4	1	5.7	0.8	101	29	3
JPAC221	32	36	4	2340	457	1136	128	398	55	12.2	33	4	17.7	2.8	7.2	0.8	4.6	0.7	84	26	5
JPAC221	36	40	4	2577	391	1035	137	547	91	21.8	70.9	8.6	40.4	6.8	17	1.8	9.7	1.4	198	28	5
JPAC221	40	44	4	2130	353	1018	113	384	61	12.6	36.6	4.2	19.7	3.5	9.1	1.3	6.9	1.1	107	27	6
JPAC221	44	48	4	1616	297	754	88	293	46	10.2	28.8	3.4	14.9	2.6	6.3	0.9	5.1	0.7	67	23	5
JPAC221	48	52	4	1706	279	700	98	361	62	13.6	39.3	4.5	22.4	3.7	9.4	1.4	8.1	1.1	102	21	6
JPAC221	52	56	4	1646	251	600	93	382	67	15.1	45.3	5.3	25	4.4	12.4	1.7	11.7	1.9	129	20	6
JPAC221	56	60	4	1344	229	553	71	262	46	9.6	30.8	3.9	18.9	3.3	9.5	1.2	7.7	1.3	98	20	6
JPAC221	60	64	4	1231	213	513	66	234	39	8.5	29.1	3.6	18.3	3.1	8.3	1.2	7.3	1.3	86	19	5
JPAC221	64	66	2	1403	230	545	72	251	41	10.2	33.3	4.2	22.6	4	12.7	1.9	12.7	2.2	161	19	6
JPAC222	24	28	4	570	139	316	22	63	8	1.3	4.2	0.5	2.8	0.4	1	0.1	1	0.2	12	32	2
JPAC222	28	32	4	632	184	287	32	92	11	2.4	4.8	0.7	2.6	0.4	1.3	0.2	1.1	0.2	13	14	1

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC222	32	36	4	1071	350	355	71	215	24	5.4	11.9	1.2	5.5	1	2.4	0.3	2.1	0.3	28	19	1
JPAC222	36	40	4	1410	331	639	75	248	33	5.9	19.8	2	8.9	1.4	4	0.5	2.4	0.5	40	28	3
JPAC222	40	44	4	2263	584	960	123	396	52	10.3	31.2	3.5	15.5	2.6	6.4	0.8	4.5	0.8	72	40	5
JPAC222	44	48	4	2107	481	1030	106	333	42	7.8	22.8	2.7	11.8	2	4.7	0.6	4.2	0.5	59	41	5
JPAC222	48	52	4	997	227	474	50	159	21	4.9	12.5	1.5	7.2	1.1	3.2	0.3	2.2	0.4	33	34	3
JPAC222	52	56	4	478	119	214	23	74	8	2.7	5.4	0.6	3.2	0.6	2.3	0.3	1.7	0.3	24	34	2
JPAC223	24	28	4	632	198	206	38	117	18	3	10.7	1.4	6.7	1.1	2.6	0.3	1.9	0.2	28	28	3
JPAC223	28	32	4	1586	466	497	110	339	42	7.2	26.9	3	14.2	2.3	6	0.7	3.8	0.5	67	31	5
JPAC223	32	36	4	1681	355	645	96	331	53	8.9	33.2	3.8	20.1	3.6	10	1.1	7.1	1	113	30	6
JPAC223	36	40	4	796	202	395	39	110	14	3.4	6.7	0.8	3.7	0.5	1.6	0.2	1.3	0.3	17	22	2
JPAC223	40	44	4	931	204	474	44	141	19	4.3	11.1	1.2	5.5	0.8	2.4	0.3	1.8	0.3	22	44	3
JPAC223	44	48	4	749	134	441	28	89	13	3.1	9	1.1	5.1	0.8	2.4	0.4	2.1	0.3	21	48	3
JPAC223	60	64	4	1241	195	835	39	113	15	3	7.6	0.8	3.8	0.7	2.1	0.3	2.1	0.4	25	51	3
JPAC223	64	69	5	2680	752	874	171	561	68	14.5	40.7	4.4	22.1	4.3	13.8	1.8	13.1	2.2	138	53	4
JPAC224	16	20	4	1068	266	441	57	188	29	5.8	18.3	2	9.2	1.5	3.7	0.4	2.6	0.4	43	31	3
JPAC224	20	24	4	819	217	338	44	142	21	3.9	12.7	1.4	6.7	1	2.7	0.3	1.5	0.2	28	61	3
JPAC224	24	28	4	579	177	206	34	106	15	3	8.9	0.9	4.8	0.7	1.8	0.2	1.3	0.2	21	55	3
JPAC224	28	32	4	1124	391	362	66	206	24	4.6	14.8	1.7	7.5	1.4	3.4	0.3	2.1	0.3	39	54	4
JPAC224	32	36	4	1330	425	445	83	258	35	6.1	17	2	8.7	1.5	3.9	0.4	2.4	0.3	44	44	4
JPAC224	36	40	4	1781	530	646	111	346	44	8.8	21.8	2.5	11.5	1.9	4.3	0.5	2.7	0.4	49	36	4
JPAC224	40	44	4	1826	521	635	117	387	49	9.6	24.2	2.8	12.1	2.1	5.5	0.5	3.1	0.4	58	35	4
JPAC224	44	48	4	1485	381	630	84	269	35	6.8	16.6	1.7	8.5	1.6	4.4	0.5	2.8	0.4	43	45	3
JPAC224	48	52	4	1047	239	503	52	174	21	5.5	11.6	1.3	5.6	1	2.6	0.3	2.4	0.3	28	27	2
JPAC224	52	56	4	940	218	485	41	134	17	4.1	8.2	1	4.6	0.8	2.4	0.3	1.7	0.3	23	23	2
JPAC224	56	60	4	1280	278	659	56	188	25	5.1	12.9	1.6	7.9	1.4	3.9	0.5	3.2	0.5	37	33	3
JPAC224	60	64	4	943	171	522	37	129	17	4.3	9.8	1.3	6.3	1.2	3.5	0.4	2.3	0.4	38	21	2
JPAC224	64	68	4	1094	238	527	54	175	21	5.1	11.2	1.3	6.9	1.3	3.9	0.4	3	0.5	46	33	3
JPAC224	68	72	4	950	215	472	43	143	18	3.8	8.8	0.9	5.2	1.1	2.5	0.4	2.5	0.4	35	28	2
JPAC224	72	76	4	1622	343	849	73	237	30	6.7	15.2	1.8	9	1.7	4.2	0.5	3.6	0.5	48	41	4
JPAC224	76	80	4	1130	253	546	53	172	22	4.9	12.8	1.4	7.9	1.4	4.1	0.4	3.5	0.4	47	29	3
JPAC224	80	84	4	991	233	451	50	163	22	4.6	12	1.3	6.8	1.2	3.7	0.5	2.4	0.3	41	28	3
JPAC224	84	87	3	861	195	405	42	138	19	3.8	9.9	1.2	5.3	1.1	3.3	0.4	2.3	0.4	36	22	3
JPAC225	8	12	4	599	134	270	30	101	14	3.4	9.1	1	4.9	0.9	2.4	0.3	1.6	0.3	26	22	2
JPAC225	12	16	4	2511	482	1206	129	454	68	14	37.7	4.2	18	3	6.5	0.7	4.4	0.5	84	34	3
JPAC225	16	20	4	2602	486	1194	141	500	71	14.6	39	4.6	21.1	3.6	8.9	1	6.1	0.9	112	26	2
JPAC225	20	24	4	2925	513	1320	158	581	83	16.6	44.4	5.1	24.2	4.4	12.1	1.4	9	1.4	153	28	3
JPAC225	24	28	4	2323	422	1003	133	499	73	13.9	33.6	3.8	18.3	3.3	7.9	0.8	5.5	0.9	104	30	4
JPAC225	28	32	4	2569	468	1154	142	555	89	19.1	44.4	4.4	17.7	2.7	6.3	0.6	3.7	0.5	62	34	5
JPAC225	32	36	4	2840	510	1332	149	556	92	17.5	46.4	5.3	21.8	3.4	8.9	0.9	5.3	0.8	90	47	7

