

Honeymoon Infill Drilling Campaign Complete - Mineralisation Remains Open at East Kalkaroo Deposit

HIGHLIGHTS

- Honeymoon Infill Drill Program completed ahead of schedule and within budget
- Significant drill intercepts returned from the final tranche of 89 holes shows that mineralisation remains open to the east and northeast of the Mining Lease close to existing Honeymoon plant
- Best intercepts include:

– 5.00m @ 1,284ppm pU ₃ O ₈	GT 6,240	(BIF0066r from 110.50m)
– 3.00m @ 1,713ppm pU ₃ O ₈	GT 5,139	(BIF0155 from 109.00m)
– 7.00m @ 637ppm pU ₃ O ₈	GT 4,459	(BIF0142r from 78.00m)
– 5.75m @ 712ppm pU ₃ O ₈	GT 4,094	(BIF0145 from 77.75m)
– 4.25m @ 954ppm pU ₃ O ₈	GT 4,055	(BIF0153 from 79.25m)
– 3.00m @ 1,100ppm pU ₃ O ₈	GT 3,300	(BIF0152 from 99.75m)
– 3.50m @ 861ppm pU ₃ O ₈	GT 3,014	(BIF0157r from 108.25m)
- Infill drill campaign and reported intercepts all occur on Honeymoon Mining Licence

Boss Resources Limited (ASX: BOE) (“Boss” or “the Company”) is pleased to announce the completion of the infill drilling campaign on its Honeymoon Uranium Mining Licence in South Australia ahead of schedule and within budget. The infill program formed Part A, Phase 1 of the Company’s Honeymoon Re-Start Strategy, as announced to the ASX on 2 July 2018.

Exciting results have been received from the final 89 holes of the infill program at the East Kalkaroo Deposit, approximately 3 kilometres east of the Honeymoon Uranium Mine and processing plant (**Figure 1**). Results of the program suggest that mineralisation remains open to the east and northeast of the Mining Lease, which is a strong indication of potential future growth of the Company’s existing Mineral Resource.

Boss Resources Managing Director Duncan Craib said, “*The initial objectives for the infill drill program were simple - add tonnes and grade to the existing Mineral Resource. The promising drill results received from East Kalkaroo has demonstrated that mineralisation remains open and as such, will be used in the forthcoming resource estimation work. The data also enables us to improve our exploration models for the region and strongly suggest that future exploration programs have the potential to add to the existing Mineral Resource.*”

Honeymoon Infill Drilling Completion

Following the commencement of Boss' Re-Start Strategy at the Honeymoon Uranium Mine, results from the first and second tranches of drilling were announced on 2 August and 27 August 2018, respectively. This announcement provides the drill results from the final 89 holes of the program, with drilling now completed at the East Kalkaroo Deposit, which forms part of the Honeymoon Mineral Resource area, along with the Brooks Dam Deposit and Honeymoon Deposit. The initial infill program was designed to comprise 200 holes, however given the results obtained it was deemed appropriate to cull 11 holes, which further resulted in cost savings for the Company.

East Kalkaroo is located within the existing, fully-permitted Honeymoon Mining Licence and is close to the processing plant infrastructure at the main Honeymoon Uranium Mine. Boss intends to undertake initial wellfield operations during the early years of operation, given no further permitting is required to extract resources within this area which holds an export permit.

Results from the infill program have continued to validate the intercepts reported from historic drilling, while also highlighting that mineralisation remains continuous and open along the strike of the deposit. Significant intercepts returned from Brooks Dam and East Kalkaroo have also shown that mineralisation remains open to the northwest, east and northeast of the current Mineral Resource area.

The next stage of work involves updating the existing Mineral Resource Estimate with leading independent mining experts AMC Consultants. The updated resource will subsequently be used in the updated wellfield design, the results of which will determine the optimal size and shape of a practical mineable resource for the Honeymoon Uranium Mine. The data collected will also be used in a deposit-wide development of a systems-style exploration model that can then be applied more regionally to identify further prospective areas and potentially extend the currently-defined Mineral Resource.

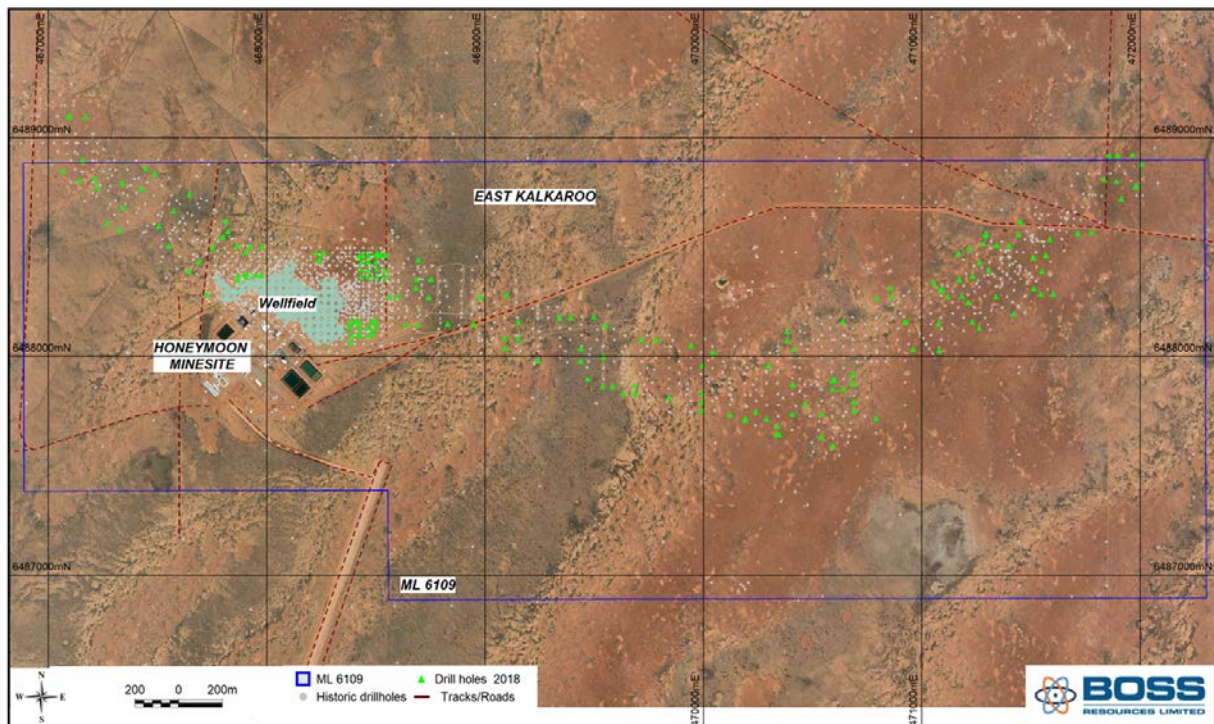


Figure 1: Location map showing all completed holes of the infill drill campaign.

