

**EL01/2006 – DIAMOND HILL**

**TASMANIA**

**ANNUAL TECHNICAL REPORT**

**4<sup>TH</sup> SEPTEMBER 2008 – 3<sup>RD</sup> SEPTEMBER 2009**

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Geological, Educational & Mining Services Pty Ltd

REPORT No: EL012006\_ATR\_SEP\_09

REPORT DATE: 08/10/2009

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

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	EL012006_200909_01_report	pdf	Report Body
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### Drilling

Drilling	EL012006_200909_02_dhlocation	txt	Drill hole collar locations
Drilling	EL012006_200909_03_dhassay	txt	Drill hole assay data
Drilling	EL012006_200909_04_dhsurvey	txt	Down hole survey
Drilling	EL012006_200909_05_lithology	txt	Drill hole lithology
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Report	EL012006_200909_02_appendix1	pdf	Drill hole collar locations
Report	EL012006_200909_03_appendix2	pdf	Drill hole assay data
Report	EL012006_200909_04_appendix3	pdf	Down hole survey
Report	EL012006_200909_05_appendix4	pdf	Drill hole lithology
Report	EL012006_200909_06_appendix5	pdf	Lithology Codes

## TENEMENT DETAILS

LICENSEE: **Low Impact Diamond Drilling Specialists Pty Ltd**  
Grant date 1: 06/09/2006

ABN: 31 079 634 692

## ABSTRACT

Exploration Licence 01/2006 originally comprised 11 square kilometres near Queenstown and was granted on 6th September 2006 to Low Impact Diamond Drilling Specialists Pty Ltd (LIDDS). The Licence was subsequently combined with EL67/2007 Davies Hill during 2008 with the new area being 13 square kilometres in total.

During 2008 – 2009 only minor field work and additional follow-up sampling of MHDH04 was undertaken.

## KEY WORDS

Location Name:	Diamond Hill, Queenstown
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, Volcanic Massive Sulphides
Commodities:	gold, silver, barite, copper, lead, zinc
Exploration Methods:	Historical research, drill testing based on model, rock chip sampling/field mapping.
Mine / prospect name:	Mt Lyall, Madam Howard,
Stratigraphic Name:	Youlande River Sequence, Mount Read Volcanics
Geological province name:	Mount Read Volcanics
Geological age:	Ordovician, Devonian, Cambrian.

## **1.0 Introduction.**

Exploration Licence EL01/2006 comprising 13 square kilometres near Queenstown was granted on 4th September 2006 to Low Impact Diamond Drilling Specialists (LIDDS) Pty Ltd.

During the reporting period September 5, 2008 to September 3, 2009 only minor field work was undertaken on the licence. Work undertaken during the period included submission of additional core samples for analysis from MH05 drilled during the period 2006 – 2007.

## **2.0 Exploration Objectives.**

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

The proximity of the lease to the Pearl Creek - Firewood Siding Fault system, the defined edge of the Mt Read Volcanics and the inferred interaction of the splay off the South Henty Fault all allow for the potential of either gold or massive sulphide mineralisation.

Primary exploration will continue to focus on testing discrete anomalies as defined by independent re-interpretation of historic geophysical data.

