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SHALLOW HIGH-GRADE CAESIUM AND LITHIUM AT THE SINCLAIR ZONE OF THE PIONEER DOME PEGMATITE DISCOVERY. DRILLING TO COMMENCE NEXT WEEK

Perth Western Australia, 13 January 2017: Pioneer Resources Limited ("Company" or "Pioneer", ASX: PIO) is pleased to provide a drilling update for its 100%-held Pioneer Dome Lithium-Caesium-Tantalum ("LCT") Pegmatite Project in the Eastern Goldfields of Western Australia.

On 13 December 2016, the Company advised that it has completed a programme of close-spaced drill holes, comprising 18 reverse circulation ("RC") and 6 pre-collared diamond core holes, totalling 24 holes for 1,785m, including 215.7m of HQ core.

Results include high-grade caesium assays (>10% Cs_2O) with individual one-metre samples to 30.53% Cs_2O and similarly one-metre lithium assays to 4.59% Li_2O – importantly, in the latter case, from petalite/spodumene.

HIGH-GRADE CAESIUM

The high-value caesium mineral pollucite has been intersected in drilling over a strike length of 60m (Figure 1 below), now named the Sinclair Zone (Laurie Sinclair was a pioneering prospector who discovered gold at Norseman in 1894). The Sinclair Zone is one of a number of caesium and lithium targets being investigated.

High-Grade Caesium Results include:

> **PDRCD068: 3.85m at 27.78% Cs_2O from 44.35m[2] (highest grade of 29.53% Cs_2O from 46m)**
> **PDRCD071: 6.35m at 18.60% Cs_2O from 41.4m[2] (highest grade of 30.37% Cs_2O from 42m)**
> **PDRC083: 12m at 15.77% Cs_2O from 43m[1] (highest grade of 26.84% Cs_2O from 47m)**
> **PDRC084: 4m at 14.53% Cs_2O from 50m[1] (highest grade of 16.20% Cs_2O from 52m)**

The results listed above are in addition to earlier reported intersections:

> **PDRC015: 6m at 29.37% Cs2O from 47m[1,3] (highest grade of 32.46% Cs_2O from 50m)**
> **PDRC074: 7m at 17.12% Cs2O from 49m[1,4] (highest grade of 25.44% Cs_2O from 54m)**

HIGH-GRADE LITHIUM

In addition, significant lithium mineralisation was been intersected, including for the first time, lithium-bearing alumina-silicate minerals likely to include spodumene and/or petalite.

CAESIUM EXPLORATION TARGET

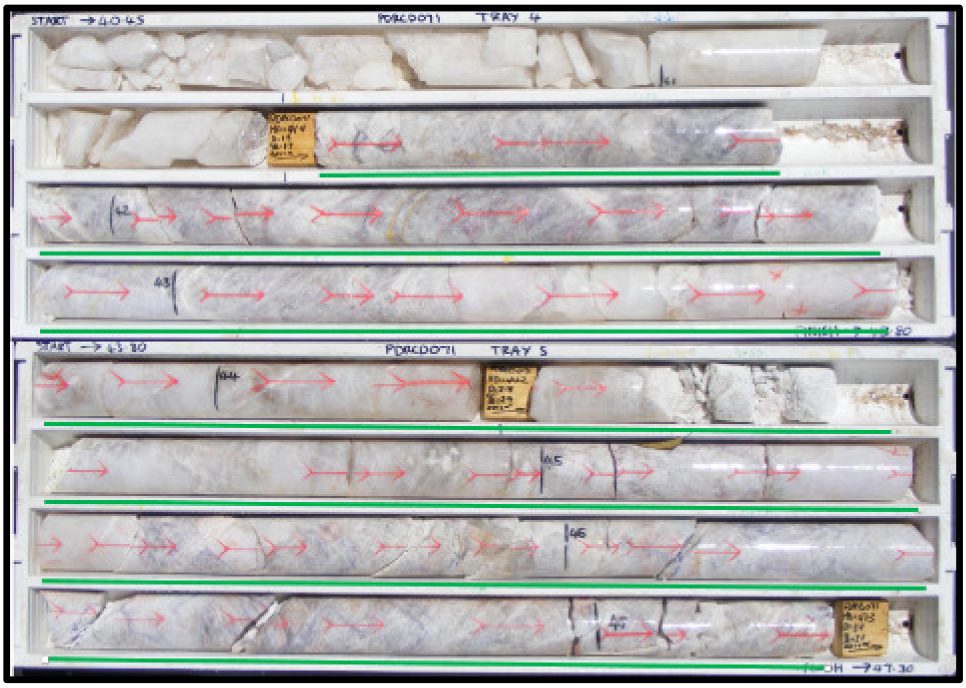
Following the receipt of these drilling results, the Company has sufficient information to establish an initial Exploration Target for the Sinclair Caesium Zone, being between 10,000t and 25,000t of pollucite at a grade between 15% and 25% Cs_2O*

This target is based on RC and Diamond Drilling, plus detailed geochemistry and geological mapping. Generally, drill holes have been completed on an approximate 10m x 10m grid to clarify mineralisation controls and to provide the data for a future Mineral Resource estimation.

** It is important to note that the quantity and grade of an Exploration Target is conceptual in nature, and that more work is required before an estimate of a Mineral Resource will be undertaken. It is therefore inherently uncertain that the additional work will result in the estimation of a Mineral Resource, as defined under the JORC Code 2012.*

Drilling to Resume at the Sinclair Caesium Zone and Commence at a Nearby Priority Lithium-Caesium Target

A programme of approximately 1,500m of RC drilling is planned to be completed before the end of January. Holes are designed to test for extensions to the Sinclair Caesium Zone south of drill hole PDRC083 and north of PCRC074; and as an initial test of a high priority lithium-caesium target located 175m south of the Sinclair Zone.



Photograph 1. Diamond core hole PDRCD071 intersected 6.35m at 18.60% Cs_2O from 41.4m *(highlighted in green). The predominant mineral is pollucite.*

LITHIUM PROSPECTIVITY ENHANCED – HIGHEST LITHIUM GRADES IN ALUMINA-SILICATE MINERALS

Significant lithium mineralisation was also intersected during the drilling programme. At least two forms of lithium mineralisation are evident in RC chips and core, including lithium-bearing alumina-silicates, likely to include spodumene and/or petalite, in PDRC059, PDRC067 PDRC076 and PDRC085.

A selection of samples of the lithium alumina-silicate mineralisation are being categorised using X-ray diffraction analysis, and on receipt, further information will be provided to the market. Drilling specifically targeting spodumene/petalite mineralisation will be planned on receipt of the XRD information.

Predominantly Lithium Alumina-Silicates (likely to include spodumene and/or petalite)

PDRC059: 3m at 2.85% Li_2O from 38m (highest grade of 3.18% Li_2O from 38m)
PDRC067: 11m at 2.63% Li_2O from 44m (highest grade of 4.59% Li_2O from 46m)
PDRC076: 5m at 2.22% Li_2O from 47m (highest grade of 3.01% Li_2O from 51m)
PDRC085: 6m at 3.66% Li_2O from 47m (highest grade of 4.42% Li_2O from 51m)

Predominantly Lithium-bearing Sheet Silicates (lithium-muscovite and lepidolite)

PDRCD069: 13m at 1.57% Li_2O m 45.25m
PDRC070: 12m at 2.2% Li_2O from 44m
PDRCD071: 12.95m at 1.81% Li_2O from 43.4m
PDRCD072: 8.65m at 3.01% Li_2O from 40m
PDRC073: 13m at 2.13% Li_2O from 39m
PDRCD075: 13m at 1.49% Li_2O from 46m
PDRC077: 13m at 1.89% Li_2O from 52m
PDRC079: 14m at 2.32% Li_2O from 46m
PDRC082: 11m at 1.86% Li_2O from 53m

ABOUT POLLUCITE – THE PRINCIPAL ORE MINERAL OF CAESIUM

Pollucite is a rare mineral of caesium that forms only in extremely differentiated zones of rare-metal lithium-caesium-tantalum pegmatite systems. It is found in commercial quantities at the Tanco Mine in Canada and Bikita Mine in Zimbabwe, where it is mined principally for use in the manufacture of Caesium Formate, a high density fluid used in high temperature/high pressure oil and gas drilling. The principal Caesium Formate manufacturer and dealer is Cabot Corporation (NYSE: CBT), through its Cabot Speciality Fluids division. Caesium Formate provides a number of well documented benefits including, minimal damage to the hydrocarbon-bearing formation resulting in higher production rates, where it acts as a lubricant, is non-corrosive and is considered an environmentally-friendly benign chemical when compared to alternatives. Caesium in principal commercial usage is the non-radioactive isotope. (Refer to Downs, J., et al)

