

EL25/2004 ALBERTON

TASMANIA

ANNUAL TECHNICAL REPORT

APRIL 8TH 2012 – APRIL 7TH 2013

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

ABN: 26 079 634 692

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VERIFICATION LISTING

Exploration Work	File_name	Type	Format	Description
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Office Studies

Report	EL252004_201213_01_report	pdf		Report Body
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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 granted on 8th October 2004 to Low Impact Diamond Drilling Specialists Pty Ltd (LIDDS).

During 2012 – 2013 significant literature studies were undertaken to determine if historic work on the Hannah line was worthy of testing.

As a result of the review two holes for a total of 347.1 metres were drilled. Assay results indicated that the Hannah Reef where intersected was mineralised to a low level and indicates that it is worthy of further investigation. An additional reef was intersected.

The reef returned an intersection of **0.15m @ 38.9 g/t Au and 4.0 g/t Ag**.

It is anticipated that additional drilling will occur from the current pad along with an expanded review of other prospects within the licence.

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, Gumsucker, Thomas, Hannah, Rosalyn, Strachan Reef, Roaring Meg Reef, Mercury Mine, Victoria Reef, Long Struggle Reef, Short Struggle Reef, Caxton Reef, Scotchman Reef, Montana 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 in October 2011 with approval granted on 8th April 2012.

During the current one (1) year extension to the licence the holder has undertaken 247.1 metres of diamond drilling

The area explored during the last 12 months has focussed primarily on the Hannah mineralised structure in the immediate Ringarooma United Mine area, the major producer on the Alberton Goldfield.

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 revised structural modelling additional exploration targets both near the Ringarooma United (Hannah and Thomas lodes) have been identified. Additional mineralised areas within the Alberton Goldfields have still to be prioritised in regards to future exploration.

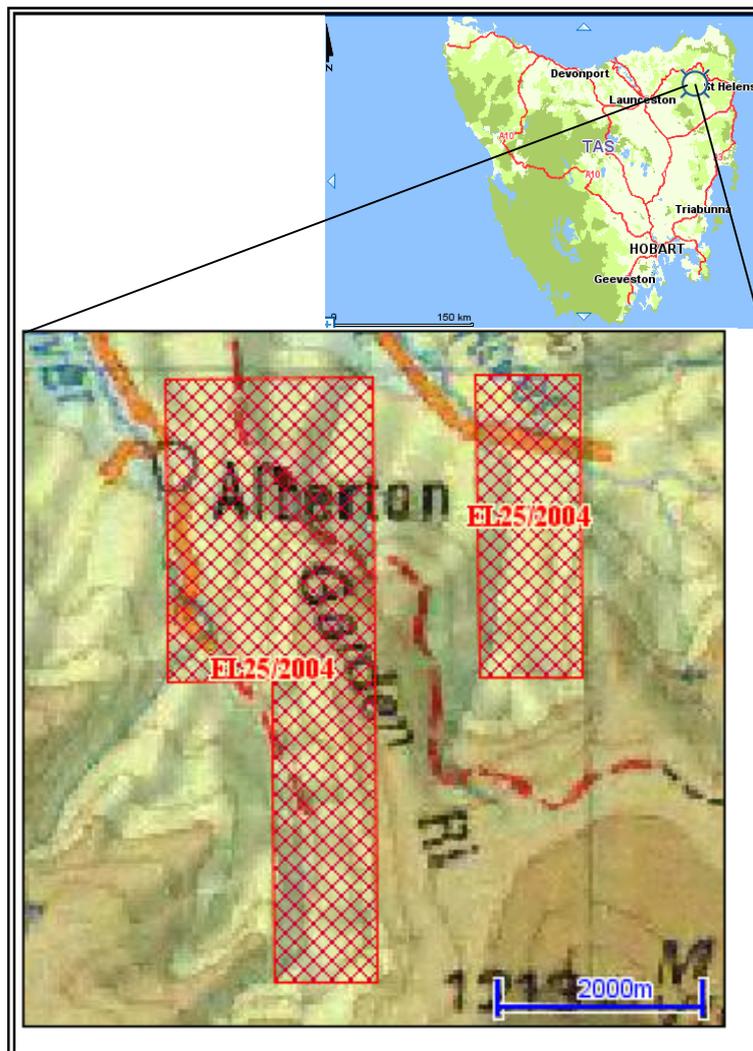
3.0 Location and Access.

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 interest 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	To (m)	INTERVAL	AU	AG	AS	COMMENT
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	(m)		(m)	(g/t)	(g/t)	(ppm)	
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 and the reversion to a six month licence extension (which was taking up to 3 months to be granted) meant that only data and minor literature reviews were able to be completed. In April 2012 a new 12 month licence renewal was granted.

6.0 Exploration Completed During the Reporting Period

6.1 Work Completed

During the 2012 – 2013 reporting period an extensive review of all available information was undertaken principally in order to determine the nature and amount of work done on the Hannah line.

Information was gained principally from a review of the Launceston Examiner Newspaper between 1926 and 1938 (Attachment 1) which indicated that extensive development had been undertaken on the Roslyn Adit (Figure 2) in an attempt to test for mineralisation below the Hannah Adit (located 45 metres above).

A total of 276 metres of development had been undertaken on the Roslyn Adit beyond the position of the Premier Stope; with most of it occurring between 1926 & 1938, before work was ultimately abandoned due to lack of capital and apparently unfavourable results. How much work has been undertaken on the extended workings since 1938 is at this stage unknown.

