

EL33/2008 – UNA PLAINS

TASMANIA

ANNUAL TECHNICAL REPORT

5TH NOVEMBER 2014 – 4TH NOVEMBER 2015

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Geological, Educational & Mining Services Pty Ltd

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LICENSEE: **Geological, Educational & Mining Services Pty Ltd**

ABN: 31 066 519 551

TABLE OF CONTENTS	PAGE
TITLE PAGE	i
TABLE OF CONTENTS	ii
LIST OF FIGURES and TABLES	iii
LIST OF APPENDICES	iii
VERIFICATION LISTING	iv
TENEMENT DETAILS	iv
KEY WORDS	v
1.0 Introduction.....	6
2.0 Exploration Objectives.	6
3.0 Location and Access.....	7
4.0 Regional Geology.	8
5.0 Previous Work.	9
6.0 Exploration Completed During the Reporting Period.....	13
6.1 Licence Extension.	13
6.2 Drilling.....	13
7.0 Discussion and Conclusions.	16
8.0 Expenditure.	17
9.0 References	18
APPENDIX 1	21
APPENDIX 2.....	23
APPENDIX 3.....	26
APPENDIX 4.....	28
APPENDIX 5.....	33

LIST OF FIGURES AND TABLES

Figure 1: Location of EL33/2008 – Una Plains.....	7
Figure 2. Surface and Underground Sample Locations Raynor’s Adit.	14
Figure 3. Drill Hole Location 2014/15 Drilling Program – Hinemoa Prospect.	14
Table 1. Significant Assay Results – Diamond Drilling 2008 - 2009	111
Table 2. Significant Assay Results – Diamond Drilling 2011 - 2012	111
Table 3. Significant Assay Results – Diamond Drilling 2013 - 2015	115

LIST OF APPENDICES

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

VERIFICATION LISTING

Exploration Work	File_name	Type	Format	Description
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Office Studies

Report	EL332008_201415_01_report	pdf		Report Body
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Drilling

Drilling_All	EL332008_201415_02_dhlocation	txt		Drill hole collar locations
Drilling_All	EL332008_201415_03_dhassay	txt		Drill hole assay data
Drilling_All	EL332008_201415_04_dhsurvey	txt		Down hole survey
Drilling_All	EL332008_201415_05_lithology	txt		Drill hole lithology
Drilling_All	EL332008_201415_06_lithcode	txt		Lithology Codes
Report	EL332008_201415_02_appendix1	pdf		Drill hole collar locations
Report	EL332008_201415_03_appendix2	pdf		Drill hole assay data
Report	EL332008_201415_04_appendix3	pdf		Down hole survey
Report	EL332008_201415_05_appendix4	pdf		Drill hole lithology
Report	EL332008_201415_06_appendix5	pdf		Lithology Codes

TENEMENT DETAILS

LICENSEE: **Geological, Educational & Mining Services Pty Ltd**
Grant date 1: 05/11/2008

ABN: 31 066 519 551

ABSTRACT

Exploration Licence 33/2008 comprises 28 square kilometres located midway between Ringarooma and Mathinna in the states north-east. The licence was granted on 5th November 2008 to Geological, Educational and Mining Services Pty Ltd (GEMS).

During the period 2014 – 2015 work undertaken has included the logging of, and assaying of portions of HGD-03 (drilled 2013 – 14), the completion of a 162 metre deep diamond drill hole (HGD-04), logging and partial assaying of the hole at the Hinemoa prospect. The identification of further prospect targets within the Licence also continued. A renewal application for a further 12 month extension to the life of the Licence will also been made prior to anniversary date of the licence.

KEY WORDS

Location Name:	Una, Dans Rivulet. Hinemoa.
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:	Una Reef, Hinemoa Reef, Raynor's Adit, New River, Homestead Reef
Stratigraphic Name:	Mathinna Supergroup.
Geological province name:	Lachlan Fold Belt.
Geological age:	Devonian

1.0 Introduction.

Exploration Licence 33/2008 comprises 28 square kilometres located midway between Ringarooma and Mathinna in the states north-east. The licence was granted on 5th November 2008 to geological, Educational and Mining Services (GEMS) Pty Ltd.

2.0 Exploration Objectives.

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

Primary exploration has focussed on testing discrete anomalies as defined by independent re-interpretation of historic data.

- Confirm the veracity and extent of previous mapping and anomalous gold mineralisation.
- Inspect and sample any available underground openings
- Drill test below historic underground workings at depth to determine structural controls and geometry of primary source.

Hinemoa:

The Hinemoa workings have been explored previously by two adits and a series of surface trenches over a 250-metre strike length. The quartz lode is hosted within a significant north-south striking west dipping (75°) fault zone. The most northerly adit (Hinemoa) is still accessible. The southern adit (Raynor) is also accessible.

Alberton & New River Goldfields.

