

EL25/2004 ALBERTON

TASMANIA

ANNUAL TECHNICAL REPORT

APRIL 8TH 2013 – APRIL 7TH 2014

AUTHOR: P. J. de Vries., - MSc, BAppSc, MAusIMM
Geological, Educational & Mining Services Pty Ltd

REPORT No: EL252004_ATR_APR_14

REPORT DATE: 31/03/2014

LICENSEE: **Low Impact Diamond Drilling Specialists Pty Ltd**

ABN: 26 079 634 692

TABLE OF CONTENTS	PAGE
TABLE OF CONTENTS	i
LIST OF FIGURES and TABLES	ii
VARIFICATION LISTING	iii
TENEMENT DETAILS	iii
ABSTRACT	iv
KEY WORDS	v
1.0 Introduction.....	6
2.0 Exploration Objectives.....	7
3.0 Location and Access.....	8
Figure 1. Exploration Licence 25/2004.....	8
4.0 Regional Geology.....	9
5.0 Previous Work.....	10
6.0 Exploration Completed During the Reporting Period.....	14
6.1 Work Completed.....	14
6.1.1 Literature – Ringarooma United.....	14
6.1.2 Drilling.....	15
6.1.3 Exploration.....	16
7.0 Discussion and Conclusions.....	17
8.0 Expenditure 2013 – 2014.....	18
9.0 References.....	19
Attachment 1.....	21
APPENDIX 1.....	25
APPENDIX 2.....	29
APPENDIX 3.....	38
APPENDIX 4.....	42
APPENDIX 5.....	66

LIST OF FIGURES AND TABLES

Figure 1. Exploration Licence 25/2004.....	8
Figure 2. Cross Section RUL13.....	Attachment 1
Figure 3. Cross Section RUL14.....	Attachment 1
Table 1. Significant Assay Results – Diamond Drilling 2007 - 2008	12
Table 2. Significant Assay Results – Diamond Drilling 2008 - 2009	12
Table 3. Assay Results – Diamond Drilling 2012 – 2013.....	13

LIST OF APPENDICES

APPENDIX	DESCRIPTION
APPENDIX 1	Drill Hole Collar Locations
APPENDIX 2	Drill Hole Assay Data
APPENDIX 3	Down Hole Survey
APPENDIX 4	Drill Hole Lithology
APPENDIX 5	Lithology Codes

Disclaimer

While every effort has been made, within the time constraints of this assignment, to ensure the accuracy of this report, Geological, Educational & Mining Services Pty Ltd (G.E.M.S.) accepts no liability for any error or omission. G.E.M.S. can take no responsibility if the conclusions of this report are based on incomplete or misleading data. G.E.M.S. and the authors are independent of Low Impact Diamond Drilling Specialists Pty Ltd and have no financial interests in Low Impact Diamond Drilling Specialists Pty Ltd or any associated companies. G.E.M.S. is being remunerated for this report on a standard fee for time basis, with no success incentives.

VERIFICATION LISTING

Exploration Work	File_name	Type	Format	Description
------------------	-----------	------	--------	-------------

Office Studies

Report	EL252004_201213_01_report	pdf		Report Body
--------	---------------------------	-----	--	-------------

Drilling

Drilling_All	EL252004_201213_02_dhlocation	txt		Drill hole collar locations
Drilling_All	EL252004_201213_03_dhassay	txt		Drill hole assay data
Drilling_All	EL252004_201213_04_dhsurvey	txt		Down hole survey
Drilling_All	EL252004_201213_05_lithology	txt		Drill hole lithology
Drilling_All	EL252004_201213_06_lithcode	txt		Lithology Codes
Report	EL252004_201213_02_appendix1	pdf		Drill hole collar locations
Report	EL252004_201213_03_appendix2	pdf		Drill hole assay data
Report	EL252004_201213_04_appendix3	pdf		Down hole survey
Report	EL252004_201213_05_appendix4	pdf		Drill hole lithology
Report	EL252004_201213_06_appendix5	pdf		Lithology Codes

TENEMENT DETAILS

LICENSEE: **Low Impact Diamond Drilling Specialists Pty Ltd**
Grant date 1: 08/10/2004

ABN: 26 079 634 692

ABSTRACT

Exploration Licence 25/2004 comprises 12 square kilometres at Alberton was originally granted on 8th October 2004 to Low Impact Diamond Drilling Specialists Pty Ltd (LIDDS).

During 2013 – 2014 a further renewal of the Licence was sought from MRT. Application for the extension was submitted on 8th April 2013. Approval for only a 12 month extension was finally received from the government on 7th June 2013.

Literature studies were undertaken to;

1. quantify the amount and depth of mining undertaken below the level of the Long Tunnel drive, and
2. identify additional exploration targets based on historical information. Two further explorations targets were identified (Drunkard's Dream and Bright Star).

Field searches were undertaken and the location of the Drunkard's Dream workings potentially identified and two samples collected for analysis. Several attempts to locate the Bright Star workings have to date been unsuccessful.

A further two diamond drill holes RUL13 (157.40 metres) & RUL14 (164.80 metres) were completed for a total of 322.20 metres. The holes were designed to test the Main (Ringarooma) reef as well as testing for the presence of other easterly mineralised structures (Rosalyn, No.3 and Premier Reefs). Drilling has confirmed that the Ringarooma Reef dips steeply to the east.

Both the holes intersected zones of quartz containing pyrite & arsenopyrite mineralisation in the projected position of the Ringarooma (Main) lode as well as RUL14 intersecting quartz veining higher up the hole which is tentatively interpreted as being the Rosalyn Reef.

As at the reporting period the assay results had not been received.

It is anticipated that should the assays return encouraging gold values then additional drilling will be undertaken.

KEY WORDS

Location Name: Alberton, Ringarooma
Earth Science Related Terms: Sinstral fault, dextral fault, pre-mineralisation shear, post mineralisation shear, brittle offset.
Environment of Mineralisation: shear hosted mineralisation, brittle host, quartz vein stockwork.
Commodities: gold, silver
Exploration Methods: Historical research, 3D geological modelling, drill testing based on model, rock chip sampling/field mapping, underground mapping.
Mine / prospect name: Ringarooma United, Ringarooma Reef Gumsucker Reef, Thomas Reef, Hannah Reef, Rosalyn Reef, Strachan Reef, Roaring Meg Reef, Mercury Mine, Victoria Reef, Long Struggle Reef, Short Struggle Reef, Caxton Reef, Scotchman Reef, Montana Reef, Drunkards Dream Reef, Bright Star Reef.
Stratigraphic Name: Mathinna Supergroup.
Geological province name: Lachlan Fold Belt.
Geological age: Devonian

1.0 Introduction.

Exploration Licence EL 25/2004 comprising 12 square kilometres at Alberton was granted on 8th October 2004 to Low Impact Diamond Drilling Specialists (LIDDS) Pty Ltd.

A one year extension to the Exploration Licence of was applied for on 8th April 2013 with a 12 month extension granted on 7th June 2013.

During the 10 months remaining on the licence extension the holder has undertaken the drilling of two (2) diamond drill holes for a total of 322.20 metres drilling. As well as literature reviews.

The area explored has focussed primarily on the Ringarooma (Main) and Rosalyn mineralised structures in the immediate Ringarooma United Mine area; the major producer on the Alberton Goldfield. Further surface exploration was also undertaken in attempts to locate two previously mined areas.

2.0 Exploration Objectives.

The philosophy and objectives of the Exploration undertaken by LIDDS is directed to the definition of a significant hard rock gold resource that would be amenable to economic extraction.

Previous exploration has focussed on testing the down dip extensions of known mineralised structures associated with the Ringarooma United Mine.

As a result of structural modelling additional exploration targets near the Ringarooma United Mine have been identified.

Additional mineralised areas within the Aliberton Goldfields have commenced to be prioritised in regards to future exploration.

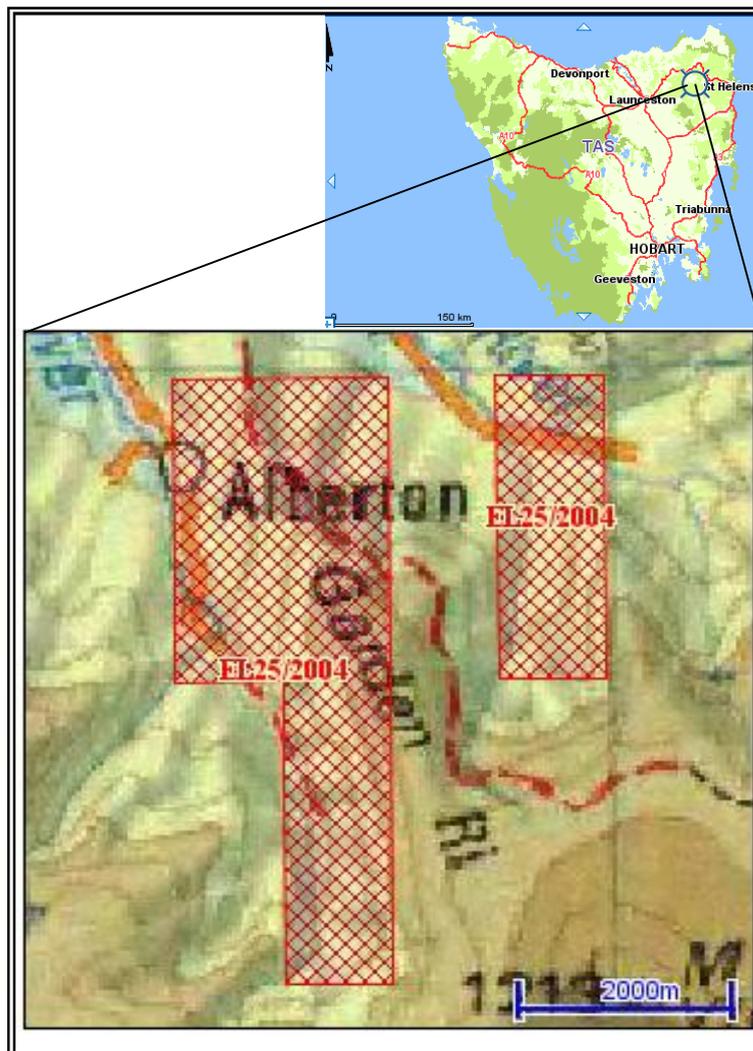
3.0 Location and Access.

Exploration Licence EL25/2004 is located near the rural township of Ringarooma, and covers the ghost-town of Alberton, situated in the north-eastern region of Tasmania.

The licence is situated within both rural and state forest areas and is serviced by a network of sealed and all weather roads and fire trails.

Topographic relief varies from gently undulating pasture areas to steep hills and ridges with deeply incised valleys developed in the central area of the licence. Vegetation in non-farming areas is dominated by wet-sclerophyll forest.

Figure 1. Exploration Licence 25/2004



4.0 Regional Geology.

The regional geology of EL 25/2004 has been previously described by MRT geologists and summarised on the 1:50,000 Alberton geological map. Recent publications specific to the economic geology of the area are provided by Taheri (1992 and 1993), Keele et.al (1994) and Reed, (2004) as part of the Netgold project. The following is gleaned from this work.

The exploration Licence is located within the 70 kilometres long, 2 kilometre wide north westerly trending Mangana to Lyndhurst gold lineament. Gold mineralisation contained within the lineament is hosted by the Silurian to Devonian Mathinna Beds. The Mathinna Beds comprise an alternating sequence of bedded quartzites, sandstones, siltstones and slates. The quartzites have a lithic component and display graded structures locally. The Mathinna Beds are unconformably overlain by probable Carboniferous and Permo-Triassic sedimentary sequences of the Parmeener Supergroup.

Granites and granodiorite of Devonian age have intruded the Mathinna Beds. Sporadic tin and tungsten mineralisation is associated with granitic intrusion.

Regionally the Mathinna Beds are folded about northwest trending axes to from small scale and kilometre scale wavelength tight to moderate folds. Axial plane cleavage development takes the form of a slaty cleavage in the pelitic units. A subsequent deformation has produced regional mega kinking about steep, northeast trending kink planes, and numerous steep dipping bands with both sinistral and dextral geometry.

The age of the gold mineralisation is uncertain; however it is probable that gold mineralisation was concurrent with folding and cleavage development prior to emplacement of the Devonian granites.

5.0 Previous Work.

Auriferous quartz vein hosted mineralisation was discovered in the Alberton goldfield prior to 1883. Over one hundred gold bearing lodes were subsequently discovered and mined between 1883 and 1939.

Recent exploration of the Ringarooma United Mine was first undertaken by Newcrest Mining Limited under EL23/92. An Exploration program in 1992-1993, part of work on a larger tenement, included 1:25,000 scale geological mapping, image processing and interpretation of aeromagnetic data, drainage sampling and detailed geochemical sampling.

The tenement was explored by Mancala Pty Ltd under a joint venture arrangement in 1993-1994. Mancala Pty Ltd re-established access to the Long Tunnel and completed 255 metres of drilling from underground sites with poor results.

During 2000 – 2001 (Denwar, 2001) two diamond drill holes (RUL01 and RUL03) totalling 433.6 metres were completed by Low Impact Diamond Drilling Specialists (LIDDS) in a joint venture agreement with Hercules Resources Pty Ltd (Mancala Pty Ltd had changed its name to Hercules Resources in 1998). A 0.8 metre interval in hole RUL01 assayed 85.9 grams per tonne gold with coarse visible gold. A 0.4 metre interval in hole RUL03 resulted in an assay of 14.8 g/t gold from a different structure.

During 2004 – 2005 (Carswell, 2005) a further hole was completed (RUL02) for 223.7 metres without any significant mineralisation being encountered.

During 2005 – 2007 (de Vries, 2008) several additional diamond holes (RUL03 – RUL07) were drilled with little or no geological input. Drilling occurred in two campaigns with two holes (RUL04 & RUL05) drilled between 10th October and 11th November 2006 for a combined total of 388.20 metres and two holes (RUL06 and RUL07) completed between 9th June and 25th July 2007 for a combined total of 318.5 metres.

Total drilling for the period 2006 – 2007 was 706.70 metres.

During 2007 – 2008 (de Vries, 2008) a completed literature and data review was undertaken.