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC225	36	40	4	2136	392	948	109	413	67	14.2	41.3	4.7	22.3	3.9	8.8	0.9	6.1	0.9	105	35	5
JPAC225	40	44	4	1798	311	814	94	350	57	12.2	35.1	4.2	18.4	3	7.7	1	6.6	1	84	27	5
JPAC225	44	48	4	2103	372	936	110	409	67	14	36.8	4.7	21.4	3.8	10.3	1.2	8.1	1.3	109	30	6
JPAC225	48	52	4	2762	423	1143	140	563	96	20.4	61	7.3	37.7	7.2	18.2	2	13.7	2.2	227	32	7
JPAC225	52	56	4	1296	228	575	66	250	43	8	25.1	2.9	14.2	2.3	5.9	0.8	4.7	0.8	71	32	6
JPAC225	56	60	4	1794	359	809	87	308	47	9.3	28.1	3.4	16.5	3.3	9	1.1	6.7	1.1	106	41	4
JPAC225	60	65	5	1410	284	636	72	258	41	8.9	23.5	2.8	12.1	2	5.2	0.6	3.6	0.7	61	31	4
JPAC226	28	32	4	442	191	105	28	78	9	2.9	5.4	0.6	3.4	0.6	1.3	0.2	1.3	0.2	17	34	2
JPAC226	32	36	4	197	58	77	10	31	4	1.7	2.7	0.3	1.8	0.3	0.8	0.1	0.8	0.2	9	15	1
JPAC226	36	40	4	501	161	203	25	74	8	3	4.9	0.6	2.8	0.5	1.5	0.1	1.2	0.2	16	30	2
JPAC226	40	44	4	1902	408	917	96	328	45	9.6	22.7	2.4	11.7	1.8	4.3	0.5	3.3	0.4	51	51	4
JPAC226	44	48	4	4233	690	2321	178	672	98	22.2	62.4	6.9	32.6	5	12.9	1.3	8.5	1	123	58	6
JPAC226	48	52	4	2920	605	1201	159	597	94	18.5	54.9	6.3	30.4	4.5	11.7	1.3	9	1.2	126	39	6
JPAC226	52	56	4	2314	426	995	135	504	77	15.7	40.7	4.4	21	3.1	8.3	0.9	7	0.9	77	44	6
JPAC226	56	60	4	4000	990	1443	269	930	137	25.1	65.1	7.2	30.1	4	8.8	1	6.3	0.7	83	28	6
JPAC226	60	64	4	1774	343	776	90	328	49	9.7	31.5	4	18.7	3.2	8.4	1.1	7.4	1.1	105	47	5
JPAC226	64	68	4	1475	301	663	77	265	39	7.8	22.1	2.7	12.9	2.1	6.1	0.7	4.5	0.6	71	50	4
JPAC226	68	73	5	821	175	352	41	147	22	5.7	14.4	1.7	8.6	1.4	3.6	0.4	3.3	0.4	44	29	3
JPAC227	20	24	4	1517	389	596	81	282	43	9.1	26.9	3	13.8	2.1	5.6	0.6	3.5	0.4	62	39	4
JPAC227	24	28	4	1742	411	785	84	285	44	9.9	28.2	3.2	14.5	2.2	5.3	0.6	3	0.4	67	31	4
JPAC227	28	32	4	1679	319	716	85	331	52	11	32.6	3.6	17.3	2.9	8.3	0.8	5.2	0.7	95	27	3
JPAC227	32	36	4	1829	285	814	87	352	57	13	36.6	4.8	22.8	3.9	11.7	1.5	9.6	1.3	129	21	4
JPAC227	36	40	4	1585	262	701	78	302	50	11	32.5	3.8	20	3.3	10	1.3	8.5	1.2	102	25	6
JPAC227	40	44	4	1377	213	643	62	239	41	8.9	26.6	3.3	16.5	2.9	9.5	1.3	9.2	1.4	99	20	6
JPAC227	44	48	4	1177	187	526	55	212	35	8.1	22	2.8	14.7	2.7	9	1.1	8.6	1.4	93	18	5
JPAC228	20	24	4	2059	300	1320	78	264	36	6.3	15.2	1.8	7.1	1.1	2.5	0.3	2.5	0.4	25	44	5
JPAC228	24	28	4	1736	463	526	119	437	65	12.9	33.2	3.7	16.2	2.2	5.3	0.6	4.1	0.6	47	51	5
JPAC228	28	32	4	442	105	128	23	89	17	4.2	15.3	2.3	11.9	1.9	5.9	0.7	5	0.8	33	59	5
JPAC228	32	36	4	1241	361	542	58	177	24	5.3	14.1	1.8	8.4	1.3	3.7	0.4	2.6	0.4	43	56	3
JPAC228	36	40	4	596	169	247	29	96	14	2.9	7.8	0.9	3.9	0.7	1.7	0.2	1.3	0.1	22	37	1
JPAC228	40	44	4	378	127	142	20	61	7	1.6	4.1	0.4	2.3	0.4	1.1	0.1	0.7	0.1	12	39	1
JPAC228	44	48	4	318	103	133	15	42	5	1.4	3.3	0.3	1.9	0.3	1	0.1	0.8	0.1	11	37	1
JPAC228	48	52	4	388	110	161	20	65	9	1.8	4.3	0.5	2.1	0.4	1	0.1	0.9	0.2	12	24	2
JPAC228	52	56	4	441	128	158	26	90	11	2.7	5.5	0.7	2.9	0.6	1.3	0.1	1.1	0.2	15	26	1
JPAC228	56	60	4	899	204	366	46	173	27	7.4	16.9	1.8	9.1	1.4	4	0.6	3.5	0.5	39	39	3
JPAC229	8	12	4	485	155	185	26	80	10	1.7	5.6	0.7	3.2	0.5	1.5	0.1	1	0.1	14	39	1
JPAC229	12	16	4	467	167	145	27	86	12	2.3	7	0.9	4.1	0.6	1.3	0.1	0.8	0.1	14	38	1
JPAC229	16	20	4	1958	640	702	114	358	45	7.9	22.8	2.6	11.3	1.8	4	0.4	2.8	0.2	45	44	3
JPAC229	20	24	4	2493	728	957	140	447	59	10.8	31.9	3.7	17.6	2.9	7.1	0.8	4.6	0.6	84	33	5