DEVELOPMENT-FOCUSED OUTLOOK

- *The Company intends to continue exploration within the Pioneer Dome for additional deposits of caesium-bearing pollucite and lithium-bearing spodumene with drilling planned for the first quarter of 2017.*
- *Regulatory requirements are being reviewed to permit the extraction of a bulk sample of pollucite for metallurgical test work, and to further test sub-surface mineralisation for continuity;*
- *Development options are being investigated for the pollucite discovery, as more information becomes available. A Mineral Resource Estimate, which is a component of the development plan, has commenced;*
- *In addition, final soil geochemistry results have been received for approximately 1500 selected samples. While results are still being interpreted, mapping has commenced at the first of a number of additional lithium and caesium targets, which include PEG003, PEG004, PEG008B and PEG009. Drilling will follow during 2017 in a sequence reflecting the rank of the subsequent targets.*

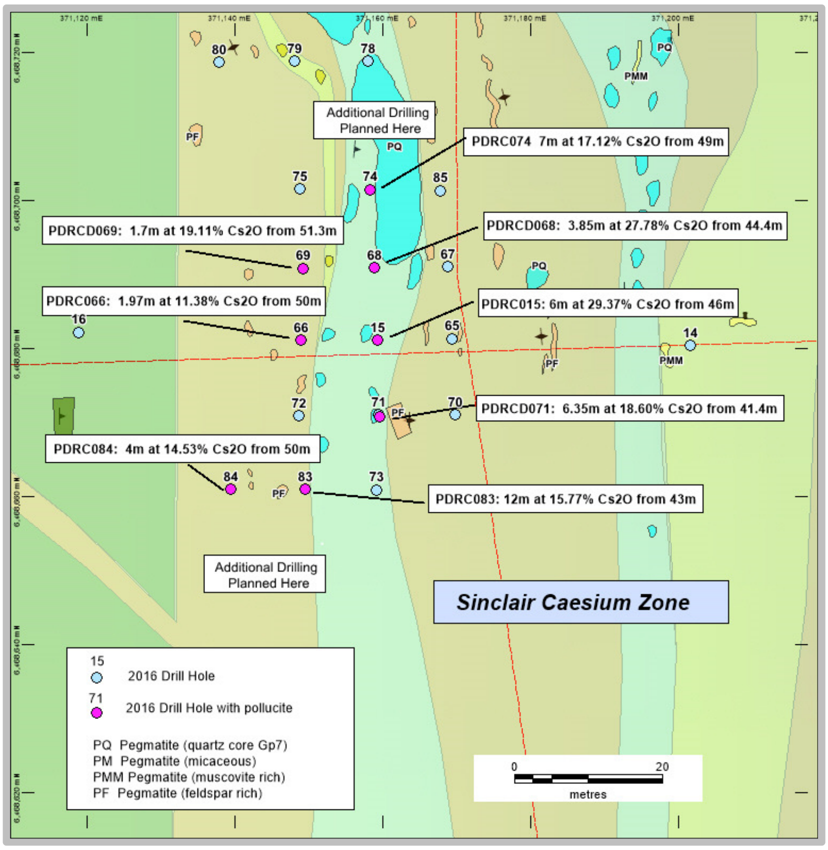
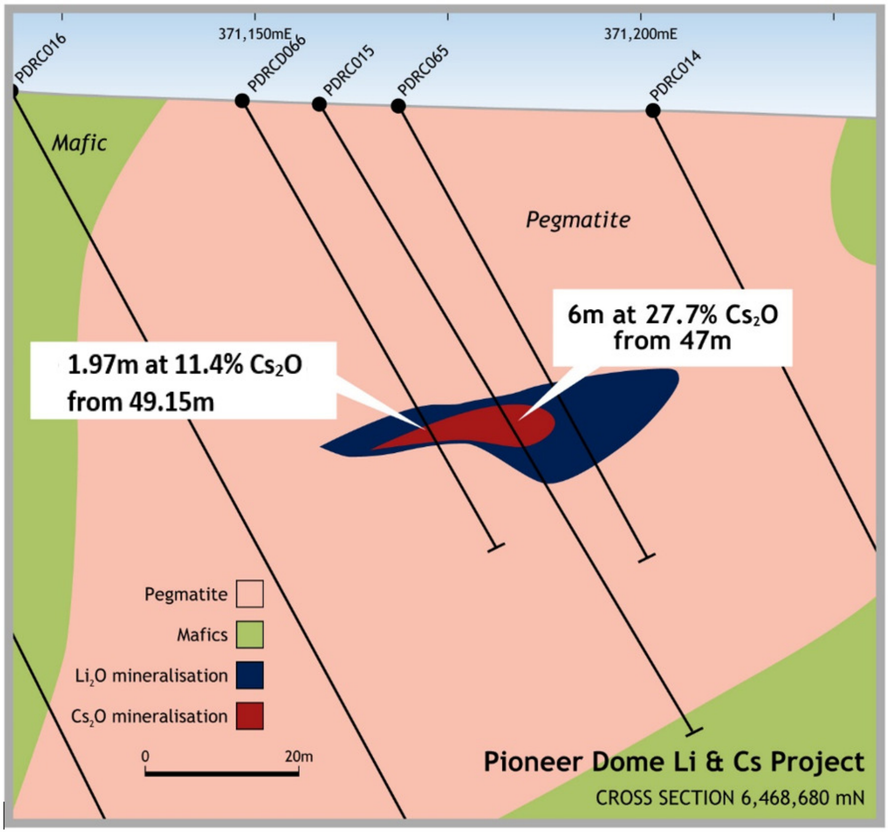
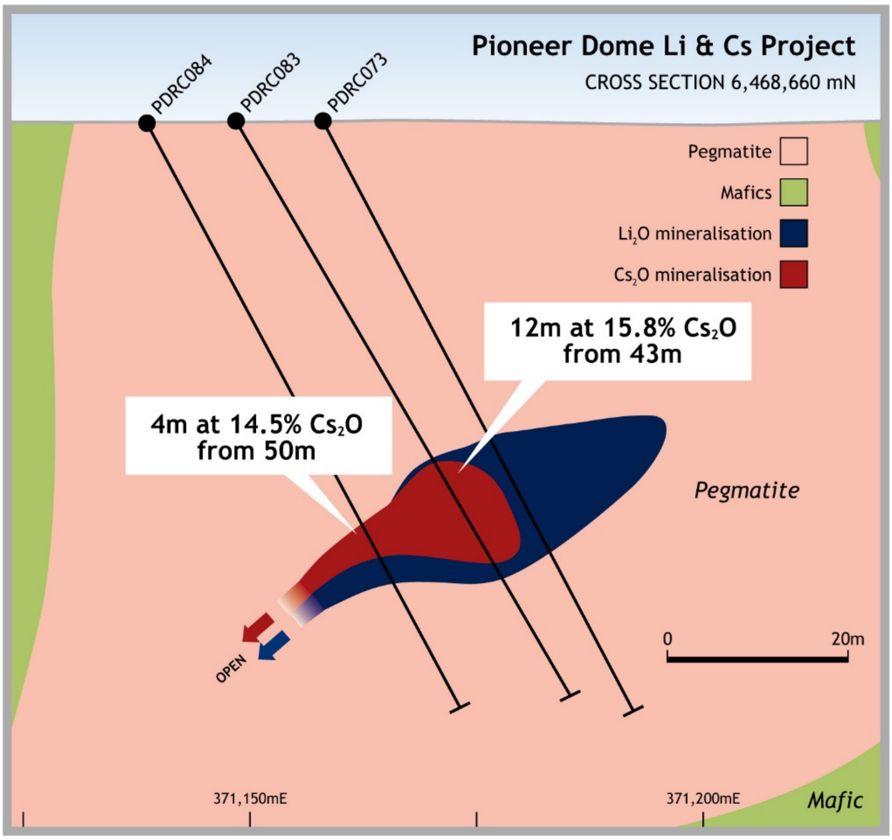


Figure 1. Drill Hole Collar Locations at the Sinclair Caesium Zone. *Pollucite has been intersected in marked holes. The lens of mineralisation is open to extension in both a northerly and southerly direction.*



Section 1: 6,468680mN. *Sinclair Caesium Zone, hosted within a zoned LCT pegmatite. The red core, representing the lens of pollucite, is the most extreme differentiated phase generated during the emplacement of the pegmatite. The purple lens is an outer lithium (predominantly lithium mica) zone.*



Section 2: 6,468660mN. *Sinclair Caesium Zone. This is the southern-most Sinclair section to date. The red core represents the lens of pollucite, and the purple lens is the outer lithium (predominantly lithium mica) zone.*

Pioneer's Managing Director said *"Drilling at the Sinclair Caesium Zone has successfully outlined a lens of the very high value caesium mineral, pollucite.*

"This provides incentive for the Company to evaluate the economics of the discovery as a supply source for caesium formate production, which is much in demand.