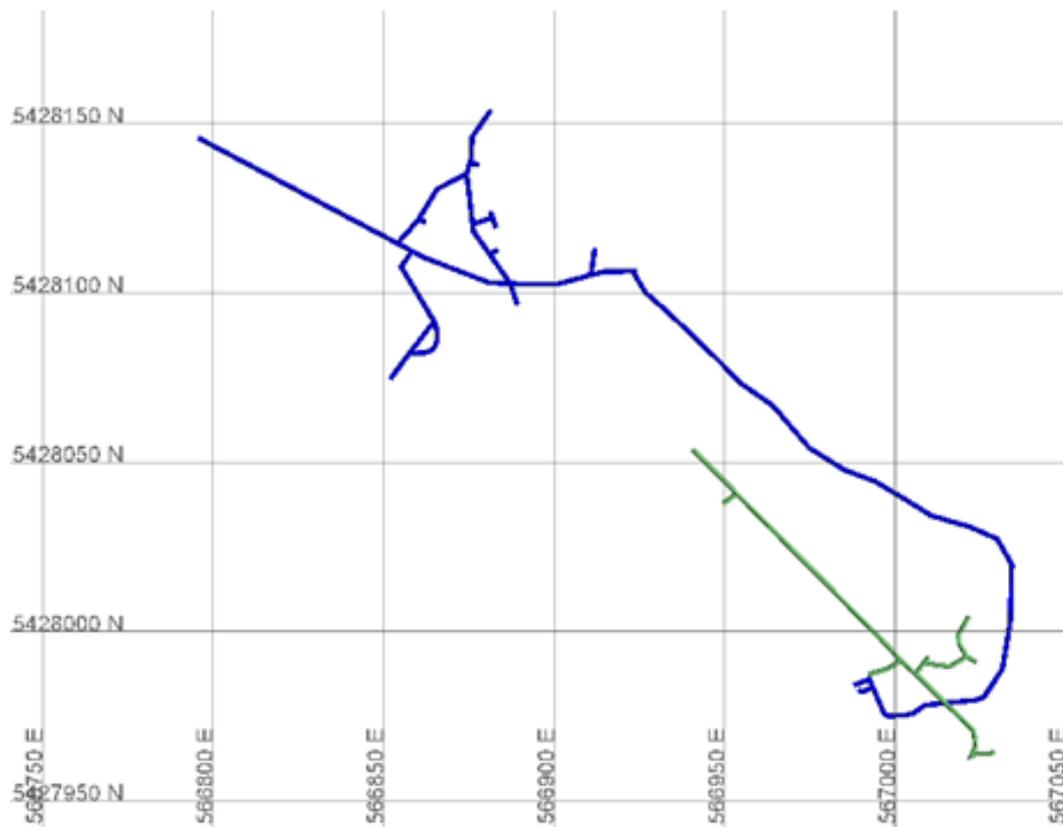


Figure 2. Roslyn Extended Adit (Blue) and Hannah Adit (Green) Plan.

Development at the end of the driving of a short north-westerly cross-cut for 12.5 metres from which two short (4.5 metre) stub drives were driven in a west south-westerly direction would appear to indicate that this development was occurring on some form of mineralisation.

If the development on the short stub drives is was related to mineralisation on the Hannah Lode developed on the Hannah adit 45 metres above the projected dip of the Hannah lode would be between 83° and 85° degrees to the south-east. If

however the main drive driven on a west south-westerly course for some 28 metres was the Hannah lode then the projected dip would be around 71° to the east.

As a result of the literature review a diamond drill hole (RUL11) was planned to test the Hannah line at depth and confirm the dip of the structure.

RUL11 had been completed to a depth of 101.7 metres before gear failure resulted in the loss of the core barrel. Several attempts were made to recover the equipment and the hole but ultimately the hole and gear were abandoned in situ.

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.

During the drilling of both RUL11 & RUL12, quartz veining and associated stockwork was intersected between 98.40 and 99.25 metres down hole in RUL11 and between 77.60 and 80.8 metres down hole in RUL12. Additional quartz veining and stockwork was intersected in RUL12 between 235.70 – 235.85 metres and 237.20 – 238.10 metres.

A total of five (5) samples were submitted for analysis, results are shown in Table 3.

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

A review was also undertaken to evaluate all previous drilling undertaken at the Ringarooma United area in light of the new structural interpretations.

Site investigations were also undertaken on the Heathorn and Mt Victoria workings with the intention of expanding future investigations, specifically to follow up on previous anomalous results returned from around the Mt Victoria / Struggle group of workings.

7.0 Discussion and Conclusions.

The results of the drilling of RUL11 and RUL12 indicate the presence of an intermediate mineralised structure exemplified by the intersection of **0.15m @ 38.1 g/t gold** from 80.70 metres down hole in RUL12.

Broader zones of lower grade mineralisation intersected in both RUL11 and RUL12 (0.85 metres and 0.70 metres wide respectively) immediately above the high grade intersection would appear to indicate that the high grade intersection from RUL12 was not quite reached before RUL11 had to be abandoned and may have in fact been in the core barrel when it was lost.

An examination of the Roslyn Extended Level Plan records the presence of a number of veins dipping 70° to the south west around the coordinate (567001mE, 5428040mN). It is possible that the quartz veining stockwork and associated narrow high grade gold vein intersected in RUL12 may be the same as that recorded in the Level Plan.

No significant quartz veining or mineralisation was intersected until around the 231 – 236 metre mark in RUL12. This would tend to conclusively prove that the Hannah lode does dip around 68° - 70° to the south-east.

Although assay results for the Hannah lode intersection were disappointing with the best result being **0.15m @ 0.77 g/t Au** the intersection is 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.

The significance of the development and reasoning for the north-westerly cross-cut at the extreme end of the Roslyn Extended workings remain a mystery.

A review of all previous drilling undertaken at the Ringarooma United mine was also undertaken and has determined that a number of previous drill holes, (specifically RUL04 – 07); which were drilled to intersect an assumed westerly dipping Ringarooma Mine structure, may well have stopped short of the target depth; now that the structure is known to dip to the east. An inspection of the condition of the holes would need to be undertaken to determine the feasibility of re-entering and extending the holes.

Exploration for the 2013 – 2014 period will follow-up on the mineralisation intersected in the Hannah and associated lode. Additional drill holes may also be drilled from the current drill pad back toward the Ringarooma Reef. The possibility of re-entering of some of the earlier RUL series holes may also be examined.