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC229	24	28	4	1264	291	580	63	213	30	5.2	17.5	2.3	10	1.6	4.2	0.4	2.4	0.4	44	46	5
JPAC229	28	32	4	2895	765	1302	141	426	58	10.6	36.3	4.7	20.5	3.7	9.5	1.3	7.4	1	110	45	7
JPAC229	32	36	4	2555	616	1173	130	403	55	9.7	30.4	4	17.6	3.3	8.1	1.1	6	0.9	98	37	5
JPAC229	36	40	4	2465	590	1097	132	422	56	10.1	31.4	3.8	16.5	2.9	7.7	1.1	6	0.7	90	28	4
JPAC229	40	44	4	2366	558	1008	130	437	60	10.5	34.5	4.3	18.5	2.9	7.6	1	6.2	0.8	86	26	6
JPAC229	44	48	4	1526	346	626	82	283	42	7.9	27	3.4	15.4	2.7	6.6	1	6.2	0.9	76	31	8
JPAC229	48	52	4	1930	463	896	93	287	37	7.4	22.9	3	13.9	2.7	7.5	1.1	6.6	1.1	87	40	8
JPAC229	52	56	4	426	97	187	20	64	9	1.8	6.1	0.8	3.8	0.8	2.4	0.4	2.7	0.4	28	40	4
JPAC229	56	61	5	1153	259	537	58	189	26	5.3	14.5	1.8	8	1.5	3.8	0.6	3.3	0.5	45	15	3
JPAC230	24	28	4	321	123	96	18	52	7	1.6	4.7	0.6	2.9	0.6	1.2	0.2	1.2	0.2	13	27	2
JPAC230	28	32	4	448	172	168	21	56	7	1.6	4	0.5	2.7	0.5	1.2	0.2	1	0.1	14	25	3
JPAC230	32	36	4	969	231	491	52	145	17	3.5	6.9	0.9	3.4	0.6	1.4	0.2	1.2	0.2	16	21	3
JPAC230	36	40	4	1122	292	501	68	196	23	4.9	9.8	1.1	4.6	0.7	1.6	0.2	1.4	0.2	18	19	2
JPAC230	40	44	4	1227	361	523	68	197	25	4.8	12.4	1.5	5.8	1	2.1	0.3	1.6	0.2	25	30	2
JPAC230	44	48	4	1981	496	959	98	294	36	7.4	22.1	2.5	10.8	1.7	3.8	0.5	2.8	0.4	46	42	3
JPAC230	48	52	4	1197	237	686	51	151	19	4	10.1	1.3	5.5	0.9	2.3	0.3	1.7	0.2	28	24	2
JPAC230	52	56	4	988	257	430	55	169	22	5.2	12.5	1.5	6.2	1	2.2	0.3	1.7	0.2	25	20	2
JPAC230	56	60	4	396	98	177	20	62	8	2.3	5.3	0.7	3.2	0.6	1.5	0.2	1.3	0.2	17	12	1
JPAC230	60	63	3	915	216	440	45	135	17	3.1	10.6	1.3	5.9	1.1	3	0.4	2.2	0.3	35	28	3
JPAC231	28	32	4	533	175	201	31	84	11	2	5.5	0.7	3.3	0.6	1.5	0.2	1.2	0.2	16	43	2
JPAC231	32	36	4	428	115	209	20	57	7	2	3.7	0.5	2.2	0.3	0.9	0.1	0.8	0.1	10	26	1
JPAC231	36	40	4	699	194	324	35	99	12	3	6.6	0.8	3.7	0.6	1.4	0.2	1.2	0.1	18	30	2
JPAC231	40	44	4	864	239	384	44	132	16	3.9	8.9	1.1	5.3	0.9	2.3	0.3	1.8	0.2	25	29	2
JPAC231	44	48	4	1373	337	659	69	208	28	5.7	14.1	1.8	8.1	1.3	3.3	0.5	2.6	0.4	35	36	3
JPAC231	48	52	4	1870	448	896	94	288	36	7.4	19.9	2.5	11	1.8	4.8	0.6	3.6	0.4	55	36	3
JPAC231	52	56	4	1918	433	915	97	312	41	8.3	22.2	2.8	11.7	2	5.5	0.7	4.4	0.7	63	34	4
JPAC231	56	60	4	1299	292	613	65	206	27	5.3	16.5	2	9.4	1.8	4.4	0.7	4	0.6	53	33	4
JPAC231	60	64	4	1399	320	668	71	217	28	5.5	15.7	2	8.9	1.7	4.3	0.6	3.7	0.5	53	36	4
JPAC231	64	68	4	1217	269	572	61	197	26	5.4	14.9	2	8.7	1.6	4.4	0.6	3.5	0.6	51	39	4
JPAC231	68	72	4	1280	292	610	63	198	27	5.8	14.7	1.8	8.5	1.6	4.2	0.6	3.7	0.5	49	40	3
JPAC231	72	76	4	1165	270	548	58	182	25	5.5	13.4	1.7	7.5	1.4	3.8	0.5	3.3	0.5	46	43	3
JPAC231	76	80	4	1250	283	582	60	195	28	5.9	17.1	2.1	10.1	1.9	4.9	0.6	3.8	0.6	57	48	5
JPAC231	80	84	4	1081	238	492	52	175	26	5.8	16.4	2	9.2	1.8	4.4	0.5	3.3	0.4	53	31	3
JPAC231	84	88	4	1069	209	473	56	195	30	5.9	19.3	2.3	10.7	1.9	4.7	0.6	3.8	0.6	58	21	4
JPAC232	20	24	4	613	158	278	29	93	14	3	8.8	1	4.9	0.9	1.9	0.3	1.7	0.2	20	30	2
JPAC232	24	28	4	636	163	335	26	76	9	2	5.2	0.6	3.1	0.5	1.2	0.1	0.9	0.1	12	17	1
JPAC232	28	32	4	568	134	306	24	73	9	1.9	5.1	0.6	2.6	0.5	0.9	0.1	0.7	0.1	11	24	1
JPAC232	32	35	3	623	145	314	30	94	13	3.1	7	0.7	3.4	0.5	1	0.1	0.7	0.1	11	13	1
JPAC233	4	8	4	1248	252	593	65	219	34	7.3	20.8	2.4	9.9	1.5	3.4	0.3	2.2	0.3	38	26	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC233	8	12	4	2086	418	1016	106	370	55	11.6	31.6	3.5	14.1	2.1	4.2	0.5	2.6	0.3	52	47	4
JPAC233	12	16	4	2518	476	1195	132	466	74	15.9	45.3	5	20.4	3	6.2	0.6	3.8	0.5	75	47	4
JPAC233	16	20	4	2407	472	1081	134	487	73	15.4	42.9	4.8	19.5	2.8	5.4	0.6	3.2	0.4	66	37	6
JPAC233	20	24	4	2267	433	949	129	475	72	15.1	43	5.1	22.9	3.6	7.9	0.9	4.6	0.6	106	36	6
JPAC233	24	28	4	1882	387	856	102	357	50	10.5	28.5	3.4	14.9	2.4	5.2	0.6	3.4	0.4	62	33	5
JPAC233	28	32	4	2135	408	1018	109	389	57	12.3	34.1	4	17.4	2.8	6.2	0.8	4.2	0.5	72	32	5
JPAC233	32	36	4	992	117	452	43	199	39	8.7	28.5	3.3	15.4	2.8	6.2	0.9	5.5	0.8	72	34	4
JPAC233	36	40	4	579	55	120	18	107	30	7.7	33.6	4.2	22.4	4.6	12.3	1.7	10.1	1.5	152	41	4
JPAC233	40	44	4	1235	206	494	59	224	42	10.1	33.8	3.9	19.2	3.7	8.6	1.1	6.2	0.9	122	28	5
JPAC233	44	48	4	1210	221	522	62	230	39	9.2	27.8	3.1	14.3	2.5	5.6	0.6	3.6	0.5	69	20	3
JPAC233	48	53	5	1109	201	479	57	210	37	8.2	24.7	2.9	13.1	2.2	5.3	0.6	3.7	0.5	65	20	5
JPAC234	4	8	4	708	154	336	35	114	16	4.1	9.8	1.2	5.6	1	2.5	0.3	1.7	0.3	28	28	2
JPAC234	8	12	4	859	186	399	42	143	21	4.6	12.6	1.6	6.9	1.2	3	0.4	2.3	0.4	35	35	3
JPAC234	12	14	2	444	124	214	20	58	7	2	3.8	0.4	1.9	0.3	0.9	0.1	0.8	0.1	11	28	2
JPAC235	8	12	4	792	144	349	41	150	24	5.1	15.3	2	9	1.6	3.7	0.4	2.7	0.4	45	30	4
JPAC236	36	40	4	932	392	334	39	109	12	3.5	9.5	1	4.4	0.8	1.9	0.2	1.2	0.2	23	24	2
JPAC236	40	44	4	353	144	118	17	48	6	1.6	4.1	0.5	2	0.3	0.8	0.1	0.8	0.1	11	22	1
JPAC236	44	48	4	368	87	193	17	49	6	1.6	3.8	0.4	1.7	0.3	0.8	0.1	0.5	0.1	8	23	1
JPAC236	48	52	4	1071	229	593	46	138	18	4.5	9.9	1.1	5.1	0.9	2	0.3	1.4	0.2	23	18	3
JPAC236	52	56	4	1742	371	885	86	280	35	8.8	18	2	8.9	1.5	3.5	0.4	2.5	0.4	40	13	3
JPAC236	56	60	4	2228	455	985	121	426	64	13.4	36.6	4.3	19.3	3.2	7.3	1	5.9	0.9	85	28	8
JPAC236	60	64	4	460	94	219	21	70	10	1.9	6.7	0.8	4.4	0.9	2.3	0.3	2.2	0.4	26	38	2
JPAC236	64	69	5	826	150	378	41	142	23	5.1	14.9	1.8	8.4	1.7	4.1	0.5	3.8	0.6	52	25	4
JPAC237	32	36	4	660	201	259	35	107	14	2.9	8.8	1	5	0.8	1.8	0.3	2	0.3	22	41	2
JPAC237	36	40	4	499	139	200	25	77	12	2.2	9.2	1	5.8	0.9	1.8	0.2	1.7	0.2	23	22	1
JPAC237	40	44	4	859	206	436	38	115	16	3	9.4	1.2	5	0.9	2.4	0.2	1.7	0.2	24	34	2
JPAC237	44	48	4	706	195	295	38	118	15	2.4	8.6	1	4.3	0.7	1.7	0.3	1.7	0.3	24	28	2
JPAC237	48	52	4	623	156	282	31	98	14	2.7	7.7	0.9	4	0.7	1.9	0.3	1.5	0.2	23	15	2
JPAC237	52	56	4	986	209	479	50	164	24	5.4	12.6	1.5	5.6	1	2.4	0.3	2	0.3	30	19	3
JPAC237	56	60	4	2116	335	989	114	410	66	12.6	38.5	4.6	19.6	3.4	8.8	1.3	8	1.1	104	44	8
JPAC238	28	32	4	979	230	340	62	216	36	7.1	21.8	2.5	11.1	1.8	3.9	0.5	3.4	0.4	43	56	5
JPAC238	32	36	4	1511	389	499	93	332	50	10.4	30.9	3.9	16.1	2.6	5.5	0.7	4	0.6	74	46	3
JPAC238	36	40	4	647	172	278	32	95	12	2.8	7.7	1	5.3	1.1	2.8	0.4	2.3	0.3	36	34	2
JPAC238	40	44	4	874	243	308	48	153	22	4.9	15.3	1.9	9.7	1.8	4.6	0.7	3.8	0.4	58	29	2
JPAC238	44	48	4	502	147	241	21	60	7	1.5	4.1	0.5	2.7	0.5	1	0.2	0.9	0.2	14	18	1
JPAC238	48	52	4	423	104	217	18	52	7	1.5	3.9	0.5	2.5	0.5	1.1	0.2	0.9	0.2	13	11	1
JPAC238	52	56	4	337	80	163	15	48	7	1.4	4.2	0.5	2.6	0.5	0.9	0.1	1.1	0.2	13	7	1
JPAC238	56	60	4	886	212	290	52	174	27	5.5	18.5	2.5	11.8	2.5	6.4	0.9	5.5	0.8	77	12	2
JPAC238	60	65	5	480	116	201	22	67	11	1.7	7.9	1	5.1	1	3.4	0.5	3	0.5	40	15	1