"In addition, the identification of spodumene and/or petalite in drilling samples greatly enhances the Project's prospectivity for the discovery of a conventional pegmatite-hosted lithium deposit".

ABOUT PIONEER RESOURCES LIMITED

The Company's strategy is to actively explore for key, global demand-driven commodities in highly prospective geological domains, in areas with low geopolitical risk and with established infrastructure. The Company's portfolio includes high quality lithium and caesium assets in Canada and WA, plus strategically located gold and nickel projects in mining regions of Western Australia.

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FOOTNOTES

1. Reverse Circulation drill hole (definition below)
2. Diamond Core drill hole
3. Refer to Company announcements to ASX 17 October 2016
4. Refer to Company announcements to ASX 14 December 2016

REFERENCES

Company announcements to ASX 19 May 2016, 27 July 2016, 28 August 2016, 1 September 2016, 4 October 2016, 17 October 2016, 14 November 2016, 14 December 2016 and Quarterly Activity Reports.

Bradley, D., and McAuley, A. (2013): "A preliminary deposit model for lithium-cesium-tantalum (LCT) pegmatites". *U.S. Geological Survey Open File Report 2013-1008 7p*.

Downs, J. D., Blaszczynski, M., Turner, J., and Harris, M. (2006)*: "Drilling and Completing Difficult HP/HT Wells with the aid of Cesium Formate Brines – A Performance review."*

London, David (2016) *Pegmatites, Minerological Association of Canada*.

Tuck, C. A. (2015) *"U.S. Geological Survey, Mineral Commodity Summaries, January 2015, (Cesium)"*

GLOSSARY

For descriptions of any technical terms that are not described within the report, the reader is directed to various internet sources such as Wikipedia (www.wikipedia.org) or Mindat (www.mindat.org)

COMPETENT PERSON

The information in this report that relates to Exploration Results is based on information supplied to and compiled by Mr David Crook and Mr Paul Dunbar. Mr Crook is a full time employee of Pioneer Resources Limited and Mr Dunbar is a consultant to Pioneer Resources Limited. Both Mr Crook and Mr Dunbar are members of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists and have sufficient experience which is relevant to the exploration processes undertaken to qualify as a Competent Person as defined in the 2012 Editions of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

Mr Crook and Mr Dunbar consent to the inclusion of the matters presented in the announcement in the form and context in which they appear.

CAUTION REGARDING FORWARD LOOKING INFORMATION

This announcement contains certain statements that may be deemed "forward-looking statements." All statements in this announcement, other than statements of historical facts, that address future market developments, government actions and events, are forward-looking statements.

Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes.

Forward looking statements in this document are based generally on the Company's beliefs, opinions and estimates as of the dates the forward looking statements that are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.

Although Pioneer believes the outcomes expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in forward-looking statements. Factors that could cause actual results to differ materially from those in forward-looking statements include new rare earth applications, the development of economic rare earth substitutes and general economic, market or business conditions.

While, Pioneer has made every reasonable effort to ensure the veracity of the information presented they cannot expressly guarantee the accuracy and reliability of the estimates, forecasts and conclusions contained herein. Accordingly, the statements in the presentation should be used for general guidance only.

APPENDIX 1. Drill Hole Information and Results Summary

Table 1 Reverse Circulation Drill Hole Collar Locations										
Hole ID	**Type**	**Grid**	**East (m)**	**North (m)**	**RL (m)**	**Dip (^{0})**	**azimuth (^{0})**	**RC (m)**	**Core (m)**	**Depth (m)**
PDRC065	RC	MGA94_51	371169.36	6468681.30	330.80	-60	90	67		67
PDRCD066	RCD	AMG66_49	371148.97	6468681.13	331.66	-60	90	36.3	30.3	66.6
PDRC067	RC	MGA94_51	371168.86	6468691.03	331.49	-60	90	67		67
PDRCD068	RCD	MGA94_51	371158.83	6468690.83	332.03	-60	90	31	35.3	66.3
PDRCD069	RCD	MGA94_51	371149.24	6468690.79	332.19	-60	90	37	32.6	69.6
PDRC070	RC	MGA94_51	371169.76	6468671.01	330.30	-60	90	67		67
PDRCD071	RCD	MGA94_51	371159.40	6468671.00	330.88	-60	90	30.4	36.2	66.6
PDRCD072	RCD	MGA94_51	371148.68	6468670.91	331.14	-60	90	36.3	39	75.3
PDRC073	RC	MGA94_51	371159.17	6468660.89	330.18	-60	90	73		73
PDRC074	RC	MGA94_51	371158.32	6468701.46	332.50	-60	90	73		73
PDRCD075	RCD	MGA94_51	371148.73	6468701.55	332.70	-60	90	36.3	42.3	78.6
PDRC076	RC	MGA94_51	371095.04	6468603.05	333.25	-60	90	109		109
PDRC077	RC	MGA94_51	371147.14	6468757.66	334.23	-60	90	79		79
PDRC078	RC	MGA94_51	371157.97	6468718.80	333.20	-60	90	73		73
PDRC079	RC	MGA94_51	371148.15	6468718.73	333.42	-60	90	73		73
PDRC080	RC	MGA94_51	371137.87	6468718.62	333.30	-60	90	79		79
PDRC081	RC	MGA94_51	371157.20	6468740.26	333.35	-60	90	67		67
PDRC082	RC	MGA94_51	371148.19	6468740.23	333.99	-60	90	79		79
PDRC083	RC	MGA94_51	371149.50	6468660.93	330.53	-60	90	73		73
PDRC084	RC	MGA94_51	371139.49	6468660.97	330.78	-60	90	73		73
PDRC085	RC	MGA94_51	371167.82	6468701.30	331.96	-60	90	61		61
PDRC086	RC	MGA94_51	371020.70	6468426.27	332.30	-60	160	103		103
PDRC087	RC	MGA94_51	371041.47	6468360.41	334.34	-60	220	91		91
PDRC088	RC	MGA94_51	371144.34	6468600.53	331.48	-60	90	55		55

Notes:

- *Hole locations were measured by a licenced surveyor in MGA 94 zone 51 using a DGPS which is considered fit for purpose.*
- *The azimuth is in degrees magnetic as derived from a hand held compass.*

