

EL28/2007 – BELL'S HILL

ANNUAL REPORT

27TH SEPTEMBER 2008 – 26TH SEPTEMBER 2009

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REPORT DATE: 08/10/2009

LICENSEE: **Low Impact Diamond Drilling Specialists Pty Ltd & N.B & S
Brown**

ABN: 31 079 634 692

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VERIFICATION LISTING

Exploration Work	File_name	Type	Format	Description
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Office Studies

Report	EL282007_200909_01_report	pdf		Report Body
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Drilling

Drilling	EL282007_200909_02_dhlocation	txt		Drill hole collar locations
Drilling	EL282007_200909_03_dhassay	txt		Drill hole assay data
Drilling	EL282007_200909_04_dhsurvey	txt		Down hole survey
Drilling	EL282007_200909_05_lithology	txt		Drill hole lithology
Drilling	EL282007_200909_06_lithcode	txt		Lithology Codes
Drilling	EL282007_200909_07_standards	txt		Assay standards data
Report	EL282007_200909_02_appendix1	pdf		Drill hole collar locations
Report	EL282007_200909_03_appendix2	pdf		Drill hole assay data
Report	EL282007_200909_04_appendix3	pdf		Down hole survey
Report	EL282007_200909_05_appendix4	pdf		Drill hole lithology
Report	EL282007_200909_06_appendix5	pdf		Lithology Codes

TENEMENT DETAILS

LICENSEE: **Low Impact Diamond Drilling Specialists Pty Ltd & N.B., & S Brown**
Grant date 1: 27/09/2007

ABN: 31 079 634 692

ABSTRACT.

Exploration Licence 28/2007 comprises 1 square kilometre near Ringarooma was granted on 27th September 2007 to N.B., & S Brown and Low Impact Diamond Drilling Specialists Pty Ltd (LIDDS). LIDDS are acting as managers of the Licence.

During 2008 – 2009 work continued on undertaking a review on all available data and literature pertaining to the Bell's Hill area. Site visits were undertaken and surface rock material submitted for analysis. Two (2) Surface Diamond Drill Holes were completed during the reporting period.

Key results of the exploration to date are as follows;

- Depth of weathering was significantly deeper than surface mapping indicated.
- Diamond drilling is not recommended as an exploration tool due to the deep weathering profile.
- Both surface drill holes intersect mineralisation where identified based on historic mine plans however the tenor of mineralisation was not at a level indicated by historic literature.
- Numerous sulphidic greisens were intersected indicating exploration potential may exist for a low grade stanniferous resource.

KEY WORDS

Location Name:	Bells Hill, Ringarooma, Weldborough
Earth Science Related Terms:	fault, shear, post mineralisation shear, brittle offset.
Environment of Mineralisation:	shear hosted mineralisation, vein stockwork, greisen veining.
Commodities:	tin, gold, silver, copper.
Exploration Methods:	Historical research, drill testing based on model, rock chip sampling/field mapping.
Mine / prospect name:	Bells Hill.
Stratigraphic Name:	Mathinna Supergroup
Geological province name:	Blue Tier Batholith
Geological age:	Devonian, Silurian.

1.0 Introduction.

Exploration Licence 28/2007 comprises 1 square kilometre near Ringarooma was granted on 27th September 2007 to N.B & S Brown and Low Impact Diamond Drilling Specialists Pty Ltd (LIDDS).

During 2008 – 2009 work was undertaken to review all available data and literature pertaining to the Bell's Hill. Site visits were also undertaken and surface rock material submitted for standard analysis (Appendix 2) with other selected specimens being analysed by Nitron XRD. A Work Plan was subsequently submitted to the Department and approved and two (2) surface Diamond Drill Holes (BHDDH001 & BHDDH002) drilled.

Key results of the exploration to date are as follows;

- Both surface drill holes intersect mineralisation where identified based on historic mine plans however the tenor of mineralisation was not at a level indicated by historic literature.
- Depth of weathering was significantly deeper than surface mapping indicated.
- Diamond drilling is not the recommended exploration tool due to the deep weathering profile.
- Numerous sulphidic greisens were intersected indicating exploration potential may exist for a low grade stanniferous resource.

2.0 Exploration Objectives.

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

The presence of historic surface alluvial sluicing and hard-rock exploration of stanniferous veining indicates that the licence has exploration potential.