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC239	16	20	4	1458	200	1045	38	113	17	3.4	9.2	1.2	5.7	1	2.7	0.3	2.2	0.3	20	63	9
JPAC239	20	24	4	1306	312	631	64	195	29	5.5	15.3	1.8	8.2	1.4	3.4	0.4	2.1	0.3	37	49	5
JPAC239	24	28	4	1097	286	406	67	220	30	6.2	18.4	2.2	9.8	1.6	3.8	0.5	2.6	0.4	43	51	3
JPAC239	28	32	4	1490	380	501	98	340	50	9.9	27.9	3.3	13.6	2.3	4	0.5	2.7	0.3	56	33	3
JPAC239	32	36	4	1645	303	766	82	286	45	8.2	25.9	3	14.7	2.8	7.3	1	6.5	1	93	31	4
JPAC239	36	40	4	1891	378	702	113	415	64	13.5	45.2	5.2	24.2	4.1	9	1	5.7	0.8	110	33	4
JPAC239	40	44	4	2675	572	984	164	582	87	16.8	52.1	6.4	28.2	4.9	12.4	1.8	12.1	1.9	150	26	4
JPAC239	44	48	4	1841	341	763	103	382	60	11.6	37.4	4.4	21.1	3.5	8.5	1.1	7.5	1.1	96	30	4
JPAC239	48	52	4	1794	333	745	101	370	59	11.2	36.7	4.4	20.1	3.3	8.5	1.1	7.2	1.1	93	29	4
JPAC239	52	56	4	711	124	308	36	127	21	4.4	15.2	1.9	9.1	1.7	4.3	0.6	4.1	0.5	54	25	3
JPAC239	56	59	3	1190	228	522	60	211	33	7.3	22.2	2.8	12.2	2.5	6.5	0.8	5.3	0.8	76	28	4
JPAC240	8	12	4	1167	282	494	62	202	29	5.5	18	2.2	10.3	1.7	4.4	0.6	3	0.4	53	32	2
JPAC240	12	16	4	2078	475	941	110	351	51	8.8	29.9	3.4	15	2.7	6.6	0.7	3.9	0.6	80	45	3
JPAC240	16	20	4	1767	372	772	100	337	48	9.5	28	3.1	13.9	2.4	5.6	0.7	4.1	0.6	71	44	3
JPAC240	20	24	4	1423	294	642	81	257	36	7.2	22.4	2.8	12.7	2.1	4.5	0.5	3.3	0.5	57	46	4
JPAC240	24	28	4	1919	405	709	114	434	71	13.8	42.5	4.9	22	3.4	7.8	0.9	4.5	0.6	87	39	3
JPAC240	28	32	4	1158	255	474	66	226	36	7	21.4	2.7	11.5	1.9	4.4	0.5	3.1	0.5	49	44	3
JPAC240	32	36	4	2314	500	981	128	427	61	12.6	39.7	4.8	22.1	3.8	9.8	1.2	6.1	0.8	117	58	4
JPAC240	36	40	4	1841	384	783	108	372	52	9.6	29.6	3.4	15.3	2.4	6	0.8	4.2	0.6	71	59	4
JPAC240	40	44	4	1956	398	792	115	426	61	11.9	37	4.1	17.6	2.9	7	0.8	4.6	0.6	79	46	4
JPAC240	44	48	4	2386	402	942	130	535	91	18.1	57.7	6.8	30.2	5	13	1.5	9	1.1	144	35	4
JPAC240	48	52	4	1488	222	614	63	246	44	9.5	35.1	4.4	22.8	4.7	15.3	2.3	14.8	2.5	189	31	4
JPAC240	52	56	4	1404	228	586	68	261	42	8.8	29.9	3.7	18	3.6	10.8	1.6	9.9	1.7	132	33	4
JPAC240	56	60	4	1446	253	623	73	272	44	8.6	29.4	3.5	16.4	2.9	8.4	1.1	7.1	1.1	104	33	4
JPAC240	60	62	2	641	108	270	35	132	21	4.1	13.8	1.6	7.2	1.3	3.6	0.4	2.5	0.4	40	18	2
JPAC241	4	8	4	687	141	319	32	109	17	3.4	11.2	1.5	6.7	1.2	3.3	0.4	2.6	0.4	39	25	2
JPAC241	8	12	4	1438	337	615	79	271	38	7.7	21.3	2.4	10.5	1.7	4	0.4	2.3	0.3	49	29	2
JPAC241	12	16	4	1543	392	670	84	272	38	7.2	19.8	2.3	9.7	1.5	3.3	0.4	2.2	0.3	41	39	3
JPAC241	16	20	4	2212	480	1097	103	353	50	10.1	30.6	3.5	14.5	2.3	5	0.6	3.2	0.4	60	40	3
JPAC241	20	24	4	2715	541	1461	120	385	54	10.5	31.6	3.7	16.3	2.6	6.7	0.8	4.5	0.6	77	36	4
JPAC241	24	28	4	2495	538	1046	136	477	69	14.1	43.1	5.2	24	3.9	10.2	1.3	7.2	1	118	57	6
JPAC241	28	32	4	2453	501	1047	133	486	76	15.1	48.9	5.3	23.9	3.6	8.9	1	5.4	0.7	97	45	5
JPAC241	32	36	4	3468	684	1424	199	730	119	23.6	75.3	8.9	37.7	5.5	12.7	1.4	7.3	0.9	140	41	5
JPAC241	36	40	4	1845	361	862	96	338	51	9.6	29.9	3.5	14.3	2.3	6	0.7	3.9	0.5	67	38	4
JPAC241	40	44	4	2076	339	938	105	422	72	14.9	44.7	5.1	21.9	3.5	8.9	1.1	6.4	1	94	44	5
JPAC241	44	48	4	1773	277	752	84	335	60	12.6	43.2	5.5	25.3	4.6	12.9	1.8	11.4	1.8	147	29	4
JPAC241	48	52	4	1377	230	577	68	261	43	9.5	30.4	3.6	17.2	3.2	9.2	1.2	7.7	1.3	116	27	4
JPAC241	52	55	3	1109	202	491	56	209	32	6.6	20.9	2.4	11	2	5	0.7	4.2	0.6	66	24	4
JPAC242	4	8	4	858	194	349	47	166	26	5.3	16.3	2	8.2	1.3	3.4	0.4	2.1	0.3	39	21	2

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC242	8	12	4	1937	442	820	102	365	57	11.5	34.9	4	16.8	2.5	5.9	0.7	3.2	0.4	71	31	2
JPAC242	12	16	4	2519	526	1089	135	489	78	15.9	47.4	5.2	22.1	3.4	8	0.9	4.2	0.5	96	33	2
JPAC242	16	20	4	2094	372	947	100	363	60	13.4	40.6	5	23.3	4.2	11.6	1.5	8.6	1.1	145	32	3
JPAC242	20	24	4	1649	332	788	78	271	41	9.6	26.9	3.3	15	2.5	6.3	0.8	5.1	0.8	70	35	4
JPAC242	24	28	4	2418	523	1032	126	477	79	15.9	46.4	5	21.1	3.1	7.7	0.8	4.7	0.6	77	38	5
JPAC242	28	32	4	2137	401	944	114	436	67	13.5	42.2	4.6	19.6	3	7.3	0.9	4.7	0.6	79	25	4
JPAC242	32	36	4	2033	343	777	97	413	72	15.3	52.8	6.1	29.4	5.4	15	2	11.6	1.8	192	20	4
JPAC242	36	40	4	1918	337	788	98	366	64	13.4	44.9	5	23.4	4.2	11	1.6	9.6	1.5	150	20	4
JPAC242	40	44	4	1636	305	711	83	314	49	11.2	33.6	3.8	16.2	2.8	7.2	0.9	5.5	0.9	93	19	3
JPAC242	44	48	4	1721	317	763	92	338	55	11.6	35.3	3.9	16.1	2.5	6.7	0.8	4.7	0.7	76	20	2
JPAC242	48	52	4	1741	314	772	92	349	55	11.4	34.2	3.8	16.3	2.7	6.2	0.7	4.5	0.6	79	20	2
JPAC242	52	56	4	1511	292	664	80	301	48	9.8	28.5	3	13.4	2.2	5	0.6	4.1	0.5	60	18	4
JPAC242	56	60	4	1559	290	682	83	311	50	10.3	32.9	3.5	14.2	2.4	5.8	0.7	4.7	0.6	69	18	5
JPAC242	60	64	4	1705	298	739	91	354	57	12.2	37.1	4.1	16.4	2.7	6.3	0.8	4.8	0.8	80	20	5
JPAC242	64	68	4	1877	359	826	99	363	54	12.4	37.1	3.9	17.6	3	6.8	0.9	5.6	0.9	88	23	3
JPAC242	68	71	3	1641	298	718	88	329	53	10.7	32.2	3.6	16.4	2.6	6.5	0.8	4.5	0.7	77	23	3
JPAC243	4	8	4	1162	257	469	66	237	36	7.2	22.5	2.3	9.9	1.7	3.7	0.4	2.8	0.3	47	21	2
JPAC243	8	12	4	2764	611	1173	159	576	84	17.2	49	4.6	17.6	2.5	5.2	0.5	2.5	0.4	61	24	2
JPAC243	12	16	4	2707	610	1158	153	547	79	15.9	45.7	4.6	17.5	2.6	5	0.5	2.9	0.4	66	23	3
JPAC243	16	20	4	2302	415	1068	119	454	74	15.3	44.4	4.6	18	2.9	6	0.7	3.5	0.4	75	36	4
JPAC243	20	24	4	2756	599	1179	153	556	87	16.9	51.1	4.9	20.1	3	6	0.7	3.4	0.5	76	24	4
JPAC243	24	28	4	2538	517	1142	139	508	77	14.8	43.6	4.3	17.2	2.4	5.6	0.6	3.3	0.4	63	23	4
JPAC243	28	32	4	2913	491	1228	156	670	118	25.2	72.9	7.1	26.1	4.1	8.1	0.9	4.6	0.6	100	25	4
JPAC243	32	36	4	1780	310	709	85	335	60	13.9	52.6	5.8	24.2	4.5	12.5	1.6	10.9	1.8	155	17	3
JPAC243	36	40	4	1723	306	696	85	332	55	12.3	43.8	5	22.5	4.2	10.9	1.5	9.6	1.6	138	16	3
JPAC243	40	44	4	1701	321	732	92	349	55	11.8	35.2	3.6	14.2	2.6	5	0.7	4	0.6	76	15	3
JPAC243	44	48	4	1651	299	721	88	337	56	11.8	36.7	3.6	14.8	2.4	5.5	0.6	4.2	0.6	71	14	3
JPAC243	48	52	4	1517	278	659	79	310	51	10.8	33.7	3.3	13.4	2.2	5.1	0.7	3.9	0.5	67	16	2
JPAC243	52	56	4	1480	276	646	77	301	49	10.1	31.8	3.4	13.9	2.1	4.8	0.6	3.9	0.4	60	13	2
JPAC243	56	60	4	1390	269	608	71	276	45	9.3	29.3	3	12.3	2.1	4.2	0.5	3	0.5	57	13	2
JPAC243	60	64	4	1579	290	691	84	321	53	11.3	34.8	3.5	14.1	2.2	5.2	0.7	3.9	0.5	65	16	2
JPAC243	64	68	4	1559	301	679	81	316	48	10.5	32.6	3.1	14.4	2.2	5.1	0.5	3.3	0.5	61	14	3
JPAC243	68	72	4	1325	274	588	67	250	36	8	24.7	2.5	10.9	1.9	4.2	0.5	3.4	0.5	54	14	2
JPAC243	72	76	4	1658	333	732	85	317	51	10	31.5	3.4	14.5	2.3	5.6	0.7	3.9	0.6	68	18	2
JPAC243	76	78	2	1536	304	683	79	296	43	9.5	29.3	3.3	12.2	2.3	5.2	0.7	3.9	0.5	66	18	3
JPAC244	4	8	4	1082	227	442	61	225	36	6.7	21.7	2.3	8.8	1.3	3.5	0.4	2.3	0.4	44	72	5
JPAC244	8	12	4	1705	387	683	102	364	54	10.4	33.2	3.4	12.3	1.8	4	0.4	2.8	0.4	47	84	6
JPAC244	12	16	4	2331	483	1007	132	477	76	15.3	47	4.5	17.4	2.5	4.9	0.5	2.5	0.4	62	34	5
JPAC244	16	20	4	2556	526	1127	143	512	80	16.7	47.3	4.7	18.2	2.7	5.8	0.5	3.1	0.4	70	19	5