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O (%)	Li_2O (ppm)	Ta_2O_5 (%)	Rb (ppm)	As (ppm)
PDRC065	ARC106168	41	42	0.00	1.35	0.77	6100	2.4
PDRC065	ARC106169	42	43	0.00	1.02	0.42	5435	1.6
PDRC065	ARC106170	43	44	0.00	0.05	0.16	19	4.1
PDRC065	ARC106171	44	45	0.00	0.05	0.67	119	2.6
PDRC065	ARC106172	45	46	0.08	0.59	20.33	3136	2.2
PDRC065	ARC106173	46	47	0.16	1.06	39.93	4134	1.4
PDRC065	ARC106174	47	48	0.34	2.15	87.06	7958	0.7
PDRC065	ARC106175	48	49	0.46	3.03	114.15	11907	0.7
PDRC065	ARC106176	49	50	0.28	0.60	18.67	4267	2.1
PDRC065	ARC106177	50	51	0.26	1.96	106.04	7579	1.2
PDRC065	ARC106178	51	52	0.28	2.25	131.44	8184	1.4
PDRC065	ARC106179	52	53	0.34	2.77	192.07	10090	1.2
PDRC065	ARC106180	53	54	0.20	1.55	83.44	6789	1.4
PDRC065	ARC106181	54	55	0.03	0.56	21.97	1087	1.8
PDRCD066	ARC106196	34	35	0.05	0.01	0.45	2242	1.3
PDRCD066	ARC106197	35	36	0.05	0.02	0.72	2421	1.7
PDRCD066	ARC106198	36	37	0.05	0.01	0.82	2449	1.3
PDRCD066	ARC107118	45.6	46.6	0.00	0.04	1.21	40	2.9
PDRCD066	ARC107119	46.6	47.6	0.49	3.39	139.66	13506	
PDRCD066	ARC107120	47.6	48.25	0.49	3.05	152.56	11907	0.6
PDRCD066	ARC107121	48.25	49.15	0.17	0.71	43.37	4202	3.7
PDRCD066	ARC107122	49.15	49.5	14.95	0.51	43.37	4662	
PDRCD066	ARC107123	49.5	50.1	4.37	1.25	82.14	5816	
PDRCD066	ARC107125	50.1	50.5	0.03	0.03	0.57	727	1.7
PDRCD066	ARC107126	50.5	51.12	23.48	0.12	13.73	4871	2.4
PDRCD066	ARC107127	51.12	52	0.19	0.64	110.22	4229	2.3
PDRCD066	ARC107128	52	53	0.44	2.46	294.77	9260	0.7
PDRCD066	ARC107129	53	54	0.19	1.00	220.20	4237	0.9
PDRCD066	ARC107130	54	55	0.12	0.64	57.28	3989	1.2
PDRCD066	ARC107131	55	55.7	0.00	0.03	4.43	18	2.7
PDRCD066	ARC107132	55.7	56.7	0.29	1.55	168.04	6742	1.1
PDRCD066	ARC107134	56.7	57.7	0.29	1.95	68.21	7540	1
PDRCD066	ARC107135	57.7	58.7	0.01	0.04	38.34	79	1.4
PDRC067	ARC106226	42	43	0.02	0.16	4.85	711	1.8
PDRC067	ARC106227	43	44	0.02	0.15	4.57	582	2.3
PDRC067	ARC106228	44	45	0.00	2.99	0.12	11566	1.4
PDRC067	ARC106229	45	46	0.01	4.57	0.28	15901	2.5
PDRC067	ARC106231	46	47	0.06	4.59	0.10	17037	1.9
PDRC067	ARC106232	47	48	0.01	4.01	0.66	14571	1.4
PDRC067	ARC106234	48	49	0.00	0.09	0.32	19	1.9

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRC067	ARC106235	49	50	0.05	0.32	10.50	2052	1.9
PDRC067	ARC106236	50	51	0.35	2.81	92.38	10355	0.6
PDRC067	ARC106237	51	52	0.13	1.97	35.06	7628	0.7
PDRC067	ARC106238	52	53	0.04	3.95	15.45	14518	1.6
PDRC067	ARC106239	53	54	0.06	1.44	41.91	6286	0.8
PDRC067	ARC106240	54	55	0.07	2.17	55.87	8011	0.7
PDRC067	ARC106241	55	56	0.06	0.79	104.42	2923	0.7
PDRCD068	ARC106971	40	41	0.07	0.02	5.15	3096	2.5
PDRCD068	ARC106972	41	42	0.02	0.03	9.72	740	4.5
PDRCD068	ARC106973	42	43	0.00	0.02	0.87	16	3.8
PDRCD068	ARC106974	43	44	0.00	0.02	0.04	5	3.3
PDRCD068	ARC106975	44	44.35	2.30	0.18	0.57	4448	1.1
PDRCD068	ARC106976	44.35	45	27.07	0.05	0.27	5062	3.1
PDRCD068	ARC106977	45	45.5	27.69	0.06	26.49	5072	7.3
PDRCD068	ARC106978	45.5	46	27.55	0.08	23.38	5070	4.9
PDRCD068	ARC106979	46	46.5	29.68	0.16	0.98	5334	3.8
PDRCD068	ARC106980	46.5	47	29.38	0.21	3.43	5232	4.8
PDRCD068	ARC106982	47	47.5	29.46	0.16	10.70	5273	5.2
PDRCD068	ARC106983	47.5	48	28.16	0.13	0.63	5137	3.3
PDRCD068	ARC106984	48	48.2	16.99	1.27	1.23	5866	1.9
PDRCD068	ARC106985	48.2	48.5	0.16	3.87	1.27	14330	3
PDRCD068	ARC106986	48.5	49	0.11	0.60	1.84	3828	2
PDRCD068	ARC106987	49	50	0.13	0.31	9.10	4026	1.7
PDRCD068	ARC106988	50	51	0.02	0.07	18.65	478	3.2
PDRCD068	ARC106989	51	52	0.01	0.03	7.47	1192	3.7
PDRCD068	ARC106990	52	52.5	0.17	0.34	11.60	4164	2.7
PDRCD068	ARC106991	52.5	53	2.06	1.19	3.42	5634	3
PDRCD068	ARC106992	53	53.4	0.94	2.12	294.44	7882	2.1
PDRCD068	ARC106993	53.4	54.15	12.60	1.08	96.56	5448	2.3
PDRCD068	ARC106994	54.15	55	0.29	1.78	135.37	7191	2.2
PDRCD068	ARC106995	55	56	0.53	2.46	104.34	9213	3
PDRCD068	ARC106996	56	57	0.07	0.37	21.80	3002	1.4
PDRCD068	ARC106997	57	57.5	0.12	0.83	67.06	3992	1.3
PDRCD068	ARC106998	57.5	58.5	0.11	1.71	57.86	7126	3.2
PDRCD069	ARC106265	34	35	0.03	0.01	1.43	217	0.8
PDRCD069	ARC106267	35	36	0.05	0.02	2.80	2217	1.6
PDRCD069	ARC106268	36	37	0.05	0.02	0.82	2186	1.2
PDRCD069	ARC107000	44	44.2	0.20	1.47	31.52	6292	2
PDRCD069	ARC107001	45.25	46	0.36	2.99	81.24	11492	0.9
PDRCD069	ARC107002	46	47	0.08	0.65	28.17	3389	1.4
PDRCD069	ARC107003	47	47.55	0.06	0.45	60.16	2719	3.1
PDRCD069	ARC107004	47.55	48.5	0.25	1.93	52.29	7525	1.3