8.0 Expenditure 2012 – 2013

Geoscientific Costs

- Geology \$22,244
- Geochemistry \$187
- Geophysics -
- Remote Sensing -

Drilling & Gridding Costs

- Gridding -
- Drilling \$54,323

Land Access Costs -

Rehabilitation Costs -

Feasibility Study Costs -

Other Items \$18,630

Administration Costs \$1,680

Total Costs \$97,063

9.0 References

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Attachment 1.

Examiner (Launceston)

Monday 30 August 1926

THE ALBERTON FIELD.

At Alberton, some 17 miles from Mathinna in a direct line, prospecting and developmental work is still being carried on. In fact, some £40,000 has been expended in this field since 1920. Those at present working on it are the Hannah Syndicate, Fowler's Alluvial, Matthews (Mount Victoria), and M. Wallace and Co. The Hannah Syndicate are driving two tunnels, the work being carried out by contract, two shifts working in each. Good progress is being made in both works. The objective of the Premier tunnel is to strike the lode in the winze of Hannah's tunnel, from which some rich stone has been taken out. The Strahan tunnel is being driven to strike the Junction of the Strachan and Fowler's lode. This tunnel will also get underneath the winze sunk by the late manager of the Ringarooma, Mr. Eddy. Mr. Donald Fraser has just completed the surveying of the lodes and tunnels.

Examiner (Launceston)

Tuesday 12 November 1929

THE MOUNT VICTORIA FIELD.

MINING AT ALBERTON

At Hannah's mine, formerly the Ringarooma United, at Alberton, driving is proceeding in extending the tunnel in the lower workings. A big proposition has been tackled. Indications, however, are favourable for again striking the gold reef. The mine manager (Mr. J. Pickett), in a report under Saturday's date, states: "The ground in the face is a lot better than we have had. There is a quartz formation coming in, running the same way as we are driving."

The mine is well equipped with machinery, and a strike on the lode could be expeditiously dealt with.

Examiner (Launceston)

Friday 15 November 1929

MINING

ALBERTON FIELD

Hannah Mine

Some, interesting developments are now occurring at the Hannah gold mine, formerly the Ringarooma United at Alberton in the Mount Victoria district. The mine manager (Mr. J. Pickett), in a report under Tuesday's date states that the drive in the lower tunnel has been extended 5ft., the total distance for the fortnight being 1ft. The drive is now in 232ft. on the present workings. The formation in the face has made into a lode channel with a nice footwall, and Mr. Pickett adds, looks likely to make into something ahead. The quartz is blue mineral stone, giving promising indications.

Examiner (Launceston)
Tuesday 4 February 1930
MOUNT VICTORIA FIELD
ALBERTON DISTRICT

An exception, however, is Hannah's Mine, formerly the Ringarooma Limited, close to the township of Alberton. The property is a network of tunnels and drives, from which yields had been obtained, and now it is the objective to again pick-up the reef or reefs. Equipped with a fine plant, the work of tunnelling is continued, and the kindly looking country which is being passed through gives much encouragement for the likelihood of the achievement of the objective - the striking of the lode.

Examiner (Launceston)
Friday 21 February 1930
MOUNT VICTORIA FIELD
DEVELOPMENT AT ALBERTON

At Hannah's mine at Alberton a strike of nice-looking gold-bearing stone has been made, and, samples which were on view at Mr. L. Stackhouse's offices; St. John Street, yesterday, attracted much attention. The strike is the result of systematic tunnelling, carried, on persistently by the owner for many months past.

The property was formerly, known as the Ringarooma Limited, worked by a South Australian company, and is well equipped with machinery. Some years ago rich "makes" of gold were discovered in the top, or Hannah's, tunnel, where the gold was averaging 14oz. to the ton, but an inrush of water caused a cessation of operations, not before highly satisfactory returns had been obtained. Shafts had been sunk and other tunnels driven. When the present owner took possession he decided on extending and driving from what is known as the Roslyn tunnel, lower than Hannah's, to junction the three lodes. This has involved considerable work, but the satisfactory result has been to strike gold-bearing stone.

The samples show that the quartz, which is bluish, is mineralised, and gold is showing freely throughout. Some of the stone was "dolleyed" at the mine, the manager (Mr. J. Pickett) to reporting that the result was free gold. The face of the drive is in good country, and water is making freely. It is estimated that, the junction of the three lodes should be effected in about another 150ft. of driving.

Examiner (Launceston)
Wednesday 5 March 1930
MOUNT VICTORIA DISTRICT
DEVELOPMENTS AT ALBERTON

The recent developments at Hannah's mine, late Ringarooma United, at Alberton, have created considerable interest, so much so that it has been found necessary by the

management to post notices at the entrance to the Roslyn tunnel, where the strike of rich stone was made, prohibiting persons from entering. The tunnel is now close on 1000ft. In length, and without a guide those attempting to go through the workings to where operations are being carried on run considerable risk. On one or two occasions miners returning off shift have met small parties attempting, with the aid of matches, to penetrate the darkness, and had to advise them to go back.

Driving on the make of gold-bearing stone is being continued, and there seems to be little or no alteration in the nature of the country. Water, however, continues to come in freely. It is to junction three lodes, including the rich make in the top of Hannah's tunnel, which was giving such handsome returns when an in-rush of water caused operations to be suspended, that the Roslyn tunnel is being extended. Present indications go to show that the junction, if it is successful, should be made in another 130 ft. of driving.

Examiner (Launceston)

Wednesday 9 July 1930

MOUNT VICTORIA FIELD

ALBERTON DISTRICT

Ringarooma United Mine

The Ringarooma United mine, at Alberton, a few miles from New River, owned by the late Mr. Michael Hannah, have been closed down for about a fortnight, but it is understood that negotiations are proceeding between the executors of the estate and the representatives of a syndicate for the early reopening. When operations ceased, shortly after the death of Mr. Hannah, driving in the Roslyn tunnel, which is in about 400ft., to cut a lode under a winze, was in progress. This work is to be continued. When the winze was opened out 80 tons of stone was taken out, and averaged 2oz. to the ton. The inrush of water caused operations to cease, and the extension of the tunnel is with the object of getting under the winze. The mine is well equipped with machinery.