The Exploration Licence extends to the north of the Hinemoa and Una Prospects and surrounds the majority of the Alberton Goldfield. The northern portion of the Licence

around the area known as the New River Goldfield is prospective for both hard-rock and potentially alluvial gold deposits.

3.0 Location and Access.

Una Plains Licence EL33/2008 is located in North East Tasmania, the licence covers 28km² commencing approximately 5 kilometres south-east of Ringarooma and extending south for 13 kilometres. Access to the northern portion of the lease is via numerous Crown roads and Forestry Tasmania tracks.

A Government 'C' class road (C423) bisects the Lease along the Una Plains immediately south of Mount Victoria allowing access to the central portion of the Licence. Access to the southern portion is either via Forestry Tasmania tracks off the C423 or by using additional Forestry Tasmania tracks coming up from Dan's Rivulet.

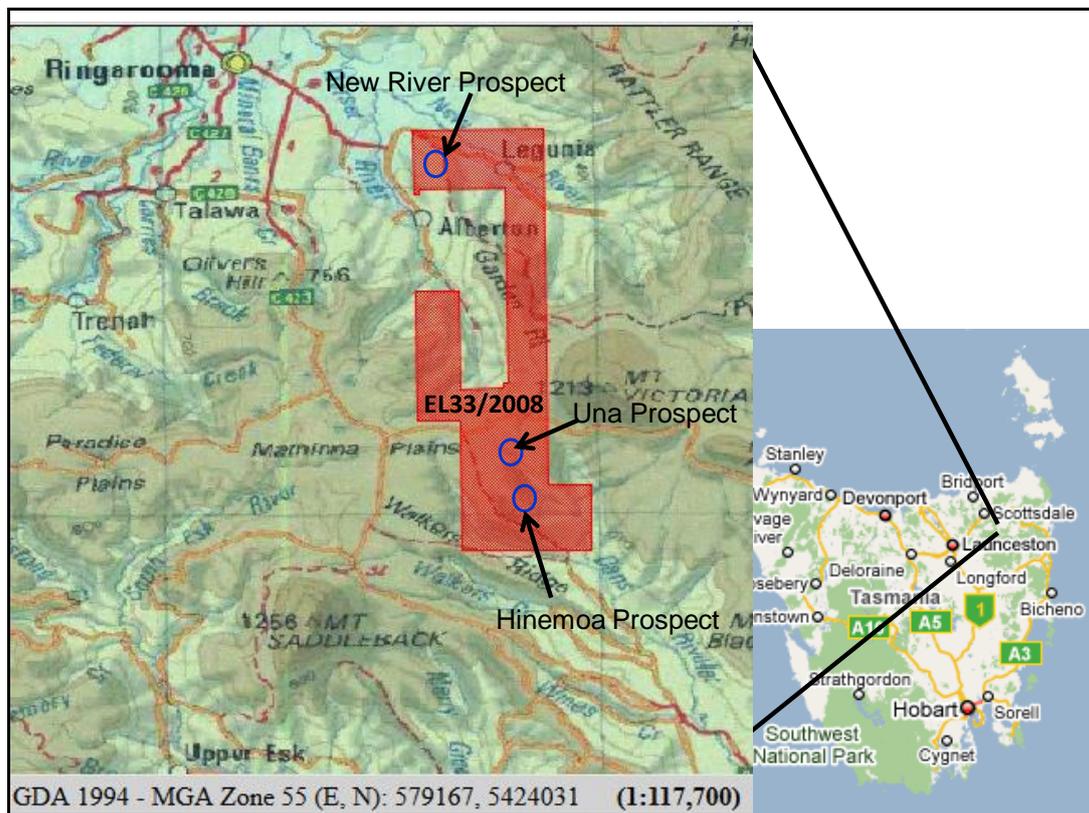


Figure 1: Location of EL33/2008 – Una Plains.

Due to the location of the Hinemoa prospect it was again necessary to spend time prior to drilling undertaking remedial road works consisting of the removal of fallen trees from across the track and track works utilising an excavator to fix up deep

scouring down the track. These works took two days to complete prior to the commencement of drilling at the site.

4.0 Regional Geology.

The regional geology of EL 33/2008 has been extremely well 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) and Keele et.al (1994) 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, 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.

Small scale mining of narrow but high grade quartz structures have been reported as early as 1890's. The quartz lodes occurs within a 75m wide shear zone, which is over 550m long extending from Hinemoa in the south of the Licence to the Una Workings in the north. Twelvetreets (1904) reports gold grades to 83.5 g/t in surface trenches.

Mapping of the major producers was undertaken in detail on behalf of Sturt Meadows Prospecting Syndicate NL on EL31/76 (Mitchell 1980) during the period 1979-80. Detailed feature mapping and sampling was undertaken over a large area including the workings located on what is now EL33/2008.

During the period 1994-5 EL1/92 covering the area of Dan's Rivulet and extending to within 50 metres of the Hinemoa workings was subject to exploration by Cuttack Mining and Exploration Pty Ltd under a Joint Venture with Goldstream Mining NL. (Anon 1996). Due to surveying errors Cuttack erroneously sampled the Hinemoa No.1 Adit and proceeded to extract a bulk sample of unknown tonnage estimated to be approximately 31 g/t.