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

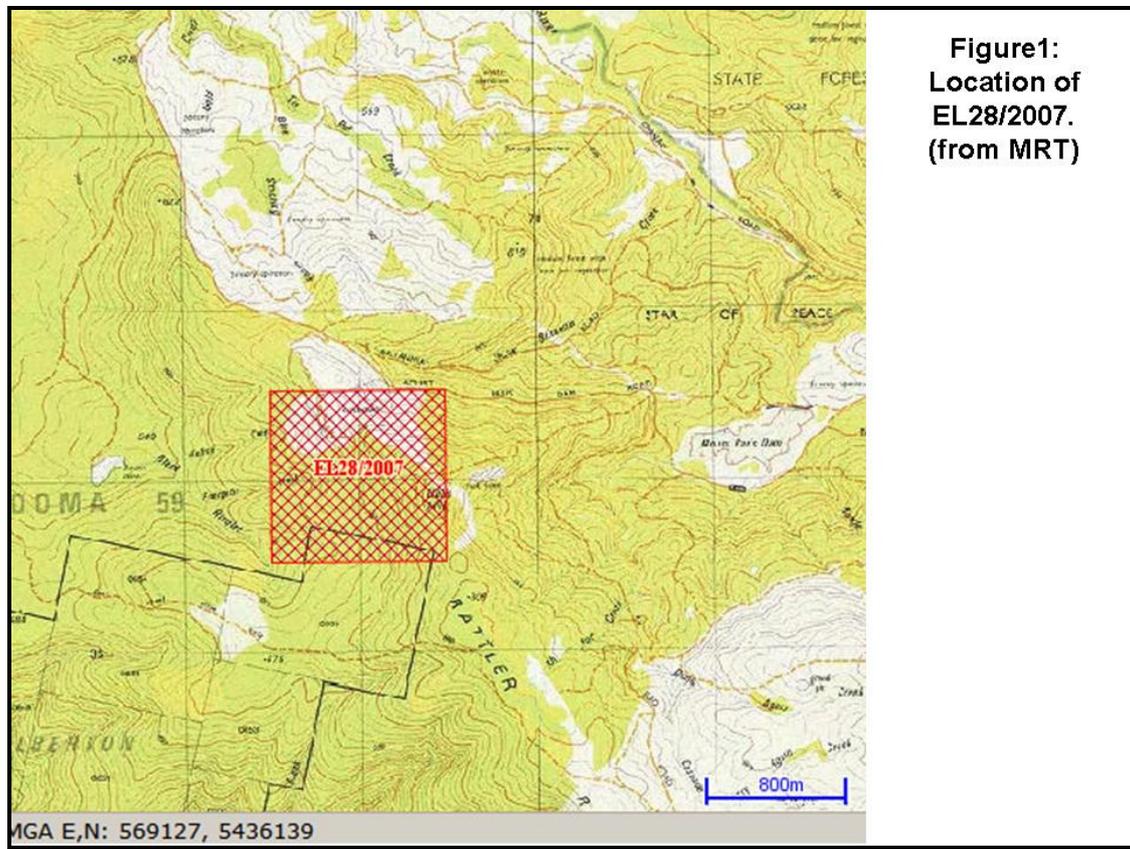
- Confirm the veracity and extent of previous mapping and anomalous tin mineralisation,
- Inspect and sample any available underground openings.
- Drill test around historic underground workings at depth to determine structural controls and geometry of primary source.

3.0 Location and Access.

The Bell's Hill Prospect is located in North East Tasmania, about 7 kilometres north-east of Ringarooma and 7.5 kilometres South-west of Weldborough. The main access route to the area is via the sealed New River Road and the unsealed Dead Horse Hill and Mount Paris Dam Roads.

The licence covers 1 square covering a portion of previously sluiced workings.