The work that has been going on at the Ringarooma United was followed with much interest, as developments there will have an important bearing on other mines in the immediate vicinity. The Forest King, north and adjoining the Ringarooma United, had a tunnel driven for 225ft., and then a winze was struck. The lode, showing good gold, was cut a depth of 30ft. About 50 tons of quartz was grinded, assays going remarkably well; but water came in too freely, and operations had to be suspended. A proposal to install a pumping plant was not gone on with.

Examiner (Launceston)

Saturday 19 July 1930

THE SEARCH FOR GOLD

REVIEW OF ACTIVITIES IN NORTHERN TASMANIA.

The Ringarooma United, which is splendidly equipped, was owned by the late Michael Hannah, and arrangements are being finished with the executors of the estate by a small syndicate to take over the mine, machinery, and plant on tribute, and it is expected that active operations by at least two shifts will shortly be commenced. A considerable amount of work has been done on this mine, and it is proposed to continue to drive the tunnel to intersect what is known as the fifth lode, and also to open out on another lode.

Examiner (Launceston)

Monday 3 November 1930

RINGAROOMA UNITED

ACTIVE OPERATIONS RESUMED

Following on the visit of the directors of the syndicate that has taken over the Ringarooma United Gold Mines at Alberton, Mount Victoria, active operations have been resumed on the property. The plant and machinery were found to be in thorough working order, and a start has been made with the continuation of the drive to intersect a winze in the top (Hannah's) tunnel, from which rich gold bearing stone had been obtained when an inrush of water caused a cessation of work. To intersect this winze the late Mr. Michael Hannah commenced driving from the lower, or Rosalind tunnel, and had gone in about 430ft. when his death occurred. Mr. A. Brewer, mining surveyor, who accompanied the directors and the secretary (Mr. W. Robinson) on the visit, took a check survey of the driving, and calculated that only about 26ft more driving is required to reach the objective. During their visit the directors made an examination of the mine workings, which include six tunnels where lodes had been exposed, and gold bearing stone was practically ready for the battery. When the present driving is completed attention is to be directed to these lodes, as well as carrying on further exploratory work.

The re-opening of the Ringarooma United Mines has created much interest in the Alberton and Ringarooma districts, as in the former a good deal of prospecting is going on, spreading over a large area, and the work decided on by the syndicate will prove the value of the lodes at a depth. This will have a considerable bearing on the future of the field.

Examiner (Launceston)

Thursday 13 November 1930

At Alberton

From Scottsdale the party yesterday morning went on through Ringarooma to Alberton near the foot of Mount Victoria and spent some time at the Ringarooma. United mine. This was

recently taken over by a Launceston syndicate from the trustees of the late Michael Hannah's estate. Mr. J. Pickett is in charge. A good deal of gold has come from these workings in former days, and some very rich patches yielded fine returns while they lasted. It was here that when the first crushing was made from the original tunnel, which, incidentally, paid immediately for the work done up to that stage, the occasion was marked by a dance being held in the spacious opening cut from the tunnel, and a piano was even taken in the place for the purpose. But that was many years ago. There have been several tunnels since. The present operations consist of extending a tunnel with a view to cutting the downward continuation of a reef which had formerly been sunk upon from a higher level.

Good prospects had resulted from the tunnel in this higher level until water had prevented progress on the reef. Now, as indicated, the idea is to connect from 200ft. below. It is thought that another month or six weeks will prove it out. The engine providing the compressed air for operating the drill is in first-class order, and the crushing plant is also ready when required. It will be a long time before there vanish the marks of the tremendous torrent which, as the result it is thought of a big cloud burst, tore down the hillside at the foot of which is the site of the old Long Struggle mine. The next place visited was further out from Alberton. The flood here left Mr. .T. Sowell's battery and plant near the mouth of the tunnel. The rehabilitation of this plant is aimed at with a view not only to recommencing operations at the mine, but possibly also treating any stone which might be secured from adjacent property, such as that of Messrs. Ferris and Lowe, who have a prospect which they wish to open out. This prospect nearby was inspected at the same time.

Examiner (Launceston)

Thursday 25 December 1930

SEARCHING FOR GOLD

NORTH MOUNT VICTORIA

A good deal of prospecting for gold is going on in the Alberton and New River districts at North Mount Victoria, and on some shows developmental work is proceeding. Mr. J. Matthews is working a property known as the old Mount Victoria mine, with, it is understood, satisfactory results. Mr. Matthews has been associated with the field for many years, and had charge of the Ringarooma United before the property was taken over by the late Mr. Michael Hannah from an Adelaide company.

At the Ringarooma United mines at Alberton the stripping of the lode where it was cut 178ft. from the winze in gold-bearing stone is being continued, and the prospects are most encouraging. A striking feature is the permanency of the formation, which is heavily mineralised. But with the small staff engaged progress is necessarily slow. Other lodes have been uncovered, and it is understood that these are to receive attention after the development of the present workings.

Examiner (Launceston)

Tuesday 28 July 1931

MINING ALBERTON FIELD

RINGAROOMA UNITED MINE

At the Ringarooma United Mine at Alberton, driving to intersect the gold bearing stone on the winze in Hannah's or top tunnel is being continued. There have been some stoppages due to mishaps to the air compressors, two breakdowns having occurred when an interesting stage in the driving had been reached. During the week-end the property was visited by Mr. A. M. Brewer, mining surveyor, and Mr. W. Robinson, secretary to the syndicate that has taken over the property. A thorough examination and a survey of the workings was made, and recommendations for future operations discussed with the mine manager (Mr. John Pickett). Where driving was now going on, water, highly mineralised and oxidised was freely coming in on an improved wall, which it was considered might prove to be the hanging wall of the main lode. It was decided to have the wall bored, with the object of driving along the reef.

Stone from gold shows at Alberton and New River continues to be treated at the Ringarooma United battery. A crushing of 10 tons sent in by Mr. J. C. Matthews and party, who are working the Mount Victoria mine, gave highly satisfactory results. Another parcel is being got out from Messrs. Krushka Bros.' find for treatment in the course of a few days. Mr. J. Sowell and party are continuing work at the Struggle mine and others are engaged in different parts of the field.