Infill Drilling Results from the final tranche of 89 holes

The main objectives of the infill drilling were to upgrade the existing Honeymoon Mineral Resource Estimate by:

- Converting the Inferred Resources to Indicated category;
- Upgrading a portion of the Indicated Resources to Measured category, with the ultimate purpose of converting Indicated and Measured Resources to Ore Reserves.

The cut-off parameter selected for Mineral Resource Estimation is a nominal grade of 250ppm pU₃O₈, with a minimum interval thickness of 0.5 metres and a maximum internal dilution of 1 metre. Grades are reported in parts per million (ppm) pU₃O₈ (downhole Prompt Fission Neutron (PFN) results) and eU₃O₈ (downhole gamma results). Reporting of results is also shown in units of grade x thickness (GT) in order to be consistent with common practice in uranium deposits of this type.

Table 1 of Appendix 1 provides the full list of significant intersections returned from the final tranche of drilling in the infill drill campaign. Highlights falling within grade expectations and confirming historical interpretation include:

• 5.00m @ 1,284ppm pU ₃ O ₈	GT 6,240	(BIF0066r from 110.50m)
• 3.00m @ 1,713ppm pU ₃ O ₈	GT 5,139	(BIF0155 from 109.00m)
• 7.00m @ 637ppm pU ₃ O ₈	GT 4,459	(BIF0142r from 78.00m)
• 5.75m @ 712ppm pU ₃ O ₈	GT 4,094	(BIF0145 from 77.75m)
• 4.25m @ 954ppm pU ₃ O ₈	GT 4,055	(BIF0153 from 79.25m)
• 3.00m @ 1100ppm pU ₃ O ₈	GT 3,300	(BIF0152 from 99.75m)
• 3.50m @ 861ppm pU ₃ O ₈	GT 3,014	(BIF0157r from 108.25m)
• 3.75m @ 768ppm pU ₃ O ₈	GT 2,880	(BIF0127 from 88.75m)
• 3.75m @ 748ppm pU ₃ O ₈	GT 2,805	(BIF0038r from 88.25m)
• 4.00m @ 611ppm pU ₃ O ₈	GT 2,444	(BIF0117 from 101.00m)
• 3.75m @ 606ppm pU ₃ O ₈	GT 2,273	(BIF0154 from 80.00m)
• 2.50m @ 848ppm pU ₃ O ₈	GT 2,120	(BIF0167 from 99.75m)
• 2.75m @ 736ppm pU ₃ O ₈	GT 2,024	(BIF0135 from 108.25m)

Interpretation of Infill Drill Results

Mineralisation intersected at East Kalkaroo has been identified mostly within the sand and gravel units of the Eyre Formation, as shown on **Figures 3, 4 and 5**, and corresponds well with the boundary between the highly oxidised and highly reduced lithologies (i.e. the “redox” zone). The observations made during drilling have subsequently confirmed continuity and consistency with mineralisation intersected by the historic drilling within East Kalkaroo.

Data collection from each rotary mud hole has comprised the full suite of downhole geophysical tools consisting of gamma, prompt fission neutron (PFN), nuclear magnetic resonance (NMR), resistivity/induction, self-potential conductivity, caliper and magnetic deviation. Drill chip samples collected and logged for geological information were analysed with a handheld XRF (x-ray fluorescence) spectrometer for qualitative measurements of sulphide and iron content, in order to better understand the distribution of sulphides in the system that may impact on the design of the wellfield. The various datasets compiled from the different suites has created the most advanced modelling set to date for mineral delineation at Honeymoon and will prove invaluable in optimising the engineering component of the next stage of the Definitive Feasibility Studies.

Figure 2 illustrates a plan view of the grade thickness distribution (grade multiplied by thickness) from the completed infill drilling at the East Karkaroo Deposit. Historic drilling has also been plotted to show the position of the new drilling relative to those parts of the channel system that have already been delineated. Black lines **A – A'** and **B – B'** represent reference lines for **Figures 3** and **4**, which show cross-sectional views across East Karkaroo. Line **C – C'** represents the long-section view shown in **Figure 5** through the easternmost part of the East Karkaroo Deposit, illustrating the continuity and consistency of mineralisation along the strike of the deposit. The red lenses represent the uranium mineralisation as interpreted from the combination of historic and recent drilling, while the red dashed lines at either end of each section indicate that the mineralisation remains open in both directions.