This review proposed a new structural model for the Ringarooma United with the main mine structure has a steep easterly dip component of around 75 – 85°. The mineralised structure is off set by oblique (NNW – SSE) sinistral, steeply south-west dipping fault zones. The presence of these fault zones; which range up to 5 metres in width has produced the perception that the mine has steeply plunging southerly ore shoots, where in fact that shoots represent the in-between fault sections of the main mine lode or reef.

In order to test the new model three diamond drill holes (RUL08 – 10) were drilled with RUL09 terminated at 20 metres when an unacceptable azimuth was determined by down-hole survey. The two remaining holes both intersected anomalous auriferous structures extremely close to where modelling predicted. These results give credence that the new structural model is in fact valid.

The remodelling with the new structural controls indicated that most of the previous work by explorers on the field was fundamentally flawed. The failure to allow for the 'fault windows' developed between the off-sets of the lode resulted in several drill holes passing through these windows and subsequently missing intersecting any mineralisation. Most of the other deeper drill holes had in hindsight not been drilled deep enough to intersect the easterly dipping structure.

Total drilling for the period 2007 – 2008 was 384.0 metres.

During 2008 – 2009 (de Vries, 2009) surface examinations and tape and compass surveys were undertaken and data reviews was undertaken.

Sampling of the drilling undertaken in 2007 -2008 was also performed. Assay data from holes (RUL06 & RUL07) drilled during May and June 2007 were submitted and received (Table 1). The results indicated broad zones of low grade gold mineralisation one of which is associated with a small parallel structure.

Table 1. Significant Assay Results – Diamond Drilling 2007 - 2008

HOLE ID	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	AG (g/t)	AS (ppm)	COMMENT
RUL06	182.6	194.75	4.15	0.63	1.0	12,501	Lode
RUL07	42.9	44.75	3.60	0.51	0.51	1,178	Fault Zone

During the period 2008 – 2009 three holes were completed for a total of 384.0 metres two holes (RUL08 and RUL10) reached target depth whilst RUL09 was terminated at 20 metres depth when discovered to be off azimuth. Both RUL08 & RUL10 confirmed the structural interpretation that the Ringarooma Mine structure was dipping to the east and not to the west a previously assumed.

Table 2. Significant Assay Results – Diamond Drilling 2008 - 2009

HOLE ID	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	AG (g/t)	AS (ppm)	COMMENT
RUL08	91.80	93.30	1.50	47.43	1.93	7,917	Ringarooma Lode
RUL10	106.60	107.50	0.90	5.28	57.00	2,650	Ringarooma Lode
RUL10	179.00	180.50	1.50	4.01	2.00	11,560	Premier/Thomas?

During the period 2009 – 2012, a new Work Plan was submitted and finally approved in April 2010. Licence conditions and minor modifications to track positioning also resulted in slow work progress. Attempts were undertaken to commence the proposed drilling during late 2010 and 2011 however inclement weather conditions meant that only data and minor literature reviews were able to be completed.

2012 – 2013, drilling was undertaken to test below the Hannah line at depth. Two holes (RUL11 & RUL12) were drilled with RUL11 being abandoned 101.70 metres due to mechanical failure. A second hole RUL12 was then drilled from the same collar position, (with a slightly shallower dip) and was completed to a final depth of 245.40 metres.

Table 3. Assay Results – Diamond Drilling 2012 – 2013.

HOLE ID	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	Ag (g/t)	As (ppm)	COMMENTS
RUL11	98.40	99.25	0.85	1.48	1	7,100	Lode Qtz Vein
RUL12	77.60	78.30	0.70	0.32	<1	1,400	Stockwork Qtz
RUL12	80.70	80.85	0.15	38.1	4	2,900	Lode Qtz Vein
RUL12	231.20	232.1	0.90	0.28	1	2,800	Stockwork Qtz
RUL12	235.70	235.85	0.15	0.77	1	7,600	Lode Qtz Vein

Although the overall assay results for the drilling were disappointing with the best result being **0.15m @ 38.10 g/t Au**, associated with a previously unrecorded structure, the best intersection from the projected Hannah lode was only **0.15m @ 0.77 g/t Au**, however given that the intersection was 158 metres vertical metres below the level of the Hannah Adit, any plunge development on the mineralisation previously mined may well have resulted in the hole missing the high grade shoot.

6.0 Exploration Completed During the Reporting Period

6.1 Work Completed

During the ten (10) months available of the 2013 – 2014 reporting period an extensive review of available information was undertaken principally in order to determine the nature and amount of work done below the main Long Tunnel level and work associated with the development of the internal main shaft (or winze).

The results of the studies allowed for later targeted drilling of two (2) diamond drill holes (total 322.20 metres) to test for down-dip structural extensions below the deepest mine workings of the Ringarooma United Mine. Additional literature reviews has allowed for the re-discovery of the Drunkards Dream workings, however a similar search for the Bright Star workings was unsuccessful.

6.1.1 Literature – Ringarooma United

Information was gained principally from a review of the Launceston Examiner Newspaper. A report from the **Examiner (Launceston) Friday 11 November 1898** “**Very rich stone is being broken here in the lowest level, some 10ft. or more below the long tunnel, and there is every appearance of it going down**”. This indicates that mining was to a limited extent being undertaken below the level of the main Long Tunnel.

Information pertaining to the nature of the internal shaft was obtained from the **Examiner (Launceston) Friday 5 May 1899** “... the main shaft, which will be 12ft. by 4ft. in the clear, with three compartments. The result is expected to justify considerably more expense than caused by this, judging from the stone raised from and also that in sight in the underhand stope at the spot where the shaft is to go down.” This report again confirms that underhand stoping had occurred in the area of the main shoot from the Long Tunnel.

Further information was obtained from W.H Twelevtrees’ report obtained during site visits to the mine between 26th November and 8th December 1899 and released in a Government report dated 19th January 1900. “**On the Long Tunnel, South Drive, the bottom of the stope is 12 ft. below level In the middle of the shoot, the main winze or underlay shaft, 12’ x 4’ in the clear, is being sunk, and has now reached a depth of 65ft. It is intended to open out at 58 ft., leaving 10ft., or 12ft. for sump.**” This appears to confirm not only the underhand stoping to a depth of

3.60 metres (12 feet) below the Long Tunnel but also confirming the development of a production level at 58 feet (17.7 metres) below the brace from the internal shaft.

Further reports from the Examiner (Launceston) between February and July 1900 indicate that production from the 60ft (No.1 Level) was being actively pursued. A report from **Monday 30 July 1900 states “Stoping is being pushed on at the Ringarooma, and further sinking will follow.”**

Unfortunately on Wednesday 19 September 1900 a fire destroyed all the electrical appliances, boiler, 15-head battery, engine, dynamo and buildings located outside of the Long Tunnel. This fire effectively stopped deep level mining at the Ringarooma United mine site and any future work on the reefs located below the level of the Long Tunnel.

6.1.2 Drilling

Based on the historic information two new drill holes (RUL13 and RUL14) were designed to be drilled from the existing drill pad located adjacent to the Hannah Adit (drill pad site utilised for RUL11 and RUL12).

The holes were to be collared on the eastern side of the Ringarooma United workings with drilling designed to test structural modelling indications that the Ringarooma (Main) reef has a steep easterly dip and not the westerly one previously assumed. The holes also had the potential to test for any mineralisation associated with either the Premier or Rosalyn structures.

RUL13 (157.40 metres) was drilled between 12th and 18th December 2013. A zone of silicification and associated quartz veining containing abundant arsenopyrite and pyrite was intersected between 129.10m and 129.40m down hole with a further zone of inter-bedded bleached slates and sandstones containing multiple phases of quartz veining and sulphide mineralisation between 131.10 and 134.30 metres. This is tentatively interpreted as being the Rosalyn Reef position.

A further strongly laminated zone of quartz with arsenopyrite and pyrite on the basal contact was intersected between 145.40m and 145.60 metres down-hole. Another zone of silicified sandstone containing multiple quartz veining with arsenopyrite and pyrite extended from 145.60m to 148.70 metres down-hole. This has been interpreted as the Ringarooma (Main) Reef and is located 30 metres below the interpreted position of the No. 1 Level from the internal main shaft (Figure 2.).

Assays results have not yet been received from samples of the two zone submitted.

RUL14 (164.80 metres) was drilled between 19th December 2013 and 20th January 2014. A zone of quartz infill with associated silicification and weak sericite bleaching was intersected between 126.90m and 128.00 metres down-hole. Minor arsenopyrite and pyrite was also noted. Positionally this is interpreted as being the Rosalyn Reef.

A stronger zone of quartz veining with alteration, bleaching and variable amounts of arsenopyrite and pyrite was intersected between 151.20m and 154.00 metres down-hole. This position fits with a downward projection of the Ringarooma (Main) reef approximately 40 metres below the No. 1 Level and at the extreme southern end of the projected shoot (Figure 3.).

Assays results have not yet been received from samples of the two zones submitted.

6.1.3 Exploration

As a result of a review of the surface mapping undertaken by Nye (1933) an attempt was made to re-discover the location of the Drunkards Dream workings.

These workings had been earlier positioned by Denwar, (2002) as being at 5427800mN, 567200mE. As the result of a review and geo-referencing of Nye's mapping, workings corresponding to the description of the Drunkard's Dream were located at 5430031mN, 567324mE. If this is proven to be the correct workings it places it some 2,230 metres further north but only 124 metres further east from the earlier estimated position.

Two samples were taken from the workings, one (DD01) from an exposed reef of 0.30 metres width exposed in the face of a small shaft, with the second (DD02), consisting of a collection of quartz fragments taken from mullock dumps. Assays results have not yet been received from samples submitted.

Literature studies had indicated the workings of the Bright Star Mine (1895 -1898) may be worthy of further investigations, due to a decision to abandon the site after a parcel of 19 tons of underground ore only averaged 13 dwt (20.20 g/t Au) and not the 1oz (31.10 g/t Au) anticipated. Several attempts were made to locate the workings but due to the heavy vegetation coverage all attempts were unsuccessful.

7.0 Discussion and Conclusions.

A review of old newspaper articles indicates that extensive stoping activities were undertaken above the No. 1 Level - approximately 18 metres below the Long Tunnel brace. Mineralisation within the Rosalyn Reef appears not to have been tested below the level of the Long Tunnel at all.

The drilling of RUL13 and RUL14 indicate the presence of sulphide mineralisation associated with both the Rosalyn and Ringrooma (Main) Reefs below the previous deepest known workings.

The drilling also confirms that the Ringarooma Reef has a steep easterly dip (-76°). The strength of this mineralisation is unknown at this stage as assay results have not been received.

This new interpretation indicates that several earlier drill holes (RUL04, RUL05 & RUL06) may not have been drilled deep enough to fully test the mine sequence.

The Drunkard's Dream workings may have been relocated some 2.2km further north than previously estimated. Sampling of exposed quartz material will determine whether this prospect should be subject to further exploration.

Attempts to locate the Bright Star mine have to date been unsuccessful. Further attempts to locate the site will be undertaken in the near future.

8.0 Expenditure 2013 – 2014

Geoscientific Costs

- Geology \$21,816
- Geochemistry -
- Geophysics -
- Remote Sensing -

Drilling & Gridding Costs

- Gridding -
- Drilling \$45,108

Land Access Costs -

Rehabilitation Costs -

Feasibility Study Costs -

Other Items \$9,000

Administration Costs \$780

Total Costs \$79,704

9.0 References

Anon. 1895 – 1938. *Launceston Examiner Newspaper, various articles.*

Anon, 1923. Reports of Inspectors of Mines *Mineral Resources Tasmania*

Carswell, J.T., 2005. EL25/2004 Alberton. Annual Report 2004 - 2005 *Unpublished report for Low Impact Diamond Drilling Specialists*

Denwer, K.P., 2001. Annual Report for EL 23/92- Alberton for the period 2000 - 2001. *Unpublished report for Low Impact Diamond Drilling Specialists (LIDDS) TCR 02-4634.*

de Vries, P. J., 2008. EL25/2004 Alberton Combined Annual Reports 2005 – 2006 & 2006 - 2007 *Unpublished report for Low Impact Diamond Drilling Specialists*

de Vries, P. J., 2008. EL25/2004 Alberton Annual Report 2007 - 2008 *Unpublished report for Low Impact Diamond Drilling Specialists*

de Vries, P. J., 2009. EL25/2004 Alberton Annual Report 2008 - 2009 *Unpublished report for Low Impact Diamond Drilling Specialists*

de Vries, P. J., 2010. EL25/2004 Alberton Annual Report 2009 - 2010 *Unpublished report for Low Impact Diamond Drilling Specialists*

de Vries, P. J., 2013. EL25/2004 Alberton Annual Report 2011 - 2012 *Unpublished report for Low Impact Diamond Drilling Specialists*

de Vries, P. J., 2013. EL25/2004 Alberton Annual Report 2012 - 2013 *Unpublished report for Low Impact Diamond Drilling Specialists*

Keele, R.A., Taheri, J., and Bottrill, R.R., 1994. Structural and veining in the Devonian aged Mathinna-Alberton Gold Lineament, northeastern Tasmania. *Report 1994/06, Mineral Resources Tasmania*

Loftus-Hill, C., 1923. Preliminary Report on the Mt Victoria Goldfield. *Report UR1923/116 - 121, Mineral Resources Tasmania*

McIntosh Reid, A., 1925. The Properties of the Ringarooma Gold Mining Company, Alberton, Tasmania. *Report UR 1925/119 - 129 Mineral Resources Tasmania*

Nye, P.B., 1933. Preliminary Report The Ringarooma United Mine. *Report UR 1933/157 - 158 Mineral Resources Tasmania*

Reed, A.R., 2004. Gold mineralisation and the regional Palaeozoic structure of the Mathinna Supergroup, eastern Tasmania. *Record 2004/01, Mineral Resources Tasmania*

Taheri, J., 1992. Northeast Goldfields: A summary of the Tower Hill, Mathinna and Dans Rivulet Goldfields. *Report 1992/10, Mineral Resources Tasmania*

Taheri, J., 1993. Northeast Goldfields: A summary of the Alberton Goldfield. *Report 1993/34, Mineral Resources Tasmania.*

Twelvetrees W.H., 1900. Report on the North Mount Victoria Gold Field *Report OS_155, Mineral Resources Tasmania.*