Examiner (Launceston)

Wednesday 16 December 1931

MINING

RINGAROOMA UNITED MINE

VISIT OF DIRECTORS

Messrs. A. A. Rankin and J. J. Cridge, directors of the Ringarooma United Gold Mining Syndicate, accompanied by some shareholders, visited the property at Alberton on Monday, and made an inspection of the workings. In the drive to the Hannah tunnel it was found that good progress was being made. The contractors, Mr. C. Lowe and party, were now in 5ft. in splendid looking soft slate, which had been proved a further distance of 3ft. Important developments are expected in this portion of the drive, as the indications are favourable. The lode showing in the upper level, according to the underlie, should be very close. Samples of quartz were taken from the 4ft. formation, which had been passed through in the course of driving. The stone in the formation is mottled quartz of a favourable appearance, and the directors decided that if the assay results were sufficiently favourable further work will be done.

Examiner (Launceston)

Friday 29 January 1932

MINING

ALBERTON FIELD

RINGAROOMA UNITED

The principal work going on at the Alberton field, North Mount Victoria, is at the Ringarooma United mine. Driving from the Rosalind tunnel to intersect the lode in the Hannah, or top, workings is being continued, and about ten days ago the long looked for slide was met. The break was gone through, and then what was believed to be the Hannah lode was struck. Mineralised quartz was intermixed with the country. It was considered possible that this was the south part of the Hannah lode, where it hit in the slide. Since then the contractors have driven about 5ft. along the course of the stone, but it has pinched considerably. A change of country was coming in the face, dark slate being met. Opening out on the stone is now going on to prove definitely whether this is the lode.

Examiner (Launceston)

Friday 29 January 1932

MINING

ALBERTON FIELD

RINGAROOMA UNITED MINE

Dealing with operations at the Ringarooma United Mine at Alberton, the manager (Mr. J. Pickett) has reported to the directors that the contractor has extended the drive a further 7ft. for the fortnight, the face still being in hard country. There was a little mineralised quartz showing. Some delay had been caused owing to the shortage of explosives. The drive was now about 7ft. past the position from the winze and the Hannah tunnel was expected to be picked up. The country, however, was good for lode mining, and when the drive was straightened up a bit they might pick up the reef within the next few days.

Messrs. Reece and T. Pickett, tributing on the property, were sinking and prospecting on No. 1 lode from the surface. This was east and above the Hannah lode. Nice looking stone was showing underfoot.

Examiner (Launceston)

Friday 8 July 1932

MINING

NORTH MOUNT VICTORIA

At the Ringarooma United mine at Alberton work is being carried out in the adit leading to the Hannah lode. During the past fortnight a distance of 10ft. has been driven. The manager states that there is a small vein of quartz showing in the formation, otherwise no change in the country. It is anticipated that the gold-bearing stone will be picked up in another 10ft. or 15ft. of driving.

Examiner (Launceston)

Friday 8 July 1932

ALBERTON FIELD

A good deal of general mining work is being carried out on the Alberton Field, extending through North Mount Victoria the properties being worked including the Mount Victoria Mine by Mr. J. C. Matthews, the Short Struggle, and sections at New River. At the Ringarooma United Mine, driving on the adit from the Rosalind tunnel to the Hannah lode is being continued but during the last few feet there has been little or no alteration in the face. From the nature of the formation, however, it is not unlikely that the lode will be struck within a short distance, the indications generally being very favourable. At New River about four miles from Alberton, some prospectors are engaged in mining for alluvial gold. There are several reefs in the vicinity upon which a good deal of work has been done, but owing to the lack of capital, further developmental work is practically at a stand-still.

Examiner (Launceston)

Friday 5 August 1932

MINING

ALBERTON FIELD

At the Ringarooma United mine at Alberton, driving the adit from the Rosalind tunnel to the upper workings is being continued. The face is still in fairly good country, and water is coming in, presumably from the winze in the Hannah tunnel.

Examiner (Launceston)

Thursday 29 September 1932

MINING

NORTH MOUNT VICTORIA

POSSIBILITIES UNDERGROUND

Underground, prospecting work on portions of the Alberton field, North Mount Victoria, to test the gold-bearing reefs at a depth are shortly to be carried out by the Mines Department, and in this connection the Assistant Secretary for Mines (Mr. J. B. Scott) is now visiting the locality. Many of the shows have been proved on the surface, and no one can say what they might develop at a depth. Gold may not be met with at any given point, but that it exists in the very channels below does not admit of any doubt whatever. Boring operations are to be carried out under the Rosalind tunnel in the Ringarooma United Mine from which a large quantity of gold had been won during the early career of this property, and these should be of great assistance in determining the values and geological features at a depth. There are other reef channels in close proximity, particularly at the Mercury mine, which are considered well worthy of a thorough test.

RINGAROOMA UNITED MINE

The work now proceeding at the Ringarooma United Mine, as outlined in a report by the mine manager (Mr. J. Pickett) to the directors of the syndicate at Launceston, is of more than usual interest, and it states :- The contractors are now driving along a 4ft. lode in the adit from the Rosalind tunnel. Up to September 24 they have driven 4ft., and the lode appears to be going strong, with 8 Inches of clean stone on a hanging wall, and the rest formation. The lode has started to bear away to the south west. I like its appearance very much and there is no doubt if it keeps on like it is going we will soon come to a shoot of gold.

Examiner (Launceston)

Saturday 22 October 1932

MINING

NORTH MOUNT VICTORIA

RINGAROOMA UNITED MINE

Mining work has been suspended at the Ringarooma United mine at Alberton. North Mount Victoria, pending the decision of the shareholders in the syndicate that has been carrying on for the past two years regarding future operations. A meeting called for this purpose is to be held in Launceston next week. The principal work going on at the property has been the driving of an adit front the Rosalind tunnel to intersect a winze in the upper workings. A considerable distance was driven, but the objective has not been reached. The test by the diamond drill under the Rosalind tunnel which is to be carried out by the Mines Department should prove of great help in determining the value of the known reefs at a depth.