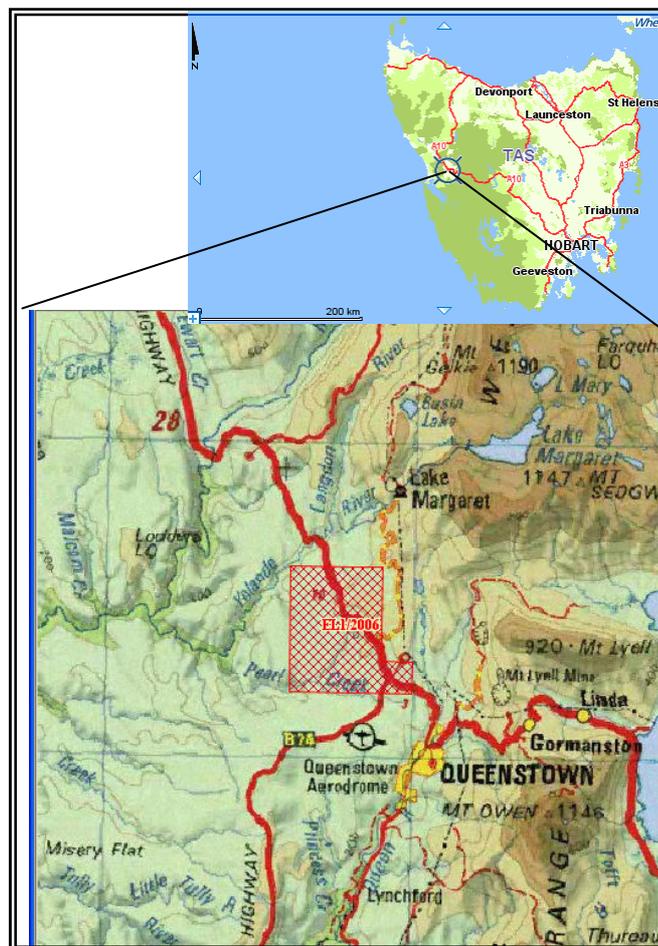
### 3.0 Location and Access.

Exploration Licence EL01/2006 is located near the township of Queenstown, situated in the west coastal region of Tasmania.

The licence is situated within open crown land areas and is serviced by a network of unsealed tracks, all weather roads and fire trails.

Topographic relief varies from gently undulating heath areas to steep hills and ridges with deeply incised valleys developed in the western area of the licence. Vegetation is dominated by low scrub and the license is not subject to any agricultural practices.

**Figure 1. Exploration Licence 01/2006**



#### **4.0 Regional Geology.**

The regional geology of EL 01/2006 has been previously described by other authors (Qualyle, 1995). The area is adjacent to and may contain fault offset blocks of the main Mount Read Volcanic (MRV) suite that host mineralisation at Queenstown.

The Firewood Siding Fault and its Henty River offset zone appear to connect northward into the Ewart Creek Fault system, dominates the region and rock distribution. Ordovician to Devonian rocks is exposed south of this predominately E-W structure while Cambrian volcanoclastic suites are exposed to the north of it.

In the area east of 373500 E and generally east of the Henty River, the Cambrian rocks have been described as greywacke siltstone with interbedded acid tuffs (Baillie, 1977) contained within the Youlande River Sequence. The materials (Corbett et al, 1989) appear to be enriched in volcanic components and include at least three quartz-feldspar porphyry variants. Some of these bodies have a NW extension but all appear to terminate a little north of the Madam Howard Deposits

The license is dominated by these quartz–feldspar porphyry intrusives some of which (Diamond Hill) are cut by quartz veins carrying gold mineralisation.

## **5.0 Previous Work.**

The area has been subject to both limited production of industrial minerals (barite from the Madam Howard Barite deposits as well as gold exploration in the form of four hand dug exploration adits (circa 1809 – pre-Mt Lyell discovery).

The area has been held under licence by many major companies including Pasminco Exploration, Copper Mines of Tasmania who have undertaken various regional exploration programmes.

Detailed geophysical coverage has been undertaken by Leaman Geophysics (Leaman, 1993) for Pasminco Exploration. This work and that of Copper Mines of Tasmania Pty Ltd (Morrison, 2001) who also undertook significant ground based regional work that included the current Licence area, have provided a large amount of geological and geophysical data. It is noted that several recommendations for additional follow-up exploration specifically related to the Diamond Hill area were never acted upon.

During the period 2006 – 2007 Low Impact Diamond Drilling; the licence holder undertook drilling of a single drill hole designed to test both the presence of a projected cross cutting fault zone and to confirm localised geology.

A single diamond drill hole (MHDH004) was completed and returned a best result of 1.0 metre from 128.2 metres down hole of 79,000 ppm Pb (7.9%) and 5.0 g/t Ag associated with bleaching and minor stockwork quartz-carbonate-chlorite-sericite veining within altered siltstones and minor volcanoclastic sandstones.