Twelvetrees W.H., 1904. Report on the Mount Victoria Gold Field *Report OS_227, Mineral Resources Tasmania.*

Attachment 1.
Drill Hole Cross Sections RUL13 & RUL14

APPENDICIES

APPENDIX 1

Surface Location (SL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2014
H0004 Reporting period end_date 7/04/2014
H0005 State Tasmania
H0100 Tenement_name EL25_2004
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Alberton
H0103 Map_sheet_number_250K NORTH EAST
H0113 Map_sheet_number_100K 5643; RINGAROOMA
H0123 Map_sheet_number_25K 5642; ALBERTON
H0200 Start_of_data_acquisiton 8/04/2013
H0201 End_of_data_acquisiton 7/04/2014
H0202 Data_format SG1
H0203 Number_of_data_records 19
H0204 Date_of_metadata_update 31/03/2014
H0300 FileNames
H0301 downhole_survey_data_file EL252004_201314_04_dhsurvey.txt
H0302 location_data_file EL252004_20131_02_dhlocation.txt
H0303 assay_data_file EL252004_201213_03_dhassay.txt
H0304 rock_description_file EL252004_201314_05_lithology.txt
H0305 lithology_code_file EL252004_201314_06_lithcode.txt
H0400 Drilling_code Contractor
H0401 DD Diamond Bit - Coring Low Impact Diamond Drilling Specialists Pty Ltd
H0500 Surveyed_feature drill hole collars
H0501 Geodetic_datum GDA94
H0502 Vertical_datum AHD
H0503 Projection Universal Transverse Mercator (UTM)
H0504 Coordinate_system Grid (MGA)
H0505 Projection_zone 55
H0506 Surveying_instrument GPS - Magellan (Accuracy 10 m)
H0507 Surveying_company Low Impact Diamond Drilling Specialists Pty Ltd
H0900 Remarks Total Station GDA94 AMG Zone 55 Survey
H1000 Project Prospect Hole_id GDA_E GDA_N AHD_RL_
LENGTH Drilltype Line Start_Date End_Date Hole_Size
Coll_Surv Drill_Company Lab
H1001 metres metres metres metres
H1004
D Project Prospect Hole-ID LocationX_GDA_94
LocationY_GDA_94 LocationZ_GDA_94 Length DrillType Line
Start_Date End_Date Hole_Size Coll_Surv Drill_Company Lab
D ALBERTON Ringarooma United RU1 " 5,428,121.7 " " 566,850.7 "
362.80 46.50 UG_DDH RING_UNTD ? ? LTK40 (?) N
Low Impact Diamond Drilling Specialists Pty Ltd ?
D ALBERTON Ringarooma United RU2 " 5,428,121.7 " " 566,850.7 "
362.80 52.50 UG_DDH RING_UNTD ? ? LTK40 (?) N
Low Impact Diamond Drilling Specialists Pty Ltd ?
D ALBERTON Ringarooma United RU3 " 5,428,118.0 " " 566,856.0 "
362.80 50.50 UG_DDH RING_UNTD ? ? LTK40 (?) N
Low Impact Diamond Drilling Specialists Pty Ltd ?

D ALBERTON Ringarooma United RUL13 " 5,428,046.5 " " 566,922.5 "
444.5 157.4 SURF_DDH RING_UNTD 12/12/2013 18/12/2013 NTW N
Low Impact Diamond Drilling Specialists Pty Ltd
D ALBERTON Ringarooma United RUL14 " 5,428,046.5 " " 566,922.5 "
444.5 164.8 SURF_DDH RING_UNTD 19/12/2013 20/01/2014 NTW N
Low Impact Diamond Drilling Specialists Pty Ltd
EOF

APPENDIX 2

Downhole Geochemistry (DG1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2014
H0004 Reporting period end_date 7/04/2014
H0005 State Tasmania
H0100 Tenement_name EL25_2004
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Alberton
H0103 Map_sheet_number 100K NORTH EAST
H0113 Map_sheet_number 50K 5643; RINGAROOMA
H0123 Map_sheet_number 25K 5642; ALBERTON
H0200 Start_date_of_data_acquisition 8/04/2013
H0201 End_date_of_data_acquisition 7/04/2014
H0202 Data_format DG1
H0203 Number_of_data_records 185
H0204 Date_of_metadata_update 31/03/2014
H0300 FileNames
H0301 assay_data_file EL252004_201314_03_dhassay.txt
H0600 Sample_Code Sample_Type Sample_Description
H0601 R Diamond Drill core "Core, Sample interval"
H0700 Sample_Processing_Code Sample_Processing_Details
H0701 FA25_AAS 12hr Dry @ 80C - Jaw Cruch to 80% <3mm - Total Pulv (LM5) to 90% <75um - 200g Split for assay
H0702 ScreenFire 12hr Dry @ 80C - Jaw Cruch to 80% <3mm - Total Pulv (LM5) to 90% <75um - 500g Split for assay
H0800 Assay_code Assay_Description Assay_company
H0801 FA25_AAS FA/AAS Fire Assay (25g)/flame Atomic Absorption Spectrometry Burnie Research Laboratory Pty Ltd
H0802 ScreenFire Screen Fire Assay Burnie Research Laboratory Pty Ltd
H0804 AT/OES 4 Acid Digest in Teflon Tube / Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry Burnie Research Laboratory Pty Ltd
H0805 FA25_AAS FA/AAS Fire Assay (25g)/flame Atomic Absorption Spectrometry ALS Pty Ltd - Bernie
H0806 Ag - AA52 ALS Pty Ltd - Burnie
H0807 As - AA525 ALS Pty Ltd - Burnie
H0900 Remarks Down Hole Geochemistry

Hole-ID	From	To	Sample	Au_ppm	Au_ppm	Au_Avg
	Ag_ppm	As_ppm	Ag_ppm	As_%		
H1001	AT/OES	AT/OES	Ag-AA52	Au_Rp1 (F650)	FA25_AAS	
H1002	ppm	ppm	%	metre	metre	ppm ppm ppm ppm
H1003	1	1		0.10	0.10	-0.99 0.01 0.01 1 50

D	Project	Prospect	Hole-ID	From	To	Sample	Au_ppm
	Au_ppm	Au_ppm	Ag_ppm	As_ppm	Ag_ppm		
D	ALBERTON	Ringarooma	United	RU4	56.4	57	73000 0.88
D	ALBERTON	Ringarooma	United	RU4	59.7	60.5	73006
D	ALBERTON	Ringarooma	United	RU4	60.5	61	73007 2.8
D	ALBERTON	Ringarooma	United	RU5	33	33.1	73014

D	ALBERTON 0.36	Ringarooma United	RU5	37.4	37.7	73022		
D	ALBERTON 0.28	Ringarooma United	RU5	41.1	41.2	73028		
D	ALBERTON 0.47	Ringarooma United	RUL01	149.2	150.3	100701	0.5	
D	ALBERTON 1.33	Ringarooma United	RUL01	158.1	158.9	100702	1.31	1.24
D	ALBERTON 1.21	Ringarooma United	RUL01	158.9	159.6	100703	1.24	1.28
D	ALBERTON 1.2	Ringarooma United	RUL01	159.6	160.6	100704	1.25	1.38
D	ALBERTON 1.2	Ringarooma United	RUL01	160.6	161.6	100705	1.32	1.17
D	ALBERTON 0.09	Ringarooma United	RUL01	177	178	100706		
D	ALBERTON 0.02	Ringarooma United	RUL01	178	179	100707		
D	ALBERTON 0.04	Ringarooma United	RUL01	179	180	100708		
D	ALBERTON 0.005	Ringarooma United	RUL01	180	180.9	100709		
D	ALBERTON 0.03	Ringarooma United	RUL01	180.9	181.5	100710	0.02	
D	ALBERTON 0.01	Ringarooma United	RUL01	181.5	182.5	100711		
D	ALBERTON 0.02	Ringarooma United	RUL01	182.5	183.3	100712		
D	ALBERTON 0.09	Ringarooma United	RUL01	183.3	184.6	100713		
D	ALBERTON 0.1	Ringarooma United	RUL01	184.6	185.6	100714	0.07	
D	ALBERTON 3.66	Ringarooma United	RUL01	185.6	185.8	100715	3.44	3.9
D	ALBERTON 0.03	Ringarooma United	RUL01	186.4	187.8	100716	0.03	
D	ALBERTON 0.08	Ringarooma United	RUL01	150.3	151.1	100717		
D	ALBERTON 1.42	Ringarooma United	RUL01	151.1	152.1	100718		
D	ALBERTON 0.81	Ringarooma United	RUL01	152.1	153.1	100719		
D	ALBERTON 1.16	Ringarooma United	RUL01	153.1	154	100720		
D	ALBERTON 0.93	Ringarooma United	RUL01	154	155.1	100721		
D	ALBERTON 2.2	Ringarooma United	RUL01	155.1	156.1	100722		
D	ALBERTON 0.21	Ringarooma United	RUL01	156.1	157.1	100723		
D	ALBERTON 0.55	Ringarooma United	RUL01	157.1	158.1	100724		
D	ALBERTON 1.07	Ringarooma United	RUL01	161.6	162.6	100725		

D	ALBERTON 1.67	Ringarooma United	RUL01 162.6	163.7	100726
D	ALBERTON 85.94 85.94	Ringarooma United	RUL01 185.8	186.4	100733
D	ALBERTON 0.125 NE	Ringarooma United	RUL02 38.7	39.7	49169
D	ALBERTON 0.015 NE	Ringarooma United	RUL02 60.4	60.7	49170
D	ALBERTON -0.01 NE	Ringarooma United	RUL02 64.7	64.8	49171
D	ALBERTON 0.01 NE	Ringarooma United	RUL02 65.3	65.45	49172
D	ALBERTON 0.021 NE	Ringarooma United	RUL02 68.7	68.8	49173
D	ALBERTON -0.01 NE	Ringarooma United	RUL02 84.7	84.8	49174
D	ALBERTON -0.01 NE	Ringarooma United	RUL02 99.8	99.9	49175
D	ALBERTON 0.01 NE	Ringarooma United	RUL02 117.2	117.3	49176
D	ALBERTON 0.063 NE	Ringarooma United	RUL02 0	0.1	49177
D	ALBERTON 0.069 NE	Ringarooma United	RUL02 0	0.1	49178
D	ALBERTON 0.028 NE	Ringarooma United	RUL02 0	0.1	49179
D	ALBERTON -0.01 NE	Ringarooma United	RUL02 0	0.1	49180
D	ALBERTON 0.21	Ringarooma United	RUL03 40	41.3	100727
D	ALBERTON 0.81	Ringarooma United	RUL03 41.3	42.3	100728
D	ALBERTON 1.33	Ringarooma United	RUL03 42.3	43.3	100729
D	ALBERTON 0.92	Ringarooma United	RUL03 43.3	44.3	100730
D	ALBERTON 1.05	Ringarooma United	RUL03 44.3	45.3	100731
D	ALBERTON 0.67	Ringarooma United	RUL03 45.3	46.3	100732
D	ALBERTON 15.1	Ringarooma United	RUL03 51.4	51.8	100734 15.6
D	ALBERTON 0.03	Ringarooma United	RUL03 78.5	79.5	100735
D	ALBERTON 0.12	Ringarooma United	RUL03 121.4	121.9	100736
D	ALBERTON 0.03	Ringarooma United	RUL04 16.5	17.2	RUL4-1
D	ALBERTON 0.16	Ringarooma United	RUL04 72.9	73.7	RUL4-2
D	ALBERTON -0.01	Ringarooma United	RUL04 151.8	152.4	RUL4-3
D	ALBERTON 0.02	Ringarooma United	RUL04 155.4	156.1	RUL4-4

D	ALBERTON -0.01	Ringarooma United	RUL04 178.5	178.8	RUL4-5
D	ALBERTON -0.01	Ringarooma United	RUL04		RUL4-6
D	ALBERTON -0.01	Ringarooma United	RUL05 27.6	28.35	RUL5-1
D	ALBERTON 0.03	Ringarooma United	RUL05 30.1	30.3	RUL5-2
D	ALBERTON 0.03	Ringarooma United	RUL05 57	57.3	RUL5-3
D	ALBERTON 0.02	Ringarooma United	RUL05 110	110.3	RUL5-4
D	ALBERTON 0.27	Ringarooma United	RUL05 188	188.3	RUL5-5
D	ALBERTON 0.15	Ringarooma United	RUL05 191.3	191.6	RUL5-6
D	ALBERTON 0.02	Ringarooma United	RUL05 194.4	194.8	RUL5-7
D	ALBERTON 0.11 1	Ringarooma United 1864	RUL06 15.35	16	303001
D	ALBERTON 0.11 <1	Ringarooma United 1547	RUL06 16	16.8	303002
D	ALBERTON 0.06 <1	Ringarooma United 688	RUL06 16.8	17.6	303003
D	ALBERTON 0.03 <1	Ringarooma United 313	RUL06 17.6	18.4	303004
D	ALBERTON 0.1 1	Ringarooma United 1248	RUL06 18.4	19.2	303005
D	ALBERTON 0.05 1	Ringarooma United 650	RUL06 19.2	19.8	303006
D	ALBERTON -0.01 <1	Ringarooma United 14	RUL06 37.3	38.1	303007
D	ALBERTON -0.01 <1	Ringarooma United 40	RUL06 38.1	39	303008
D	ALBERTON 0.05 <1	Ringarooma United 67	RUL06 61.6	62.5	303009
D	ALBERTON -0.01 <1	Ringarooma United	RUL06 65.9	66.6	303010
D	ALBERTON 0.03 <1	Ringarooma United 53	RUL06 66.6	67.25	303011
D	ALBERTON 0.35 <1	Ringarooma United 412	RUL06 69.8	70.7	303012
D	ALBERTON -0.01 1	Ringarooma United 15	RUL06 87.2	88.15	303014
D	ALBERTON -0.01 1	Ringarooma United 58	RUL06 88.15	89.1	303015
D	ALBERTON -0.01 1	Ringarooma United 32	RUL06 89.1	90	303016
D	ALBERTON 0.26 1	Ringarooma United 195	RUL06 90	90.9	303017
D	ALBERTON 0.02 1	Ringarooma United 157	RUL06 90.9	92.1	303018
D	ALBERTON 0.02 1	Ringarooma United 16	RUL06 92.1	93	303019