EL23/92 covering the Una section of workings (and extending northward to the Alberton Goldfield) was originally granted to Newcrest Mining Limited in 1992. The exploration licence was part of a large tenement holding. Newcrest's target was large-scale stockwork style gold mineralisation.

During 1993 Mancala purchased the EL from Newcrest with a time limited royalty clause.

During 1994-5 EL23/92 was held by Mancala Pty Ltd (Akerman, 1995) the Una and Hinemoa mines were assessed and exploration programmes proposed.

During 1995-6 (Akerman, 1996) the Una and Hinemoa workings were mapped and sampled in detail. An eight hole (UNA001 - UNA008), 208 metre diamond drilling was completed at the Una No.1 Adit workings only.

All of the holes were drilled below the existing workings at the Una No. 1 Adit. The holes were shallow (maximum depth 40.7 metres) and all holes intersected the lode in the expected position. Three holes intersected the lode with abundant visible gold. The results from these three intersections were surprisingly low. UNA 002 intersected 1m @ 13.2 g/t Au, UNA 006 intersected 0.5m @ 19.7 g/t Au and UNA 003 intersected 0.4m @ 4.55 g/t Au. An error with the assay procedure was queried but re-assay of the other half of the core resulted in even lower assay results.

This exploration programme outlined a small resource of 1,000 tonnes at 12-15 g/t Au (non-JORC compliant) on the narrow lode that varied between 0.5 and 1.8-metre width. The assessed grade was calculated from both surface results and drill results.

During 1998 a joint venture agreement was signed between Hercules Resources and Low Impact Diamond Drilling Specialists (LIDDS). Under the terms of the agreement, LIDDS were required to complete a minimum of 800 metres of diamond drilling within EL 23/92 to earn a fifty (50%) per cent share in the exploration licence.

During 1998-9 (Griffith's, 1999) LIDDS exploration concentrated on the Una workings. Three closely spaced angled holes were drilled totalling 391.7 metres under the workings of the Una No.1 lode below the holes previously drilled by Mancala Pty Ltd. The strategy was to significantly build on the resource outlined in 1995-96 by Akerman. Unfortunately these holes failed to intersect significant mineralisation.

During 2001 (Denwar, K., 2001) a small outcropping fault related sulphide lode was tested by diamond drilling at the Una Prospect. The workings present as a small pit, exposed a narrow <5cm wide zone of pyritic sericite altered sediment containing a massive sulphide matrix. The zone reportedly swells rapidly to be of the order of 1m wide at about 1metres depth. A sample of sphalerite rich material was obtained.

A 47.3m deep diamond drill hole was completed by LIDDS using a Longyear Hydracore 28. The hole was collared at 5422550 mN, 567950 mE, and the collar was set-up at an azimuth of 055 degrees and a declination on 49 degrees. The hole failed to intersect any significant mineralisation. The hole was not logged in any detail.

During 2008 – 09 (de Vries, 2009) two Diamond Drill Holes (UDH001 and UDH002) were drilled into a proposed parallel mineralised structure. UDH001 intersected a broad zone of shearing, alteration and anomalous gold. The best interval in UDH001 was from 40.60 metre to 41.00 metres a distance of 0.40 metres grading 0.34 g/t Au (Table 1). The drilling of UDH002, while intersecting altered and veined material failed to generate any significant results.

Table 1. Significant Assay Results – Diamond Drilling 2008 - 2009

HOLE ID	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	Ag (g/t)	As (ppm)	COMMENTS
UDH001	40.6	41.6	1.0	0.26	<1.0	1,190	Lode / Shear

The results of both holes indicate the presence of a structural control that is interpreted as being the westerly margin of the controlling structural corridor at the Una Prospect. The bulk of historic production has come from the Una Mine located on the footwall of the structural corridor.

During 2011 – 12 (de Vries, 2012), two holes were drilled, for a total of 113.8 metres targeting an area mid-point of the Hinemoa Adit. HGD-01 intersected a zone of strong quartz veining with minor associated sulphides (arsenopyrite and pyrite) between 23.60 and 30.10 metres down hole. HGD-02 tested the structure a further 10 metres below HGD-01 on the same strike. This hole also successfully intersected several quartz veins showing visible arsenopyrite but also minor pyrite being observed. Overall assay results obtained during the 2012 – 13 reporting period were poor with the best results shown in Table 2.