Table 2 Selected Assays								
Hole ID	**Sample ID**	**From**	**To**	**Cs_2O (%)**	**Li_2O (ppm)**	**Ta_2O_5 (%)**	**Rb (ppm)**	**As (ppm)**
PDRCD069	ARC107005	48.5	48.8	0.14	0.91	28.15	4028	2.3
PDRCD069	ARC107006	48.8	49.6	0.41	0.59	11.21	4318	1.8
PDRCD069	ARC107007	49.6	50	0.01	0.06	1.15	1683	5
PDRCD069	ARC107008	50	50.6	0.58	0.59	21.22	4346	1.4
PDRCD069	ARC107009	50.6	51.3	0.35	1.68	65.91	7070	1.3
PDRCD069	ARC107010	51.3	52	13.87	0.81	34.62	4641	1.8
PDRCD069	ARC107011	52	52.5	23.08	0.54	26.71	4836	1.8
PDRCD069	ARC107012	52.5	53	22.48	0.21	10.17	4827	4.8
PDRCD069	ARC107014	53	54	0.28	1.25	290.16	5784	2
PDRCD069	ARC107015	54	55	0.65	3.66	340.54	14184	0.7
PDRCD069	ARC107016	55	56	0.32	1.89	559.61	7428	2
PDRCD069	ARC107017	56	57	0.39	2.05	1,092.92	7764	1.4
PDRCD069	ARC107018	57	58	0.49	2.86	393.91	10444	0.7
PDRCD069	ARC107019	58	58.25	0.36	2.17	510.35	8033	1.3
PDRCD069	ARC107020	58.25	59	0.05	0.13	69.19	2128	2.9
PDRCD069	ARC107021	59	59.5	0.16	0.68	77.97	4139	1.4
PDRCD069	ARC107022	59.5	60	24.73	0.15	20.93	4917	2.5
PDRCD069	ARC107023	60	60.4	24.72	0.14	15.46	4911	2.6
PDRCD069	ARC107024	60.4	61	0.21	0.95	63.80	4252	5
PDRCD069	ARC107025	61	62	0.09	0.53	179.28	3622	1.4
PDRCD069	ARC107026	62	63	0.05	0.31	70.56	2559	1
PDRCD069	ARC107027	63	64	0.19	1.53	206.26	6578	0.8
PDRCD069	ARC107028	64	64.8	0.17	1.42	56.23	6220	1.2
PDRCD069	ARC107029	64.8	65.5	0.15	0.92	112.87	4079	0.9
PDRCD069	ARC107030	65.5	66.5	0.11	0.53	46.87	3914	0.8
PDRC070	ARC106294	42	43	0.00	0.07	0.05	278	1
PDRC070	ARC106295	43	44	0.01	0.08	5.14	457	1.6
PDRC070	ARC106296	44	45	0.30	2.27	78.79	8238	2
PDRC070	ARC106297	45	46	0.49	3.63	123.93	14040	1.8
PDRC070	ARC106298	46	47	0.49	3.82	128.73	14268	0.6
PDRC070	ARC106300	47	48	0.54	4.10	146.30	14663	0.7
PDRC070	ARC106301	48	49	0.47	3.91	125.90	14412	0.6
PDRC070	ARC106302	49	50	0.07	0.99	30.61	3052	0.7
PDRC070	ARC106303	50	51	0.06	0.76	17.07	2664	1
PDRC070	ARC106304	51	52	0.09	0.87	9.06	3548	2.5
PDRC070	ARC106305	52	53	0.17	1.33	137.13	6006	1
PDRC070	ARC106306	53	54	0.31	2.32	243.82	8560	1
PDRC070	ARC106307	54	55	0.22	1.32	78.79	5976	1.2
PDRC070	ARC106308	55	56	0.13	1.02	57.82	4026	1.2
PDRC070	ARC106309	56	57	0.08	0.79	45.95	3476	1.2
PDRC070	ARC106310	57	58	0.03	0.34	47.94	1590	1.6
PDRCD071	ARC106322	30	31	0.07	0.05	1.37	3013	1.1

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRCD071	ARC107031	40.5	41.4	0.01	0.03	0.07	1286	1
PDRCD071	ARC107032	41.4	42	26.82	0.11	3.85	4968	2.1
PDRCD071	ARC107034	42	42.5	30.22	0.11	4.63	5359	2
PDRCD071	ARC107035	42.5	43	30.53	0.10	2.64	5397	2.5
PDRCD071	ARC107036	43	43.4	24.99	0.61	2.37	4949	2
PDRCD071	ARC107037	43.4	44	0.37	3.06	2.31	12037	1.5
PDRCD071	ARC107038	44	45	0.29	4.21	6.59	14849	2.5
PDRCD071	ARC107040	45	45.5	1.70	3.03	28.41	11855	1.2
PDRCD071	ARC107041	45.5	46	23.53	0.48	9.15	4904	2.3
PDRCD071	ARC107042	46	46.5	28.39	0.11	20.83	5232	2.7
PDRCD071	ARC107043	46.5	47	28.32	0.12	9.16	5152	2.5
PDRCD071	ARC107044	47	47.75	26.89	0.19	25.89	4992	2.1
PDRCD071	ARC107045	47.75	48.2	0.38	0.14	8.74	4280	5.4
PDRCD071	ARC107046	48.2	49	0.49	2.33	134.89	8730	0.9
PDRCD071	ARC107047	49	49.7	0.55	3.02	150.06	11620	0.9
PDRCD071	ARC107048	49.7	50	0.02	0.05	0.96	689	2.1
PDRCD071	ARC107049	50	51	0.01	0.05	0.53	870	2.4
PDRCD071	ARC107050	51	52	0.36	2.13	88.25	7905	0.8
PDRCD071	ARC107051	52	53	0.27	1.92	153.27	7500	1.2
PDRCD071	ARC107052	53	54	0.30	2.12	267.37	7836	1.1
PDRCD071	ARC107053	54	55	0.31	2.28	190.26	8446	1
PDRCD071	ARC107054	55	56	0.30	2.26	309.34	8224	1.4
PDRCD071	ARC107055	56	56.35	0.20	1.62	79.22	6921	1.2
PDRCD071	ARC107056	56.35	57	0.11	0.99	67.29	3895	1.3
PDRCD071	ARC107057	57	58	0.12	0.49	100.95	3978	1.4
PDRCD072	ARC107088	38	39	0.04	0.41	36.61	1907	0.9
PDRCD072	ARC107089	39	40	0.08	0.70	20.92	3218	3
PDRCD072	ARC107090	40	41	0.37	3.14	98.36	12488	0.5
PDRCD072	ARC107091	41	42	0.39	3.55	90.25	13940	
PDRCD072	ARC107092	42	43	0.36	3.35	98.64	13472	
PDRCD072	ARC107093	43	44	0.36	3.28	91.90	13246	
PDRCD072	ARC107094	44	45	0.36	3.28	84.22	13229	0.6
PDRCD072	ARC107095	45	46	0.32	2.86	77.43	10614	
PDRCD072	ARC107096	46	47	0.28	2.44	65.35	9180	0.6
PDRCD072	ARC107097	47	48	0.33	2.70	156.95	9809	1.3
PDRCD072	ARC107098	48	48.65	0.27	2.22	66.78	8144	1.4
PDRCD072	ARC107100	48.65	49.5	0.01	0.04	5.02	74	2.3
PDRCD072	ARC107101	49.5	50.5	0.02	0.07	25.84	1683	2.4
PDRCD072	ARC107102	50.5	50.75	0.01	0.03	8.66	64	4.1
PDRCD072	ARC107103	50.75	51	0.31	0.29	12.19	4270	
PDRCD072	ARC107104	51	51.85	2.44	0.57	46.44	4455	
PDRCD072	ARC107105	51.85	52.15	1.39	0.68	115.22	4391	0.9

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O (%)	Li_2O (ppm)	Ta_2O_5 (%)	Rb (ppm)	As (ppm)
PDRCD072	ARC107107	52.15	53	0.32	1.64	454.63	6964	0.8
PDRCD072	ARC107108	53	54	0.38	1.29	117.46	5882	
PDRCD072	ARC107109	54	55	0.03	0.07	234.82	1958	1.4
PDRCD072	ARC107110	55	56	0.20	0.94	512.15	4251	
PDRCD072	ARC107111	56	57	0.30	1.67	843.02	7057	0.6
PDRCD072	ARC107112	57	58	0.30	1.43	186.51	6232	0.7
PDRCD072	ARC107113	58	59	0.13	0.91	78.38	4022	0.6
PDRCD072	ARC107114	64.8	65.5	0.19	1.03	123.14	4247	5.9
PDRCD072	ARC107115	65.5	66.5	0.32	1.89	112.17	7418	3.7
PDRCD072	ARC107116	66.5	67.5	0.41	2.57	124.22	9718	0.6
PDRCD072	ARC107117	67.5	68.5	0.07	0.46	68.61	2980	0.6
PDRC073	ARC106338	20	21	0.02	0.02	1.07	1113	
PDRC073	ARC106339	21	22	0.03	0.01	0.26	1846	0.6
PDRC073	ARC106340	22	23	0.11	0.60	278.34	3782	3.3
PDRC073	ARC106341	23	24	0.07	0.22	231.90	2981	1.5
PDRC073	ARC106342	24	25	0.04	0.12	9.78	29	1.1
PDRC073	ARC106355	37	38	0.08	0.04	1.94	3266	1.4
PDRC073	ARC106356	38	39	0.04	0.11	9.16	99	1.2
PDRC073	ARC106357	39	40	0.24	1.83	83.79	7307	0.6
PDRC073	ARC106358	40	41	0.18	1.52	78.85	6534	0.8
PDRC073	ARC106359	41	42	0.31	2.78	103.09	10186	0.5
PDRC073	ARC106361	42	43	0.37	3.26	108.32	13220	
PDRC073	ARC106362	43	44	0.33	2.98	95.61	11387	
PDRC073	ARC106363	44	45	0.32	3.02	96.78	11691	0.5
PDRC073	ARC106364	45	46	0.25	2.48	85.40	9489	1.6
PDRC073	ARC106365	46	47	0.18	1.76	67.40	7144	2.6
PDRC073	ARC106367	47	48	0.17	1.34	59.05	6040	2
PDRC073	ARC106368	48	49	0.29	2.36	128.41	8931	0.5
PDRC073	ARC106369	49	50	0.19	1.64	130.63	6948	1
PDRC073	ARC106370	50	51	0.20	1.54	76.32	6654	0.8
PDRC073	ARC106371	51	52	0.14	1.17	63.75	5630	0.8
PDRC073	ARC106372	52	53	0.04	0.25	57.28	1879	1
PDRC074	ARC106407	47	48	0.03	0.08	6.60	854	2.1
PDRC074	ARC106408	48	49	0.24	0.11	31.40	727	1.5
PDRC074	ARC106409	49	50	21.01	0.29	28.10	3062	2.8
PDRC074	ARC106410	50	51	21.81	0.22	56.10	1960	2.1
PDRC074	ARC106412	51	52	11.69	0.35	86.10	2977	1.6
PDRC074	ARC106413	52	53	2.80	0.23	28.20	1133	2
PDRC074	ARC106414	53	54	25.13	0.42	34.80	4260	1.9
PDRC074	ARC106415	54	55	25.44	0.46	51.70	3999	1.8
PDRC074	ARC106417	55	56	11.97	0.36	82.00	2765	2.2
PDRC074	ARC106418	56	57	0.48	1.79	144.20	6957	2.6