## **6.0 Exploration Completed During the Reporting Period**

During the current reporting period only minor field work in the form of inspections of the location and condition of previous access tracks has been undertaken as the licence as it has been subject to consolidation by the combining of EL67/2007 Davies Hill into the licence.

Additional portions of Diamond Drill Hole MHD004 were submitted for analysis for gold, silver and base metals from 178.0 metres down hole to 207.1 metres. No significant additional anomalies were detected.

## **7.0 Discussion and Conclusions.**

The results obtained during the 2006 – 2007 period from MHD004 combined with the detailed geological logging, confirms the presence of a broad alteration zone that has been subject to fluid flows containing base metals. The presence of several faulted zones also indicates a potentially significant dilatational zone which may act to trap remobilised mineralising fluids.

Further additional work is still required in order to prioritise targets within the licence, a focus on obtaining all available electronic geophysical data will be conducted to assist in geological mapping and drill targeting.

Diamond Hill requires follow-up to confirm historically anomalous gold values and to determine optimal drilling direction and drill hole targets.

## 8.0 Expenditure.

### Geoscientific Costs

- Geology \$ 4,400
- Geochemistry \$ 1,238
- Geophysics
- Remote Sensing

### Drilling & Gridding Costs

- Gridding
- Drilling

### Land Access Costs

### Rehabilitation Costs

### Feasibility Study Costs

### Other Items

Administration Costs \$ 500

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**Total Costs** \$6,138

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## 9.0 References

**Baillie, P.W., 1977.** Strahan. 1:50,000 Geological Map Sheet. *Tas Department of Mines Geological Atlas.*

**Corbett, K.D., Calver, C.R., Everard, J.L., & Seymour, D.B., 1989.** Queenstown. 1:25,000 Geological Mapping Sheet. . *Tas Department of Mines Geological Atlas.*

**de Vries , P. J., 2008.** EL01/2006 – Diamond Hill Annual Report 2006 – 2007. *Low Impact Diamond Drilling Specialists Pty Ltd.*

**de Vries , P. J., 2008.** EL01/2006 – Diamond Hill Annual Report 2007 – 2008. *Low Impact Diamond Drilling Specialists Pty Ltd.*

**Leaman, D.E.,1993,** *EL25/91 Yolande River Aeomagnetic Survey Acquisition. Pasminco Exploration.*

**Morrison, K., & Miller, C., 2001,** Proposed Exploration Program and Budget . Mt Lyle, Queenstown. *Copper Mine of Tasmania Pty Ltd.*

**Quayle, P.M., 1995** Yolande River EL25/91 Final Report November 1991 – August 1995. *Pasminco Exploration. MRT 95-3746.*

## **APPENDICIES**

## **APPENDIX 1**

Surface Location (SL1)

H0001 Exploration Licence Data header file  
H0002 Version 1  
H0003 Generated 8/09/2009  
H0004 Reporting period end\_date 5/09/2009  
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H0101 Tenement\_holder Low Impact Diamond Drilling Specialists Pty Ltd  
H0102 Project\_name Diamond Hill  
H0103 Map\_sheet\_number\_250K "SK5505; QUEENSTOWN"  
H0113 Map\_sheet\_number\_100K "8013; FRANKLIN"  
H0123 Map\_sheet\_number\_25K "3833; OWEN"  
H0200 Start\_of\_data\_acquisiton 6/09/2009  
H0201 End\_of\_data\_acquisiton 5/09/2009  
H0202 Data\_format SG1  
H0203 Number\_of\_data\_records 1  
H0204 Date\_of\_metadata\_update 6/09/2009  
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H0301 downhole\_survey\_data\_file EL012006\_200909\_04\_dhsurvey.txt  
H0302 location\_data\_file EL012006\_200909\_02\_dhlocation.txt  
H0303 assay\_data\_file EL012006\_200909\_03\_dhassay.txt  
H0304 rock\_description\_file EL012006\_200909\_05\_lithology.txt  
H0305 lithology\_code\_file EL012006\_200909\_06\_lithcode.txt  
H0306 assay\_data\_file EL012006\_200909\_07\_standards.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 DIAMOND HILL DIAMOND HILL MHDH004 " 378,809.00 " "  
5,343,885.00 " 297.00 208.10 DDH UNKNOWN 10/9/2007 21/9/2007 0  
Y Low Impact Diamond Drilling Specialists Pty Ltd Analabs - Bernie  
EOF