Table 2. Significant Assay Results – Diamond Drilling 2011 - 2012

HOLE ID	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	Ag (g/t)	As (ppm)	COMMENTS
HGD-01	24.0	25.2	1.2	0.78	<1.0	3,700	Veining / Shear
HGD-02	31.1	32.4	1.3	0.72	<1.0	3,400	Veining / Shear

During 2013 – 14 (de Vries, 2014), a single diamond drill holes was drilled, for a total of 168 metres targeted below the Raynor adit to test for down-dip extensions of the structure initially driven upon. Several narrow zones of bleaching and associated stockwork veining were observed between 156 and 164 metres down hole, however

only minor sulphides were noted in the core. The hole was not able to assayed until the following reporting period

6.0 Exploration Completed During the Reporting Period

6.1 Licence Extension.

An application for extension of the exploration Licence was submitted to the Department and approval for an additional 12 month extension was granted on 14th November 2014. A further 12 month extension will be sought on the licence in a submission to be sent before the current expiry date. The outcome of the new application will determine the future direction of ongoing exploration.

6.2 Drilling

During the period 23th – 28th November 2014 access was re-established to a position just to the south of the Raynor adit and a diamond drill hole (HGD-04) was completed to a depth of 162.0 metres from the same drill pad position as HGD-03. Two days were required to rehabilitate the access to the drill site and a further day was lost during the drilling due to bad weather resulting in flooding of a major creek crossing.

Diamond Drill hole HGD-03 completed during the previous reporting period was logged and only 3 intervals considered for analysis (Table 3). HGD-04 was drilled slightly oblique to HGD03 in order to close off any potential southerly shoot that may have existed at the southern end of the structure. The hole intersected several minor zones of sulphide mineralisation and associated alteration however all intersections were narrow and only two (2) samples were submitted for analysis (Table 3.)

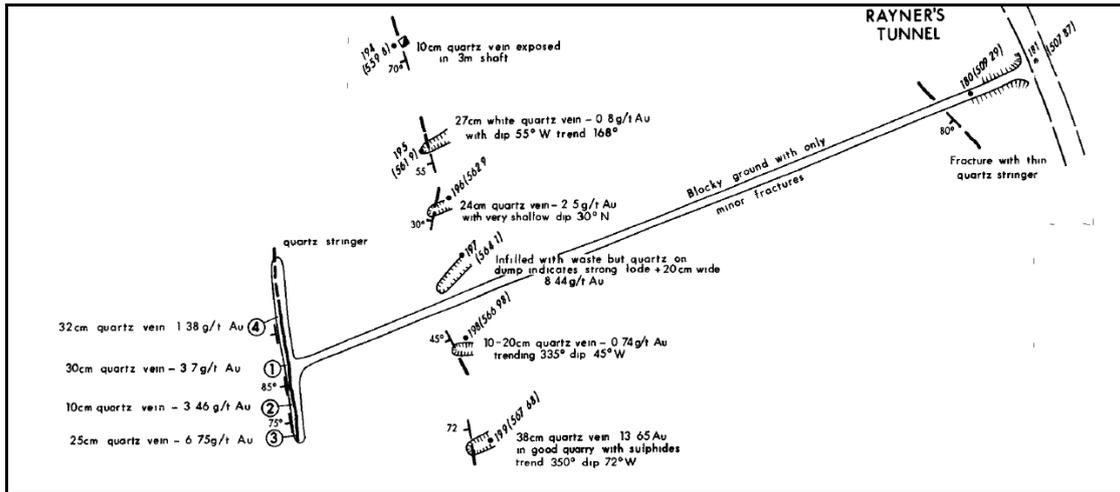


Figure 2. Surface and Underground Sample Locations Raynor's Adit (after Mitchell 1980).

The predominant lithology encountered in the hole consisted of inter-bedded sandstone and graphitic slates.