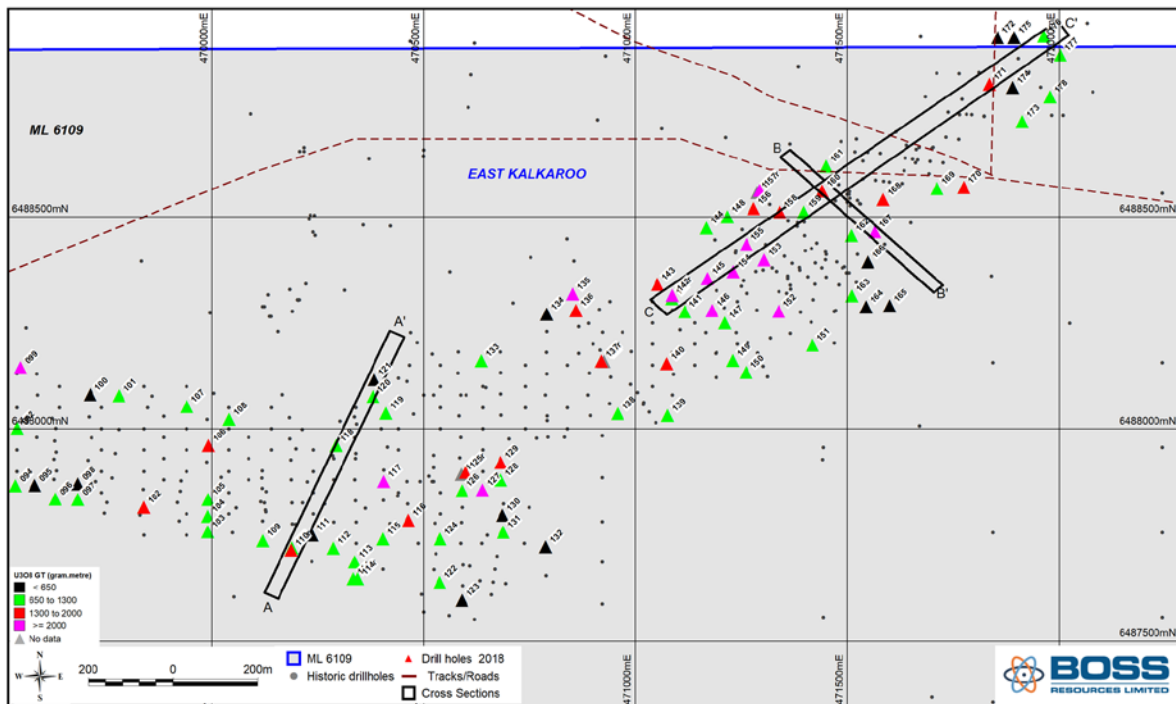


Figure 2: Plan view of completed infill drilling, showing grade x thickness (GT) distribution.

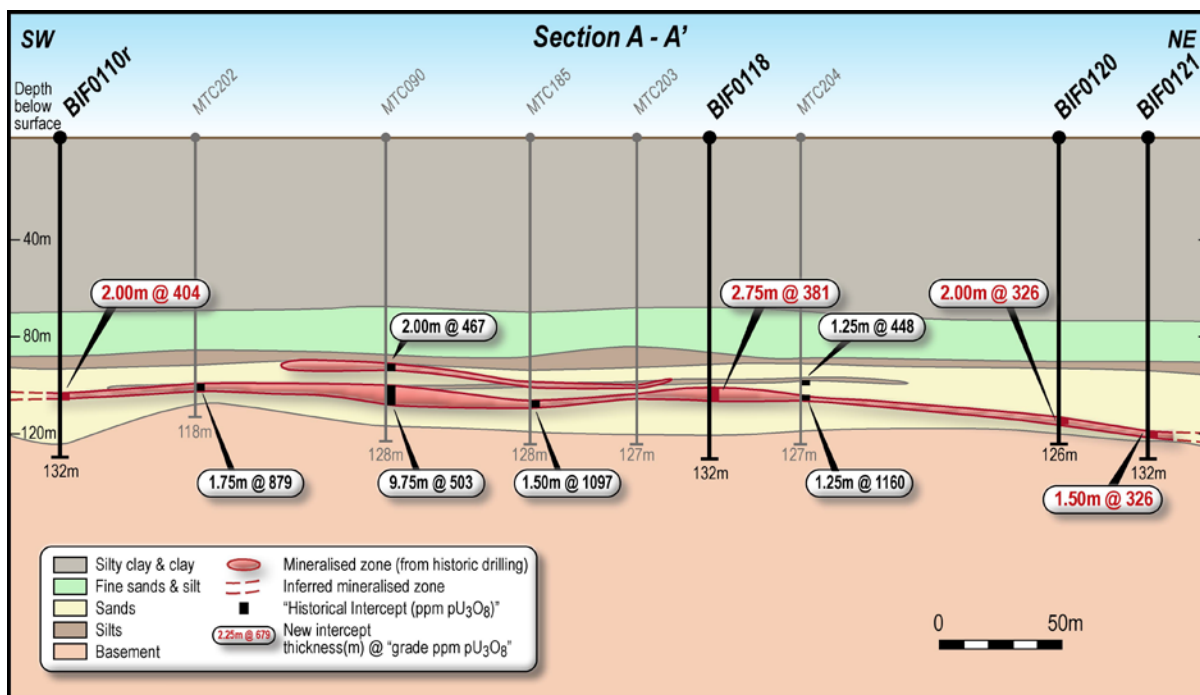


Figure 3: Cross section A – A', East Kalkaroo Deposit, showing mineralisation (red) as interpreted from both historic and recent drilling. Section shows continuity and consistency of grade and thickness, as well as open mineralisation at both northeastern and southwestern edges. Results are shown as grade (ppm eU3O8 or pU3O8 / thickness in metres where available).