D	ALBERTON 0.03 1	Ringarooma United 65	RUL06 93	93.9	303020
D	ALBERTON 0.02 <1	Ringarooma United 51	RUL06 93.9	94.8	303021
D	ALBERTON 0.07 1	Ringarooma United 88	RUL06 94.8	95.7	303022
D	ALBERTON -0.01 <1	Ringarooma United 83	RUL06 105.1	106	303023
D	ALBERTON -0.01 1	Ringarooma United	RUL06 106	106.9	303024
D	ALBERTON -0.01 <1	Ringarooma United 21	RUL06 106.9	107.8	303025
D	ALBERTON -0.01 <1	Ringarooma United 101	RUL06 121.25	122.25	303026
D	ALBERTON -0.01 1	Ringarooma United 80	RUL06 123.75	124.6	303027
D	ALBERTON -0.01 1	Ringarooma United 146	RUL06 124.6	125.45	303028
D	ALBERTON 0.02 1	Ringarooma United 306	RUL06 127.5	128.2	303029
D	ALBERTON 0.11 1	Ringarooma United 3221	RUL06 130.65	131.2	303030
D	ALBERTON -0.01 <1	Ringarooma United 188	RUL06 139	139.4	303031
D	ALBERTON 0.09 <1	Ringarooma United 2256	RUL06 139.4	139.75	303032
D	ALBERTON -0.01 <1	Ringarooma United 208	RUL06 139.75	140.5	303033
D	ALBERTON 0.04 <1	Ringarooma United 193	RUL06 140.5	141.4	303034
D	ALBERTON 0.1 1	Ringarooma United 226	RUL06 141.4	142.3	303035
D	ALBERTON 0.04 1	Ringarooma United 91	RUL06 142.3	143.2	303036
D	ALBERTON -0.01 <1	Ringarooma United 59	RUL06 143.2	144.1	303037
D	ALBERTON 0.11 1	Ringarooma United 158	RUL06 144.1	145	303038
D	ALBERTON 0.02 1	Ringarooma United 199	RUL06 145	145.9	303039
D	ALBERTON -0.01 1	Ringarooma United 39	RUL06 145.9	146.8	303040
D	ALBERTON -0.01 <1	Ringarooma United 138	RUL06 146.8	147.3	303041
D	ALBERTON 0.06 1	Ringarooma United 264	RUL06 147.3	148.2	303042
D	ALBERTON 0.17 <1	Ringarooma United 160	RUL06 148.2	149	303043
D	ALBERTON 0.09 1	Ringarooma United 243	RUL06 149	149.9	303044
D	ALBERTON 0.03 <1	Ringarooma United 256	RUL06 149.9	150.8	303045
D	ALBERTON 0.05 <1	Ringarooma United 270	RUL06 150.8	151.7	303046

D	ALBERTON 0.15 <1	Ringarooma United 504	RUL06 151.7	152.5	303047
D	ALBERTON 0.04 <1	Ringarooma United 483	RUL06 152.5	153.4	303048
D	ALBERTON 0.09 1	Ringarooma United 691	RUL06 153.4	154	303049
D	ALBERTON 0.14 <1	Ringarooma United 466	RUL06 154	154.7	303050
D	ALBERTON 0.05 1	Ringarooma United 264	RUL06 154.7	155.4	303051
D	ALBERTON 0.05 1	Ringarooma United 102	RUL06 155.4	156.3	303052
D	ALBERTON -0.01 <1	Ringarooma United	RUL06 166	166.8	303054
D	ALBERTON -0.01 <1	Ringarooma United 10	RUL06 166.8	167.5	303055
D	ALBERTON -0.01 1	Ringarooma United 370	RUL06 175.5	176.1	303056
D	ALBERTON -0.01 <1	Ringarooma United 60	RUL06 176.1	177	303057
D	ALBERTON -0.01 <1	Ringarooma United 92	RUL06 177	177.8	303058
D	ALBERTON 0.17 1	Ringarooma United 800	RUL06 182.6	183.3	303060
D	ALBERTON 0.62 1	Ringarooma United 4975	RUL06 186.2	186.9	303061
D	ALBERTON 0.97 1	Ringarooma United 2106	RUL06 186.9	187.8	303062
D	ALBERTON 0.72 1	Ringarooma United 1987	RUL06 187.8	188.7	303063
D	ALBERTON 0.56 1	Ringarooma United 2794	RUL06 193.8	194.75	303064
D	ALBERTON 0.24 1	Ringarooma United 1306	RUL06 194.75	195.7	303065
D	ALBERTON 0.1 <1	Ringarooma United 34	RUL06 195.7	196.3	303066
D	ALBERTON 0.41 <1	Ringarooma United 2042	RUL06 196.3	197	303067
D	ALBERTON 0.07 <1	Ringarooma United 157	RUL07 87.2	88.1	301901
D	ALBERTON 0.04 <1	Ringarooma United 150	RUL07 88.1	89	301902
D	ALBERTON 0.08 1	Ringarooma United 2053	RUL07 89	89.5	301903
D	ALBERTON -0.01 <1	Ringarooma United	RUL07 89.5	90	301904
D	ALBERTON -0.01 <1	Ringarooma United 30	RUL07 90	90.9	301905
D	ALBERTON 0.03 1	Ringarooma United 74	RUL07 90.9	91.8	301906
D	ALBERTON 0.07 <1	Ringarooma United 79	RUL07 91.8	92.7	301907
D	ALBERTON 0.02 <1	Ringarooma United	RUL07 92.7	93.6	301908

D	ALBERTON 0.02 <1	Ringarooma United	RUL07 93.6	94.5	301909
D	ALBERTON 0.03 <1	Ringarooma United 222	RUL07 96.4	97.3	301911
D	ALBERTON -0.01 1	Ringarooma United 82	RUL07 97.3	98.2	301912
D	ALBERTON -0.01 1	Ringarooma United 155	RUL07 117.3	118.2	301913
D	ALBERTON 0.03 <1	Ringarooma United 202	RUL07 118.2	119	301914
D	ALBERTON 0.14 <1	Ringarooma United 281	RUL07 119	119.6	301915
D	ALBERTON 0.12 <1	Ringarooma United 357	RUL07 121	121.5	301916
D	ALBERTON 0.02 <1	Ringarooma United 150	RUL07 121.5	122.4	301917
D	ALBERTON 0.04 <1	Ringarooma United	RUL07 122.4	124.7	301918
D	ALBERTON 0.33 <1	Ringarooma United 138	RUL07 0	1	303084
D	ALBERTON 0.07 <1	Ringarooma United 58	RUL07 1	2	303085
D	ALBERTON 0.07 <1	Ringarooma United 139	RUL07 2	3	303086
D	ALBERTON 0.14 1	Ringarooma United 1029	RUL07 34.75	35.15	303087
D	ALBERTON 0.03 <1	Ringarooma United 49	RUL07 35.15	36.1	303088
D	ALBERTON 0.59 <1	Ringarooma United 75	RUL07 42.9	43.25	303089
D	ALBERTON 1.45 1	Ringarooma United 2790	RUL07 43.25	44	303090
D	ALBERTON 0.7 1	Ringarooma United 2831	RUL07 44	44.75	303091
D	ALBERTON 0.03 <1	Ringarooma United 188	RUL07 44.75	45.5	303092
D	ALBERTON 0.02 1	Ringarooma United 89	RUL07 48.9	49.9	303094
D	ALBERTON 0.04 <1	Ringarooma United 64	RUL07 54.8	55.7	303095
D	ALBERTON 0.03 <1	Ringarooma United 79	RUL07 55.7	56.5	303096
D	ALBERTON 0.03 <1	Ringarooma United 82	RUL07 77.7	78.7	303097
D	ALBERTON 0.34 <1	Ringarooma United 106	RUL07 78.7	79.5	303098
D	ALBERTON 0.13 <1	Ringarooma United	RUL07 86	86.6	303099
D	ALBERTON -0.01 <1	Ringarooma United 123	RUL07 86.6	87.2	303100
D	ALBERTON 0.09 1	Ringarooma United 350	RUL08 91.3	91.8	303076
D	ALBERTON 3.88 1	Ringarooma United 12000	RUL08 91.8	92.6	303077

D	ALBERTON	Ringarooma United	RUL08	92.6	93.3	303078	
	97.2	3					
		3250					
D	ALBERTON	Ringarooma United	RUL08	93.3	94.1	303079	
	0.08	1					
		100					
D	ALBERTON	Ringarooma United	RUL08	146.2	146.7	303080	
	0.06	1					
		550					
D	ALBERTON	Ringarooma United	RUL08	146.7	147.2	303081	
	0.1	1					
		100					
D	ALBERTON	Ringarooma United	RUL08	147.2	147.5	303082	
	0.01	1					
		100					
D	ALBERTON	Ringarooma United	RUL08	147.5	148	303083	
	0.01	1					
		150					
D	ALBERTON	Ringarooma United	RUL09	0	20		
	0.01						
D	ALBERTON	Ringarooma United	RUL10	178.5	179	303071	
	0.02	1					
		300					
D	ALBERTON	Ringarooma United	RUL10	179	179.5	303072	
	2.97	4					
		9800					
D	ALBERTON	Ringarooma United	RUL10	179.5	179.9	303073	
	3.65	1					
		11900					
D	ALBERTON	Ringarooma United	RUL10	179.9	180.5	303074	
	5.11	1					
		12800					
D	ALBERTON	Ringarooma United	RUL10	180.5	181	303075	
	0.02	1					
		200					
D	ALBERTON	Ringarooma United	RUL10	106.1	106.6	303068	
	0.32	1					
		900					
D	ALBERTON	Ringarooma United	RUL10	106.6	107.5	303069	
	5.28	57					
		2650					
D	ALBERTON	Ringarooma United	RUL10	107.5	108	303070	
	0.61	1					
		1750					
D	ALBERTON	Hannah Line	RUL11	98.4	99.25	RUL11-1	1.48
	1.48	1					
		0.71					
D	ALBERTON	Hannah Line	RUL12	77.6	78.3	RUL12-1	0.32
	0.32	<1					
		0.14					
D	ALBERTON	Hannah Line	RUL12	80.7	80.85	RUL12-2	38.1
	38.1	4					
		0.29					
D	ALBERTON	Hannah Line	RUL12	231.2	232.1	RUL12-3	0.28
	0.28	1					
		0.28					
D	ALBERTON	Hannah Line	RUL12	235.7	235.85	RUL12-4	0.77
	0.77	1					
		0.76					

APPENDIX 3

Drilling Results (DS1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2014
H0004 Reporting period end_date 7/04/2014
H0005 State Tasmania
H0100 Tenement_name EL25_2004
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty
H0102 Project_name Alberton
H0113 Map_sheet_number 100K NORTH EAST
H0123 Map_sheet_number 25K 5643; RINGAROOMA
H0123 Map_sheet_number 25K 5642; ALBERTON
H0200 Start_date_of_data_acquisition 8/04/2013
H0201 End_date_of_data_acquisition 7/04/2014
H0202 Data_format DS1
H0203 Number_of_data_records 62
H0204 Date_of_metadata_update 31/03/2014
H0300 FileNames
H0301 downhole_survey_data_file EL252004_201314_04_dhsurvey.txt
H0502 Vertical_datum AHD
H0506 Surveying_instrument Down Hole Distance
H0507 Surveying_company
H0900 Remarks Single Shot Eastman Survey Camera
H1000 Project Prospect HOLE_ID Depth Azimuth_AMG Azimuth_Magnetic
Dip Instrument
H1001 metres degrees_decimal degrees_decimal
degrees_decimal
H1004 0.1 0.5 0.5 0.5
D Project Prospect Hole-ID Distance Azimuth
Azimuth_Mag Dip Instrument
D ALBERTON Ringarooma United RU1 46.5 117.5 132 -10
Eastman Single Shot
D ALBERTON Ringarooma United RU2 52.5 117.5 132 -15
Eastman Single Shot
D ALBERTON Ringarooma United RU3 50.5 107.5 122 -55
Eastman Single Shot
D ALBERTON Ringarooma United RU4 62.5 106 120.5 -40
Eastman Single Shot
D ALBERTON Ringarooma United RU5 43 77.5 92 -43
Eastman Single Shot
D ALBERTON Ringarooma United RUL01 60 100 114.5 -58
Eastman Single Shot
D ALBERTON Ringarooma United RUL01 120 93 107.5 -58
Eastman Single Shot
D ALBERTON Ringarooma United RUL01 210 102.5 117 -57
Eastman Single Shot
D ALBERTON Ringarooma United RUL02 20 110 124.5 -63
Eastman Single Shot
D ALBERTON Ringarooma United RUL02 50 110 124.5 -63
Eastman Single Shot
D ALBERTON Ringarooma United RUL02 80 109 123.5 -63
Eastman Single Shot
D ALBERTON Ringarooma United RUL02 110 108 122.5 -63
Eastman Single Shot

D	ALBERTON	Ringarooma United	RUL02 140	108	122.5	-63
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL02 170	107.5	118	-63
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL02 222	109	123.5	-63
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL03 53	126	140.5	-54
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL03 100	121	135.5	-54
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL03 223	118	132.5	-53
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL04 51.5	98.5	113	-50.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL04 121	100	114.5	-46.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL04 190	100	114.5	-44.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL05 70	90	104.5	-48.75
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL05 128.2	90	104.5	-46
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL05 198.2	89	103.5	-41.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 33	111	125.5	-44
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 73	110	124.5	-46
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 103	108.5	123	-46.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 133	108.5	123	-47.7
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 163	108	122.5	-49
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL06 199	108.5	123	-50
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL07 40	120	134.5	-55
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL07 90	119.5	134	-55
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL07 119.5	120	134.5	-55
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 164	102	116.5	-45.5
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 140	103	117.5	-47
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 35	106	120.5	-47
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 50	106	120.5	-47
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 80	105	119.5	-47
		Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL08 110	104	118.5	-47
		Eastman Single Shot				