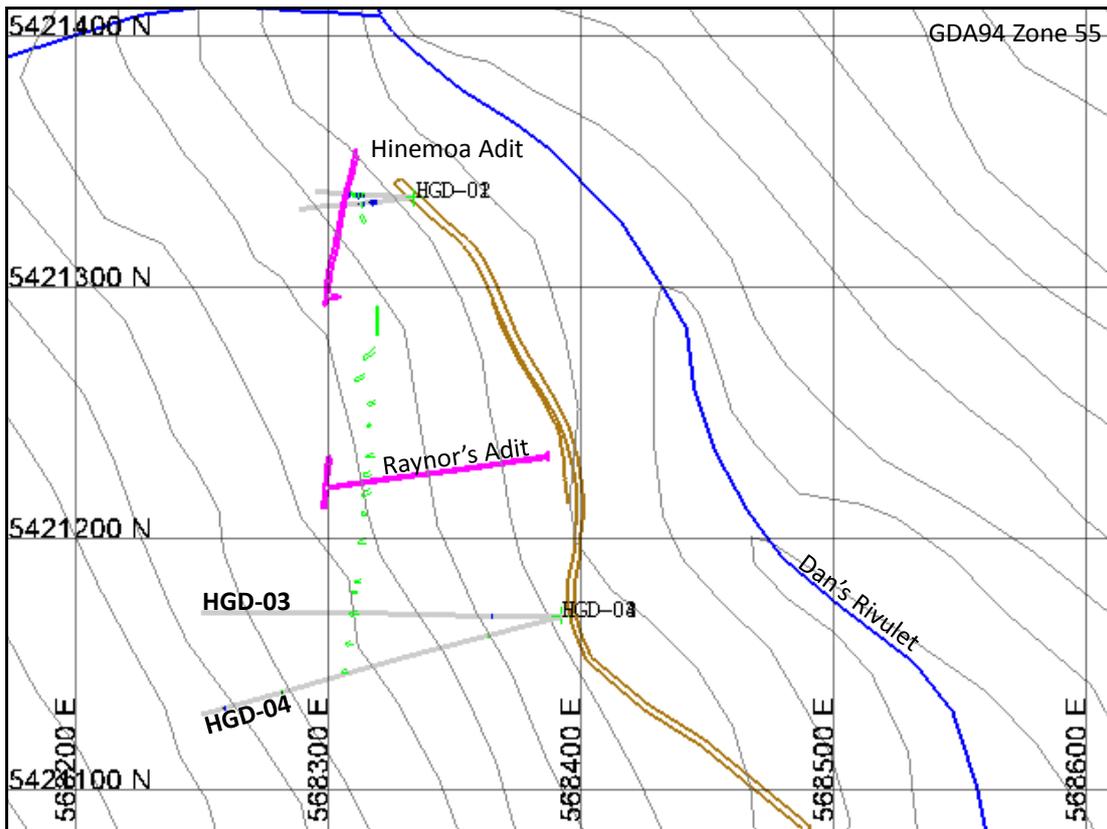


Figure 3. Plan Showing Drill Hole Locations 2014/15 Drilling Program – Hinemoa Prospect.

Bedding of the sediments was unable to be determined due to the lack of core orientation however the general dip of the core appeared not to change significantly down-hole.

6.3 Assay.

Samples were collected from both HGD-03 and HGD-04 from selected intervals only. A total of five samples were submitted to Bernie Research laboratories for analysis by 25 gram fire assay for gold analysis and by four acid digest with an Atomic Adsorption finish for both silver and arsenic (Table 3).

Table 3. Assay Results – Diamond Drilling 2013 - 2015

HOLE ID	SAMPLE No.	FROM (m)	To (m)	INTERVAL (m)	AU (g/t)	Ag (g/t)	As (ppm)	COMMENTS
HGD-03	HGD3-1	33.94	34.08	0.14	0.57	<1.0	15,500	Sil, qtz, py
HGD-03	HGD3-2	129.91	130.45	0.54	0.81	1	4,200	Fault, qtz, py
HGD-03	HGD3-3	156.20	157.45	1.25	0.08	1	800	Stockwork, py
HGD-04	HGD4-1	31.30	31.50	0.20	0.48	6	6,500	Qtz, asp, py
HGD-04	HGD4-2	157.20	157.30	0.10	0.36	1	4,100	Dyke, asp, py

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7.0 Discussion and Conclusions.

Drilling to the south and below the Raynor Adit at the Hinemoa Prospect has failed to intersect economic grade mineralisation.

Two narrow structures were intersected in both HGD-03 and HGD-04 at around 30 metres and 155 metres down-hole. The deeper intersection would appear to correlate approximately with the down dip extension of the surface mineralisation reported by Mitchell (1980) how-ever the grades reported from the surface have not been reproduced.

Field inspections are planned to continue of the New River Goldfield area with future exploration to be focused toward the northern portion of the licence as well as further examination of the area between the Alberton and Dan's Rivulet (Una) Goldfields.

An application for extension of the exploration Licence will be submitted to the Department. The minimum expenditure requirement for the Exploration licence (\$25,000) was exceed by 99%.