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC244	20	24	4	3016	521	1424	156	602	89	18.2	56.4	6	24.2	3.6	8.5	1	6.2	0.8	100	32	5
JPAC244	24	28	4	2847	514	1357	135	520	79	15.3	48	5.5	23.9	4.2	10.3	1.2	6.3	0.8	126	23	5
JPAC244	28	32	4	2444	484	1035	127	512	83	16.7	49.3	5.6	21.4	3.4	7.9	0.9	5.2	0.7	91	22	5
JPAC244	32	36	4	2283	348	861	110	498	93	19.2	65.8	7.3	31.6	6	16.7	2.3	14.4	2.2	208	23	4
JPAC244	36	40	4	2447	428	935	110	463	85	17.8	67.8	8	37.2	7	18.3	2.5	14.8	2.3	251	18	3
JPAC244	40	44	4	1637	317	725	76	280	46	9.6	31.1	3.8	16.9	3.2	8.1	1	6	0.9	114	17	3
JPAC244	44	48	4	1835	354	807	93	352	57	11.2	35.6	4	16.9	2.8	6.6	0.8	4.1	0.5	90	17	2
JPAC244	48	52	4	1422	297	645	68	254	41	7.8	24.8	2.7	11.4	1.9	4.5	0.5	2.9	0.4	61	18	2
JPAC244	52	56	4	1248	242	543	62	234	38	8.1	24.4	2.9	13.1	2.4	5.4	0.8	4.2	0.6	68	23	4
JPAC244	56	60	4	1384	260	612	70	258	43	8.4	25.6	3.2	14.2	2.6	6.3	0.8	4.8	0.7	76	25	4
JPAC244	60	64	4	1517	287	674	76	285	46	9.2	28.9	3.4	15.2	2.5	6.2	0.8	4.1	0.6	78	19	4
JPAC244	64	69	5	1624	310	720	81	309	51	9.5	30.9	3.5	15.4	2.7	6.3	0.8	4.4	0.6	80	17	3
JPAC245	4	8	4	692	158	284	36	128	19	4	12.1	1.5	7.1	1.3	3.2	0.4	2.5	0.4	35	22	3
JPAC245	8	12	4	3217	658	1437	170	603	86	17.5	51.3	5.9	26.2	4.5	11.1	1.4	7.1	0.9	138	42	4
JPAC245	12	16	4	2683	633	1089	158	556	81	15.2	43.1	4.9	19.1	2.7	5.9	0.7	3.5	0.4	70	21	4
JPAC245	16	20	4	2965	618	1259	158	597	98	19.2	55.5	6	25.4	4	9.4	1.1	5.6	0.8	109	16	4
JPAC245	20	24	4	3251	570	1394	164	605	96	20.7	71.3	8.9	41.7	7.7	19	2.4	12.5	1.7	237	22	4
JPAC245	24	28	4	2995	500	1437	139	520	78	15.5	50.8	6.4	30.7	5.4	13.9	1.8	9.7	1.3	186	27	5
JPAC245	28	32	4	2771	542	1351	133	490	72	13.3	40.4	4.4	18.7	3.1	7.1	0.9	4.9	0.7	90	27	6
JPAC245	32	36	4	2409	452	1137	124	455	65	12.8	36.2	4.2	18.5	3	7.2	0.9	5.2	0.7	88	33	5
JPAC245	36	40	4	2941	524	1246	161	648	100	19.3	56.2	6.6	30	4.7	11.1	1.3	7.5	0.9	124	38	6
JPAC245	40	44	4	2012	344	783	95	428	76	14.6	51.1	5.6	26.3	4.7	12.5	1.6	8.8	1.3	160	17	4
JPAC245	44	48	4	1503	300	652	76	293	48	9	28	3	12.3	2.1	5	0.6	3.2	0.5	71	12	2
JPAC245	48	52	4	1378	265	612	68	254	40	8.5	26.3	3.1	14.1	2.5	6	0.8	4.4	0.7	74	23	5
JPAC245	52	56	4	1390	270	610	69	265	43	9.1	27.3	3	13.8	2.3	5.6	0.7	4	0.6	67	18	3
JPAC245	56	61	5	360	73	155	16	62	10	2	6.6	0.9	4.2	0.8	2.3	0.3	1.9	0.3	25	18	2
JPAC246	0	4	4	1147	258	505	56	200	32	6.2	18.2	2.3	10.2	1.7	4.2	0.5	3.1	0.4	50	39	3
JPAC246	4	8	4	1882	443	828	93	329	50	9.8	29.4	3.5	14.5	2.5	5.5	0.7	4.2	0.5	69	51	4
JPAC246	8	12	4	1613	377	684	90	302	45	8.4	25.3	3	11.9	2	4.8	0.5	3.2	0.4	57	41	3
JPAC246	12	16	4	1544	371	668	89	279	38	7.8	22	2.6	11.4	1.8	3.7	0.5	2.8	0.4	48	45	3
JPAC246	16	20	4	1140	294	425	64	220	34	8.2	19.3	2.4	10.8	1.9	4.6	0.6	3.5	0.5	52	56	3
JPAC246	20	24	4	979	242	382	54	198	29	7.7	16	1.9	7.6	1.2	2.8	0.4	2.1	0.3	35	59	3
JPAC246	24	28	4	1494	278	634	86	303	51	10.5	30.6	3.4	16	2.4	5.7	0.7	4.2	0.5	69	56	6
JPAC246	28	32	4	1450	276	612	83	290	50	11.7	30	3.3	14.6	2.5	6.1	0.7	3.8	0.5	67	54	5
JPAC246	32	36	4	1948	379	901	107	354	52	11.1	31.2	3.5	16.5	2.4	6.1	0.7	3.7	0.4	80	38	5
JPAC246	36	40	4	2221	491	949	132	420	60	13.7	36	3.8	17.7	2.9	6.7	0.8	4.3	0.5	83	40	6
JPAC246	40	44	4	964	155	333	61	246	37	8.5	26.1	2.8	13.6	2.2	4.9	0.7	3.7	0.5	70	54	4
JPAC246	44	48	4	1131	232	457	63	212	31	7.1	23.3	2.6	12.9	2.2	5.9	0.8	4.4	0.6	78	64	6
JPAC246	48	52	4	614	124	322	30	90	12	4.1	6.2	0.8	3.5	0.6	1.5	0.2	1.4	0.2	18	26	4