Figure 1. Exploration Licence 28/2007



4.0 Regional Geology.

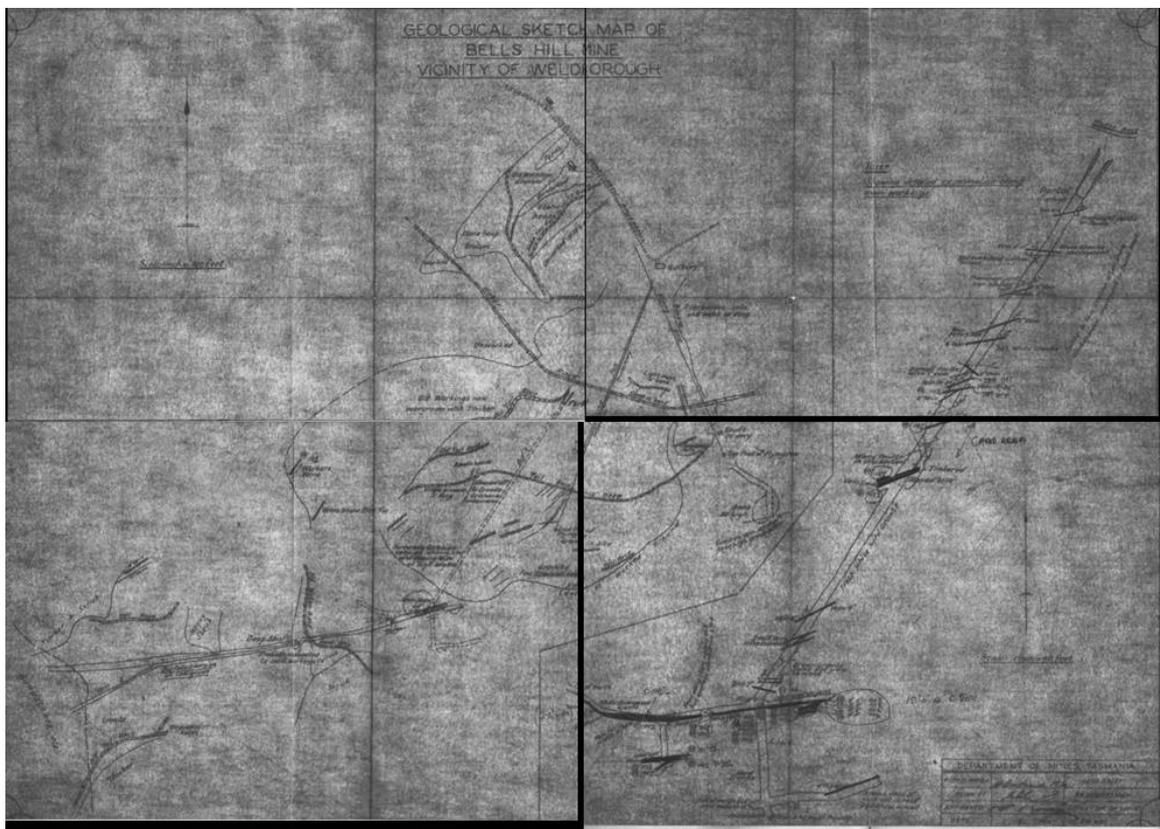
The regional geology is described as the south – western extension of Devonian aged, Blue Tier batholith that have been exposed through the erosion of Devonian – Silurian sandstones, slates and mudstones of the Mathinna Group (Solomon, 1971).

The mineralisation at Bell's Hill consists of quartz – topaz +- cassiterite +- sulphides hosted by soft altered, medium to coarse grained, equigranular, muscovite granite.

5.0 Previous Work.

The area has been subject to both limited production of tin from both surface and underground sources (Nye 1925, Cundy 1925). Early reviews concentrated on the underground prospectivity with both authors mentioning the presence of multiple mineralised vein systems being developed along underground. Cundy stated that 300 tons of 3% tin ore were extracted from a No3. Lode (Figure 2).

Figure 2. Plan of Bell's Hill Workings (Cundy 1925).



Significant exploration sampling was completed by Union Corp which focussed on the presences of what was described broadly as a greisen vein swarm focussed around several preferential orientations.

Costeaning on a north-trending granite/sediment contact which dips approximately 30° west exposed the largest vein system (The Main Lode developed along from underground) which strikes approximately east-west and terminates against the Mathinna Beds. Coarse cassiterite and a fine network of Quartz-tourmaline veinlets occur in the main lode and Mathinna Bed sediments respectively.

Several other greisen vein swarms returned significant zones of elevated tin mineralisation. The greisen veins contain between 0.002% and 3.26% tin, commonly 0.15% (Windall, 1981)

Union Corps conclusions prior to their relinquishment of the area were that the area had the potential to host a significant low grade tin resource. A diamond drill hole was proposed but never completed prior to the licence being dropped.

Preliminary analysis of sulphides collected from the surface was undertaken for Union Corp (Taylor, Rubenach, 1981) and it was concluded that “the veins were essentially quartz (topaz?) +-cassiterite, arsenopyrite and chalcopyrite with accompanying quartz-topaz alteration of the surrounding granite. Surface samples had apparently given grades up to 3% copper with some silver. Taylor suspected that the presence of both the elevated copper and silver were a result of supergene mineralisation.