## **APPENDIX 2**

Downhole Geochemistry (DG1)

H0001 Exploration Licence Data header file  
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H0003 Generated 8/09/2009  
H0004 Reporting period end\_date 5/09/2009  
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H0101 Tenement\_holder Low Impact Diamond Drilling Specialists Pty Ltd  
H0102 Project\_name Diamond Hill  
H0103 Map\_sheet\_number\_250K "SK5505; QUEENSTOWN"  
H0113 Map\_sheet\_number\_100K "8013; FRANKLIN"  
H0123 Map\_sheet\_number\_25K "3833; OWEN"  
H0200 Start\_date\_of\_data\_acquisition 6/09/2009  
H0201 End\_date\_of\_data\_acquisition 5/09/2009  
H0202 Data\_format SG1  
H0203 Number\_of\_data\_records 46  
H0204 Date\_of\_metadata\_update 6/09/2009  
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H0301 assay\_data\_file EL012006\_200909\_03\_dhassay.txt  
H0600 Sample\_Code Sample\_Type Sample\_Description  
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  
H0900 Remarks Down Hole Geochemistry  
H1000 Project Prospect Hole-ID From To Sample Au\_ppm  
Ag\_ppm As\_ppm Cu\_ppm Pb\_ppm Zn\_ppm  
H1001 metre metre ppm ppm ppm ppm  
H1002 0.10 0.10 0.01 1 50 1 1  
2  
D Project Prospect Hole-ID From To Sample Au\_ppm  
Ag\_ppm As\_ppm Cu\_ppm Pb\_ppm Zn\_ppm  
D DIAMOND HILL DIAMOND HILL MHDH04 124.00 125.00  
15401 0.02 3 NA 60 50 80  
D DIAMOND HILL DIAMOND HILL MHDH04 125.00 126.20  
15402 <0.01 2 NA 20 40 50  
D DIAMOND HILL DIAMOND HILL MHDH04 126.20 127.20  
15403 <0.01 2 NA 10 50 50  
D DIAMOND HILL DIAMOND HILL MHDH04 127.20 128.20  
15404 <0.01 1 NA 10 60 80  
D DIAMOND HILL DIAMOND HILL MHDH04 128.20 138.20  
15405 <0.01 5 NA 10 79000 90  
D DIAMOND HILL DIAMOND HILL MHDH04 138.20 144.20  
15406 <0.01 <1 NA 10 160 90  
D DIAMOND HILL DIAMOND HILL MHDH04 144.20 145.70  
15407 <0.01 <1 NA 10 170 60