D	ALBERTON	Ringarooma United	RUL09 20	94	108.5	-52	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 128	100	114.5	-49.5	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 20	103	117.5	-51	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 59	101	115.5	-51	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 89	103	117.5	-51	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 158	100	114.5	-49	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL10 188	100	114.5	-48	
			Eastman Single Shot				
D	ALBERTON	Hannah Line	RUL11 80	110	124.5	-48	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 20	112	126.5	-40	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 50	111	125.5	-40	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 80	111	125.5	-41	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 110	110	124.5	-41	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 140	110	124.5	-41	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 170	109	123.5	-41	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 200	107	121.5	-41	Eastman
			Single Shot				
D	ALBERTON	Hannah Line	RUL12 230	107	121.5	-41	Eastman
			Single Shot				
D	ALBERTON	Ringarooma United	RUL13 50	301	315.5	-62	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL13 159	301	315.5	-62	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL14 30	286	300.5	-66	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL14 60	285	299.5	-65.5	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL14 90	284	298.5	-65	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL14 120	283	297.5	-64	
			Eastman Single Shot				
D	ALBERTON	Ringarooma United	RUL14 155	281	295.5	-64.5	
			Eastman Single Shot				

EOF

APPENDIX 4

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2013
H0004 Reporting period end_date 7/04/2013
H0005 State Tasmania
H0100 Tenement_name EL25_2004
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Alberton
H0113 Map_sheet_number_250K NORTH EAST
H0123 Map_sheet_number_100K 5643; RINGAROOMA
H0123 Map_sheet_number_25K 5642; ALBERTON
H0200 Start_of_data_acquisiton 8/04/2012
H0201 End_of_data_acquisiton 7/04/2013
H0202 Data_format DL1
H0203 Number_of_data_records 596
H0204 Date_of_metadata_update 31/03/2013
H0300 FileNames
H0301 rock_description_file EL252004_201213_05_lithology.txt
H0302 lithology_code_file EL252004_201213_06_lithcode.txt
H0502 Vertical_datum AHD
H0506 Surveying_instrument Down Hole Distance (From)
H0507 Surveying_company
H0600 Sample_Code Sample_Type Sample_Description
H0601 R DC Drill core Drill Hole Lithology
H0900 Remarks From - To interval record
H1000 Project Prospect Hole_id From To Lith_1 MINERAL Weathering
QTZ ALT_TYPE
H1001 metres metres species % style
H1004 0.1 0.1
D Project Prospect Hole-ID From To Lithology Sulphide
Weathering % Qtz ALT_TYPE
D ALBERTON Ringarooma United RUL01 0 18.5 SST - ox
0 -
D ALBERTON Ringarooma United RUL01 18.5 33.3 SH - ox
1 -
D ALBERTON Ringarooma United RUL01 33.3 36.9 DYKE py fr
1 -
D ALBERTON Ringarooma United RUL01 36.9 43.3 SLTST - fr
1 -
D ALBERTON Ringarooma United RUL01 43.3 55.1 SLTST - fr
1 -
D ALBERTON Ringarooma United RUL01 55.1 88.7 SST py fr
1 -
D ALBERTON Ringarooma United RUL01 88.7 102.3 SST/SH py
fr 1 -
D ALBERTON Ringarooma United RUL01 102.3 125.5 SST py fr
1 -
D ALBERTON Ringarooma United RUL01 125.5 148.9 DYKE py fr
1 -
D ALBERTON Ringarooma United RUL01 148.9 150.3 FAULTpy fr
1 ser

D	ALBERTON 1 ser	Ringarooma United	RUL01 150.3	162.3	DYKE	py	fr
D	ALBERTON 1 -	Ringarooma United	RUL01 162.3	177	SST	py	fr
D	ALBERTON 1 -	Ringarooma United	RUL01 177	189.3	SST	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL01 189.3	210.3	SST	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL02 71.4	73.4	FAULT-		fr
D	ALBERTON 1 -	Ringarooma United	RUL02 73.4	80.7	SLTST	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL02 80.7	127	SST	-	fr
D	ALBERTON 0 -	Ringarooma United	RUL02 0	15.3	SST	-	ox
D	ALBERTON ox 0	Ringarooma United	RUL02 15.3	24.2	SST/SH		-
D	ALBERTON fr 1	Ringarooma United	RUL02 24.2	37.8	SST/SH		-
D	ALBERTON fr 5	Ringarooma United	RUL02 37.8	42.5	SST/FAULT		py
D	ALBERTON 1 sil	Ringarooma United	RUL02 42.5	59.4	SLTST	py	fr
D	ALBERTON fr 1	Ringarooma United sil	RUL02 59.4	73.4	SST/SLTST		py
D	ALBERTON 0 -	Ringarooma United	RUL03 0	22.5	SST	-	ox
D	ALBERTON 0 -	Ringarooma United	RUL03 22.5	27.6	SLTST	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL03 27.6	31.5	SLTST	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL03 31.5	42.5	FAULT-		fr
D	ALBERTON 1 ser	Ringarooma United	RUL03 42.5	45.3	FAULT	py	fr
D	ALBERTON fr 1	Ringarooma United "sil, ser"	RUL03 45.3	56.4	FAULT/SH		py
D	ALBERTON 1 chl	Ringarooma United	RUL03 56.4	92.9	SST	py	fr
D	ALBERTON 0 sil	Ringarooma United	RUL03 92.9	104.2	FAULT-		fr
D	ALBERTON 0 -	Ringarooma United	RUL03 104.2	106.2	DYKE	-	fr
D	ALBERTON 1 sil	Ringarooma United	RUL03 106.2	184.3	SST	-	fr
D	ALBERTON 0 -	Ringarooma United	RUL03 184.3	188	FAULT-		fr
D	ALBERTON 0 -	Ringarooma United	RUL03 188	203	SST	-	fr
D	ALBERTON 0 -	Ringarooma United	RUL03 203	207.4	DYKE	py	fr
D	ALBERTON 1 sil	Ringarooma United	RUL03 207.4	223.3	SST	-	fr

D	ALBERTON 0 -	Ringarooma United	RUL04 0	13.3	SST -	ox
D	ALBERTON 0 -	Ringarooma United	RUL04 13.3	19.2	DYKE -	ox
D	ALBERTON fr 1	Ringarooma United -	RUL04 19.2	28	SST/SH	-
D	ALBERTON 5 -	Ringarooma United	RUL04 28	33.5	SLTST -	fr
D	ALBERTON 10 -	Ringarooma United	RUL04 33.5	58	SST -	fr
D	ALBERTON fr 1	Ringarooma United -	RUL04 58	72.9	SST/SLTST	py
D	ALBERTON 1 -	Ringarooma United	RUL04 83.5	93.8	SST -	fr
D	ALBERTON 5 -	Ringarooma United	RUL04 93.8	119.8	SST -	fr
D	ALBERTON 0 -	Ringarooma United	RUL04 119.8	151.8	SST -	fr
D	ALBERTON fr 1	Ringarooma United sil	RUL04 72.9	73.7	SST/QV	py
D	ALBERTON fr 0	Ringarooma United -	RUL04 73.7	83.5	SST/SLTST	-
D	ALBERTON fr 1	Ringarooma United sil	RUL04 151.8	152.4	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL04 152.4	155.4	SST -	fr
D	ALBERTON fr 1	Ringarooma United sil	RUL04 155.4	156.1	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL04 156.1	178.5	SST -	fr
D	ALBERTON fr 1	Ringarooma United sil	RUL04 178.5	178.8	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL04 178.8	185.8	SST -	fr
D	ALBERTON fr 1	Ringarooma United -	RUL04 185.8	190	SST/SHEAR	py
D	ALBERTON ox 0	Ringarooma United -	RUL05 0	13.4	SST/SLTST	-
D	ALBERTON 0 -	Ringarooma United	RUL05 13.4	19.7	DYKE -	ox
D	ALBERTON ox 0	Ringarooma United -	RUL05 19.7	21.2	SST/SLTST	-
D	ALBERTON fr 10	Ringarooma United sil	RUL05 21.2	26	SST/QV	py
D	ALBERTON fr 0	Ringarooma United -	RUL05 26	27	SHEAR	-
D	ALBERTON fr 5	Ringarooma United sil	RUL05 27	31.7	SST/QV	py
D	ALBERTON 1 -	Ringarooma United	RUL05 31.7	38.6	SST -	fr
D	ALBERTON fr 60	Ringarooma United -	RUL05 38.6	43.5	FAULT/QV	-
D	ALBERTON 0 -	Ringarooma United	RUL05 43.5	57	SST -	fr

D	ALBERTON	Ringarooma United	RUL05 57	57.3	SST/QV	py
	fr 1	sil				
D	ALBERTON	Ringarooma United	RUL05 57.3	72.5	SST -	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL05 72.5	97	SLTST/SST	-
	fr 0	-				
D	ALBERTON	Ringarooma United	RUL05 97	110	SST -	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL05 110	110.3	SST/SHEAR	py
	fr 1	sil				
D	ALBERTON	Ringarooma United	RUL05 110.3	120.6	SST -	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL05 120.6	121	SST/CB	-
	fr 1	carb				
D	ALBERTON	Ringarooma United	RUL05 121	125.8	SST -	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL05 125.8	126.2	SST/CB	-
	fr 5	carb sil				
D	ALBERTON	Ringarooma United	RUL05 126.2	185.5	SST -	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL05 185.5	188	SLTST/SST	py
	fr 1	-				
D	ALBERTON	Ringarooma United	RUL05 188	188.3	SLTST/QV	-
	fr 20	carb sil				
D	ALBERTON	Ringarooma United	RUL05 188.3	191.3	SLTST/SST	-
	fr 0	-				
D	ALBERTON	Ringarooma United	RUL05 191.3	191.6	SLTST/QV	-
	fr 20	carb sil				
D	ALBERTON	Ringarooma United	RUL05 191.6	194.4	SLTST/SST	-
	fr 0	-				
D	ALBERTON	Ringarooma United	RUL05 194.4	194.8	SLTST/QV	-
	fr 30	sil carb				
D	ALBERTON	Ringarooma United	RUL05 194.8	198.2	SLTST/SST	-
	fr 0	-				
D	ALBERTON	Ringarooma United	RUL06 0	3.7	SST/SLTST	-
	ox 1	-				
D	ALBERTON	Ringarooma United	RUL06 3.7	6.5	DYKE -	ox
	0 -					
D	ALBERTON	Ringarooma United	RUL06 6.5	14	SST/SLTST	-
	ox 1	-				
D	ALBERTON	Ringarooma United	RUL06 14	20	DYKE -	ox
	0 sil					
D	ALBERTON	Ringarooma United	RUL06 20	21	FAULT-	ox
	1 -					
D	ALBERTON	Ringarooma United	RUL06 21	27.7	SST/SH/SLTST-	
	ox 1	-				
D	ALBERTON	Ringarooma United	RUL06 27.7	28.5	FAULT-	ox
	0 -					
D	ALBERTON	Ringarooma United	RUL06 28.5	32.7	SST/SH/SLTSTpy	
	fr 1	-				
D	ALBERTON	Ringarooma United	RUL06 32.7	33.5	FAULTpy	fr
	0 -					
D	ALBERTON	Ringarooma United	RUL06 33.5	43	SST/SH/SLTSTpy	
	fr 0	-				

D	ALBERTON fr 1	Ringarooma United -	RUL06 43	46	SST/SH/SLTSTpy		
D	ALBERTON fr 5	Ringarooma United -	RUL06 46	48	SST/SH/SLTSTpy		
D	ALBERTON fr 0	Ringarooma United -	RUL06 48	50.3	SST/SH/SLTSTpy		
D	ALBERTON fr 5	Ringarooma United -	RUL06 50.3	53	SST/SH/SLTSTpy		
D	ALBERTON fr 0	Ringarooma United -	RUL06 53	56.5	SST/SH/SLTSTpy		
D	ALBERTON fr 5	Ringarooma United -	RUL06 56.5	62.5	SST/SH/SLTSTpy		
D	ALBERTON 0 -	Ringarooma United	RUL06 62.5	65.8	SST	py	fr
D	ALBERTON 30 -	Ringarooma United	RUL06 65.8	67.25	QTZ	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL06 67.25	69.7	SST	py	fr
D	ALBERTON 10 -	Ringarooma United	RUL06 69.7	71.7	SST	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL06 71.7	87.2	SST	-	fr
D	ALBERTON 15 chl carb	Ringarooma United	RUL06 87.2	96	SST	py asp	fr
D	ALBERTON 1 chl	Ringarooma United	RUL06 96	105.1	SST	-	fr
D	ALBERTON 10 chl carb	Ringarooma United	RUL06 105.1	110.5	SST	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL06 110.5	113	SST	-	fr
D	ALBERTON 10 sil	Ringarooma United	RUL06 113	117.6	SST	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL06 117.6	120	SST	-	fr
D	ALBERTON 10 sil/cb	Ringarooma United	RUL06 120	130	SST	py	fr
D	ALBERTON 0 -	Ringarooma United	RUL06 130	139	SST	-	fr
D asp	ALBERTON fr 50	Ringarooma United chl sil	RUL06 139	147.35	SST/QV		py
D	ALBERTON 1 -	Ringarooma United	RUL06 147.35	148.2	DYKE	py	fr
D	ALBERTON 10 sil	Ringarooma United	RUL06 148.2	154.7	SST	py	fr
D	ALBERTON 1 sil	Ringarooma United	RUL06 154.7	155.4	DYKE	py asp	fr
D	ALBERTON 5 chl	Ringarooma United	RUL06 155.4	166.05	SST	py	fr
D	ALBERTON 100 sil	Ringarooma United	RUL06 166.05	167.3	QTZ	py gal	fr
D	ALBERTON fr 0	Ringarooma United -	RUL06 167.3	176.15	SST/SH		py
D	ALBERTON 1 -	Ringarooma United	RUL06 176.15	177.8	FAULT	py	fr