Examiner (Launceston)

Thursday 3 November 1932

ALBERTON FIELD

DRILLING CAMPAIGN

Regarding the proposed diamond drilling campaign at Alberton, North Mount Victoria, recently referred to in "The Examiner," a communication was sent to the Mines Department by Mr. W. Robinson, legal manager, to the effect that at a meeting at Launceston of investors interested in the development of the Ringarooma field, it was decided to ask when it was expected that the Government drill a would commence boring for the junction of the Roslyn-Premier lodes at the Ringarooma United Mine.

To this the following reply has been received from the Secretary for Mines (Mr. W. H. Pretzman) :- "I regret it is not possible for me to give even an approximate date when the drill will commence boring at the Ringarooma United Mine. The drill is not yet on the field, and two holes are then to be put down at North Mount Victoria at Stephens and Krushka's. It is possible that further sites will be selected then according to results obtained in the first two bores."

Many of the shows in this district have been proved on the surface, and no one can say what they might develop into at a depth. The late Mr. W. H. Twelvetrees, Government geologist, was emphatic on this point, and stressed that gold may not be met with at any given point, but that it exists in the reef channels below does not admit of any doubt whatever. For over three years endeavours have been made to induce the Mines Department to send a drill to the locality. A small syndicate, formed in Launceston carrying on the Ringarooma United Mine, have already expended over £2,000 in driving for lodes, and the requests for the diamond drill have been turned down. It is considered that now there is some chance of the drill being available, priority in application should have some consideration.

Examiner (Launceston)

Wednesday 30 November 1932

MINING

NORTH MOUNT VICTORIA

ALBERTON FIELD

Apart from the prospecting and developmental work that is being carried out at New River, general mining is going on in other parts of the Alberton district. At the Mount Victoria mine a nice make of payable stone has been picked up, which at the Struggle Mine, north and adjoining the Mount Victoria, stone is being broken for the battery. Although no actual mining is at present going on at the Ringarooma United arrangements are being made for the utilisation of the battery for crushings from other shows. Prospectors are engaged in other parts of the field, but the great drawback is the lack of capital to carry out developmental work. Some promising shows have been opened up, but not sufficiently to bring them to a gold producing stage.

Examiner (Launceston)

Tuesday 13 December 1932

MINING

NORTH MOUNT VICTORIA

MINING ACTIVITIES

On the North Mount Victoria field a good deal of prospecting for gold, and mining development are going on. Drilling by the Government diamond drill plant is being carried out on sections held by the Legunia Consolidated Options at New River, near Ringarooma, and fairly good progress is being made. The object is to cut a reef at a depth of about 100ft., and the second bore is now being put down. After completing its mission on this field, the plant, it is understood, will be taken to Mathinna.

At the Struggle mine, which is being worked by Messrs. .T. Sowell and party a nice make of stone has been met with, and is being treated at the battery on the property. Messrs. J. Mathews and party are continuing g driving on a lode met with in a tunnel. Messrs. C. Lowe

and T. Pickett have carried out further prospecting work on a reef known as the Dark Horse on the north: end of the Mercury mine, and to the south of the Long Struggle. A few tons of payable stone are at grass, but having taken the shaft to 50ft., operations had to cease through lack of capital. There are other small reefs on the section, from which crushings of gold had been taken out, as much as 2oz. to the ton having been obtained by Messrs. F. James and McCall brothers.

A few prospectors are engaged on alluvial deposits, some close to the township of Alberton and on the Forest King sections, from which fair returns of gold are being obtained.

Examiner (Launceston)

Saturday 19 August 1933

MINING

NORTH MOUNT VICTORIA

MINING ACTIVITIES

On the Mount Victoria field a northerly extension of the Mathinna slate and sandstone, prospecting and developmental work is being carried out, but options are held over most of the shows by overseas and mainland interests. Notification has been received of the visit of experts to make an examination of the field, some being from England, at the end of the month. There has been a very large production of gold practically, at shallow levels, but the future of the field rests with the application of adequate capital and skill to the systematic development of the reefs at a depth.

Mr. J. C. Mathews, on the old Mount Victoria leases, is still carrying out prospecting and developmental work with very good results. He picked up a nice make of payable stone south of the old workings, and is now engaged in carting a trial crushing of about 20 tons to the Struggle battery.

Messrs. J. Sowell and party are mining on payable stone on the Struggle sections, and have just finished crushing a small parcel at their battery for a return of over 2oz of gold to the ton.

Prospecting work is being carried out on the Ringarooma United and Forest King sections, the latter under prospecting licence by Mr. J. Pickett.

At the Una group, about three quarters of a mile north-west of the Hinemoa, Mr. W. Beck has carried out a lot of prospecting and mining work. He has also erected a water wheel and a small battery for treating the quartz as it is being mined. The country rock is slate, dipping south-west. The main lode consists of new-looking grey mottled stone, carrying pyrite and a little copper pyrites, with some graphitic slate.

A Hobart syndicate is carrying on mining work on promising lodes prospected by Mr. H. A. Raynor south of the Una mine. It has a length of 700 ft. and an average width of 2ft. to 3ft.,

carrying gold throughout its length. Of ten samples taken across the full width of the lode, five varied from 7dwt. to 23dwt of gold to the ton, these being from the northern portion, while those to the south were a little lower. An adit is now being driven by two shifts to test the lode at a depth.

Examiner (Launceston)

Saturday 19 August 1933

MANAGERS REPORTS

MOUNT VICTORIA FIELD

Prospecting and developmental work are being carried out on the Mount Victoria field, a northerly extension of the Mathinna slate and sandstone, but options are held over some shares by overseas and mainland Interests. Negotiations are also proceeding for the taking over of the Mercury mine, about two miles from the Ringarooma United, which there are two parallel reefs a few chains apart. This mine-was a big producer of gold some years ago, but, like others on the field, was not tested at a depth.

At the Mount Victoria lease, worked by Mr. J. C. Matthews, at the Struggle sections (Messrs. J. Sowell and party), payable stone continues to be taken out and crushed at the Struggle battery. Mr. W. Beck is continuing mining work at the Una group, about three quarters of a mile north-east of the Hinemoa, a small battery treating the stone as it is being mined. The main lode consists of nice-looking grey mottled stone carrying pyrites and a little copper pyrite, with some graphitic slate.