6.0 Exploration Completed During the Reporting Period

During this period the Licence was subject to significant review of all available data by LIDDS and their geological consultants (GEMS Pty Ltd). Data collation involved all available information on open file as well as sourcing Union Corporation reports that had not been available from the MRT.

Several site inspections were also undertaken during the reporting period by N Brown, and representatives of both LIDDS Pty Ltd and GEMS Pty Ltd.

Analysis was undertaken on one piece of siliceous greisen material collected at the northern end of the outcropping siliceous main structure. The sample contained a silver sulphide mineral along with a black mineral (cassiterite?). The data was analysed by Genalysis Laboratory Services with the results indicating that the material was anomalous in tin, silver and copper (Table 1).

Table 1. Analysis of Rock Sample BH01 – Genalysis Laboratory Services.

Element	Au	Ag	As	Cu	Sn
Unit	ppb	ppm	ppm	ppm	Ppm
Detection	1	1	10	1	10
Method	B/ETA	AT/OES	AT/OES	AT/OES	AT/OES
BH01	2	50	8,973	6,694	2,160

Subsequently a Work Plan to undertake drilling was approved by the MRT and during November / December 2008 rehabilitation of the pre-existing track was undertaken to enable vehicular access up to the surface workings. Investigation of the main adit also revealed that access to the underground working was not possible due to a fall of ground approximately 40 metres in from the surface along the main adit access.

Drilling was undertaken during January and March 2009 from a previously prepared drill pad to test for mineralisation immediately below workings shown to have mineralisation according to an old 1925 plan by Cundy.

Two drill holes (BHDDH001 and BHDDH002) were drilled by LIDDS Pty Ltd using an Onram 1000 – diesel-hydraulic drill rig. Core was drilled at NTW diameter from the drill pad (5 427 962mN, 566 653mE GDA94). Both holes were interpreted to have intersected at least one of the previously mapped lode structures, however BHDDH001 which reached design depth failed to intersect significant visible tin mineralisation associated with the 'Main Lode' structure immediately below the main adit level.

The second hole (BHDDH002) was terminated approximately twenty (20) metres short of the design depth due to extensive weathering of the host rock causing collapsing of the hole which threatened to cause the drill string to become seized in the hole.

The depth of weathering was discovered to be significantly deeper than anticipated and projected with both holes terminating in moderately to highly weathered granite. The depth and degree of weathering resulted in extremely poor recovery of core from both holes.

Drill hole BHDDH001 was logged on site with several zones suspected of containing cassiterite subsequently being tested using a hand-held Nitron XRD which failed to detect anything above anomalous (0.01%) tin mineralisation, however check analysis was undertaken by submitting the same portions of the hole for wet-chemistry analysis by Bernie Research Laboratory.

The second hole, (BHDDH002) was drilled from the same pad but designed at a lower angle. This hole failed to penetrate to the target depth however silicified greisen with sulphides intersected at the collar was submitted for analysis (Table 2)

Table 2: Significant Assay Results – Diamond Drilling 2008 – 2009

Hole_Id	From	To	Sn (%)	As (ppm)	Cu (ppm)	Ag (ppm)
BHDDH001	47.80	48.80	0.11	77,100	3,137	25
BHDDH001	48.80	49.70	0.01	102,000	529	19
BHDDH002	1.90	2.30	0.34	9,150	1,130	8
BHDDH002	6.00	6.50	0.44	1,100	79	<1

7.0 Discussion and Conclusions.

The discovery of the detailed surface sampling program undertaken by Union Corporation up to relinquishment in 1981 indicates that Bell's Hill is a legitimate target for low grade bulk tin mineralisation.

The presence of a higher grade 'core' related to previous underground development was unable to be confirmed with two (2) diamond drill holes targeted to pass just above and below historic mineralisation failing to intersect significant high grade mineralisation. Unfortunately drill hole BHDDH002 which was designed to pass above the level of the main Adit failed to reach the designed depth.

Initial analysis of selected material from BHDDH001 using a hand-held NITRON XRD detector failed to highlight any elevated tin, silver or copper. However independent analytical checking of the zones was undertaken using standard wet-chemistry in a laboratory indicated that the samples were in fact anomalous in silver copper and tin.