8.0 Expenditure.

Geoscientific Costs

- Geology \$ 13,200
- Geochemistry
- Geophysics
- Remote Sensing

Drilling & Gridding Costs

- Gridding
- Drilling \$ 29,970

Land Access Costs

Rehabilitation Costs \$ 1,600

Feasibility Study Costs

Other Items \$ 5,455

Administration Costs \$ 1,200

Total Costs \$ 49,825

9.0 References

- Akerman, T.E. November 1996.** Annual Report, Exploration Licence 23/92. *Unpublished internal report, Mancala Pty Ltd*
- Anon, May 1996.** Annual Report of Cuttack Mining and Exploration Pty Ltd. *MRT96-3849*
- Anon. April 1903 – May 1934.** Various articles. *Launceston Examiner Newspaper.*
- Blake, F., June 1933.** *Preliminary Report on New River Goldfield. Department of Mines, Tasmania UR1933/104-114*
- Danielson, M.J., June 1973.** Geological Evaluation of S.P.L. 107 N.E. Tasmania. *Geopeko Limited King Island Report No. KI/73/1 TCR 73-952*
- de Vries, P.J., October 2009.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2008 – 4th November 2009. *Unpublished Report.*
- de Vries, P.J., October 2010.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2009 – 4th November 2010. *Unpublished Report.*
- de Vries, P.J., October 2011.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2010 – 4th November 2011. *Unpublished Report.*
- de Vries, P.J., October 2012.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2011 – 4th November 2012. *Unpublished Report.*
- de Vries, P.J., October 2013.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2012 – 4th November 2013. *Unpublished Report.*
- de Vries, P.J., October 2014.** EL33/2008 – Una Plains Tasmania Annual Technical Report 5th November 2013 – 4th November 2014. *Unpublished Report.*
- Denwer, K., October 2003** EL23/92 Alberton Partial Relinquishment Report 2001 – 2002. *Report for L Stebbings and M Dunham LIDDS.*
- Denwer, K., August 1992.** EL23/92 Alberton Annual and Final Report 2002 – 2003. *Report for LIDDS.*
- Griffith, A., September 1999.** EL23/92 – Alberton. Annual Report 1998/1999. *Report for Low Impact Diamond Drilling specialists Pty Ltd. MRT 99-4370*

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

Loftus Hills, C., 1923 Preliminary report on the Mt Victoria Goldfield. *Department of Mines, Tasmania UR1923/116-121*

Loftus Hills, C., 1923 Mt Victoria Goldfield. *Department of Mines, Tasmania UR1923/41-84*

Mitchell, P.R., May 1980. Geological Appraisal of the Dans Rivulet Area (E.L.31/76), Mathinna, Tasmania Prepared for Sturts Meadows Prospecting Syndicate N.L. By A.C.A. Howe Australia Pty Ltd. *MRT 80-1464*

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

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

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

Threader, V.M., 1947. 6. Proposed Drilling at Una Mine. Pp 47 – 49. *Economic and General Geology. TR8_47-49*

Twelvetrees, W.H., 1904. Report on the Mount Victoria Goldfield. *Department of Mines, Tasmania*

Twelvetrees, W.H., June 1904. Report on the South Mount Victoria Goldfield. *Launceston Examiner*

APPENDICIES

APPENDIX 1

Surface Location (SL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 4/10/2015
H0004 Reporting period end_date 5/11/2015
H0005 State Tasmania
H0100 Tenement_name EL33_2008
H0101 Tenement_holder Geological Educational & Mining Services Pty Ltd
H0102 Project_name Una Plains
H0103 Map_sheet_number_250K K5521; NORTH EAST
H0113 Map_sheet_number_100K 8415; FORRESTER
H0123 Map_sheet_number_25K 5642; ALBERTON
H0123 Map_sheet_number_25K 5642; VICTORIA
H0200 Start_of_data_acquisiton 5/10/2014
H0201 End_of_data_acquisiton 4/10/2015
H0202 Data_format SG1
H0203 Number_of_data_records 1
H0204 Date_of_metadata_update 4/10/2015
H0300 FileNames
H0301 downhole_survey_data_file EL332008_201415_04_dhsurvey.txt
H0302 location_data_file EL332008_201415_02_dhlocation.txt
H0303 assay_data_file EL332008_201415_03_dhassay.txt
H0304 rock_description_file EL332008_201415_05_lithology.txt
H0305 lithology_code_file EL332008_201415_06_lithcode.txt
H0400 Drilling_code Contractor
H0401 DD Diamond Bit - Coring Geological Educational & Mining Services Pty
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 Hole_Size Drill_Company Line Start_Date
End_Date Coll_Surv Lab
H1001 metres metres metres metres
H1004
D Project Prospect Hole-ID LocationX_GDA_94
LocationY_GDA_94 LocationZ_GDA_94 Length DrillType Hole_Size
Drill_Company Line Start_Date End_Date Coll_Surv Lab
D UNA_PLAINS HINEMOA HGD-04 5421169.00 " 568,392.00 "
584.00 162 SURF_DDH NTW Low Impact Diamond Drilling Specialists
Pty Ltd HINEMOA 23/11/2014 28/11/2014 Y Burnie Reseach Laboratory
EOF

APPENDIX 2

Downhole Geochemistry (DG1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 4/10/2015
H0004 Reporting period end_date 5/11/2015
H0005 State Tasmania
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H0101 Tenement_holder Geological Educational & Mining Services Pty Ltd
H0102 Project_name Una Plains
H0103 Map_sheet_number_250K K5521; NORTH EAST
H0113 Map_sheet_number_100K 8415: FORRESTER
H0123 Map_sheet_number_25K 5642; ALBERTON
H0123 Map_sheet_number_25K 5642: VICTORIA
H0200 Start_of_data_acquisiton 6/11/2014
H0201 End_of_data_acquisiton 4/10/2015
H0202 Data_format SG1
H0203 Number_of_data_records 5
H0204 Date_of_metadata_update 4/10/2015
H0300 FileNames
H0301 assay_data_file EL332008_201415_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 AA-52 3 Acid Digest in Teflon Tube / Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry Bernie Research Laboratory Pty Ltd
H0900 Remarks Down Hole Geochemistry
H1000 Project Prospect Hole-ID From To Sample Au_ppm
Au_ppm Au_Avg Ag_ppm As_ppm Cu Pb
Zn Batch
H1001 Au_Rp1 (F650) FA25_AAS
AT/OES AT/OES AA-52 AA-52 AA-52 AA-52
H1002 metre metre ppm ppm ppm ppm
ppm % % % %
H1003 0.10 0.10 -0.99 0.01 0.01 1 50
0.01 0.01 0.01 0.01
D Project Prospect Hole-ID From To Sample Au_ppm
Au_ppm Au_ppm Ag_ppm As_ppm As_% Cu_%
Pb_% Zn_% Batch
D UNA_PLAINS HINEMOA HGD-03 33.94 34.08 HGD3-1
0.57 0.57 <1 15500 1.55 BU15016253
D UNA_PLAINS HINEMOA HGD-03 129.91 130.45 HGD3-2
0.81 0.81 1 4200 0.42 BU15016253