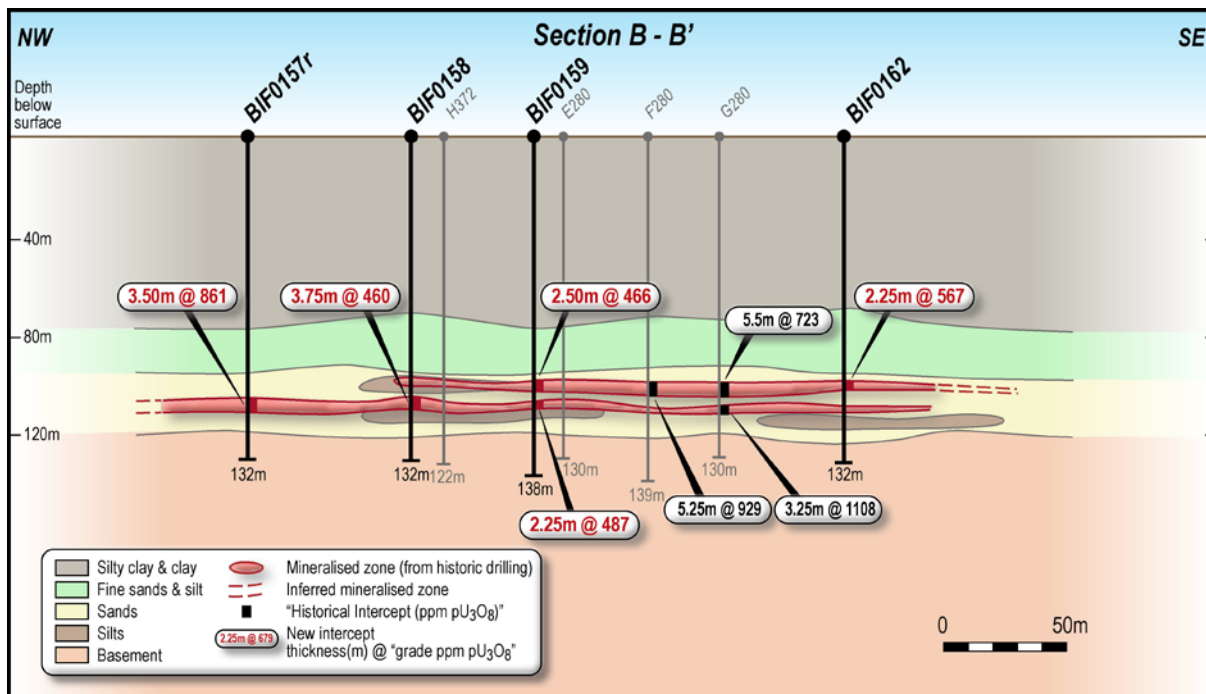


Figure 4: Section B – B', East Kalkaroo Deposit, showing grade continuity between recent and historical drilling, as well as open mineralisation to the northwest and southeast. Results are shown as grade (ppm eU3O8 or pU3O8 / thickness in metres where available).

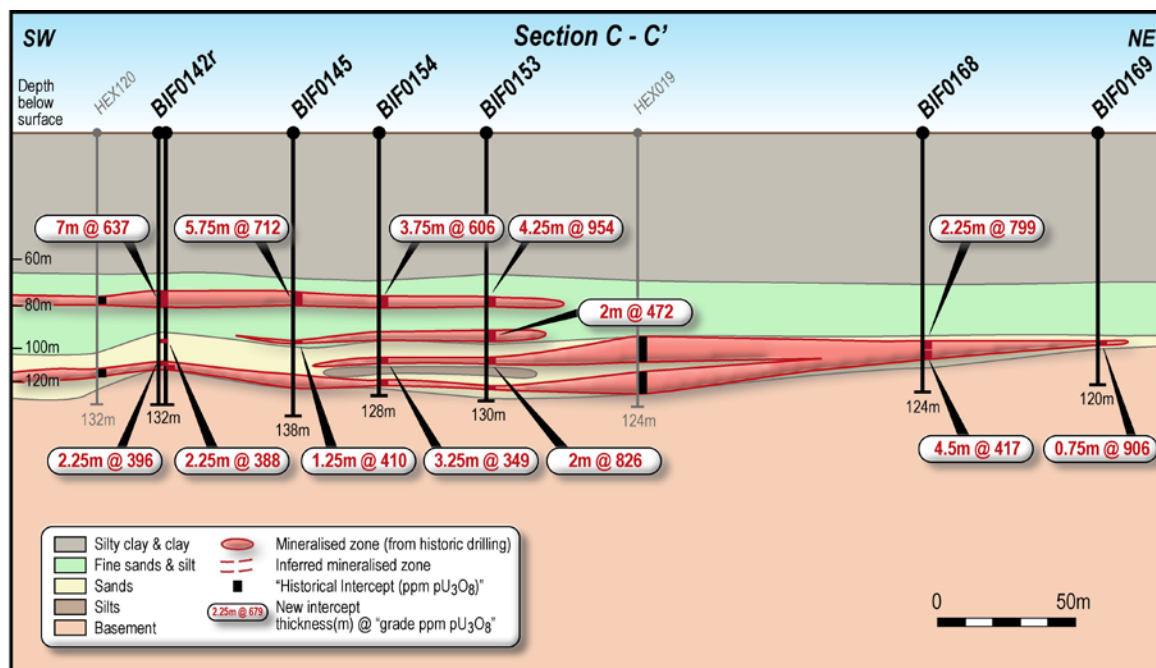


Figure 5: Section C – C', East Kalkaroo Deposit, showing long section through the easternmost part of the Inferred Resource. Continuity and consistency in grade and thickness are shown, and mineralisation remains open to the east and northeast of the ML. Results are shown as grade (ppm eU₃O₈ or pU₃O₈ / thickness in metres where available).

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Competent Persons' Statements

The information in this report that relates to Exploration Results for the Honeymoon Project is based on and fairly represents information compiled by Dr M. Abzalov, who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). He has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). Dr M. Abzalov serves on the Technical Committee of Boss Resources Ltd. Dr M. Abzalov consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

APPENDIX 1

Drilling Results Tables

In accordance with ASX Listing Rule 5.7.2, the Company provides the following information.

Table 1: Recent Drilling – Summary Results from 2018 Mud Rotary Drilling

Summarised above a nominal 50cm minimum thickness, 1m internal dilution & above 250ppm pU₃O₈¹