This result cast doubt upon the validity of relying solely on the XRD method for analysis.

The fact that several zones of silicification were found where expected (up dip from the underground mapped positions) and appeared to contain what is now believed to be cassiterite as well as additional unidentified silvery, metallic sulphides containing arsenic, silver and copper is encouraging as far as exploration goes. The tenor of the tin mineralisation is however significantly less than the recorded in historic documents.

The depth of weathering encountered is at odds with historic data from the underground which indicated that mineralisation was located within "...fresh hard granite". The possibility may exist that both drill holes managed to penetrate along a broad deeply weathered structure and is not representative of the granite. Drill hole BHDDH001 which was drilled to a depth of 107.8 metres only managed a recovery of 31% (33.6m) of the core from the hole. BHDDH002 was completed only to a depth of 62.8 metres, the target depth being 85.0 metres. The hole was terminated as a result of continued collapsing as it was being drilled and after the drill string had become bogged at 62.8 metres the decision was made to abandon the hole short and avoid the risk of losing the entire string. As a consequence of the extremely poor ground conditions a recovery of only 41% of the core was achieved, with the predominantly silicified greisen zones being over-represented in the recovery.

The presence of these silicified greisen zones indicated that significant fluid movement has occurred in the vicinity of Bells Hill and does not distract from the exploration model that a significant low grade stanniferous deposit may exist.

Any future drilling at Bell's Hill should consider using alternative drilling methods such as Reverse Circulation (RC) to improve recovery of samples.

8.0 Expenditure.

Geoscientific Costs

- Geology \$ 14,400
- Geochemistry \$ 171
- Geophysics
- Remote Sensing

Drilling & Gridding Costs

- Gridding \$ 1,550
- Drilling \$ 43,555

Land Access Costs \$ 2,950

Rehabilitation Costs

Feasibility Study Costs

Other Items \$ 600

Administration Costs \$ 1,020

Total Costs **\$ 64,245**

9.0 References

Cundy, W.H., 1925. Bells Hill Tin Mine. *Unpublished Report.*

de Vries, P.J., 2008. EL 28/2007 Bell's Hill Annual Reports 2007 - 2008 *Unpublished report for Low Impact Diamond Drilling Specialists*

Nye, P.B., 1925. Notes on the Bells Hill Tin Mine. *Tas Department of Mines Unpublished Report.*

Solomon, M., 1970 Report on EL15/68 near Derby, North East Tasmania. *MRT 4109/70.*

Solomon, M., 1971 Reconnaissance Geological Survey of Exploration Licence 15/68 near Braxholm, North East Tasmania. *MRT 71-735.*

Taylor, R.G., Rubenach, M.J., 1981. Some Observations upon Bells Hill Tin Prospect, N.E. Tasmania. *Union Corporation (Australia) Pty. Limited. Unpublished Report.*

Winnall, N.J., 1981. The Bells Hill Tin Prospect, North East Tasmania. *Union Corporation (Australia) Pty. Limited. Unpublished Report.*

APPENDICIES

APPENDIX 1

Surface Location (SL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 2/10/2009
H0004 Reporting period end_date 27/09/2009
H0005 State Tasmania
H0100 Tenement_name EL28_2007
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Bell's Hill
H0103 Map_sheet_number_250K SK5505; QUEENSTOWN
H0113 Map_sheet_number_100K 5643; RINGAROOMA
H0123 Map_sheet_number_25K 5642; ALBERTON
H0200 Start_of_data_acquisiton 28/09/2008
H0201 End_of_data_acquisiton 27/09/2009
H0202 Data_format SG1
H0203 Number_of_data_records 2
H0204 Date_of_metadata_update 2/10/2009
H0300 FileNames
H0301 downhole_survey_data_file EL282007_200909_04_dhsurvey.txt
H0302 location_data_file EL282007_200909_02_dhlocation.txt
H0303 assay_data_file EL282007_200909_03_dhassay.txt
H0304 rock_description_file EL282007_200909_05_lithology.txt
H0305 lithology_code_file EL282007_200909_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 Base_OX
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 Base_OX Coll_Surv Drill_Company Lab
D BELLS HILL BELLS HILL BHDDH001 " 568,950.00 " " 5,436,426.00 "
747.00 107.80 DDH BELLS HILL 16/1/2009 21/1/2009 107.8 N
Low Impact Diamond Drilling Specialists Pty Ltd Bernie Research Laboratory
Pty Ltd
D BELLS HILL BELLS HILL BHDDH002 " 568,950.00 " " 5,436,426.00 "
747.00 82.90 DDH BELLS HILL 5/03/2009 7/03/2009 82.90 N
Low Impact Diamond Drilling Specialists Pty Ltd Bernie Research Laboratory
Pty Ltd
EOF