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC246	52	56	4	1291	236	634	67	220	32	7.8	19.5	2.2	10.8	1.8	5.2	0.6	4.1	0.7	51	51	8
JPAC246	56	60	4	1022	194	486	50	172	26	7.5	15.9	1.8	9.1	1.5	4.9	0.7	5.1	0.7	48	47	4
JPAC246	60	64	4	1046	212	463	54	184	29	7.7	17.5	1.9	9.8	1.5	4.7	0.7	4.6	0.6	54	45	4
JPAC246	64	68	4	479	96	219	24	80	12	5.1	7.1	1	4.6	0.8	2.1	0.4	2.4	0.4	26	25	2
JPAC247	12	16	4	1004	245	505	45	133	20	4.1	11.2	1.3	5.9	0.9	2.6	0.3	1.6	0.2	29	37	3
JPAC247	16	20	4	2344	547	1012	130	421	64	14.8	36.8	4.3	18.9	2.8	6.8	0.8	4.8	0.6	80	94	4
JPAC247	20	24	4	1105	263	457	61	194	30	6.9	19.8	2.3	11.4	1.9	4.5	0.5	2.8	0.4	51	66	3
JPAC247	24	28	4	1310	280	615	69	223	34	7.1	18.7	2.2	10.4	1.4	3.8	0.4	2.5	0.4	42	42	3
JPAC247	28	32	4	1220	265	534	69	220	34	7.5	22.5	2.5	11.7	1.8	4	0.5	2.4	0.4	45	47	3
JPAC247	32	36	4	1192	285	508	68	212	30	6.3	19.5	2.2	10.1	1.7	3.8	0.4	2.5	0.4	42	42	3
JPAC247	36	40	4	2997	656	1185	194	647	92	18.8	52.1	5.4	23.6	3.6	7.4	1	5.5	0.7	106	182	8
JPAC247	40	44	4	1786	378	664	116	405	59	12.6	35.5	3.8	17.6	2.6	6.2	0.7	4	0.4	82	48	3
JPAC247	44	48	4	1031	230	494	53	168	21	5.4	11.6	1.3	6.1	1	2.8	0.4	2.2	0.3	35	40	3
JPAC247	48	52	4	2089	358	1151	95	328	47	10.4	22.7	2.7	11.9	1.9	4.9	0.7	4	0.5	51	53	8
JPAC247	52	56	4	614	94	307	28	102	18	4	10.5	1.5	6.9	1.3	3.4	0.5	3.7	0.6	34	39	4
JPAC247	56	60	4	1346	259	586	71	248	38	9.4	25.4	3.1	15.2	2.5	6.8	1	6.3	1	73	28	5
JPAC247	60	64	4	1286	237	589	67	229	35	8.5	22.8	2.8	12.7	2.3	6.6	0.9	5.1	0.8	68	29	5
JPAC247	64	68	4	1218	211	600	61	206	33	7.1	19.1	2.2	10.9	1.8	5	0.7	3.8	0.7	57	34	4
JPAC247	68	72	4	1217	206	605	60	205	31	6.9	19.2	2.2	11.3	1.9	5.1	0.7	4.3	0.6	58	31	4
JPAC247	72	76	4	1044	178	554	48	164	25	5.2	15	1.7	7.5	1.3	3.4	0.4	2.9	0.4	38	32	4
JPAC247	76	80	4	1137	215	535	59	196	30	6.3	19.2	2.2	10.5	1.8	4.8	0.6	3.6	0.5	53	29	4
JPAC247	80	84	4	1356	250	559	75	272	44	10	29.1	3.3	16	2.9	6.8	0.9	6.1	1	82	24	4
JPAC247	84	88	4	1030	187	464	54	182	28	6.5	19.5	2.2	10.6	1.8	5.3	0.7	4.5	0.7	63	22	3
JPAC247	88	91	3	1047	191	475	56	190	29	6.5	18.4	2.2	10.5	1.9	4.8	0.7	3.8	0.5	57	22	3
JPAC248	24	28	4	689	187	311	36	102	13	2.5	7.7	0.8	4.7	0.7	1.9	0.3	1.4	0.2	22	36	2
JPAC248	28	32	4	954	242	481	45	127	14	3.3	8.5	0.9	4.1	0.7	1.9	0.2	1.2	0.2	25	38	2
JPAC248	32	36	4	773	179	343	42	140	19	3.6	10	1.2	5.4	0.9	2	0.3	1.8	0.2	26	19	3
JPAC248	36	40	4	1765	388	738	102	350	50	9.2	28.9	3.3	15.8	2.5	6.6	0.7	3.6	0.4	67	19	5
JPAC248	40	44	4	2654	574	1162	144	473	71	11.6	40.4	5.3	25.6	4.1	10.7	1.4	7.3	0.7	124	30	5
JPAC248	44	48	4	2440	581	1071	111	375	49	8.9	36.7	4.9	24.9	4.4	11.6	1.5	8.6	0.9	152	8	5
JPAC248	48	52	4	607	152	276	28	88	12	2.2	7.7	0.9	4.3	0.9	2.6	0.4	2	0.3	30	20	4
JPAC248	52	57	5	708	137	305	36	127	21	3.8	12.2	1.6	9.3	1.5	3.9	0.6	3.5	0.4	46	7	2
JPAC249	4	8	4	369	86	151	18	61	10	1.8	6.2	0.9	4.5	0.8	2.6	0.3	2.1	0.3	25	24	2
JPAC249	8	12	4	854	313	183	58	192	27	6.1	16.8	2	9.9	1.5	3.3	0.5	2.1	0.3	40	17	2
JPAC249	12	16	4	1429	482	666	63	161	15	3.8	8.4	0.9	4.1	0.6	1.6	0.3	1.3	0.2	20	35	2
JPAC249	16	20	4	1520	445	776	64	173	19	5	8.3	1	4.6	0.7	1.9	0.2	1.2	0.2	21	35	2
JPAC249	20	24	4	1103	298	529	48	143	20	4	13.5	1.4	7.2	1.2	3.1	0.3	1.8	0.3	33	42	3
JPAC249	24	28	4	785	236	314	40	121	19	4.3	10.7	1.3	6.2	1	2.5	0.3	1.6	0.2	27	31	3
JPAC249	28	32	4	1917	872	413	128	351	40	7.6	20.9	2.7	11.9	2.1	4.6	0.6	3.4	0.5	60	34	3