Hole #	Easting	Northing	RL	EOH	Dip	Az	From	Length	eU ₃ O ₈ ²ppm	pU ₃ O ₈ ¹ppm
BIF0021r	468233	6488443	122	126	-90	0	96.25	2.25	436	642
BIF0021r	468233	6488443	122	126	-90	0	102.5	2.25	429	574
BIF0021r	468233	6488443	122	126	-90	0	105	2.25	747	584
BIF0021r	468233	6488443	122	126	-90	0	117.5	1.75	285	510
BIF0038r	467093	6489102	122	126	-90	0	88.25	3.75	526	748
BIF0038r	467093	6489102	122	126	-90	0	103	2.5	411	477
BIF0038r	467093	6489102	122	126	-90	0	106	3.75	419	680
BIF0046r	468502	6488480	122	126	-90	0	117	0.5	250	344
BIF0054r	468419	6488461	122	126	-90	0	113.25	0.5	276	237
BIF0054r	468419	6488461	122	126	-90	0	115.25	3	662	551
BIF0066r	468420	6488106	122	126	-90	0	110.5	5	1063	1284
BIF0101	469781	6488079	122	126	-90	0	108.25	2	660	352
BIF0101	469781	6488079	122	126	-90	0	117.5	2	371	263
BIF0102	469839	6487815	122	126	-90	0	88.5	0.75	273	712
BIF0102	469839	6487815	122	126	-90	0	93.25	0.5	269	333
BIF0102	469839	6487815	122	126	-90	0	103.75	2	726	675
BIF0102	469839	6487815	122	126	-90	0	107.5	1.5	297	305
BIF0103	469990	6487758	122	126	-90	0	89.25	1.5	255	266
BIF0103	469990	6487758	122	126	-90	0	96.75	1.5	375	642
BIF0104	469990	6487794	122	126	-90	0	95	0.75	269	393
BIF0104	469990	6487794	122	126	-90	0	105.25	1.5	671	510
BIF0104	469990	6487794	122	126	-90	0	110	0.5	342	294
BIF0105	469991	6487834	122	126	-90	0	81.5	0.75	262	282
BIF0105	469991	6487834	122	126	-90	0	83.5	2	380	299
BIF0105	469991	6487834	122	126	-90	0	103.75	2	637	521
BIF0105	469991	6487834	122	126	-90	0	109.25	2	450	368
BIF0106	469992	6487961	122	126	-90	0	108.75	1.5	916	889
BIF0107	469941	6488053	122	132	-90	0	103	1.5	279	253
BIF0107	469941	6488053	122	132	-90	0	107.5	1.5	614	428
BIF0107	469941	6488053	122	132	-90	0	122.75	1.25	250	252
BIF0108	470041	6488023	122	126	-90	0	109.75	1.75	545	462
BIF0109	470120	6487737	122	126	-90	0	105.75	1.75	613	515
BIF0110	470189	6487720	122	132	-90	0	89.75	0.5	315	
BIF0110	470189	6487720	122	132	-90	0	95.75	1.25	265	
BIF0110	470189	6487720	122	132	-90	0	98.25	1.25	280	
BIF0110	470189	6487720	122	132	-90	0	104.5	2	404	
BIF0110r	470187	6487715	122	132	-90	0	105	3	385	547
BIF0111	470237	6487750	122	126	-90	0	93.75	1.5	304	277
BIF0111	470237	6487750	122	126	-90	0	105.75	1.5	389	281
BIF0111	470237	6487750	122	126	-90	0	113	0.75	263	252
BIF0112	470286	6487719	122	126	-90	0	97.5	1.5	354	359
BIF0112	470286	6487719	122	126	-90	0	104.75	1.75	651	492
BIF0112	470286	6487719	122	126	-90	0	110	0.5	491	276
BIF0113	470337	6487687	122	120	-90	0	98	2.25	363	499
BIF0113	470337	6487687	122	120	-90	0	103.25	1.75	576	405
BIF0113	470337	6487687	122	120	-90	0	108.5	1.5	420	329
BIF0114	470334	6487647	122	132	-90	0	105.25	2.5	306	
BIF0114r	470344	6487647	122	132	-90	0	105	2.5	395	458
BIF0114r	470344	6487647	122	132	-90	0	111	0.5	269	416
BIF0115	470404	6487741	122	132	-90	0	95.75	1.5	263	399
BIF0115	470404	6487741	122	132	-90	0	101.5	2	429	382

Hole #	Easting	Northing	RL	EOH	Dip	Az	From	Length	eU ₃ O ₈ ppm	pU ₃ O ₈ ppm
BIF0115	470404	6487741	122	132	-90	0	109.25	2	431	437
BIF0116	470464	6487785	122	132	-90	0	94.75	1	262	256
BIF0116	470464	6487785	122	132	-90	0	96	1.5	330	672
BIF0116	470464	6487785	122	132	-90	0	97.75	1.5	272	297
BIF0116	470464	6487785	122	132	-90	0	99.75	3.5	598	500
BIF0116	470464	6487785	122	132	-90	0	104.5	2.25	301	297
BIF0116	470464	6487785	122	132	-90	0	109.5	1.75	693	429
BIF0117	470406	6487876	122	138	-90	0	94.75	1.5	309	352
BIF0117	470406	6487876	122	138	-90	0	101	4	512	611
BIF0117	470406	6487876	122	138	-90	0	106.25	0.5	252	914
BIF0117	470406	6487876	122	138	-90	0	108	2	551	526
BIF0118	470293	6487961	122	132	-90	0	91.5	1.75	287	361
BIF0118	470293	6487961	122	132	-90	0	100.75	2.75	366	381
BIF0118	470293	6487961	122	132	-90	0	108	1.75	658	583
BIF0119	470411	6488037	122	126	-90	0	100.5	1.5	473	388
BIF0119	470411	6488037	122	126	-90	0	108.75	1.75	611	422
BIF0119	470411	6488037	122	126	-90	0	114	1	266	262
BIF0120	470380	6488077	122	126	-90	0	112.75	1.5	420	369
BIF0120	470380	6488077	122	126	-90	0	116.75	2	293	326
BIF0121	470383	6488117	122	132	-90	0	80.75	1.5	368	286
BIF0121	470383	6488117	122	132	-90	0	120.25	1.5	240	326
BIF0121	470383	6488117	122	132	-90	0	122	0.5	208	268
BIF0122	470538	6487638	122	132	-90	0	106.5	2	256	252
BIF0122	470538	6487638	122	132	-90	0	116	1.75	366	296
BIF0123	470590	6487596	122	138	-90	0	No significant assays			
BIF0124	470539	6487741	122	138	-90	0	101	2	612	551
BIF0124	470539	6487741	122	138	-90	0	109.5	2	628	394
BIF0124	470539	6487741	122	138	-90	0	111.75	1.5	614	594
BIF0125	470589	6487893	122	126	-90	0	Not logged - blocked			
BIF0125r	470599	6487898	122	126	-90	0	100.25	2.5	391	519
BIF0125r	470599	6487898	122	126	-90	0	105	1.75	211	298
BIF0125r	470599	6487898	122	126	-90	0	109.25	2.25	738	698
BIF0125r	470599	6487898	122	126	-90	0	111.75	2.25	279	291
BIF0126	470590	6487854	122	132	-90	0	100.25	2	309	
BIF0126	470590	6487854	122	132	-90	0	102.5	1.75	418	
BIF0126	470590	6487854	122	132	-90	0	107.75	0.5	263	
BIF0126	470590	6487854	122	132	-90	0	108.25	1.75	458	
BIF0126	470590	6487854	122	132	-90	0	110.5	1	269	
BIF0126	470590	6487854	122	132	-90	0	113	0.75	260	
BIF0127	470639	6487856	122	132	-90	0	82.75	2	301	300
BIF0127	470639	6487856	122	132	-90	0	86.75	1	278	296
BIF0127	470639	6487856	122	132	-90	0	88.75	3.75	387	768
BIF0127	470639	6487856	122	132	-90	0	109.75	1.25	271	276
BIF0127	470639	6487856	122	132	-90	0	115.25	1.75	327	312
BIF0128	470682	6487880	122	126	-90	0	102	0.75	250	262
BIF0128	470682	6487880	122	126	-90	0	111	2.25	320	430
BIF0128	470682	6487880	122	126	-90	0	114.5	1.25	274	264
BIF0129	470682	6487921	122	120	-90	0	97.5	0.75	299	278
BIF0129	470682	6487921	122	120	-90	0	98.25	1.75	204	436
BIF0129	470682	6487921	122	120	-90	0	100.25	2.75	611	675
BIF0129	470682	6487921	122	120	-90	0	109	2	493	460
BIF0130	470686	6487797	122	126	-90	0	103.5	0.75	250	283
BIF0131	470688	6487757	122	126	-90	0	88	1.25	258	742
BIF0131	470688	6487757	122	126	-90	0	105	0.5	276	344
BIF0131	470688	6487757	122	126	-90	0	110.25	1.5	304	270
BIF0132	470788	6487722	122	126	-90	0	102	1.5	266	301
BIF0133	470636	6488161	122	130	-90	0	88	1	275	394
BIF0133	470636	6488161	122	130	-90	0	97	1.5	334	365
BIF0133	470636	6488161	122	130	-90	0	106.75	1	305	259
BIF0133	470636	6488161	122	130	-90	0	115	0.75	293	277
BIF0134	470790	6488271	122	132	-90	0	82	1.5	284	292
BIF0134	470790	6488271	122	132	-90	0	112.25	0.5	245	262