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRC074	ARC106419	57	58	0.82	1.48	100.30	5770	2.4
PDRC074	ARC106420	58	59	0.84	0.79	62.50	2871	2.2
PDRC074	ARC106421	59	60	0.26	2.46	138.80	6397	2
PDRC074	ARC106422	60	61	0.28	1.36	88.00	3158	1.5
PDRC074	ARC106423	61	62	0.45	2.06	69.90	4146	1.6
PDRC074	ARC106424	62	63	0.07	0.56	41.80	1386	0.9
PDRC074	ARC106425	63	64	0.15	0.53	49.80	935	1.9
PDRCD075	ARC106457	36	37	0.02	0.10	10.30	934	0.8
PDRCD075	ARC107058	45	46	0.14	0.78	11.14	4031	1.8
PDRCD075	ARC107059	46	47	0.16	1.01	24.18	4121	1.4
PDRCD075	ARC107060	47	48	0.18	1.02	18.45	4220	1.5
PDRCD075	ARC107061	48	49	0.20	1.68	26.88	7106	2.6
PDRCD075	ARC107062	49	50	0.18	0.75	14.78	4227	1.9
PDRCD075	ARC107063	50	51	0.24	1.34	61.67	6009	1.5
PDRCD075	ARC107064	51	52	0.25	1.52	29.34	6564	1.7
PDRCD075	ARC107065	52	52.5	0.11	0.42	4.65	3929	3.1
PDRCD075	ARC107067	52.5	53.5	0.33	2.34	92.83	8927	0.9
PDRCD075	ARC107068	53.5	54.35	0.22	1.85	55.05	7343	2
PDRCD075	ARC107069	54.35	55	0.45	0.80	15.65	4332	1.6
PDRCD075	ARC107070	55	56	0.00	0.04	1.26	36	2.2
PDRCD075	ARC107071	56	56.4	0.02	0.06	10.87	1091	1.7
PDRCD075	ARC107072	56.4	57	0.54	3.16	394.98	12508	0.8
PDRCD075	ARC107073	57	58	0.55	3.23	402.93	12746	0.9
PDRCD075	ARC107074	58	59	0.40	2.16	396.19	7995	1.1
PDRCD075	ARC107075	59	60	0.16	0.84	231.09	4140	2
PDRCD075	ARC107076	60	61	0.15	0.57	412.60	4098	1.3
PDRCD075	ARC107077	61	62	0.04	0.20	81.51	2022	1.1
PDRCD075	ARC107078	65.5	66	0.40	2.37	174.01	8974	0.7
PDRCD075	ARC107079	66	67	0.49	2.74	189.01	9968	
PDRCD075	ARC107080	67	68	0.15	0.86	113.92	4042	1
PDRCD075	ARC107081	68	69	0.28	1.87	131.02	7351	1.9
PDRCD075	ARC107082	69	69.6	0.38	2.61	180.84	9747	1.5
PDRCD075	ARC107083	69.6	70.3	0.13	0.78	88.87	4006	4.9
PDRCD075	ARC107084	70.3	71	0.30	1.71	118.89	7128	1.9
PDRCD075	ARC107085	71	72	0.29	1.70	146.19	7114	1.5
PDRCD075	ARC107086	72	73	0.07	0.42	78.03	3071	0.6
PDRC076	ARC106461	46	47	0.03	0.21	19.20	711	4.2
PDRC076	ARC106462	47	48	0.06	1.41	57.90	1358	2.7
PDRC076	ARC106463	48	49	0.07	2.58	17.60	742	2.9
PDRC076	ARC106464	49	50	0.09	2.13	43.60	1737	1.5
PDRC076	ARC106465	50	51	0.13	1.95	58.70	3299	1.3
PDRC076	ARC106467	51	52	0.06	3.01	96.50	1264	1.8

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRC077	ARC106509	51	52	0.04	0.07	10.00	1456	1.1
PDRC077	ARC106510	52	53	0.29	1.60	438.10	7086	1.3
PDRC077	ARC106511	53	54	0.61	3.09	231.10	14647	0.25
PDRC077	ARC106512	54	55	0.53	0.51	40.70	4307	0.25
PDRC077	ARC106513	55	56	3.61	0.95	164.10	6257	0.5
PDRC077	ARC106514	56	57	0.51	1.92	76.10	9765	0.5
PDRC077	ARC106515	57	58	0.30	1.47	52.40	7056	0.25
PDRC077	ARC106516	58	59	0.41	2.29	146.80	10625	0.6
PDRC077	ARC106517	59	60	0.45	2.61	270.70	11703	0.8
PDRC077	ARC106518	60	61	0.45	2.71	250.50	11772	0.7
PDRC077	ARC106519	61	62	0.35	2.26	275.00	9704	0.7
PDRC077	ARC106520	62	63	0.29	1.82	220.30	8332	0.9
PDRC077	ARC106522	63	64	0.32	1.75	283.70	7901	1
PDRC077	ARC106523	64	65	0.33	1.63	205.80	7513	0.8
PDRC077	ARC106524	65	66	0.11	0.61	52.20	2920	1.1
PDRC077	ARC106525	66	67	0.15	0.93	94.90	4759	1.2
PDRC078	ARC106659	52	53	0.10	0.29	6.36	3738	
PDRC078	ARC106661	53	54	0.67	3.39	138.35	13624	
PDRC078	ARC106662	54	55	0.60	3.13	134.11	12431	
PDRC078	ARC106663	55	56	0.64	3.56	139.89	13992	
PDRC078	ARC106664	56	57	0.51	2.75	111.34	10052	
PDRC078	ARC106665	57	58	0.08	0.52	20.66	3523	1.6
PDRC078	ARC106667	58	59	0.05	0.19	19.60	2209	0.9
PDRC079	ARC106696	43	44	0.07	0.58	14.40	3054	
PDRC079	ARC106697	44	45	0.06	0.42	12.83	2738	
PDRC079	ARC106698	45	46	0.05	0.14	1.20	2215	0.7
PDRC079	ARC106700	46	47	0.24	1.80	50.76	7232	2
PDRC079	ARC106701	47	48	0.25	1.96	54.83	7624	0.9
PDRC079	ARC106702	48	49	0.34	2.74	69.66	10025	0.8
PDRC079	ARC106703	49	50	0.32	2.50	71.86	9502	2.7
PDRC079	ARC106704	50	51	0.29	2.27	92.55	8270	1.1
PDRC079	ARC106705	51	52	0.30	2.41	79.55	9077	1.5
PDRC079	ARC106706	52	53	0.39	2.97	74.32	11280	0.7
PDRC079	ARC106707	53	54	0.45	3.33	332.26	13439	0.8
PDRC079	ARC106708	54	55	0.32	2.39	81.92	8988	1.1
PDRC079	ARC106709	55	56	0.01	0.05	3.46	688	1.8
PDRC079	ARC106710	56	57	0.62	3.40	335.94	13915	0.6
PDRC079	ARC106711	57	58	0.59	3.23	742.16	12946	0.6
PDRC079	ARC106712	58	59	0.15	0.95	288.35	4049	1.9
PDRC079	ARC106713	59	60	0.43	2.43	386.95	9178	1.1
PDRC079	ARC106714	60	61	0.11	0.71	122.51	3830	2.7
PDRC079	ARC106715	61	62	0.01	0.05	7.27	110	2.8