APPENDIX 2

Downhole Geochemistry (DG1)

H0001 Exploration Licence Data header file

H0002 Version 1

H0003 Generated 2/10/2009

H0004 Reporting period end_date 27/09/2009

H0005 State Tasmania

H0100 Tenement_name EL28_2007

H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd

H0102 Project_name Bell's Hill

H0103 Map_sheet_number 100K SK5505; QUEENSTOWN

H0113 Map_sheet_number 50K 5643; RINGAROOMA

H0123 Map_sheet_number 25K 5642; ALBERTON

H0200 Start_date_of_data_acquisition 28/09/2008

H0201 End_date_of_data_acquisition 27/09/2009

H0202 Data_format SG1

H0203 Number_of_data_records 5

H0204 Date_of_metadata_update 2/10/2009

H0300 FileNames

H0301 assay_data_file EL282007_200909_03_dhassay.txt

H0600 Sample_Code Sample_Type Sample_Description

H0601 R Diamond Drill core "0.5 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

H0803 B/ETA Solvent Extraction and Graphite Furnace AAS Genalysis Laboratory
Services Pty Ltd

H0804 AT/OES 4 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_ppbAu_ppm
Ag_ppm As_ppm Cu_ppm Pb_ppm Zn_ppm
Sn_ppm

H1001 B/ETA FA25_AAS AT/OES
AT/OES AT/OES AT/OES AT/OES AT/OES

H1002 metre metre ppb ppm ppm ppm

H1003 0.10 0.10 1 0.01 1 50 1

1 2 10

D Project Prospect Hole-ID From To Sample Au_ppbAu_ppm
Ag_ppm As_ppm Cu_ppm Pb_ppm Zn_ppm

D BELLS HILL BELLS HILL BHDDH001 1.90 2.30 95275 <1
25 77100 3137 0.11

D BELLS HILL BELLS HILL BHDDH001 6.00 6.50 95276 <1
19 102000 529 0.01

D BELLS HILL BELLS HILL BHDDH002 47.80 48.80 95273 <1
8 9150 1330 0.34

D	BELLS HILL	BELLS HILL	BHDDH002	48.80	49.70	95274	<1
	<1	1100	79	0.44			
D	BELLS HILL	BELLS HILL	GRAB		BH01	2	50
	8973	6694	91	0.22			

EOF

APPENDIX 3

Drilling Results (DS1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 2/10/2009
H0004 Reporting period end_date 27/09/2009
H0005 State Tasmania
H0100 Tenement_name EL28_2007
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Bell's Hill
H0113 Map_sheet_number 100K SK5505; QUEENSTOWN
H0123 Map_sheet_number 25K 5643; RINGAROOMA
H0123 Map_sheet_number 25K 5642; ALBERTON
H0200 Start_date_of_data_acquisition 28/09/2008
H0201 End_date_of_data_acquisition 27/09/2009
H0202 Data_format SG1
H0203 Number_of_data_records 4
H0204 Date_of_metadata_update 2/10/2009
H0300 FileNames
H0301 downhole_survey_data_file EL282007_200909_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 BELLS HILL BELLS HILL BHDDH001 56 133 147.5 -59
Eastman Single Shot
D BELLS HILL BELLS HILL BHDDH001 89 132 147.5 -59
Eastman Single Shot
D BELLS HILL BELLS HILL BHDDH002 15 163 177.5 -51.5
Eastman Single Shot
D BELLS HILL BELLS HILL BHDDH002 45 163 177.5 -54
Eastman Single Shot
EOF