D	UNA_PLAINS	HINEMOA	HGD-03	156.20	157.45	HGD3-3
	0.08	0.08	1 800	0.08		BU15016253
D	UNA_PLAINS	HINEMOA	HGD-04	31.30	31.50	HGD4-1
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D	UNA_PLAINS	HINEMOA	HGD-04	157.20	157.30	HGD4-2
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EOF

APPENDIX 3

Drilling Results (DS1)

H0001 Exploration Licence Data header file
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H0003 Generated 4/10/2015
H0004 Reporting period end_date 5/11/2015
H0005 State Tasmania
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H0101 Tenement_holder Geological Educational & Mining Services Pty Ltd
H0102 Project_name Una Plains
H0103 Map_sheet_number_250K K5521; NORTH EAST
H0113 Map_sheet_number_100K 8415: FORRESTER
H0123 Map_sheet_number_25K 5642; ALBERTON
H0123 Map_sheet_number_25K 5642: VICTORIA
H0200 Start_of_data_acquisiton 5/10/2014
H0201 End_of_data_acquisiton 4/10/2015
H0202 Data_format SG1
H0203 Number_of_data_records 5
H0204 Date_of_metadata_update 4/10/2015
H0300 FileNames
H0301 downhole_survey_data_file EL332008_201415_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 UNA_PLAINS HINEMOA HGD-04 20 270.5 256.0 -28.5
Eastman Singleshot
D UNA_PLAINS HINEMOA HGD-04 50 271.5 257.0 -28.0
Eastman Singleshot
D UNA_PLAINS HINEMOA HGD-04 80 271.5 257.0 -28.0
Eastman Singleshot
D UNA_PLAINS HINEMOA HGD-04 110 270.5 256.0 -28.0
Eastman Singleshot
D UNA_PLAINS HINEMOA HGD-04 140 269.5 255.0 -28.0
Eastman Singleshot
EOF

APPENDIX 4

Lithological Logging (DL1)

H0001	Exploration Licence Data header file	
H0002	Version 1	
H0003	Generated	4/10/2015
H0004	Reporting period end_date	5/11/2015
H0005	State	Tasmania
H0100	Tenement_name	EL33_2008
H0101	Tenement_holder	Geological Educational & Mining Services Pty Ltd
H0102	Project_name	Una Plains
H0103	Map_sheet_number_250K	K5521; NORTH EAST
H0113	Map_sheet_number_100K	8415; FORRESTER
H0123	Map_sheet_number_25K	5642; ALBERTON
H0123	Map_sheet_number_25K	5642; VICTORIA
H0200	Start_of_data_acquisiton	5/11/2014
H0201	End_of_data_acquisiton	4/10/2015
H0202	Data_format	SG1
H0203	Number_of_data_records	91

H0204	Date_of_metadata_update	4/10/2015							
H0300	FileNames								
H0301	rock_description_file	EL332008_201415_05_lithology.txt							
H0302	lithology_code_file	EL332008_201415_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		0.10	0.10						
D	Project Prospect	Hole-ID	From To	Lithology		Sulphide			
		Weathering	% Qtz	ALT_TYPE					
D	UNA_PLAINS HINEMOA	HGD-04	-	0.30	SLT	-	mw		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	0.30	0.80	SST	-	mw		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	0.80	1.00	SST / QV	-			
		mw 30	1						
D	UNA_PLAINS HINEMOA	HGD-04	1.00	4.50	SST	-	mw		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	4.50	8.60	SST / SLT	-			
		mw 0	0						
D	UNA_PLAINS HINEMOA	HGD-04	8.60	18.00	SLT / SST	-			
		mw 0	0						
D	UNA_PLAINS HINEMOA	HGD-04	18.00	18.80	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	18.80	18.83	QV	py asp	f		
		100	0						
D	UNA_PLAINS HINEMOA	HGD-04	18.83	27.70	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	27.70	28.00	SLT	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	28.00	31.30	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	31.30	31.50	QV / SHEAR	py			
		asp sph f	60	0					
D	UNA_PLAINS HINEMOA	HGD-04	31.50	41.80	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	41.80	42.60	SLT	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	42.60	43.10	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	43.10	43.40	SLT	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	43.40	45.85	SST	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	45.85	46.05	SLT	-	f		
		0	0						
D	UNA_PLAINS HINEMOA	HGD-04	46.05	48.40	SST	-	f		
		0	0						