Hole #	Easting	Northing	RL	EOH	Dip	Az	From	Length	eU ₃ O ₈ ppm	pU ₃ O ₈ ppm
BIF0134	470790	6488271	122	132	-90	0	124.5	0.75	286	259
BIF0135	470852	6488318	122	120	-90	0	108.25	2.75	836	736
BIF0135	470852	6488318	122	120	-90	0	111.5	1.75	603	832
BIF0136	470860	6488279	122	132	-90	0	82.5	1.5	262	315
BIF0136	470860	6488279	122	132	-90	0	95.25	0.5	258	385
BIF0136	470860	6488279	122	132	-90	0	108	1.75	301	210
BIF0136	470860	6488279	122	132	-90	0	118.25	2.5	769	587
BIF0137	470926	6488159	122	102	-90	0	Not logged - blocked			
BIF0137r	470920	6488160	122	132	-90	0	95.5	1.25	281	411
BIF0137r	470920	6488160	122	132	-90	0	105	2.5	375	625
BIF0137r	470920	6488160	122	132	-90	0	108.75	2	367	399
BIF0138	470958	6488036	122	132	-90	0	81.75	0.5	258	364
BIF0138	470958	6488036	122	132	-90	0	84.75	2	320	646
BIF0138	470958	6488036	122	132	-90	0	101.75	1.75	487	522
BIF0139	471076	6488032	122	132	-90	0	79.75	2	229	391
BIF0139	471076	6488032	122	132	-90	0	101.75	0.5	365	255
BIF0140	471074	6488154	122	132	-90	0	84	0.75	274	444
BIF0140	471074	6488154	122	132	-90	0	101.75	3.25	379	440
BIF0140	471074	6488154	122	132	-90	0	101.75	2.5	443	500
BIF0140	471074	6488154	122	132	-90	0	110.75	2.25	332	324
BIF0140	471074	6488154	122	132	-90	0	124.25	1	252	328
BIF0141	471116	6488277	122	132	-90	0	115.25	1.75	587	593
BIF0141	471116	6488277	122	132	-90	0	117.75	0.5	222	289
BIF0141	471116	6488277	122	132	-90	0	120	1.5	562	355
BIF0142	471086	6488307	122	132	-90	0	96.25	0.5	289	
BIF0142	471086	6488307	122	132	-90	0	111	2	628	
BIF0142r	471087	6488315	122	132	-90	0	78	7	311	637
BIF0142r	471087	6488315	122	132	-90	0	100.5	2.25	298	388
BIF0142r	471087	6488315	122	132	-90	0	112.75	2.25	332	396
BIF0143	471052	6488341	122	132	-90	0	99.75	3	263	341
BIF0143	471052	6488341	122	132	-90	0	113.25	2.25	953	806
BIF0143	471052	6488341	122	132	-90	0	117	0.5	233	270
BIF0144	471167	6488474	122	126	-90	0	94	0.75	268	315
BIF0144	471167	6488474	122	126	-90	0	117.5	1.75	424	362
BIF0144	471167	6488474	122	126	-90	0	121.25	1.5	257	275
BIF0145	471170	6488355	122	138	-90	0	77.75	5.75	339	712
BIF0145	471170	6488355	122	138	-90	0	97.75	0.75	290	255
BIF0145	471170	6488355	122	138	-90	0	101.5	1.25	333	410
BIF0145	471170	6488355	122	138	-90	0	117	0.5	271	248
BIF0145	471170	6488355	122	138	-90	0	122.75	0.75	265	396
BIF0146	471181	6488279	122	132	-90	0	81.75	4	391	963
BIF0146	471181	6488279	122	132	-90	0	103.25	1.5	280	291
BIF0146	471181	6488279	122	132	-90	0	109.5	2	429	438
BIF0146	471181	6488279	122	132	-90	0	118.5	1.5	224	270
BIF0147	471211	6488251	122	132	-90	0	103.25	2	297	400
BIF0147	471211	6488251	122	132	-90	0	109.75	2	455	494
BIF0148	471217	6488500	122	132	-90	0	92.25	1.75	284	275
BIF0148	471217	6488500	122	132	-90	0	112	2.25	383	342
BIF0148	471217	6488500	122	132	-90	0	117	1.5	257	256
BIF0149	471230	6488162	122	132	-90	0	103	2	547	531
BIF0149	471230	6488162	122	132	-90	0	105.75	2.75	263	428
BIF0150	471261	6488134	122	132	-90	0	102.25	3	273	364
BIF0151	471418	6488198	122	130	-90	0	104.5	1.75	823	562
BIF0151	471418	6488198	122	130	-90	0	109	0.5	263	367
BIF0152	471338	6488278	122	130	-90	0	82	3.5	405	756
BIF0152	471338	6488278	122	130	-90	0	85.5	4.5	487	653
BIF0152	471338	6488278	122	130	-90	0	99.75	3	648	1100
BIF0152	471338	6488278	122	130	-90	0	109.25	0.75	232	259
BIF0153	471303	6488399	122	130	-90	0	79.25	4.25	374	954
BIF0153	471303	6488399	122	130	-90	0	96	2.75	238	383
BIF0153	471303	6488399	122	130	-90	0	98.75	2	411	472
BIF0153	471303	6488399	122	130	-90	0	102.75	0.75	279	441