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRC080	ARC106746	57	60	0.04	0.23	21.10	26	2.2
PDRC080	ARC106747	60	63	0.05	0.30	23.31	2062	1.3
PDRC080	ARC106748	63	64	0.18	1.27	319.12	5857	1.1
PDRC080	ARC106749	64	65	0.14	0.89	217.40	4035	1.3
PDRC080	ARC106750	65	66	0.18	1.54	157.02	6683	1.2
PDRC080	ARC106751	66	67	0.16	1.35	113.89	6052	1.4
PDRC080	ARC106752	67	68	0.09	0.76	31.43	3660	1.2
PDRC080	ARC106753	68	69	0.26	1.83	91.94	7334	1.2
PDRC080	ARC106754	69	70	0.26	1.90	89.87	7492	1.1
PDRC080	ARC106755	70	71	0.11	1.10	31.41	5513	4.5
PDRC080	ARC106756	71	72	0.06	0.35	84.55	2861	1.2
PDRC080	ARC106757	72	73	0.03	0.24	29.56	1599	1.3
PDRC082	ARC106818	51	52	0.00	0.02	5.14	34	3.8
PDRC082	ARC106819	52	53	0.12	0.38	39.69	3992	1.8
PDRC082	ARC106820	53	54	0.61	3.18	353.67	12700	
PDRC082	ARC106821	54	55	0.52	2.81	524.39	10372	0.7
PDRC082	ARC106822	55	56	0.62	3.39	223.08	13848	
PDRC082	ARC106823	56	57	0.51	2.74	283.37	9985	0.9
PDRC082	ARC106824	57	58	0.31	1.57	119.75	6805	1
PDRC082	ARC106825	58	59	0.11	0.51	90.80	3786	1.3
PDRC082	ARC106826	59	60	0.08	0.45	89.80	3427	1.2
PDRC082	ARC106827	60	61	0.16	0.92	239.21	4162	0.6
PDRC082	ARC106828	61	62	0.21	1.32	169.31	5894	0.9
PDRC082	ARC106829	62	63	0.28	1.90	226.82	7445	0.8
PDRC082	ARC106831	63	64	0.24	1.69	167.93	7114	1.1
PDRC082	ARC106832	64	65	0.07	0.44	54.96	2977	0.9
PDRC082	ARC106834	65	66	0.05	0.38	47.42	2449	4.9
PDRC083	ARC106542	40	41	0.01	0.01	0.29	36	1.8
PDRC083	ARC106543	41	42	0.06	0.21	1.81	2808	0.8
PDRC083	ARC106544	42	43	1.02	0.17	1.17	4381	0.6
PDRC083	ARC106545	43	44	23.38	0.06	0.23	4854	2.3
PDRC083	ARC106546	44	45	23.65	0.07	0.07	4905	2.3
PDRC083	ARC106547	45	46	1.69	0.03		4436	1.8
PDRC083	ARC106548	46	47	21.98	0.11	0.68	4808	4
PDRC083	ARC106549	47	48	26.84	0.09	7.31	4991	3.4
PDRC083	ARC106550	48	49	21.08	0.73	142.29	4781	2.5
PDRC083	ARC106551	49	50	6.81	1.68	95.56	7110	1.4
PDRC083	ARC106552	50	51	11.08	0.34	19.11	4533	1.9
PDRC083	ARC106553	51	52	16.32	0.28	34.24	4713	1.9
PDRC083	ARC106554	52	53	10.40	2.00	274.92	7718	1.1
PDRC083	ARC106555	53	54	13.09	0.29	58.20	4591	2.8
PDRC083	ARC106556	54	55	12.93	0.14	10.27	4535	2.9

Table 2 Selected Assays								
Hole ID	Sample ID	From	To	Cs_2O	Li_2O	Ta_2O_5	Rb	As
				(%)	(ppm)	(%)	(ppm)	(ppm)
PDRC083	ARC106557	55	56	2.46	0.36	39.04	4500	1.1
PDRC083	ARC106558	56	57	0.27	1.05	147.84	5443	1
PDRC083	ARC106559	57	58	0.21	1.39	174.06	6187	0.8
PDRC083	ARC106561	58	59	0.03	0.29	47.46	1247	1.4
PDRC084	ARC106603	37	38	0.10	0.13	6.91	3736	2.2
PDRC084	ARC106604	38	39	0.11	0.71	60.29	3784	2
PDRC084	ARC106605	39	40	0.32	2.87	111.86	10756	0.9
PDRC084	ARC106606	40	41	0.32	2.86	95.06	10751	0.8
PDRC084	ARC106607	41	42	0.25	2.25	290.51	8221	1.2
PDRC084	ARC106608	42	43	0.36	3.08	620.45	12141	0.6
PDRC084	ARC106609	43	44	0.11	0.92	61.68	3863	6.1
PDRC084	ARC106610	44	45	0.00	0.04	2.61	58	8.7
PDRC084	ARC106614	48	49	0.00	0.05	6.15	106	4.4
PDRC084	ARC106615	49	50	0.00	0.02	2.77	12	2.6
PDRC084	ARC106616	50	51	15.39	0.12	12.38	4669	2.9
PDRC084	ARC106617	51	52	13.47	0.70	89.13	4597	1.5
PDRC084	ARC106618	52	53	16.20	0.95	93.34	4682	1.6
PDRC084	ARC106619	53	54	13.04	0.32	38.48	4582	2
PDRC084	ARC106620	54	55	0.48	0.13	26.01	4333	1.4
PDRC085	ARC106864	45	46	0.00	0.02	2.06	7	5.7
PDRC085	ARC106865	46	47	0.00	0.17	1.28	67	3
PDRC085	ARC106867	47	48	0.41	2.80	197.99	10219	1.2
PDRC085	ARC106868	48	49	0.02	4.26	20.09	15072	2.1
PDRC085	ARC106869	49	50	0.01	4.28	2.15	15469	1.4
PDRC085	ARC106870	50	51	0.08	2.40	15.51	9018	1.2
PDRC085	ARC106871	51	52	0.01	4.42	4.64	15484	3
PDRC085	ARC106872	52	53	0.03	3.80	15.70	14223	3.2
PDRC085	ARC106873	53	56	0.04	0.70	60.69		0.7
PDRC088	ARC106959	30	33	0.05	0.02	0.90	2537	1.1
PDRC088	ARC106961	33	36	0.11	1.08	49.64	5454	0.9
PDRC088	ARC106962	36	39	0.13	1.39	370.04	6219	0.7
PDRC088	ARC106963	39	40	0.02	0.81	94.18	1030	0.7

Notes:

- *Selected Assay results derived from chemical analysis by Intertek-Genalysis The elemental assay results have been calculated to oxide concentrations by multiplying Li by 2.153 to derive Li_2O, Ta by 1.221 to derive Ta_2O_5 and Cs by 1.06 to derive Cs_2O.*
- *Intersections noted are 'down-hole' and do not necessarily represent a true width.*

Section 1 - Sampling Techniques and Data

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

Pioneer Dome Project, Sinclair Caesium Prospect.