D	DIAMOND HILL 15408 <0.01 3	DIAMOND HILL NA 20 9800	MHDH04 340	145.70	147.20
D	DIAMOND HILL 15409 <0.01 1	DIAMOND HILL NA 10 240	MHDH04 60	147.20	148.70
D	DIAMOND HILL 15410 <0.01 1	DIAMOND HILL NA 10 60	MHDH04 30	148.70	150.70
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D	DIAMOND HILL 15412 <0.01 <1	DIAMOND HILL NA 10 30	MHDH04 20	155.00	158.00
D	DIAMOND HILL 15413 <0.01 <1	DIAMOND HILL NA 10 1180	MHDH04 20	158.00	159.50
D	DIAMOND HILL 15414 <0.01 <1	DIAMOND HILL NA 10 50	MHDH04 5200	159.50	161.00
D	DIAMOND HILL 15415 <0.01 1	DIAMOND HILL NA 20 140	MHDH04 7710	161.00	166.30
D	DIAMOND HILL 15416 <0.01 <1	DIAMOND HILL NA 10 160	MHDH04 270	166.30	167.30
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D	DIAMOND HILL 95232 <0.01 <1	DIAMOND HILL 100 9 44	MHDH04 75	179.00	180.00
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D	DIAMOND HILL 95234 <0.01 <1	DIAMOND HILL 20 121 5	MHDH04 46	181.00	182.00
D	DIAMOND HILL 95235 <0.01 <1	DIAMOND HILL 100 203 7	MHDH04 39	182.00	183.00
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D	DIAMOND HILL 95238 <0.01 <1	DIAMOND HILL 150 42 5	MHDH04 41	185.00	186.00
D	DIAMOND HILL 95239 <0.01 <1	DIAMOND HILL 150 111 4	MHDH04 38	186.00	187.00
D	DIAMOND HILL 95240 <0.01 <1	DIAMOND HILL 250 282 3	MHDH04 52	187.00	188.00
D	DIAMOND HILL 95241 <0.01 <1	DIAMOND HILL 100 52 6	MHDH04 43	188.00	189.00
D	DIAMOND HILL 95242 <0.01 <1	DIAMOND HILL <50 371 <1	MHDH04 28	189.00	190.00
D	DIAMOND HILL 95243 <0.01 <1	DIAMOND HILL <50 27 9	MHDH04 40	190.00	191.00
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D	DIAMOND HILL 95249 <0.01 <1	DIAMOND HILL 100 31 6	MHDH04 55	196.00 197.00
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EOF

## **APPENDIX 3**

Drilling Results (DS1)

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H0101 Tenement\_holder Low Impact Diamond Drilling Specialists Pty Ltd  
H0102 Project\_name Diamond Hill  
H0103 Map\_sheet\_number\_250K "SK5505; QUEENSTOWN"  
H0113 Map\_sheet\_number\_100K "8013; FRANKLIN"  
H0123 Map\_sheet\_number\_25K "3833; OWEN"  
H0200 Start\_date\_of\_data\_acquisition 6/09/2009  
H0201 End\_date\_of\_data\_acquisition 5/09/2009  
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H0203 Number\_of\_data\_records 4  
H0204 Date\_of\_metadata\_update 10/09/2009  
H0300 FileNames  
H0301 downhole\_survey\_data\_file EL012006\_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 DIAMOND HILL DIAMOND HILL MHDH004 80 200.5 188  
-70 Eastman Single Shot  
D DIAMOND HILL DIAMOND HILL MHDH004 110 232.5  
220(?) -70 Eastman Single Shot  
D DIAMOND HILL DIAMOND HILL MHDH004 160 207.5 195  
-69 Eastman Single Shot  
D DIAMOND HILL DIAMOND HILL MHDH004 208 197.5 185  
-68 Eastman Single Shot  
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## **APPENDIX 4**

Lithological Logging (DL1)

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H0102 Project\_name Diamond Hill  
H0103 Map\_sheet\_number\_250K "SK5505; QUEENSTOWN"  
H0113 Map\_sheet\_number\_100K "8013; FRANKLIN"  
H0123 Map\_sheet\_number\_25K "3833; OWEN"  
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H0201 End\_of\_data\_acquisiton 5/09/2009  
H0202 Data\_format SG1  
H0203 Number\_of\_data\_records 1  
H0204 Date\_of\_metadata\_update 6/09/2009  
H0300 FileNames  
H0301 rock\_description\_file EL012006\_200909\_05\_lithology.txt  
H0302 lithology\_code\_file EL012006\_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\_CODE  
H1001 metres metres species degree %  
H1004 0.1 0.1 1  
1  
D Project Prospect Hole-ID From To Colour Lith\_1 Lith\_2  
Sulphide Weath Qtz(%) Alt  
D DIAMOND HILL DIAMOND HILL MHDH04 0 13.7 lt  
gy CL QZSHTNULL EW 0 0  
D DIAMOND HILL DIAMOND HILL MHDH04 13.7 15.2 lt  
gy SLTST PMSHT NULL MW 0 0  
D DIAMOND HILL DIAMOND HILL MHDH04 15.2 18.2 wh  
QV NULL MW 60 0  
D DIAMOND HILL DIAMOND HILL MHDH04 18.2 24.2 lt  
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D DIAMOND HILL DIAMOND HILL MHDH04 25.4 36 lt  
gy SLTST SST NULL LW 0 0  
D DIAMOND HILL DIAMOND HILL MHDH04 36 37.3 wh  
QV NULL LW 80 0  
D DIAMOND HILL DIAMOND HILL MHDH04 37.3 39 lt  
gy SST NULL LW 0 0  
D DIAMOND HILL DIAMOND HILL MHDH04 39 39.1 pk  
cr FLT NULL F 0 0