Hole #	Easting	Northing	RL	EOH	Dip	Az	From	Length	eU ₃ O ₈ ppm	pU ₃ O ₈ ppm
BIF0153	471303	6488399	122	130	-90	0	109.75	2	721	826
BIF0153	471303	6488399	122	130	-90	0	121.5	1.75	228	543
BIF0154	471231	6488371	122	128	-90	0	80	3.75	278	606
BIF0154	471231	6488371	122	128	-90	0	98	1	268	295
BIF0154	471231	6488371	122	128	-90	0	109.5	3.25	264	349
BIF0154	471231	6488371	122	128	-90	0	119.75	1.25	218	258
BIF0155	471262	6488435	122	132	-90	0	109	3	1024	1713
BIF0156	471279	6488520	122	138	-90	0	91.25	0.75	292	375
BIF0156	471279	6488520	122	138	-90	0	108.75	2.25	405	600
BIF0156	471279	6488520	122	138	-90	0	120.25	1.5	285	502
BIF0157	471287	6488558	122	2	-90	0	Not logged - blocked			
BIF0157r	471293	6488563	122	132	-90	0	108.25	3.5	606	861
BIF0157r	471293	6488563	122	132	-90	0	115.25	1.75	346	445
BIF0158	471341	6488512	122	132	-90	0	78.5	1.5	252	603
BIF0158	471341	6488512	122	132	-90	0	98	1.25	274	275
BIF0158	471341	6488512	122	132	-90	0	100.25	0.75	258	391
BIF0158	471341	6488512	122	132	-90	0	106.75	3.75	480	460
BIF0158	471341	6488512	122	132	-90	0	118	0.5	258	398
BIF0159	471397	6488511	122	138	-90	0	80.25	1.5	222	290
BIF0159	471397	6488511	122	138	-90	0	92.5	2	229	404
BIF0159	471397	6488511	122	138	-90	0	98.25	2.5	406	466
BIF0159	471397	6488511	122	138	-90	0	106.75	2.25	435	487
BIF0159	471397	6488511	122	138	-90	0	115.75	1.75	272	272
BIF0159	471397	6488511	122	138	-90	0	120.25	1	267	327
BIF0160	471441	6488561	122	130	-90	0	81.25	1	257	310
BIF0160	471441	6488561	122	130	-90	0	89.25	1.5	323	408
BIF0160	471441	6488561	122	130	-90	0	106.25	2.5	604	771
BIF0160	471441	6488561	122	130	-90	0	110.5	2	874	951
BIF0160	471441	6488561	122	130	-90	0	123.25	2.25	250	321
BIF0161	471450	6488620	122	130	-90	0	75.25	0.5	218	272
BIF0161	471450	6488620	122	130	-90	0	115.5	3	474	341
BIF0161	471450	6488620	122	130	-90	0	112.75	2.75	272	374
BIF0161	471450	6488620	122	130	-90	0	115.5	2.25	626	413
BIF0161	471450	6488620	122	130	-90	0	119.75	2	371	627
BIF0162	471510	6488456	122	132	-90	0	98.75	2.25	418	567
BIF0162	471510	6488456	122	132	-90	0	110	2	293	491
BIF0163	471511	6488314	122	128	-90	0	82.5	1.75	211	304
BIF0163	471511	6488314	122	128	-90	0	88	1.25	263	269
BIF0164	471544	6488288	122	126	-90	0	85.25	0.5	286	354
BIF0164	471544	6488288	122	126	-90	0	99.25	1	265	376
BIF0165	471600	6488290	122	126	-90	0	82.5	0.75	287	501
BIF0165	471600	6488290	122	126	-90	0	100.75	1.25	277	383
BIF0166	471548	6488394	122	124	-90	0	96	1.5	215	252
BIF0166	471548	6488394	122	124	-90	0	99.25	0.75	294	337
BIF0167	471565	6488466	122	120	-90	0	94.75	1	261	444
BIF0167	471565	6488466	122	120	-90	0	99.75	2.5	469	848
BIF0167	471565	6488466	122	120	-90	0	106.75	2	338	337
BIF0168	471585	6488541	122	124	-90	0	98.5	1.75	344	473
BIF0168	471585	6488541	122	124	-90	0	100.5	2.25	662	799
BIF0168	471585	6488541	122	124	-90	0	103.5	4.5	568	417
BIF0168	471585	6488541	122	124	-90	0	108.75	1.75	240	355
BIF0169	471712	6488567	122	120	-90	0	99.5	0.75	286	906
BIF0170	471775	6488570	122	126	-90	0	97.75	2	367	651
BIF0171	471835	6488813	122	126	-90	0	117.25	2.5	718	621
BIF0172	471855	6488923	122	124	-90	0	No significant assays			
BIF0173	471912	6488725	122	126	-90	0	80	0.75	218	268
BIF0173	471912	6488725	122	126	-90	0	99.25	1.75	211	518
BIF0173	471912	6488725	122	126	-90	0	101.5	2.25	371	445
BIF0174	471890	6488805	122	126	-90	0	103.25	1.5	243	293
BIF0175	471894	6488923	122	134	-90	0	No significant assays			
BIF0176	471964	6488926	122	132	-90	0	119.25	1.75	481	309
BIF0177	472003	6488882	122	126	-90	0	104.75	1.75	416	460

Hole #	Easting	Northing	RL	EOH	Dip	Az	From	Length	eU ₃ O ₈ ppm	pU ₃ O ₈ ppm
BIF0178	471978	6488783	122	128	-90	0	102.25	2	522	595
¹ – pU ₃ O ₈ grade data derived from Boss's Prompt Fission Neutron Tools (PFN). These have been calibrated to the groundwater and the sedimentary conditions at the Honeymoon Minesite. ² – eU ₃ O ₈ grade data derived from natural gamma downhole tool calibrated and operated by Boss Resources. No top cuts applied. Locations recorded in MGA94 Zone 54										