APPENDIX 4

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 2/10/2009
H0004 Reporting period end_date 27/09/2009
H0005 State Tasmania
H0100 Tenement_name EL28_2007
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Bell's Hill
H0113 Map_sheet_number_250K SK5505; QUEENSTOWN
H0123 Map_sheet_number_100K 5643; RINGAROOMA
H0123 Map_sheet_number_25K 5642; ALBERTON
H0200 Start_of_data_acquisiton 28/09/2008
H0201 End_of_data_acquisiton 27/09/2009
H0202 Data_format SG1
H0203 Number_of_data_records 32
H0204 Date_of_metadata_update 2/10/2009
H0300 FileNames
H0301 rock_description_file EL282007_200909_05_lithology.txt
H0302 lithology_code_file EL282007_200909_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 Colour Lith_1 Lith_2 MINERAL
WEATHERING QTZ ALT_TYPE
H1001 metres metres species degree %
style
H1004 0.1 0.1 5
D Project Prospect Hole-ID From To Lithology
Sulphide Weathering Qtz Pct ALT_TYPE
D BELLS HILL BELLS HILL BHDDH001 0 2.6 GRIES
cass(?) stan(?) MW 0 sil
D BELLS HILL BELLS HILL BHDH0001 2.6 8.5 GRAN
- EW 0 -
D BELLS HILL BELLS HILL BHDDH001 8.5 11.8 GRIES
stan(?) LW 0 sil
D BELLS HILL BELLS HILL BHDDH001 11.8 14.7 GRAN
- VW 0 -
D BELLS HILL BELLS HILL BHDDH001 14.7 15.8 GRIES
sul(?) MW 0 sil
D BELLS HILL BELLS HILL BHDDH001 15.8 18 GRAN
- MW 0 -
D BELLS HILL BELLS HILL BHDDH001 18 20.1 GRAN
- VW 0 -
D BELLS HILL BELLS HILL BHDDH001 20.1 23.8 GRIES
- VW 0 -
D BELLS HILL BELLS HILL BHDDH001 23.8 28.4 GRAN
- VW 0 -
D BELLS HILL BELLS HILL BHDDH001 28.4 38.8 GRAN
- VW 0 -
D BELLS HILL BELLS HILL BHDDH001 38.8 44.8 GRAN
- VW 0 -

D	BELLS HILL	BELLS HILL	BHDDH001	44.7	47.7	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH001	47.7	50	GRIES
	cass(?) stan(?)	LW 0 sil				
D	BELLS HILL	BELLS HILL	BHDDH001	50	101.4	GRAN
	- MW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH001	101.4	102.4	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH001	102.4	107.8	GRAN
	flour(?) MW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	6.5	11.3	GRIES
	- VW	0 sil				
D	BELLS HILL	BELLS HILL	BHDDH002	11.3	14.8	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	14.8	17.8	GRIES
	sul(?) VW	0 sil				
D	BELLS HILL	BELLS HILL	BHDDH002	17.8	22.8	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	22.8	23.8	GRIES
	- VW	0 "sil, feox"				
D	BELLS HILL	BELLS HILL	BHDDH002	23.8	42.7	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	42.7	45	GRIES
	sul(?) mal	VW 0 "sil, feox"				
D	BELLS HILL	BELLS HILL	BHDDH002	45	46.1	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	0	2.3	GRIES
	cass(?) stan(?) cpy	LW 0 sil				
D	BELLS HILL	BELLS HILL	BHDDH002	2.3	5.4	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	5.4	6.5	GRIES
	- MW	0 "sil, feox"				
D	BELLS HILL	BELLS HILL	BHDDH002	46.1	46.3	GRIES
	- VW	0 sil				
D	BELLS HILL	BELLS HILL	BHDDH002	46.3	50.6	GRAN
	- VW	0 -				
D	BELLS HILL	BELLS HILL	BHDDH002	50.6	50.7	GRIES
	- VW	0 sil				
D	BELLS HILL	BELLS HILL	BHDDH002	50.7	62.8	GRAN
	- VW	0 -				

EOF

APPENDIX 5

Lithological Logging (DL1)

H0001 Exploration Licence Data header file
H0002 Version 1
H0003 Generated 2/10/2009
H0004 Reporting period end_date 27/09/2009
H0005 State Tasmania
H0100 Tenement_name EL28_2007
H0101 Tenement_holder Low Impact Diamond Drilling Specialists Pty Ltd
H0102 Project_name Bell's Hill
H0113 Map_sheet_number 100K SK5505; QUEENSTOWN
H0123 Map_sheet_number 50K 5643; RINGAROOMA
H0123 Map_sheet_number 25K 5642; ALBERTON
H0200 Start_date_of_data_acquisition 28/09/2008
H0201 End_date_of_data_acquisition 27/09/2009
H0202 Data_format SG1
H0203 Number_of_data_records 32
H0204 Date_of_metadata_update 2/10/2009
H0300 FileNames
H0301 lithology_code_file EL282007_200909_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
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
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)
EOF