D	DIAMOND HILL	DIAMOND HILL	MHDH04	39.1	85.3	dk
gy	SLTST SST	NULL F	0 0			
D	DIAMOND HILL	DIAMOND HILL	MHDH04	85.3	87.1	lt
gy	SLTST VOLC	NULL F	0 0			
D	DIAMOND HILL	DIAMOND HILL	MHDH04	87.1	128.4	dk
gy	SLTST VOLC	NULL F	0 0			
		MHDH04	128.4	129.1	lt gy	SLTST gal F
	5	2				
		MHDH04	129.1	145.8	dk gy	SLTST NULL F
	0	0				
D	DIAMOND HILL	DIAMOND HILL	MHDH04	145.8	146.1	dk
gy	SLTST	NULL F	0 0			
		MHDH04	146.1	147.5	lt gy	SLTST gal sph bar
	F	5	3			
D	DIAMOND HILL	DIAMOND HILL	MHDH04	147.5	161.7	lt
gy	SLTST	NULL F	0 0			
		MHDH04	161.7	162.25	lt gy	SLTST sph F
	5	2				
		MHDH04	162.25	165.3	lt gy	SLTST sph gal F
	5	2				
D	DIAMOND HILL	DIAMOND HILL	MHDH04	165.3	176.1	lt
gy	SLTST	NULL F	0 0			
D	DIAMOND HILL	DIAMOND HILL	MHDH04	176.1	180.2	lt
gy pk	SHR	NULL F	0 0			
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## **APPENDIX 5**

Lithological Logging (DL1)

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H0004 Reporting period end\_date 5/09/2009  
H0005 State Tasmania  
H0100 Tenement\_name EL01\_2006  
H0101 Tenement\_holder Low Impact Diamond Drilling Specialists Pty Ltd  
H0102 Project\_name Diamond Hill  
H0103 Map\_sheet\_number\_250K "SK5505; QUEENSTOWN"  
H0113 Map\_sheet\_number\_100K "8013; FRANKLIN"  
H0123 Map\_sheet\_number\_25K "3833; OWEN"  
H0200 Start\_date\_of\_data\_acquisition 6/09/2009  
H0201 End\_date\_of\_data\_acquisition 5/09/2009  
H0202 Data\_format SG1  
H0203 Number\_of\_data\_records 16  
H0204 Date\_of\_metadata\_update 6/09/2009  
H0300 FileNames  
H0301 lithology\_code\_file EL012006\_200909\_06\_lithcode.txt  
H0502 Vertical\_datum AHD  
H0506 Surveying\_instrument  
H0507 Surveying\_company  
H0900 Remarks Logging Codes  
H1000 Code Lithology  
H1001  
H1004  
D CODE LITHOLOGY  
D QV Quartz vein  
D SLTST Siltstone  
D CL Clay  
D SST sandstone  
D FLT Fault  
D SHR Shear zone  
D  
D WEATHERING  
D CODE WEATHERING  
D F FRESH  
D EW EXTREME WEATHERED  
D MW MODERATELY 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  
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)"
- EOF