D	ALBERTON fr 5	Ringarooma United chl	RUL06 177.8	186.2	SST/SH	py
D	ALBERTON fr 20	Ringarooma United chl	RUL06 186.2	186.85	SHEAR/QTZ	asp
D	ALBERTON 1 chl	Ringarooma United	RUL06 186.85	191.7	DYKE	asp fr
D	ALBERTON fr 1	Ringarooma United -	RUL06 191.7	193.8	SST/SH	py
D	ALBERTON 1 -	Ringarooma United	RUL06 193.8	195.7	DYKE	py fr
D	ALBERTON 10 -	Ringarooma United	RUL06 195.7	198	SST	py fr
D	ALBERTON 0 -	Ringarooma United	RUL06 12.7	19.6	SH	- ox
D	ALBERTON 5 -	Ringarooma United	RUL07 0	13	SST	- ox
D	ALBERTON ox 5	Ringarooma United chl	RUL07 13	25.4	SLTST/SH	-
D	ALBERTON 0 -	Ringarooma United	RUL07 25.4	28.25	SST	- fr
D	ALBERTON fr 10	Ringarooma United -	RUL07 28.25	29	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL07 29	34.7	SST	- fr
D	ALBERTON fr 10	Ringarooma United -	RUL07 34.7	36.1	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL07 36.1	38	SST	- fr
D	ALBERTON fr 0	Ringarooma United chl	RUL07 38	43.25	SLTST/SH	-
D	ALBERTON 1 -	Ringarooma United	RUL07 43.25	44.75	DYKE	asp py fr
D	ALBERTON 0 -	Ringarooma United	RUL07 44.75	51	SST	py fr
D	ALBERTON fr 20	Ringarooma United -	RUL07 51	52	SST/QV	-
D	ALBERTON 0 -	Ringarooma United	RUL07 52	53	SST	- fr
D	ALBERTON fr 15	Ringarooma United -	RUL07 53	56.5	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL07 56.5	58.5	SST	py fr
D	ALBERTON fr 15	Ringarooma United sil	RUL07 58.5	60.5	SST/QV	py
D	ALBERTON 0 -	Ringarooma United	RUL07 60.5	63.9	SST	py fr
D	ALBERTON fr 10	Ringarooma United -	RUL07 63.9	79.6	SST/QV	-
D	ALBERTON 0 -	Ringarooma United	RUL07 79.6	86	SST	- fr
D	ALBERTON fr 0	Ringarooma United -	RUL07 86	88	SST/SLTST	-
D	ALBERTON py fr 30	Ringarooma United sil	RUL07 88	90	SST/SLTST/QV	

D	ALBERTON fr 0	Ringarooma United -	RUL07 90	96.4	SST/SLTST	-
D	ALBERTON py fr	Ringarooma United 15 sil	RUL07 96.4	98.2	SST/SLTST/QV	
D	ALBERTON py fr	Ringarooma United 10 sil chl	RUL07 98.2	99	SST/SLTST/QV	
D	ALBERTON fr 1	Ringarooma United -	RUL07 99	106	SLTST/SH	py
D	ALBERTON fr 10	Ringarooma United -	RUL07 106	107.5	SLTST/SH/QV	-
D	ALBERTON fr 0	Ringarooma United -	RUL07 107.5	110	SLTST/SH	-
D	ALBERTON fr 10	Ringarooma United -	RUL07 110	111.5	SLTST/SH/QV	-
D	ALBERTON fr 0	Ringarooma United -	RUL07 111.5	116.9	SST/SLTST/SH-	
D	ALBERTON fr 15	Ringarooma United chl	RUL07 116.9	117.3	SLTST/SH/QV	-
D	ALBERTON fr 0	Ringarooma United -	RUL07 117.3	119.5	SST/SLTST/SH-	
D	ALBERTON 0 -	Ringarooma United -	RUL07 119.5	121	SST	- fr
D	ALBERTON fr 50	Ringarooma United -	RUL07 121	124.85	SST/QV	-
D	ALBERTON 0 -	Ringarooma United -	RUL07 124.85	126	SST	- fr
D	ALBERTON 0 -	Ringarooma United -	RUL07 126	127.5	SST	- fr
D	ALBERTON ox 0	Ringarooma United -	RUL08 0	12.7	SLTST/SH	-
D	ALBERTON 0 sil	Ringarooma United -	RUL08 19.6	26.5	SH	py ox
D	ALBERTON 0 sil	Ringarooma United -	RUL08 26.5	35.6	SH/QV	py fr
D	ALBERTON fr 0	Ringarooma United sil	RUL08 35.6	45.2	SST/SH	-
D	ALBERTON 20 -	Ringarooma United -	RUL08 45.2	54.2	SH/QV	- fr
D	ALBERTON fr 0	Ringarooma United sil	RUL08 54.2	58.4	SST/SH	-
D	ALBERTON fr 0	Ringarooma United -	RUL08 58.4	62.8	SLTST/SH	-
D	ALBERTON fr 0	Ringarooma United -	RUL08 62.8	69.3	SST/SLTST	-
D	ALBERTON 100 -	Ringarooma United -	RUL08 69.3	69.5	QV	- fr
D	ALBERTON fr 0	Ringarooma United -	RUL08 69.5	76.7	SST/SLTST	-
D	ALBERTON 100 -	Ringarooma United -	RUL08 76.7	77	QV	- fr
D	ALBERTON fr 0	Ringarooma United -	RUL08 77	79	SST/SLTST	-
D	ALBERTON fr 0	Ringarooma United -	RUL08 79	81.3	SLTST/SH	-

D	ALBERTON	Ringarooma United	RUL08 81.3	87.4	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 87.4	87.8	QV	-	fr
	100	-					
D	ALBERTON	Ringarooma United	RUL08 87.8	91.8	SST/QV		-
	fr 0	-					
D	ALBERTON	Ringarooma United	RUL08 91.8	93.3	SST/QV		asp
py v g	fr 10	sil carb					
D	ALBERTON	Ringarooma United	RUL08 93.3	104.5	SST/QV		-
	fr 80	-					
D	ALBERTON	Ringarooma United	RUL08 104.5	111.5	SST/QV		-
	fr 5	-					
D	ALBERTON	Ringarooma United	RUL08 111.5	112	QV	-	fr
	10	-					
D	ALBERTON	Ringarooma United	RUL08 112	113	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 113	118.1	SST	-	fr
	20	-					
D	ALBERTON	Ringarooma United	RUL08 118.1	124.8	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 124.8	125.6	QV	py	fr
	5	-					
D	ALBERTON	Ringarooma United	RUL08 125.6	132.1	SST/SH		-
	fr 0	-					
D	ALBERTON	Ringarooma United	RUL08 132.1	134.1	SH/SST/QV		-
	fr 0	-					
D	ALBERTON	Ringarooma United	RUL08 134.1	146.6	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 146.6	147.6	SST/QV		py
asp	fr 20	sil					
D	ALBERTON	Ringarooma United	RUL08 147.6	153.2	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 153.2	155.9	SLTST/SH		-
	fr 10	-					
D	ALBERTON	Ringarooma United	RUL08 155.9	156.2	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 156.2	159.1	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 159.1	160.2	SST/QV		-
	fr 5	-					
D	ALBERTON	Ringarooma United	RUL08 160.2	161.8	SST	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL08 161.8	164.4	SST/SLTST		-
	fr 5	-					
D	ALBERTON	Ringarooma United	RUL10 0	3.8	SH	-	ox
	0	-					
D	ALBERTON	Ringarooma United	RUL10 3.8	18.2	SST	-	ox
	5	-					
D	ALBERTON	Ringarooma United	RUL10 18.2	21.3	SH	-	ox
	0	-					
D	ALBERTON	Ringarooma United	RUL10 21.3	28.6	SH	-	fr
	0	-					
D	ALBERTON	Ringarooma United	RUL10 28.6	31.7	SH/QV	-	fr
	1	-					

D	ALBERTON 10 -	Ringarooma United	RUL10 31.7	46.1	SH/QV -	fr
D	ALBERTON 15 -	Ringarooma United	RUL10 46.1	50.5	SLTST -	fr
D	ALBERTON 10 -	Ringarooma United	RUL10 50.5	68.1	SH/QV -	fr
D	ALBERTON fr 1	Ringarooma United	RUL10 68.1	73	SST/QV	-
D	ALBERTON 10 -	Ringarooma United	RUL10 73	74	SLTST -	fr
D	ALBERTON fr 5	Ringarooma United	RUL10 74	84	SLTST/QV	-
D	ALBERTON 70 -	Ringarooma United	RUL10 84	90.6	QV/SH -	fr
D	ALBERTON 1 -	Ringarooma United	RUL10 90.6	92	SST -	fr
D	ALBERTON 10 -	Ringarooma United	RUL10 92	96.3	SH -	fr
D	ALBERTON 10 -	Ringarooma United	RUL10 96.3	101.2	SST -	fr
D	ALBERTON 10 -	Ringarooma United	RUL10 101.2	106.6	SST -	fr
D	ALBERTON fr 90	Ringarooma United	RUL10 106.6	107.5	QV py cpy sph	-
D	ALBERTON fr 5	Ringarooma United	RUL10 107.5	109	SST/QV	-
D	ALBERTON 0 -	Ringarooma United	RUL10 109	111.6	SST -	fr
D	ALBERTON 90 -	Ringarooma United	RUL10 111.6	112.1	QV -	fr
D	ALBERTON 0 -	Ringarooma United	RUL10 112.1	113.6	SST -	fr
D	ALBERTON 0 -	Ringarooma United	RUL10 113.6	114.1	SLTST -	fr
D	ALBERTON 5 -	Ringarooma United	RUL10 114.1	120.1	SST -	fr
D	ALBERTON fr 1	Ringarooma United	RUL10 120.1	128.4	SST/QV	-
D	ALBERTON fr 0	Ringarooma United	RUL10 128.4	136.9	SST/SH	-
D	ALBERTON 0 -	Ringarooma United	RUL10 136.9	144.1	SST -	fr
D	ALBERTON 1 -	Ringarooma United	RUL10 144.1	148.6	SST -	fr
D	ALBERTON 0 -	Ringarooma United	RUL10 148.6	150.6	SH -	fr
D	ALBERTON 5 -	Ringarooma United	RUL10 150.6	152.6	SH/QV -	fr
D	ALBERTON 0 -	Ringarooma United	RUL10 152.6	155.8	SST -	fr
D	ALBERTON 80 -	Ringarooma United	RUL10 155.8	158.9	QV/SH -	fr
D	ALBERTON fr 5	Ringarooma United	RUL10 158.9	161.5	SST/QV	-

D	ALBERTON fr 0	Ringarooma United -	RUL10	161.5	162	SH/SLTST/QV	-	
D	ALBERTON 1 -	Ringarooma United	RUL10	162	163.9	SST	py	fr
D	ALBERTON 5 -	Ringarooma United	RUL10	163.9	164.6	SH/QV	-	fr
D	ALBERTON 0 -	Ringarooma United	RUL10	164.6	166.2	SH	-	fr
D	ALBERTON 0 -	Ringarooma United	RUL10	166.2	170.2	SST	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL10	170.2	170.6	SH	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL10	170.6	179	SST	-	fr
D	ALBERTON 50 sil carb	Ringarooma United	RUL10	179	180.4	SH/QV	asp py	fr
D	ALBERTON 0 -	Ringarooma United	RUL10	180.4	188.4	SST	-	fr
D	ALBERTON -	Hannah Line	RUL11	0	1.3	SST	-	mox 0
D	ALBERTON -	Hannah Line	RUL11	1.3	2.6	SLT	-	mox 0
D	ALBERTON -	Hannah Line	RUL11	2.6	4.1	SST	-	mox 0
D	ALBERTON mox 10	Hannah Line sil	RUL11	4.1	4.5	QV / SLT	-	
D	ALBERTON -	Hannah Line	RUL11	4.5	10.3	SST	-	mox 0
D	ALBERTON -	Hannah Line	RUL11	10.3	10.4	SLT	-	mox 0
D	ALBERTON mox 0	Hannah Line -	RUL11	10.4	18.9	SST / SLT	-	
D	ALBERTON -	Hannah Line	RUL11	18.9	20.4	SST	-	sox 0
D	ALBERTON sil	Hannah Line	RUL11	20.4	20.6	QV	-	sox 80
D	ALBERTON -	Hannah Line	RUL11	20.6	21.95	SLT	-	sox 0
D	ALBERTON -	Hannah Line	RUL11	21.95	24.2	SST	-	sox 0
D	ALBERTON -	Hannah Line	RUL11	24.2	24.35	SLT	-	sox 0
D	ALBERTON -	Hannah Line	RUL11	24.35	25.3	SST	-	sox 0
D	ALBERTON -	Hannah Line	RUL11	25.3	25.4	QV	-	sox 80
D	ALBERTON -	Hannah Line	RUL11	25.4	26.1	SST	-	sox 0
D	ALBERTON 50 sil	Hannah Line	RUL11	26.1	26.3	QV / SST	-	sox
D	ALBERTON -	Hannah Line	RUL11	26.3	26.7	SST	-	sox 0
D	ALBERTON -	Hannah Line	RUL11	26.7	26.9	SLT	-	sox 0

D	ALBERTON	Hannah Line	RUL11 26.9	27.1	SST	-	sox	0
-								
D	ALBERTON	Hannah Line	RUL11 27.1	27.3	SLT	-	sox	0
-								
D	ALBERTON	Hannah Line	RUL11 27.3	38.9	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 38.9	39.6	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 39.6	40.15	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 40.15	41.7	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 41.7	42.6	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 42.6	42.8	ST / QV	-	fr	0
50	sil							
D	ALBERTON	Hannah Line	RUL11 42.8	46.25	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 46.25	47.05	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 47.05	52.4	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 52.4	53.3	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 53.3	58.5	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 58.5	61.6	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 61.6	63.4	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 63.4	64.2	SST / QV	-	fr	0
5	sil							
D	ALBERTON	Hannah Line	RUL11 64.2	65.4	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 65.4	66	SST / QV	-	fr	0
5	sil							
D	ALBERTON	Hannah Line	RUL11 66	67	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 67	67.1	SLT / QV	-	fr	0
10	sil							
D	ALBERTON	Hannah Line	RUL11 67.1	72.3	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 72.3	72.7	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 72.7	76.8	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 76.8	79.4	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 79.4	80.05	SLT	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 80.05	92.3	SST	-	fr	0
-								
D	ALBERTON	Hannah Line	RUL11 92.3	92.4	SLT	-	fr	0
-								