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC249	32	36	4	1164	447	338	71	202	27	5.9	16.9	1.9	9.1	1.4	3.1	0.4	2.2	0.3	39	34	3
JPAC249	36	40	4	946	304	313	54	167	27	5.3	15.7	1.9	9	1.5	3.8	0.4	3	0.3	41	43	3
JPAC249	40	44	4	903	290	306	49	153	22	5	14.7	1.7	8.3	1.4	4.2	0.5	2.8	0.4	45	36	3
JPAC249	44	48	4	1303	445	356	78	260	40	8.8	26.1	2.9	14.3	2.5	5.2	0.6	3.6	0.4	61	37	3
JPAC249	48	52	4	1285	426	422	76	234	33	7.3	19.7	2.2	11.2	1.7	4.2	0.4	2.3	0.4	46	36	3
JPAC249	52	56	4	4353	940	2094	222	751	88	16.4	45.1	4.8	23.9	4.2	12.1	1.7	12.5	1.8	137	27	3
JPAC249	56	59	3	1096	273	501	53	173	24	4.4	14.1	1.5	7.1	1.2	3.3	0.4	2.3	0.4	37	24	2
JPAC250	16	19	3	284	113	95	17	44	5	1.7	2.1	0.2	1.1	0.1	0.3	0.1	0.3	0	5	29	1
JPAC251	4	8	4	1011	246	476	47	150	20	3.9	12.2	1.5	7.7	1.3	3.3	0.4	2.9	0.4	38	21	2
JPAC251	8	12	4	1373	388	667	62	181	20	4.2	10.7	1.5	6.8	0.9	2.8	0.3	2	0.3	27	18	1
JPAC251	12	16	4	1361	308	637	71	226	31	6.7	16.7	1.8	9	1.5	3.9	0.6	3.3	0.5	44	22	2
JPAC251	16	21	5	1222	278	548	59	193	28	5.8	17.9	2.1	10.9	2	5.2	0.7	4	0.7	68	22	2
JPAC252	4	8	4	950	181	405	49	180	32	7.3	21.4	2.5	11.7	1.8	4.4	0.5	2.9	0.4	51	20	2
JPAC252	8	12	4	1150	206	484	61	231	41	8.5	26.5	3	13.9	2.2	5.3	0.6	3.6	0.5	63	23	2
JPAC252	12	15	3	1181	208	505	62	236	41	9.4	27	3.1	13.7	2.1	5.5	0.6	3.6	0.4	64	24	2
JPAC253	4	8	4	1266	240	546	66	246	42	9.3	25.3	2.8	14.1	2.1	5	0.7	4	0.6	62	20	3
JPAC253	8	12	4	1385	245	596	74	279	45	10.2	30.3	3.4	15.4	2.5	6.3	0.8	4.6	0.6	73	23	4
JPAC253	12	16	4	1324	236	571	71	262	46	9.6	27.6	3.1	14.2	2.4	5.9	0.7	4.2	0.6	70	21	4
JPAC253	16	19	3	1114	191	489	60	223	36	7.6	22.4	2.5	11.6	1.9	4.8	0.6	3.7	0.5	60	18	3
JPAC254	4	9	5	947	182	422	49	173	28	6.4	18	2.1	9.7	1.6	4.6	0.5	3	0.4	47	24	2
JPAC255	8	12	4	479	142	173	27	88	10	2.8	7.3	0.9	3.9	0.7	2.2	0.3	1.4	0.2	21	26	1
JPAC255	12	16	4	1066	323	421	58	178	22	4.9	13.8	1.6	7.3	1.2	3	0.3	1.9	0.1	32	31	3
JPAC255	16	20	4	1977	479	820	111	371	46	8.8	25.1	3	14.8	2.7	7.6	1	6.3	0.8	82	36	3
JPAC255	20	24	4	1508	323	798	70	225	29	5.3	13	1.5	6.7	1.1	3.1	0.4	2.9	0.4	30	32	2
JPAC255	24	28	4	2267	459	1172	110	353	49	9.9	26.9	3	12.6	2.1	6	0.7	4.8	0.6	58	25	3
JPAC255	28	32	4	1694	307	806	89	317	50	9.7	26.4	3.1	13.3	2.3	6	0.8	5.4	0.6	58	30	3
JPAC255	32	35	3	750	154	328	34	126	18	5.3	15.1	1.7	8.8	1.8	4.8	0.6	3.9	0.6	49	50	2
JPAC256	16	20	4	545	159	208	30	97	15	2.5	8.1	0.9	4	0.7	1.6	0.2	1.1	0.1	18	32	2
JPAC256	20	24	4	1818	361	882	90	328	45	8.7	26.4	2.9	13.3	2	4.9	0.5	2.4	0.4	51	22	3
JPAC256	24	28	4	2264	395	1178	102	377	58	11.1	34.5	3.8	17.9	2.9	7.4	0.8	4.2	0.5	72	18	5
JPAC256	28	32	4	2613	469	1320	119	452	70	13.5	42.2	4.7	20.4	3.3	8.1	0.9	5.3	0.6	84	21	4
JPAC256	32	36	4	1935	412	869	92	336	50	9.4	34	4.2	19.3	3.4	8.6	1	5.8	0.8	90	17	4
JPAC256	36	40	4	869	196	421	38	125	18	3.9	10.8	1.4	7.7	1.5	4	0.5	3.1	0.4	38	24	3
JPAC256	40	44	4	464	82	290	14	46	6	1.7	3.7	0.5	2.2	0.5	1.4	0.2	1.2	0.3	16	20	3
JPAC256	44	48	4	750	165	421	27	84	12	2.7	7.1	0.9	3.9	0.9	2.2	0.2	1.6	0.3	22	24	3
JPAC256	48	52	4	491	118	230	22	72	9	2.8	5.6	0.6	3.3	0.7	2.2	0.3	2.6	0.3	22	17	2
JPAC256	52	56	4	736	147	322	36	131	21	3.8	12.9	1.7	7.3	1.6	4.1	0.4	3.1	0.5	44	14	4
JPAC256	56	58	2	865	189	391	43	145	21	3.9	13.8	1.8	7.5	1.4	3.9	0.4	2.9	0.3	42	17	5
JPAC257	12	16	4	917	331	160	65	226	30	6.7	18.2	2	9.9	1.8	5.3	0.6	3.1	0.5	59	30	1

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Hole No.	From m	To m	Interval m	TREO ppm	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 Ppm	Tb_4O_7 Ppm	Dy_2O_3 ppm	Ho_2O_3 Ppm	Er_2O_3 Ppm	Tm_2O_3 Ppm	Yb_2O_3 Ppm	Lu_2O_3 Ppm	Y_2O_3 Ppm	Th	U
JPAC257	16	20	4	1113	331	430	60	187	27	5.6	15.3	1.9	8.2	1.4	3.6	0.4	2.3	0.3	40	18	2
JPAC257	20	24	4	1971	491	927	98	302	39	7.9	22.2	2.7	12.5	2.2	5.8	0.8	4.4	0.6	55	36	4
JPAC257	24	28	4	993	209	555	37	112	15	3.3	9.2	1.2	6.6	1.3	3.7	0.4	2.8	0.4	37	34	5
JPAC257	28	32	4	1690	474	752	82	246	29	6.4	19.3	2.6	13.2	2.3	5.5	0.8	4.3	0.6	53	34	4
JPAC257	32	36	4	1177	221	705	39	118	14	3.4	11.3	1.5	8.6	1.6	4.6	0.6	3.8	0.5	45	35	3
JPAC257	36	40	4	1911	362	1136	63	191	24	5	17.6	2.5	13.2	2.7	7.6	1.1	6.6	0.8	78	40	4
JPAC257	40	44	4	3882	1059	1928	159	461	50	9.1	33.2	4.3	23.9	4.3	11.8	1.7	10.9	1.6	125	86	5
JPAC257	44	48	4	2898	746	1455	118	343	37	6.2	25.5	3.3	18.9	3.8	10.6	1.6	10.8	1.5	117	105	5
JPAC257	48	52	4	2119	563	1000	94	275	31	5.5	21.6	2.8	14.9	2.8	8	1.1	7.3	1	92	64	3
JPAC257	52	56	4	1650	460	771	69	209	23	4.8	16.8	2.1	11.1	2.1	6	0.8	5.4	0.7	69	58	4
JPAC257	56	60	4	782	184	340	39	130	19	4	12.5	1.6	7.2	1.2	3.2	0.4	2.7	0.4	39	13	3
JPAC257	60	65	5	878	186	384	45	156	22	5.2	15.2	1.7	8.4	1.6	4.1	0.5	3	0.4	45	7	3
JPAC258	20	24	4	3191	657	1553	158	529	78	16.2	49.1	5.8	25.5	4	8.7	0.9	4.6	0.6	101	16	3
JPAC258	24	28	4	1275	345	415	72	250	38	7.6	28.4	3.5	18.9	3.1	7.6	0.9	4.7	0.6	81	20	3
JPAC258	28	32	4	1370	345	500	80	267	42	7.8	28.5	3.2	16.5	2.6	6.6	0.8	4.5	0.6	66	20	5
JPAC258	32	36	4	860	165	383	42	147	25	4.5	16.8	2.2	10.9	1.9	5.3	0.7	5	0.6	51	20	6
JPAC258	36	40	4	780	124	395	33	119	19	3.7	12.4	1.7	9.3	1.8	4.4	0.8	4.9	0.7	49	21	7
JPAC258	40	44	4	1302	204	560	39	135	23	5.8	22.7	3.7	23.3	5.8	19.5	3.3	20.4	3.2	234	20	2
JPAC258	44	49	5	805	167	340	39	135	22	3.9	15	1.7	9.9	1.9	5.6	0.7	4	0.6	60	16	2
JPAC259	16	20	4	515	141	246	25	73	9	1.6	4.3	0.5	2.5	0.3	0.9	0.1	1	0.1	10	40	3
JPAC259	20	24	4	499	133	235	25	76	7	1.7	4.8	0.6	2.9	0.4	1	0.2	0.8	0.1	12	35	3
JPAC259	24	28	4	548	144	269	26	79	9	1.4	4.6	0.5	2.1	0.3	0.9	0.1	0.8	0.1	10	38	3
JPAC259	28	32	4	506	136	251	25	68	8	1.2	3.9	0.4	2.1	0.4	0.7	0.1	0.9	0.1	9	32	3
JPAC259	32	36	4	414	112	205	20	54	6	1.1	3.6	0.4	1.6	0.3	1	0.1	1	0.1	9	28	4
JPAC259	36	40	4	627	171	314	29	82	9	1.7	4.3	0.6	2.3	0.3	1.1	0.1	0.9	0.2	11	33	4
JPAC259	40	44	4	214	64	105	10	26	3	0.8	1.7	0.2	0.6	0.1	0.3	0	0.1	0	3	13	1
JPAC259	44	48	4	1235	328	639	58	160	17	3.9	7.6	0.8	3.6	0.6	1.3	0.2	1	0.2	15	50	3
JPAC259	48	52	4	518	141	262	24	68	7	2.1	3.8	0.4	1.8	0.3	0.7	0.1	0.6	0.1	7	22	2
JPAC261	28	32	4	690	235	308	31	85	10	1.9	5.3	0.6	3.1	0.3	0.9	0.1	0.7	0.1	9	26	2
JPAC261	32	34	2	1054	319	495	49	137	16	3.1	8.7	1.1	4.2	0.7	1.6	0.2	1.1	0.2	18	31	3
JPAC262	0	4	4	751	245	336	34	99	11	2.3	6.3	0.7	3.4	0.5	0.8	0.1	0.8	0.1	10	27	2
JPAC262	24	28	4	357	150	124	17	45	5	0.9	3.1	0.3	1.8	0.2	0.7	0.1	0.7	0.1	8	23	2
JPAC262	28	32	4	772	246	306	43	126	14	2.6	6.9	0.9	3.7	0.7	1.9	0.3	1.5	0.4	19	51	2
JPAC262	32	36	4	1245	371	529	68	196	23	4.2	12.3	1.3	6.1	1	2.5	0.4	1.8	0.2	29	43	4
JPAC262	36	40	4	1879	584	982	73	182	18	3.4	9.5	1	3.9	0.7	1.4	0.2	1.1	0.2	18	17	4

TREO represents the sum of 15 Rare Earth Elements expressed as oxides including Yttrium and excluding Promethium.