Criteria	JORC Code explanation	Commentary
Sampling techniques	*Nature and quality of sampling (eg cut Faces, 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.*	• Reverse circulation (RC) and • HQ Core samples from holes drilled from surface.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	• Industry-standard reverse circulation drilling, using a face-sampling hammer with a booster and auxiliary compressors used to ensure dry samples. • Duplicate samples and Certified Reference Standards were inserted at regular intervals to provide assay quality checks. The standards and duplicates reported within acceptable limits. • Industry-standard HQ2 diamond core drilling using a diamond-set cutting bit. • Certified Reference Standards were inserted at regular intervals to provide assay quality checks. The standards reported within acceptable limits. • Samples are considered 'fit for purpose', being to detect anomalous metal element occurrences.
	Aspects of the determination of mineralisation that are Material to the Public Report. *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	• Reverse circulation drilling was used to obtain 1 m samples or 3m composite samples of approximately 3.5 kg which are delivered to the laboratory. Following preparation by grinding, a subsample is taken, the size of which is determined by the analytical process or concentration of metal elements. • Half core samples of lengths determined by geology vary in weight. • The analytical process for a package of elements specific for exploring LCT pegmatites included digestion by a four acid digestion with a Mass Spectrometer (MS) determination (Intertek analysis code 4A Li48-MS). Over range samples were re analysed by a sodium peroxide zirconium crucible fusion.
Drilling techniques	*Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• Reverse Circulation Drilling, 4.5 inch drill string, Face-sampling hammer, Auxiliary and Booster compressors used to exclude ground water. • HQ standard core drilling.

Criteria	JORC Code explanation	Commentary
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	• During drilling the geologist recorded occasions when sample quality is poor, sample return was low, when the sample was wet or compromised in another way.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	• Sample recovery is generally good for RC drilling using the equipment described. • Sample recovery is mostly under the control of the drill operator and is generally influenced by the experience and knowledge of the operator. • Sample recovery for core drilling is usually very high. Core measurements enable core recoveries to be calculated and form part of the QA/QC record.
	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.	• Because the sample recoveries are assumed to be high, any possible relationship between sample recovery and grade has not been investigated.
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.*	• Lithological logs exist for these holes in a database. Fields captured include lithology, mineralogy, sulphide abundance and type, alteration, texture, recovery, weathering and colour.
	Whether logging is qualitative or quantitative in nature. Core (or costean, Face, etc) photography.	• Logging has primarily been qualitative. • Qualitative litho-geochemistry based on pXRF analyses is used to confirm rock types. • A representative sample of each meter is sieved and retained in chip trays for future reference. • XRD analysis of selected pulps retained from the chemical analysis may be undertaken once all chemical assays have been received.
	The total length and percentage of the relevant intersections logged.	• The entire length of the drill holes were geologically logged.
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.*	• All one meter intervals are collected via a cone splitter directly attached to the cyclone when dry. All samples were dry. Individual samples were approximate 3.5kg. The bulk residue was collected via plastic drums and laid out in order on the drill pad. • One metre samples from the 'target zone' were submitted to the laboratory. Three metre composites were collected for the remainder of the drill hole. • The sample collection, splitting and sampling for this style of drilling is considered to be standard industry practise and fit for purpose. • No assays from the Core drilling have been included in this release, however the core was cut with half core sampled with a maximum sample length being

Criteria	JORC Code explanation	Commentary
		100cm and a minimum length being 20cm. From the core drilling only zones considered prospective for lithium or caesium have been sampled.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	• Cyclones are routinely cleaned after each 6m rod. • Geologist looks for evidence of sample contamination, which was recorded where present. • The use of booster and auxiliary compressors ensures samples are dry, which best ensures a quality sample. • The cut core was sampled with the right-hand side of the core always collected for chemical analysis, the orientation line was retained.
	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.	• Standard Reference Material is included at a rate of 1 per 30 samples for all assay submissions. • Duplicate field samples for the RC drilling are routinely inserted at a 1 per 30 samples. • Laboratory quality control samples used and monitored by the laboratory and the company.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	• The sample size is considered appropriate for the style of deposit being sampled.
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.*	• The sample preparation and assay method used is considered to be standard industry practice and is appropriate for the deposit.
	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.	• Pioneer owns a Bruker S1 Titan 800 handheld XRF instrument which is used to provide the geologist with basic, qualitative litho-geochemistry data only. This data is not considered reportable.
	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.	• Standards and laboratory checks have been assessed. Most of the standards show results within acceptable limits of accuracy, with good precision in most cases. Internal laboratory checks indicate very high levels of precision.
Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.* *The use of twinned holes.*	• Significant intersections are calculated and checked by suitably qualified personnel. • No holes have been twinned
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	• Pioneer has a digital SQL drilling database where information is stored. • The Company uses a range of consultants to load and validate data, and appraise quality control samples.

Criteria	JORC Code explanation	Commentary
	Discuss any adjustment to assay data.	• Pioneer has adjusted the lithium (Li), tantalum (Ta) and caesium (Cs) assay results to determine Li2O, Ta2O5 and Cs2O grades. This adjustment is a multiplication of the elemental Li, Ta and Cs assay results by 2.153, 1.221 and 1.06 to determine Li2O, Ta2O5 and Cs2O grades respectively.
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.*	• Collar surveys were initially completed using a hand-held GPS with an accuracy of +-3 metres. The collar locations of the holes have since been surveyed by a licenced surveyor using a differential GPS. The new-collar surveys provide very accurate positions for all holes including the RL of each drill collar.
	Specification of the grid system used.	• MGA94 (Zone 51)
	Quality and adequacy of topographic control.	• Topographic control is by DGPS, carried out by a licensed surveyor.
Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	• Individual drill hole spacing varies. This drill programme was predominantly drilled on a 10x10m grid.
	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.	• There have been insufficient results received to conduct the estimation of a mineral resource. • When all results are received and validated, a decision will be made whether there is sufficient information to establish a mineral resource.
	Whether sample compositing has been applied.	• Yes, for the drill intersection summary at the start of this announcement.
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 strike of the mineralisation is estimated at to be broadly north – south, therefore the angled holes have been usually drilled towards East. Scissor holes have been drilled to confirm the dip of mineralisation. • Down hole intersections are estimated to closely approximately true widths based on the interpretation of the pegmatite bodies and the orientation of the drilling.
Sample security	*The measures taken to ensure sample security.*	• Pioneer uses standard industry practices when collecting, transporting and storing samples for analysis. • Drilling pulps are retained by Pioneer off site.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	• Sampling techniques for assays have not been specifically audited but follow common practice in the Western Australian exploration industry. • The assay data and quality control samples are periodically audited by an independent consultant.

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*	• The drilling reported herein is entirely within E63/1669 which is a granted Exploration Licence. • The tenement is located approximately 40km N of Norseman WA. • Pioneer Resources Limited is the registered holder of the tenement and holds a 100% unencumbered interest in all minerals within the tenement. • The tenement is on vacant crown land. • The Ngadju Native Title Claimant Group has a determined Native Title Claim which covers the Pioneer Dome project.
	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.	• At the time of this Statement E63/1669 is in Good Standing. To the best of the Company's knowledge, other than industry standard permits to operate there are no impediments to Pioneer's operations within the tenement.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	• There has been no previous LCT pegmatite exploration on the Pioneer Dome project. Previous mapping by the Western Australian Geological Survey and Western Mining Corporation (WMC) in the 1970's identified several pegmatite intrusions however these were not systematically explored for Lithium or associated elements.
Geology	*Deposit type, geological setting and style of mineralisation.*	• The Project pegmatites are consistent with records of highly differentiated Lithium Caesium Tantalum (LCT) pegmatite intrusion. This type of pegmatite intrusions are the target intrusions of hard rock lithium deposits.
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, including easting and northing of the drill hole collar, elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar, dip and azimuth of the hole, down hole length and interception depth plus 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.*	• Refer to Appendix 1 of this announcement.
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.*	• Intersections noted are from 1m sample intervals or from three meter composite samples where specifically noted. • Intersections are based on a 0.75% (lower) cut-off for lithium and 10% for caesium with a minimum width of 1m, a maximum of three meters of internal and no external dilution. No metal equivalent values have been used.

Criteria	JORC Code explanation	Commentary
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and intercept lengths	*These relationships are particularly important in the reporting of Exploration Results.* *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	• Downhole lengths are reported in Appendix 1. The current geological interpretation, based on RC drilling and mapping, suggests that the true widths are similar to the down hole widths.
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.*	• Refer to maps in this report.
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.*	• Comprehensive reporting of drill details has been provided in Appendix 1 of this announcement.
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.*	• All meaningful and material exploration data has been reported.
Further work	*The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• Work that is currently underway or remains outstanding includes; • Additional assay results from the completed RC and Diamond drilling • Detailed petrography within the anomalous zones • Selected XRD to determine the mineralogy • Potential additional work includes • Metallurgical testing • Bulk Sample collection (methods are currently being investigated) • Geological modelling • Possible Resource Estimation if remaining assays results are encouraging. • Extensional drilling