A few prospectors are engaged on tile alluvial deposits, some close to the township of Alberton and at New River. Nice samples of gold have been obtained about two miles north of Mathinna in the direction of North Mount Victoria, and endeavours are being made to locate a reef from which the gold was shed.

Examiner (Launceston)

Friday 12 January 1934

MINING

NORTH MOUNT VICTORIA

ALBERTON FIELD

On the Alberton field, North Mount Victoria gold mining generally is quiet. Options have been secured over several shows by mainland interests, and a large area pegged out, but so far nothing in the way of developmental work is being carried out. A few prospectors are working alluvial ground but the big drawback is the shortage of water.

On the old Mount Victoria leases Mr. J. C. Mathews is getting out a nice make of stone, but crushing is hampered by little or no water being available. Messrs. J. Sowell and party, on the Short Struggle. north and adjoining the Mount Victoria are carrying out developmental

work and are arranging for another crushing to be put through their battery. Mr. W. Beck is opening up a promising lode on the Una sections.

Examiner (Launceston)

Tuesday 6 February 1934

MANAGERS REPORTS

NORTH MOUNT VICTORIA

ALBERTON FIELD

On the Alberton field, North Mount Victoria gold mining at present is rather quiet, but some prospecting and developmental work is going on. Options have been taken over properties, and an investigation on behalf of overseas interests is shortly to be made. Among these are the Struggle Mines from which good returns of gold have been made. On the old Victoria leases Mr. J. C. Mathews is still engaged on developmental work with good results but the treatment of quartz is held up, due to the scarcity of water. Some stone taken from a show at New River last week returned battery results of 1/3oz. of gold to the ton.

The high price of gold is now attracting attention to this field which has been long neglected, lack of capital retarding the opening up of some promising shows. On the Dark Horse reef, joined on the north by the Mercury mine and to the south prospecting work on a small scale has been carried out. The reef averaging about 11in. of highly mineralised stone, was traced along the surface for over a quarter of a mile. A shaft was taken to 50ft., the depth allowed without proper timbering and operations had to cease through lack of capital. The show, however, is included among those over which options have been taken.

Examiner (Launceston)

Friday 9 March 1934

NORTH MT VICTORIA

On the North Mount Victoria field prospecting and developmental work is going on at some properties, while others are practically idle, insufficiency of capital to carry on being the trouble. Mining work is still suspended at the Ringarooma United mine at Alberton, and the battery is idle, but some prospecting is being carried out on the sections.

Mr. J. C. Mathews, on the old Mount Victoria leases, is still carrying on prospecting and development work with good results, and Messrs. J. Sowell and party are mining payable stone on the Struggle leases. At the Una group, about three-quarters of a mile north-west of the Hinemoa, and also south of the Una mine, some good results are being obtained.

Examiner (Launceston)

Monday 2 April 1934

NORTH MT VICTORIA

GOLD-MINING ACTIVITIES

On the Alberton field, North Mount Victoria, Messrs. Krushka Bros. at New River are continuing developmental work on a promising reef discovered outcropping about a mile south from where they had previously opened up a show. The reef, which is from 2ft. to 2ft. 6in. in width, was sunk on to a depth of 15ft., and six tons of stone taken out gave a yield of 3½oz. of gold. Further stone is being mined, but the prospectors are hampered by not having a battery handy. On the flats, a short distance below the reef, a nice run of alluvial is being exploited. In the old show Messrs. Krushka Bros. worked a 4ft. reef, which gave highly payable prospects, but water came in too rapidly for the small pumping plant to deal with.

Mr. J. C. Matthews, on the old Mount Victoria leases, which he has been working for a considerable time, has picked up another make of payable stone, and crushings are being taken to the Struggle battery. Some very decent returns of gold have already been taken from the sections. The sections prospected by Mr. H. A. Raynor, south of the Una mine, are reported to be still opening up well. The lode was tested at a depth, and payable stone met with.

Examiner (Launceston)

Thursday 3 May 1934

MOUNT VICTORIA FIELD

On the Mount Victoria field a northerly extension of the Mathinna slate and sandstone, prospecting and developmental work is being carried out on some properties, while others are practically idle, insufficiency of capital to carry on being the trouble.

At the Mount Victoria mine, near Alberton, and on the Struggle, north and adjoining the Mount Victoria, work is proceeding with good results. At the Una group, about three-quarters of a mile north-west of the Hinemoa, some fair returns of gold are being made, and promising developments are occurring on lodes south of the Una mine. No mining work is proceeding at the Ringarooma United. There are a few prospectors in the locality some, being on, alluvial wash.

Options are held over some shows by mainland interests, but so far no thing has been done in the way of having them exercised.

Examiner (Launceston)

Friday 4 May 1934

MANAGERS REPORTS

RETURNS OF GOLD

BATTERY RESULTS.

On the Alberton field, North Mount Victoria, Messrs. J. Sowell and party, working the Struggle mine, are continuing on a good make of stone. The mine is equipped with a small battery and another crushing has been put through, four tons of stone giving a return of 10oz. of retorted gold.

Mr. J. Mathews, who for a long time has been engaged in developmental work with satisfactory results on the old Mount Victoria leases, has had another five tons of stone treated at the Struggle battery, the yield being 9oz. of retorted gold.

At the Forrester Settlement, between Scottsdale and Mount Horror, Messrs. Haley and party who came across a nice reef which gave good assay results have been engaged in shaft sinking. A crushing of eight tons of stone was taken out and put through the Ringarooma United battery at Alberton the return being 11 ½ oz. of retorted gold. Some years ago a fair quantity of gold was obtained from the Linton mine in this locality.

Examiner (Launceston)

Friday 4 May 1934

MOUNT VICTORIA

ALBERTON FIELD

On the Alberton field, Mount Victoria, a northerly extension of the Mathinna slate and sandstone, some prospecting and developmental work is being carried on, and options are held over some shares by mainland interests.