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APPENDIX ONE: 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
Table Sampling techniques	• Nature and quality of sampling (e.g.: cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling. • Measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. • Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g.: 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g.: submarine nodules) may warrant disclosure of detailed information.	• Assay results for some 165 Air Core (AC) drill holes for 9452 m are being reported. The holes were drilled to test clay-hosted REE mineralization within the Jupiter target. • The AC drill cuttings were collected in plastic bags from the drill rig cyclone in 1 m intervals and arranged in rows on site for assay sampling. Composite samples typically representing 4 m intervals (range 1 to 6 m) were collected as appropriate by sampling spear from the bulk 1 m bags of sample. • Drilling and sampling was supervised by a suitably qualified Critica geologist. • Samples were submitted to commercial assay laboratory ALS Geochemistry ("ALS") for assay.
Drilling techniques	• Drill type (e.g.: core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc..) and details (e.g.: core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc..).	• This report is based on 165 holes drilled with a KL 150 AC rig operated by KTE Mining Services Pty Ltd. • The AC drilling was conducted with a 90mm blade and holes were drilled to blade refusal in near fresh rock.
Drill sample recovery	• Method of recording and assessing core and chip sample recoveries and results assessed. • Measures taken to maximise sample recovery and ensure representative nature of the samples. • Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	• The bulk AC samples were visually assessed, weighed and considered representative with overall good recovery. • Most of the holes encountered water which only locally impacted sample recovery.
Logging	• Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. • Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. • The total length and percentage of the relevant intersections logged.	• All holes were qualitatively geologically logged by suitably qualified Critica geologists. • Mineral Resources have not been estimated. • The detail of geological logging is considered sufficient for exploration and resource definition drilling.
Sub-sampling techniques and sample preparation	• If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. • Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. • Whether sample sizes are appropriate to the grain size of the material being sampled.	• Drill composites of 2 to 6 m length were collected by sampling spear from the bulk 1 m sample bags. • Assay sample weights ranged between 0.8 to 4.4 kg with an average of averaged 2.7 kg. Sample sizes are considered appropriate for the material sampled. • Commercial assay standards were included in the laboratory submittals at a rate of c. 1 per 20 samples. • Field duplicate samples were collected at a rate of c. 1 per hole. • The average 4 m sample lengths are considered appropriate for the observed mineralisation.

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Criteria	JORC Code explanation	Commentary
Quality of assay data and laboratory tests	• The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. • For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. • Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	• All samples were submitted to ALS Geochemistry, Perth ("ALS") where they were oven dried then pulverized to P80 -75 microns (method PUL-25a). • Assaying of drill samples was conducted by ALS using a lithium borate fusion at 1025 deg C followed by nitric + hydrochloric + hydrofluoric acid digestion of the resultant glass bead and ICP-MS finish for 32 elements including full REE suite (ALS method ME-MS81) and 4 acid digestion (nitric, perchloric, hydrofluoric & hydrochloric) with ICP-AES finish for a 34 element suite including La (ALS method ME-ICP61). • >95% of the client assay standards reported within 10% of the REE+Y certified reference values for the range of interest (>1 ppm).
Verification of sampling and assaying	• The verification of significant intersections by either independent or alternative company personnel. • The use of twinned holes. • Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. • Discuss any adjustment to assay data.	• The use of twinned holes is not applicable at this stage. • The assay results are compatible with observed mineralogy. • Primary data is stored and documented in industry standard ways. • Critica assay data is as reported by ALS and has not been adjusted in any way. • Remnant assay pulps are currently held in storage by ALS.
Location of data points	• Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. • Specification of the grid system used. • Quality and adequacy of topographic control.	• Drill hole locations were determined by handheld GPS with a nominal accuracy of +/- 5 metres. • All coordinates and maps presented here are in the MGA Zone 50 GDA94 system. • Topographic control is provided by Worldwide 3 arc second SRTM spot height data.
Data spacing and distribution	• Data spacing for reporting of Exploration Results. • Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. • Whether sample compositing has been applied.	• The reported drilling is part of a resource definition program and was conducted on lines spaced 250m apart between previous 500m spaced lines. Drill hole spacing along the lines was 250m and locally 50m within selected target zones. • The assay results reported here are for 1 to 6 m intervals composited from the bulk 1 m AC sample intervals.
Orientation of data in relation to geological structure	• Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. • If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	• The AC holes were drilled vertically along E-W drill lines • The intersected clay and saprolite zones blanket weathered syenite-monzonite basement such that downhole thickness approximates true thickness.
Sample security	• The measures taken to ensure sample security.	• The chain of custody for all Critica samples from collection to dispatch to assay laboratory was managed by Critica personnel. • Sample numbers are unique and do not include any locational or interval information useful to non-Critica personnel. • The level of security is considered appropriate for such exploration drilling.
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	• Duplicate sampling at a rate of c. 1 per c. 20 samples was used to evaluate sampling error and is considered acceptable for such exploration and resource drilling.

Criteria	JORC Code explanation	Commentary
		• The new drilling results are compatible with Critica's previously reported RC and AC drilling results.

Section 2 Reporting of Exploration Results
(Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings • The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	• The Brothers REE Project currently consists of granted Exploration Licences E59/2421, E59/2463, E59/2710, E59/2711, E59/2819, E59/2820, E59/2821, E59/2827, E59/2889, E59/2890 and E59/2907, and applications E59/2927, E59/2928, E59/2929, E59/2930 and E21/232. All are 100% held by Tasmanian Rare Earth Pty Ltd a wholly owned subsidiary of Critica Limited.
Exploration done by other parties	• Acknowledgment and appraisal of exploration by other parties.	• Documented previous explorers within the area now covered by the Brothers Project include North Flinders Mines Ltd, CRA Exploration Pty Ltd, Spark Energy Pty Ltd, Arcadia Minerals Ltd, Babalya Gold Pty Ltd, Burmine Ltd, Equigold NL, Equinox Resources NL, Jervois Mining Ltd, Minjar Gold Pty Ltd, Mount Magnet South NL, Sons of Gwalia Ltd and David Ross. • Refer to previous Critica announcements to the ASX and also available from http://critica.limited
Geology	• Deposit type, geological setting and style of mineralisation.	• The Brothers REE exploration area is situated within the Western Australian Archean Yilgarn Craton and mostly comprises Cenozoic cover sequence overlying an extensive Archaean monzogranite complex (the Big Bell suite).
Drill hole Information	• A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: -easting and northing of the drill hole collar -elevation or RL of the drill hole collar -dip and azimuth of the hole -down hole length and interception depth -hole length. • If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	• Location and orientation details are given in Table 1. • Collar location was determined by handheld Garmin GPS64sx and is considered accurate to ±5m. • All coordinates and maps presented here are in the MGA Zone 50 GDA94 system. • Topographic control is provided by Worldwide 3 arc second SRTM spot height data. • Refer to ASX Announcements 9 May 2023, 1 August 2023, 16 April 2024, 23 May 2024 and 5 June 2024 for historic RC drill results and initial Brothers Project AC drill results respectively.
Data aggregation methods	• In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. • Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. • The assumptions used for any reporting of metal equivalent values should be clearly stated.	• Full sample assay interval results without aggregation methods are given in Table 2. • Metal equivalents have not been applied. • Refer to *ASX Announcement 9 May 2023* for historic drilling. • Standard element to oxide conversion factors have been used. Individual REE values in Table 1 and 2 are rounded to appropriately reflect reporting precision and the TREO field was calculated on an unrounded basis. •

La_2O_3	1.173
CeO_2	1.228
Pr_6O_{11}	1.208
Nd_2O_3	1.166
Sm_2O_3	1.16
Eu_2O_3	1.158
Gd_2O_3	1.153

Tb_4O_7	1.176
Dy_2O_3	1.148
Ho_2O_3	1.146
Er_2O_3	1.143
Tm_2O_3	1.142
Yb_2O_3	1.139
Lu_2O_3	1.137
Y_2O_3	1.27

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Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	• These relationships are particularly important in the reporting of Exploration Results. • If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. • If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	• The intersected clay and saprolite zones blanket weathered granitoid basement such that downhole thickness approximate true thickness.
Diagrams	• Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	• Appropriate exploration maps are included in this release.
Balanced reporting	• Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	• Complete assay results for the announced intersections are included in Table 2.
Other substantive exploration data	• Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	• The results are considered indicative only of the mineralisation in the area. • Refer to *ASX Announcements 9 May 2023, 9 November 2023* and *16 April 2024* for significant historic drill holes, geochemical results and geophysical survey information. • The project is part of an ongoing grid-based resource drill out and bulk density, geotechnical, hydrogeological and metallurgical work have yet to be completed.
Further work	• The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). • Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	• Critica proposes to better define the identified REE mineralisation at the Jupiter target by further drilling as and when necessary, and reconnaissance drill test satellite targets within the Brothers REE Project. • Critica is currently conducting mineralogy to guide appropriate metallurgical test work. • Appropriate exploration maps and plans are included in this release.

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