D	ALBERTON	Hannah Line	RUL11 92.4	96	SST	-	fr	0
D	ALBERTON	Hannah Line	RUL11 96	98.4	SST / QV	-	fr	
D	ALBERTON	Hannah Line	RUL11 98.4	99.25	QV	-	fr	80
D	ALBERTON	Hannah Line	RUL11 99.25	101.7	SST	-	fr	0
D	ALBERTON	Hannah Line	RUL12 0	3.3	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 3.3	3.8	SST / QV	-		
D	ALBERTON	Hannah Line	RUL12 3.8	7.1	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 7.1	7.15	SLT	-	mox	-
D	ALBERTON	Hannah Line	RUL12 7.15	8.3	SST / SLT	-		
D	ALBERTON	Hannah Line	RUL12 8.3	11.4	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 11.4	14.7	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 14.7	14.9	FLT / SLT	-		
D	ALBERTON	Hannah Line	RUL12 14.9	15.6	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 15.6	16.2	SLT	-	mox	1
D	ALBERTON	Hannah Line	RUL12 16.2	20.7	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 20.7	21	SLT	-	mox	10
D	ALBERTON	Hannah Line	RUL12 21	21.4	SST	-	mox	-
D	ALBERTON	Hannah Line	RUL12 21.4	22.6	SST / SLT	-		
D	ALBERTON	Hannah Line	RUL12 22.6	23.7	SST / SLT	-		
D	ALBERTON	Hannah Line	RUL12 23.7	25	FLT / SST	py		
D	ALBERTON	Hannah Line	RUL12 25	26.2	SST / QV	-		
D	ALBERTON	Hannah Line	RUL12 26.2	28.2	SST	-	mox	1
D	ALBERTON	Hannah Line	RUL12 28.2	28.4	SLT	-	sox	-
D	ALBERTON	Hannah Line	RUL12 28.4	30.4	SST	-	sox	1
D	ALBERTON	Hannah Line	RUL12 30.4	30.6	SLT	-	sox	-
D	ALBERTON	Hannah Line	RUL12 30.6	33.3	SST	-	sox	1
D	ALBERTON	Hannah Line	RUL12 33.3	33.8	SLT	-	sox	-

D	ALBERTON	Hannah Line	RUL12 33.8	37.1	SST	-	mox	1
D	ALBERTON	Hannah Line	RUL12 37.1	37.7	SST / QV	-		
D	ALBERTON	Hannah Line	RUL12 37.7	38.2	SLT	-	mox	5
D	ALBERTON	Hannah Line	RUL12 38.2	39.5	SST	-	mox	1
D	ALBERTON	Hannah Line	RUL12 39.5	40.2	SST	-	sox	1
D	ALBERTON	Hannah Line	RUL12 40.2	40.4	QV	-	sox	80
D	ALBERTON	Hannah Line	RUL12 40.4	40.6	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 40.6	42.6	SST / SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 42.6	43.1	SLT	-	sox	10
D	ALBERTON	Hannah Line	RUL12 43.1	44	SST	-	sox	5
D	ALBERTON	Hannah Line	RUL12 44	47.25	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 47.25	47.5	QV / SST	-	py	sox
D	ALBERTON	Hannah Line	RUL12 47.5	49	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 49	49.2	SST / SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 49.2	49.65	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 49.65	50.2	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 50.2	52.4	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 52.4	52.6	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 52.6	53.7	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 53.7	53.8	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 53.8	56.7	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 56.7	57.5	FLT	py	fr	20
D	ALBERTON	Hannah Line	RUL12 57.5	58	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12 58	58.4	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 58.4	61.8	SST / SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12 61.8	62.4	SLT	py	fr	5
D	ALBERTON	Hannah Line	RUL12 62.4	64.8	SST / SLT	py	fr	-

D	ALBERTON 20	Hannah Line	RUL12 64.8	66.5	SST / QV	-	sox
D	ALBERTON -	Hannah Line	RUL12 66.5	67	SST	- fr	-
D	ALBERTON 20	Hannah Line	RUL12 67	67.4	SST / QV / FLT-		sox
D	ALBERTON -	Hannah Line	RUL12 67.4	73.6	SST	- fr	1
D	ALBERTON -	Hannah Line	RUL12 73.6	75	SLT	- fr	-
D	ALBERTON -	Hannah Line	RUL12 75	75.4	SST	- fr	-
D	ALBERTON 20	Hannah Line	RUL12 75.4	75.45	SLT / QV / FLT	-	fr
D	ALBERTON -	Hannah Line	RUL12 75.45	77	SST	- fr	-
D	ALBERTON "sil,"	Hannah Line	RUL12 77	77.6	SST	py fr	1
D	ALBERTON fr 30	Hannah Line "sil,"	RUL12 77.6	78.5	SST / QV		"asp, py"
D	ALBERTON	Hannah Line	RUL12 77.6	80.1	LODE		
D	ALBERTON -	Hannah Line	RUL12 78.5	80	SST	- fr	-
D	ALBERTON -	Hannah Line	RUL12 80	80.1	QV	- fr	100
D	ALBERTON -	Hannah Line	RUL12 80.1	85.7	SST	- fr / sox	-
D	ALBERTON -	Hannah Line	RUL12 85.7	86.3	SLT	- fr	-
D	ALBERTON -	Hannah Line	RUL12 86.3	94.6	SST	- fr	-
D	ALBERTON -	Hannah Line	RUL12 94.6	94.9	SLT	- fr	-
D	ALBERTON -	Hannah Line	RUL12 94.9	96.9	SST	- fr	-
D	ALBERTON -	Hannah Line	RUL12 96.9	97.6	FLT	py fr	5
D	ALBERTON -	Hannah Line	RUL12 97.6	98.7	SLT	- fr	1
D	ALBERTON -	Hannah Line	RUL12 98.7	103.2	SST	- fr	-
D	ALBERTON 5	Hannah Line	RUL12 103.2	103.9	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12 103.9	104.1	QV	py fr	100
D	ALBERTON 5	Hannah Line	RUL12 104.1	107.3	SST / QV	py	fr
D	ALBERTON -	Hannah Line	RUL12 107.3	107.5	QV	py fr	80
D	ALBERTON 5	Hannah Line	RUL12 107.5	111.5	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12 111.5	111.7	FLT	- fr	-

D	ALBERTON 5 -	Hannah Line	RUL12	111.7	112.7	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12	112.7	113.4	SLT py	fr	1
D	ALBERTON 5 -	Hannah Line	RUL12	113.4	114.4	SST / QV	-	fr
D	ALBERTON 40 -	Hannah Line	RUL12	114.4	115.4	QV / SST	py	fr
D	ALBERTON -	Hannah Line	RUL12	115.4	117.3	SST -	fr	-
D	ALBERTON 30 -	Hannah Line	RUL12	117.3	119.5	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12	119.5	124.4	SST -	fr	1
D	ALBERTON -	Hannah Line	RUL12	124.4	125	SLT -	fr	5
D	ALBERTON -	Hannah Line	RUL12	125	125.4	FLT -	fr	-
D	ALBERTON -	Hannah Line	RUL12	125.4	127.8	SST -	fr	1
D	ALBERTON -	Hannah Line	RUL12	127.8	128.2	SST -	fr	-
D	ALBERTON 5 -	Hannah Line	RUL12	128.2	128.7	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12	128.7	131.2	SST -	fr	-
D	ALBERTON -	Hannah Line	RUL12	131.2	132	SST / SLT	-	fr
D	ALBERTON -	Hannah Line	RUL12	132	135.8	SST -	fr	-
D	ALBERTON -	Hannah Line	RUL12	135.8	136	QV py	fr	80
D	ALBERTON -	Hannah Line	RUL12	136	156.6	SST -	fr	-
D	ALBERTON -	Hannah Line	RUL12	156.6	157.4	SLT -	fr	-
D	ALBERTON -	Hannah Line	RUL12	157.4	158.5	SST -	fr	-
D	ALBERTON -	Hannah Line	RUL12	158.5	159.2	SLT -	fr	-
D	ALBERTON -	Hannah Line	RUL12	159.2	165	SST -	fr	-
D	ALBERTON 10 -	Hannah Line	RUL12	165	169.55	SST / QV / SLT-		fr
D	ALBERTON sil	Hannah Line	RUL12	169.55	169.65	QV -	fr	90
D	ALBERTON 5 -	Hannah Line	RUL12	169.65	172.5	SST / QV	-	fr
D	ALBERTON -	Hannah Line	RUL12	172.5	176.7	SST -	fr	-
D	ALBERTON 1 -	Hannah Line	RUL12	176.7	179	SST / SLT	-	fr
D	ALBERTON -	Hannah Line	RUL12	179	182	SST -	fr	-

D	ALBERTON 1 -	Hannah Line	RUL12 182	183.9	SST / QV	-	fr	
D	ALBERTON -	Hannah Line	RUL12 183.9	185.2	SST	-	fr	-
D	ALBERTON 1 -	Hannah Line	RUL12 185.2	187.6	SST / QV	-	fr	
D	ALBERTON -	Hannah Line	RUL12 187.6	188.7	SST	-	fr	-
D	ALBERTON 20 -	Hannah Line	RUL12 188.7	190.1	SST / SLT / QV-			fr
D	ALBERTON -	Hannah Line	RUL12 190.1	191.2	SST	-	fr	0
D	ALBERTON 20 -	Hannah Line	RUL12 191.2	192.2	SST / SLT / QV-			fr
D	ALBERTON -	Hannah Line	RUL12 192.2	205.5	SST	-	fr	0
D	ALBERTON 20 -	Hannah Line	RUL12 205.5	205.8	SST / SLT / QV-			fr
D	ALBERTON -	Hannah Line	RUL12 205.8	210.2	SST	-	fr	1
D	ALBERTON 20 -	Hannah Line	RUL12 210.2	210.4	SLT / QV	-		fr
D	ALBERTON -	Hannah Line	RUL12 210.4	213.9	SST	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 213.9	214.15	SLT	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 214.15	214.5	SST	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 214.5	214.7	SLT	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 214.7	216.35	SST	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 216.35	216.5	SLT	-	fr	0
D	ALBERTON -	Hannah Line	RUL12 216.5	218.2	SST	-	fr	0
D	ALBERTON 5 -	Hannah Line	RUL12 218.2	219.3	SST / QV / SLT-			fr
D	ALBERTON -	Hannah Line	RUL12 219.3	219.5	QV	py	fr	80
D	ALBERTON 5 -	Hannah Line	RUL12 219.5	220.4	SST / QV	-		fr
D	ALBERTON 5 -	Hannah Line	RUL12 220.4	220.7	SLT / QV	py		fr
D	ALBERTON 5 -	Hannah Line	RUL12 220.7	221.3	SST / QV	-		fr
D	ALBERTON 5 -	Hannah Line	RUL12 221.3	221.8	SLT / QV	-		fr
D	ALBERTON -	Hannah Line	RUL12 221.8	222.95	SST	-	fr	-
D	ALBERTON -	Hannah Line	RUL12 222.95	223.1	SLT	-	fr	-
D	ALBERTON -	Hannah Line	RUL12 223.1	224.3	SST	-	fr	-

D	ALBERTON	Hannah Line	RUL12	224.3	224.5	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	224.5	224.75	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	224.75	224.9	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	224.9	225.5	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	225.5	225.7	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	225.7	226.8	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	226.8	227.1	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	227.1	227.25	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	227.25	227.95	SLT	-	fr	1
D	ALBERTON	Hannah Line	RUL12	227.95	231.1	SST / QV	-	fr	
D	ALBERTON	Hannah Line	RUL12	231.1	231.2	SLT	-	fr	5
D	ALBERTON	Hannah Line	RUL12	231.2	232	QV	"asp, py"		fr
D	ALBERTON	Hannah Line	RUL12	232	234	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	234	234.3	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	234.3	235.65	SST	-	fr	1
D	ALBERTON	Hannah Line	RUL12	235.65	235.8	QV	"asp, py"		fr
D	ALBERTON	Hannah Line	RUL12	235.8	236.8	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	236.8	237	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	237	242.2	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	242.2	242.4	SLT	py	fr	10
D	ALBERTON	Hannah Line	RUL12	242.4	244.6	SST	-	fr	-
D	ALBERTON	Hannah Line	RUL12	244.6	245.25	SLT	-	fr	-
D	ALBERTON	Hannah Line	RUL12	245.25	254.4	SST	-	fr	-
D	ALBERTON	Ringarooma United	RUL13	-	3.00	MULL	-		ew
D	ALBERTON	Ringarooma United	RUL13	3.00	3.60	SST	-		hw
D	ALBERTON	Ringarooma United	RUL13	3.60	8.60	SH/SLT	-		-
D	ALBERTON	Ringarooma United	RUL13	8.60	13.70	SLTST	-		ew

D	ALBERTON	Ringarooma United	RUL13	13.70	22.40	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	22.40	22.50	FLT	-	mw
D	ALBERTON	Ringarooma United	RUL13	22.50	23.30	SHEAR/FAULT		
D	ALBERTON	Ringarooma United	RUL13	23.30	27.30	SST/QV		-
D	ALBERTON	Ringarooma United	RUL13	27.30	30.20	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	30.20	30.90	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	30.90	36.00	SST	-	lw
D	ALBERTON	Ringarooma United	RUL13	36.00	36.10	FLT	-	ew
D	ALBERTON	Ringarooma United	RUL13	36.10	44.00	SST	-	lw
D	ALBERTON	Ringarooma United	RUL13	44.00	45.60	QV/SST		py
D	ALBERTON	Ringarooma United	RUL13	45.60	52.90	SST	-	lw
D	ALBERTON	Ringarooma United	RUL13	52.90	54.40	SST	-	hw
D	ALBERTON	Ringarooma United	RUL13	54.40	56.00	FAULT /SST		-
D	ALBERTON	Ringarooma United	RUL13	56.00	57.15	SLT	-	mw
D	ALBERTON	Ringarooma United	RUL13	57.15	57.60	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	57.60	57.80	SLT	-	mw
D	ALBERTON	Ringarooma United	RUL13	57.80	58.30	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	58.30	58.90	QV / SST		-
D	ALBERTON	Ringarooma United	RUL13	58.90	59.60	SST / QV		-
D	ALBERTON	Ringarooma United	RUL13	59.60	61.90	SST	-	mw
D	ALBERTON	Ringarooma United	RUL13	61.90	62.40	SLT	-	lw
D	ALBERTON	Ringarooma United	RUL13	62.40	66.00	SST	-	lw
D	ALBERTON	Ringarooma United	RUL13	66.00	67.90	SLT / SST		-
D	ALBERTON	Ringarooma United	RUL13	67.90	73.50	SST / QV		py
D	ALBERTON	Ringarooma United	RUL13	73.50	77.10	ST	-	fr
D	ALBERTON	Ringarooma United	RUL13	77.10	78.30	SLT / QV		-
D	ALBERTON	Ringarooma United	RUL13	78.30	78.90	SST / QV		-