In the past there has been, a very large production of gold, practically at shallow levels, but the future of the field rests with tile application of adequate capital and skill to the systematic development of the reefs at a depth.

A portion of the plant at the Ringarooma United mine has been removed to the Catamaran coal mines, on the East Coast, but the battery remains intact, and crushings are put through for other shows in the vicinity. On the Ringarooma United sections, however, some prospecting is going on, and it is generally believed that another start will be made shortly with mining work.

Among the shows where production work is being carried out are Mr. J. C. Mathews, on the Mount Victoria leases, and Messrs. J. Sowell and party, at the Struggle mine. At the Una group, north-west of the Hinemoa, Mr. W. Beck is continuing on a good make of stone, and south of the Una mine Mr. H. A. Raynor's sections are also opening up well.

Examiner (Launceston)

Friday 24 January 1936

ALBERTON GOLD FIELD

Mining at Alberton, North Mount Victoria, a northerly extension of the Mathinna slate and sandstone is assuming important dimensions, and there promises to be considerable activity or the field.

Sometime back the Mount Victoria Reefs Syndicate took over the Struggle sections which had been profitably worked by Messrs. Sowell and party, and mining carried out on a large scale, chiefly by putting in adits and shaft sinking. Rams were put in for stripping on the open cut system. An improved drilling plant has now been installed for the thorough testing of the deposits on this and other sections acquired at a depth.

The Ringarooma United Mine, together with its extension machinery has been taken over by the syndicate. This property was some years ago a large producer of gold, and when a company, formed in Launceston, took it over about five years ago, attention was particularly directed to driving from a tunnel to intersect a winze in the higher workings from which payable gold had been won when an in - rush of water occurred. Although considerable driving was done the object was not achieved and operations ceased through lack of capital. Since then no mining has been done.

Negotiations are going on between the syndicate and the management of the Mercury mine regarding the acquisition of the latter's property, where a good deal of prospecting has been done by Mr. H. Stingle and party. There are two reefs, only a few chains apart, running parallel to each other. Two tunnels have been driven, and the lower one intersects both reefs. Crashings from both lodes went from 1oz. to 3oz, of gold to the ton.

Examiner (Launceston)

Wednesday 30 November 1938

TESTING GOLD AREAS AT ALBERTON

For a considerable time some mines on the Alberton field at North Mount Victoria have been practically idle, including the Ringarooma United, the Mercury and the Forest King. The Ringarooma United, which had been a large producer of gold in its early stages, had good prospects when taken over by a company from the late Michael Hannah's estate. Tunnelling was extended, but results did not come up to expectations. No attempts were made to test the reefs at a depth, but stoping in the Strahan tunnel gave some small but exceptionally high values. The Mercury mine was also a big producer of gold some years ago, but, like others at Alberton, was not tested at a depth.

Preliminary arrangements are now in hand with the view to taking over a group of four sections, including the Ringarooma United, Mercury, and Forest King, and to have them

thoroughly tested at a depth and exploited. It is expected that an early start will be made on boring.

On the Long Struggle leases exploratory work is still going on, and a washing is being taken out for battery treatment

APPENDICIES

APPENDIX 1

Surface Location (SL1)

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
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 8/04/2012
H0201 End_of_data_acquisiton 7/04/2013
H0202 Data_format SG1
H0203 Number_of_data_records 17
H0204 Date_of_metadata_update 31/03/2013
H0300 FileNames
H0301 downhole_survey_data_file EL252004_201213_04_dhsurvey.txt
H0302 location_data_file EL252004_201213_02_dhlocation.txt
H0303 assay_data_file EL252004_201213_03_dhassay.txt
H0304 rock_description_file EL252004_201213_05_lithology.txt
H0305 lithology_code_file EL252004_201213_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 ?

APPENDIX 2

Downhole Geochemistry (DG1)

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
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 8/04/2012
H0201 End_date_of_data_acquisition 7/04/2013
H0202 Data_format DG1
H0203 Number_of_data_records 185
H0204 Date_of_metadata_update 31/03/2013
H0300 FileNames
H0301 assay_data_file EL252004_201213_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
Bernie Research Laboratory Pty Ltd
H0802 ScreenFire Screen Fire Assay Bernie Research Laboratory Pty Ltd
H0804 AT/OES 4 Acid Digest in Teflon Tube / Inductively Coupled Plasma Optical
(Atomic) Emission Spectrometry Bernie 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 - Bernie
H0807 As - AA525 ALS Pty Ltd - Bernie
H0900 Remarks Down Hole Geochemistry

Hole-ID	From	To	Sample	Au_ppm	Au_ppm	Au_Avg
	Ag_ppm	As_ppm	Ag_ppm	As_%		
H1001					Au_Rp1 (F650)	FA25_AAS
	AT/OES	AT/OES	Ag-AA52	As-AA52		
H1002			metre	metre	ppm	ppm
	ppm	ppm	%			
H1003			0.10	0.10	-0.99	0.01
	1	1			0.01	1
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
	0.79				73000	0.88
D	ALBERTON	Ringarooma	United	RU4	59.7	60.5
	1.1				73006	
D	ALBERTON	Ringarooma	United	RU4	60.5	61
	1.65				73007	2.8
D	ALBERTON	Ringarooma	United	RU5	33	33.1
	0.075				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 31/03/2013
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
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 8/04/2012
H0201 End_date_of_data_acquisition 7/04/2013
H0202 Data_format DS1
H0203 Number_of_data_records 55
H0204 Date_of_metadata_update 31/03/2013
H0300 FileNames
H0301 downhole_survey_data_file EL252004_201213_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				

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 438
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	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	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	
asp	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	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	5
D	ALBERTON	Hannah Line	RUL12 231.1	231.2	SLT	-	fr	5
D	ALBERTON	Hannah Line	RUL12 231.2	232	QV	"asp, py"	fr	90
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	100 sil
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	-

EOF

APPENDIX 5

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 31/03/2013
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_201213_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 SL Slate
D SH Shale
D CL Clay
D SST Sandstone
D FLT Fault
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