APPENDIX 2 - JORC TABLES

JORC Table 1: Section 1 Sampling Techniques and Data

Criteria of JORC Code 2012	Reference to the Current Report
	Comments / Findings
<i>Sampling techniques</i>	<p>Boss is utilising its own PFN tools to obtain pU_3O_8 grades which, when properly calibrated, reduce the effect of radioactive disequilibrium. In-hole radiometric uranium grade data was also determined by Wireline Services with eU_3O_8 determined from the down-hole natural gamma-logs and pU_3O_8. All tools were maintained by specialised electronic companies and technicians based in Adelaide and Perth.</p> <p>Calibration for the PFN tool was regularly undertaken using in-house calibration pits available at the Honeymoon Project and for the gamma tools externally, at the certified calibration facilities at Glenside, Conyngham St, Adelaide. Standard industry procedures were used for geophysical logging of the drill holes and estimation from the geophysical logs for the eU_3O_8 (from the gamma-ray logs) and pU_3O_8 (from the PFN instruments) grades.</p>
<i>Drilling techniques</i>	The holes were drilled by Watsons Drilling using the mud rotary method. The typical hole diameter is 14.5cm.
<i>Drill sample recovery</i>	Not applicable. Caliper readings indicate that hole size diameters are predominantly consistent.
<i>Logging</i>	Chip samples are collected every 2m and piles are photographed and geologically logged. Documentation has included colour, grain size, texture, sorting, alteration and oxidation state. All mineralised intervals were geologically logged with logging standards compliant with the industry standards.
<i>Sub-sampling techniques and sample preparation</i>	QA/QC of the geophysical data has included systematic control of the depth logged and control of the recorded U_3O_8 grade values. Geophysical tools estimate uranium content at large volumes, approximately 25 to 40 cm radius. The volume is sufficiently large allowing accurate measure of the grade.
<i>Quality of assay data and laboratory tests</i>	<p>Company Geophysical tools used to collect data include:</p> <ul style="list-style-type: none"> • Auslog Gamma (with Guard) S422 • Prompt Fission Neutron tool PFN#27 • Prompt Fission Neutron tool PFN#32 • Prompt Fission Neutron tool PFN#8 • Gamma combined with guard S058 • Auslog 3 arm calliper A326 <p>Wireline Services tools used to collect data include: Natural gamma, Induction, SP, Density, Neutron Porosity, Resistivity, Magnetic Resonance, deviation and 3 arm calliper</p> <p>Holes were logged in down and up directions, which provided a good control of logging consistency. All geophysical tools were regularly calibrated, using in-house facilities and the certified laboratories in Adelaide.</p> <p>QA/QC of the geophysical data has included systematic control of the depth logged and control of the recorded eU_3O_8 grade values.</p> <p>The winches in the logging truck have their depth calibration checked periodically.</p>
<i>Verification of sampling and assaying</i>	The gamma-log data were additionally validated against the PFN logs. PFN grade data was only reported where there was a good correlation between PFN and gamma anomalies; and where PFN tool readings were considered to be robust.

<i>Location of data points</i>	<ul style="list-style-type: none"> Positions are set out using a Garmin handheld GPS and recorded after drilling. The projection adopted for surveying is GDA 94, MGA zone 54 with AHD elevation. All surveys were tied to the existing registered base stations. Topographic control was improved by Aerometrx Pty. Ltd flying 10cm pixel aerial photography which was rectified using registered survey points installed at site before plant construction began.
<i>Data spacing and distribution</i>	Drill spacing is approximately 40m x 80m. Uranium grade is composited to 0.25cm to aid in interpretation.
<i>Orientation of data in relation to geological structure</i>	All holes are drilled vertically which provides an accurate intersection of the flat laying mineralised bodies.
<i>Sample security</i>	N/A
<i>Audits or reviews</i>	N/A

JORC Table 1: Section 2 Reporting of Exploration Results

Criteria of JORC Code 2012	Reference to the Current Report
	Comments / Findings
<i>Mineral tenement and land tenure status</i>	<p>The Project consists of 1 granted Mining Lease, 5 granted Exploration Licenses, 3 Retention Leases and 2 Miscellaneous Purpose Licenses.</p> <p>The Mining license expires in 2023, exploration licenses expire in 2019 (except EL 5623 which expires in 2018).</p>
<i>Exploration done by other parties</i>	<p>The Honeymoon deposit and surrounding areas of the Yarramba palaeochannel have been intensely explored and systematically drilled starting from 1969.</p> <p>The Honeymoon Project was evaluated several times, with the degree of details varying from scoping studies to bankable feasibility undertaken in 2006. Resource estimates have been made from 1998 to 2016.</p>
<i>Geology</i>	Palaeochannel type sandstone hosted uranium roll and tabular style.
<i>Drill hole Information</i>	See previously exploration announcements and drillhole collar diagrams. The topography in this region is predominantly flat. All holes were drilled vertically with an average hole length of approximately 120m.
<i>Data aggregation methods</i>	Mineralised intervals were chosen based upon a nominal 250ppm U ₃ O ₈ cutoff and over 50cm for reporting. Consideration was given to mineralisation defined by a combination of PFN eU ₃ O ₈ and natural gamma eU ₃ O ₈ co-existent intervals.

<i>Relationship between mineralisation widths and intercept lengths</i>	<p>Drill traverses are oriented at right angle across the domain strike.</p> <p>Holes are drilled vertically down. All holes have been down-hole surveyed with only minimal deviation identified (e.g. <2m over 100m).</p>
<i>Diagrams</i>	<p>Appropriate and relevant diagrams have been included in the announcement. The following diagram illustrates currently drilled holes.</p>
<i>Balanced reporting</i>	<p>Balanced reporting has been adhered to. See previous exploration announcements.</p>
<i>Other substantive exploration data</i>	<p>Mineralisation is still open along the strike of the domain.</p>
<i>Further work</i>	<p>Sonic holes will be planned to enable a fuller understanding of practical disequilibrium and sedimentological conditions within the deposit. Chemical analysis of core will be an important step in validating the observed PFN grades and disequilibrium effect prior to use of this data in resource estimation.</p>