D	UNA_PLAINS HINEMOA	HGD-04	48.40	48.75	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	48.75	48.90	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	48.90	49.10	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	49.10	50.00	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	50.00	50.30	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	50.30	50.75	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	50.75	51.00	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	51.00	51.80	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	51.80	52.15	SLT / SST	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	52.15	53.85	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	53.85	56.10	SLT / SST	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	56.10	67.50	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	67.50	67.70	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	67.70	71.15	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	71.15	71.50	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	71.50	73.10	SST / SLT	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	73.10	76.30	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	76.30	76.80	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	76.80	86.90	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	86.90	87.00	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	87.00	88.30	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	88.30	89.90	SST / SLT	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	89.90	92.30	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	92.30	95.00	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	95.00	97.80	SLT / SST	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	97.80	101.50	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	101.50	101.95	SST	-	f
		0 0					

D	UNA_PLAINS HINEMOA	HGD-04	101.95	102.30	GSLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	102.30	103.75	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	103.75	104.55	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	104.55	106.30	SST / BX	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	106.30	107.00	GSLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	107.00	109.50	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	109.50	109.85	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	109.85	111.20	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	111.20	111.40	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	111.40	112.70	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	112.70	113.55	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	113.55	114.15	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	114.15	114.60	SLT / QV	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	114.60	117.47	SST / SHEAR	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	117.47	117.90	SLT / SHEAR	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	117.90	119.07	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	119.07	119.20	SLT	-	f
		0					
D	UNA_PLAINS HINEMOA	HGD-04	119.20	124.45	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	124.45	124.80	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	124.80	125.50	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	125.50	126.00	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	126.00	128.70	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	128.70	129.10	SLT / SST QV	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	129.10	137.80	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	137.80	137.90	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	137.90	140.80	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	140.80	141.20	SLT	-	f
		0 0					

D	UNA_PLAINS HINEMOA	HGD-04	141.20	141.90	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	141.90	142.10	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	142.10	142.58	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	142.58	143.55	SLT / SST	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	143.55	144.00	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	144.00	145.10	SLT / SST	-	
	f	0 0					
D	UNA_PLAINS HINEMOA	HGD-04	145.10	146.80	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	146.80	147.15	SLT / SIL	-	
	f	0 1					
D	UNA_PLAINS HINEMOA	HGD-04	147.15	150.10	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	150.10	150.45	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	150.45	155.00	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	155.00	156.00	SST / QV		py
	f	5 1					
D	UNA_PLAINS HINEMOA	HGD-04	156.00	156.75	QV / SST		py
	asp f	30 3					
D	UNA_PLAINS HINEMOA	HGD-04	156.75	157.22	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	157.22	157.28	LODE asp py		f
		0 3					
D	UNA_PLAINS HINEMOA	HGD-04	157.28	158.60	SST	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	158.60	160.10	SLT	-	f
		0 0					
D	UNA_PLAINS HINEMOA	HGD-04	160.10	162.00	SST	-	f
		0 0					

EOF

APPENDIX 5

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 4/10/2015
H0004 Reporting period end_date 5/11/2014
H0005 State Tasmania
H0100 Tenement_name EL33_2008
H0101 Tenement_holder Geological Educational & Mining Services Pty Ltd
H0102 Project_name Una Plains
H0113 Map_sheet_number_250K K5521; NORTH EAST
H0123 Map_sheet_number_100K 8415: FORRESTER
H0133 Map_sheet_number_25K 5642; ALBERTON
H0133 Map_sheet_number_25K 5642: VICTORIA
H0200 Start_of_data_acquisiton 5/11/2014
H0201 End_of_data_acquisiton 4/10/2015
H0202 Data_format SG1
H0203 Number_of_data_records 44
H0204 Date_of_metadata_update 4/10/2015
H0300 FileNames
H0301 lithology_code_file EL332008_201415_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 CL Clay
D SST Sandstone
D FLT Fault
D SHR Shear zone
D GRAN Granite
D GRIES Griesen
D SLT Slate
D SLTG Slate - graphitic (black)
D DYKE Mafic Dyke - late stage intrusive
D
D WEATHERING
D CODE WEATHERING
D F FRESH
D EW EXTREME WEATHERED
D VW VERY WEATHERED
D MW MODERATLY WEATHERED
D LW LIGHTLY WEATHERED
D NULL NO MATERIAL(Core loss - void)
D
D MINERAL
D CODE MINERAL
D gal Galena
D bar Barite
D NULL 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 asp Arsenopyrite
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 qvns quartz stringers and veinlets
D feox iron oxide staining (after sulphide)
EOF