D	ALBERTON 100 -	Ringarooma United	RUL13	78.90	79.05	QV	-	fr
D	ALBERTON fr -	Ringarooma United -	RUL13	79.05	82.05	SST /SLT	-	-
D	ALBERTON - -	Ringarooma United	RUL13	82.05	85.00	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	85.00	89.70	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	89.70	91.00	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	91.00	92.00	SST	-	fr
D	ALBERTON fr 20	Ringarooma United -	RUL13	92.00	92.40	SST / QV	-	-
D	ALBERTON - -	Ringarooma United	RUL13	92.40	100.40	SST	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	100.40	100.50	SLT	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL13	100.50	101.20	SST	-	fr
D	ALBERTON fr -	Ringarooma United -	RUL13	101.20	102.80	SLT / SST	-	-
D	ALBERTON - -	Ringarooma United	RUL13	102.80	103.80	SST	-	fr
D	ALBERTON 90 sil	Ringarooma United	RUL13	103.80	104.10	QV	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL13	104.10	107.80	SST	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	107.80	108.10	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	108.10	108.40	SST	-	fr
D	ALBERTON fr 1	Ringarooma United -	RUL13	108.40	111.00	SST / SLT	-	-
D	ALBERTON - -	Ringarooma United	RUL13	111.00	111.60	SST	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	111.60	111.75	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	111.75	113.60	SST	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	113.60	114.90	SLT	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL13	114.90	121.90	SST	-	fr
D	ALBERTON fr -	Ringarooma United -	RUL13	121.90	122.20	SLT / SST	-	-
D	ALBERTON - -	Ringarooma United	RUL13	122.20	122.30	SLT	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	122.30	126.70	SST	-	fr
D	ALBERTON - -	Ringarooma United	RUL13	126.70	128.00	SLT	-	fr
D	ALBERTON 1 -	Ringarooma United	RUL13	128.00	129.10	SST	-	fr

D	ALBERTON	Ringarooma United	RUL13	129.10	129.40	SST / QV / LODE	
	asp py fr	80 "sil, ser, chl"					
D	ALBERTON	Ringarooma United	RUL13	129.40	131.10	SST - fr	
	5 -						
D	ALBERTON	Ringarooma United	RUL13	131.10	132.20	SST / SLT / QVasp	
py	fr 70	sil					
D	ALBERTON	Ringarooma United	RUL13	132.20	134.30	SST / QV asp	
py	fr 10	sil					
D	ALBERTON	Ringarooma United	RUL13	134.30	135.25	SLT - fr	
	5 -						
D	ALBERTON	Ringarooma United	RUL13	135.25	138.40	SST - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	138.40	143.80	SST / SLT -	
	fr -	-					
D	ALBERTON	Ringarooma United	RUL13	143.80	144.50	SLT - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	144.50	145.40	SST - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	145.40	145.60	QV - fr	
	100 sil						
D	ALBERTON	Ringarooma United	RUL13	145.40	145.60	QV / LODE asp	
	fr 90	-					
D	ALBERTON	Ringarooma United	RUL13	145.60	147.80	SST / SLT	
	"asp, py"	fr 5 -					
D	ALBERTON	Ringarooma United	RUL13	147.80	148.70	QV / SST PY	
	fr 40	sil					
D	ALBERTON	Ringarooma United	RUL13	147.80	148.70	SST / QV / LODE	
	asp fr	20 -					
D	ALBERTON	Ringarooma United	RUL13	148.70	150.40	SST - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	150.40	150.55	SST / DYKE asp	
	fr -	-					
D	ALBERTON	Ringarooma United	RUL13	150.55	151.10	SST / QV -	
	fr 10	-					
D	ALBERTON	Ringarooma United	RUL13	151.10	154.10	SST - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	154.10	156.00	SLT - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL13	156.00	157.40	SST - fr	
	- -						
D	ALBERTON	Ringarooma United	RUL14	-	4.00	MULL / SOIL -	
	ew -	-					
D	ALBERTON	Ringarooma United	RUL14	4.00	5.50	SST / SLT -	
	hw -	-					
D	ALBERTON	Ringarooma United	RUL14	5.50	6.50	SST - hw	
	- -						
D	ALBERTON	Ringarooma United	RUL14	6.50	9.30	SST / QV -	
	hw 10	-					
D	ALBERTON	Ringarooma United	RUL14	9.30	12.60	SST - hw	
	- -						
D	ALBERTON	Ringarooma United	RUL14	12.60	13.60	SST / QV -	
	hw 10	-					
D	ALBERTON	Ringarooma United	RUL14	13.60	17.20	SST - mw	
	- -						

D	ALBERTON 1	Ringarooma United	RUL14	17.20	21.80	SLT	-	hw
D	ALBERTON -	Ringarooma United	RUL14	21.80	23.80	LOSS	-	mw
D	ALBERTON -	Ringarooma United	RUL14	23.80	26.20	SST	-	mw
D	ALBERTON -	Ringarooma United	RUL14	26.20	26.60	SLT	-	mw
D	ALBERTON 1	Ringarooma United	RUL14	26.60	28.80	SST	-	mw
D	ALBERTON mw	Ringarooma United	RUL14	28.80	32.70	SST / SLT	-	
D	ALBERTON -	Ringarooma United	RUL14	32.70	36.80	SST	-	mw
D	ALBERTON mw	Ringarooma United	RUL14	36.80	38.10	SLT / SST	-	
D	ALBERTON -	Ringarooma United	RUL14	38.10	43.10	SST	-	mw
D	ALBERTON mw	Ringarooma United	RUL14	43.10	44.10	SST / QV	-	
D	ALBERTON 5	Ringarooma United	RUL14	44.10	46.00	SST	-	mw
D	ALBERTON -	Ringarooma United	RUL14	46.00	46.50	FAULT-		ew
D	ALBERTON -	Ringarooma United	RUL14	46.50	49.90	SLT	-	mw
D	ALBERTON mw	Ringarooma United	RUL14	49.90	50.40	SLT / QV / FAULT		
D	ALBERTON 10	Ringarooma United	RUL14	50.40	52.50	SST	-	mw
D	ALBERTON -	Ringarooma United	RUL14	52.50	54.10	SST	-	hw
D	ALBERTON mw	Ringarooma United	RUL14	54.10	57.20	SST / SLT	-	
D	ALBERTON mw	Ringarooma United	RUL14	57.20	58.70	SLT / SST	-	
D	ALBERTON mw	Ringarooma United	RUL14	58.70	59.40	QV / SST	-	
D	ALBERTON 70	Ringarooma United	RUL14	59.40	61.00	SST	-	mw
D	ALBERTON mw	Ringarooma United	RUL14	61.00	62.80	SLT / QV	-	
D	ALBERTON 10	Ringarooma United	RUL14	62.80	63.30	FAULT-		hw
D	ALBERTON hw	Ringarooma United	RUL14	63.30	65.70	SLT / FAULT	-	
D	ALBERTON -	Ringarooma United	RUL14	65.70	67.70	SLT	-	lw
D	ALBERTON lw	Ringarooma United	RUL14	67.70	73.70	SLT / QV	-	
D	ALBERTON 100	Ringarooma United	RUL14	73.70	73.90	QV	py	lw
D	ALBERTON sil	Ringarooma United	RUL14	73.90	74.20	SST / QV	-	
D	ALBERTON fr	Ringarooma United	RUL14	73.90	74.20	SST / QV	-	

D	ALBERTON	Ringarooma United	RUL14	74.20	74.80	SLT / QV	-	
	fr -	-						
D	ALBERTON	Ringarooma United	RUL14	74.80	79.30	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	79.30	81.00	SLT	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	81.00	81.70	ST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	81.70	82.00	SLT	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	82.00	83.00	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	83.00	83.70	SST / QV	-	
	fr 10	-						
D	ALBERTON	Ringarooma United	RUL14	83.70	87.00	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	87.00	87.20	SST / QV	-	
	fr 20	-						
D	ALBERTON	Ringarooma United	RUL14	87.20	88.60	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	88.60	88.70	QV	"asp, py"	
	fr 90	sil						
D	ALBERTON	Ringarooma United	RUL14	88.70	93.65	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	93.65	96.70	SLT	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	96.70	100.10	SLT / QV	-	
	fr 1	-						
D	ALBERTON	Ringarooma United	RUL14	100.10	106.20	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	106.20	106.40	SLT	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	106.40	107.30	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	107.30	107.80	SLT	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	107.80	118.50	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	118.50	119.60	SST / QV	-	
	fr 1	-						
D	ALBERTON	Ringarooma United	RUL14	119.60	119.65	QV	-	fr
	100 -							
D	ALBERTON	Ringarooma United	RUL14	119.65	121.20	SST	-	fr
	10 -							
D	ALBERTON	Ringarooma United	RUL14	121.20	122.90	QV / SST	-	
	fr 80	-						
D	ALBERTON	Ringarooma United	RUL14	122.90	123.20	SST / SLT / QV-		
	fr 10	-						
D	ALBERTON	Ringarooma United	RUL14	123.20	123.80	SST	-	fr
	- -							
D	ALBERTON	Ringarooma United	RUL14	123.80	125.70	SST / QV	-	
	fr 50	-						
D	ALBERTON	Ringarooma United	RUL14	125.70	126.60	SST	-	fr
	- -							

D	ALBERTON	Ringarooma United	RUL14	126.60	126.90	SLT	-	fr
	-	-						
D	ALBERTON	Ringarooma United	RUL14	126.90	128.00	QV / SLT		
	"asp, py"	fr 80 sil						
D	ALBERTON	Ringarooma United	RUL14	128.00	132.80	SST / QV		-
	fr 10	-						
D	ALBERTON	Ringarooma United	RUL14	132.80	138.50	SST / SLT		-
	fr 0	-						
D	ALBERTON	Ringarooma United	RUL14	138.50	139.40	SST / QV		-
	fr 5	-						
D	ALBERTON	Ringarooma United	RUL14	139.40	143.40	SST	-	fr
	-	-						
D	ALBERTON	Ringarooma United	RUL14	143.40	143.70	SLT	-	fr
	-	-						
D	ALBERTON	Ringarooma United	RUL14	143.70	144.30	SST	-	fr
	-	-						
D	ALBERTON	Ringarooma United	RUL14	144.30	144.60	SST / QV		-
	fr 30	-						
D	ALBERTON	Ringarooma United	RUL14	144.60	151.20	SST / SLT		-
	fr -	-						
D	ALBERTON	Ringarooma United	RUL14	151.20	152.60	QV	"asp, py"	
	fr 70	sil						
D	ALBERTON	Ringarooma United	RUL14	152.60	153.70	SST	"asp, py"	
	fr 1	sil						
D	ALBERTON	Ringarooma United	RUL14	153.70	154.00	SST/QV		
	"asp, py"	fr 1 sil						
D	ALBERTON	Ringarooma United	RUL14	154.00	158.60	SST	-	fr
	1	-						
D	ALBERTON	Ringarooma United	RUL14	158.60	158.80	SLT	-	fr
	-	-						
D	ALBERTON	Ringarooma United	RUL14	158.80	161.60	SST / SLT		-
	fr -	-						
D	ALBERTON	Ringarooma United	RUL14	161.60	164.30	SLT / QV		
	"asp, py"	fr 1 -						
D	ALBERTON	Ringarooma United	RUL14	164.30	164.40	QV	-	fr
	90	-						
D	ALBERTON	Ringarooma United	RUL14	164.40	164.80	SST	-	fr
	-	-						

EOF

APPENDIX 5

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2014
H0004 Reporting period end_date 41371
H0005 State Tasmania
H0100 Tenement_name EL25_2004
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Alberton
H0113 Map_sheet_number 100K NORTH EAST
H0123 Map_sheet_number 50K 5643; RINGAROOMA
H0123 Map_sheet_number 25K 5642; ALBERTON
H0200 Start_date_of_data_acquisition 41007
H0201 End_date_of_data_acquisition 41371
H0202 Data_format DL1
H0203 Number_of_data_records 35
H0204 Date_of_metadata_update 41364
H0300 FileNames
H0301 lithology_code_file EL252004_201314_06_lithcode.txt
H0502 Vertical_datum AHD
H0506 Surveying_instrument
H0507 Surveying_company
H0900 Remarks Logging Codes
H1000 Code Lithology
H1001
H1004
D LITHOLOGY
D CODE LITHOLOGY
D QV Quartz vein
D SLTST Siltstone
D SLT Slate
D SH Shale
D CL Clay
D SST Sandstone
D FAULTFault
D SHR Shear zone
D GRAN Granite
D GRIES Griesen
D
D WEATHERING
D CODE WEATHERING
D fr FRESH
D vox Very Oxidised (Weathered)
D mox Moderately Oxidised (Weathered)
D sox Slightly Oxidised (Weathered)
D NULL NO MATERIAL(Core loss - void)
D
D MINERAL
D CODE MINERAL
D gal Galena
D bar Barite
D - No Sulphides present
D py Pyrite
D sph Sphalerite

D cass Cassiterite
D mal Malachite
D stan Stanite
D sul Undefined Sulphide
D flour Florite
D cpy Chalcopyrite
D
D ALTERATION
D CODE ALTERATION
D 0 No visible alteration mineralis
D 1 "Minor bleaching, silica, carbonate and pyrite"
D 2 "Moderate sericite, silica and carbonate with minor base metals"
D 3 "Strong to pervasive sericite, silica and carbonate with abundant base metals including pyrite"
D 4 "Intense sericite, silica and carbonate bleaching with base metals and pyrite (Massive Sulphide)"
D
D ALTERATION_STYLE
D CODE ALTERATION_STYLE
D sil silicification
D feox iron oxide staining (after sulphide)
D carb carbonated
D ser sericitised
EOF