UNITY MINING LTD

REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD038	**Drilling Contractor:**	EDrill Australia
Location:	Firetower West	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	14 Jul 2012
End of Hole (m):	512.4	**Drilling Completed:**	03 Aug 2012

Drill Hole Collar

		Comments
Surveyed By:	PDA Surveyors	Surveyed by GNSS differential GPS co-ordinate fixing
Survey Date:	01 Nov 2012	Reported 20 Nov 2012
Survey Datum:	Zone 55 GDA1994	Australian Height Datum (Tas) 1983
Survey Reference:	Trig Mark 232/171	Gog Hill (Class B Second Order)
Hole Collar Easting (m):	442685.9	
Hole Collar Northing (m):	5406990.4	
Hole Collar Height (m):	418.5	
Hole Collar Azimuth (GDA1994):	172.0	
Hole Collar Declination (deg):	70.0	

Drill Hole Surveys

		EDrill Australia		Comments
Surveyed By:				Ranger Discoverer electronic magnetic survey tool
Surveyed Data:	Depth (m)	Azimuth*	Decl.	*Raw magnetic azimuth +13.647 degrees
PQ to 23.9 metres	30.0	171.1	70.9	
	60.0	172.3	71.0	
	90.0	170.6	70.8	
HQ to 95.2 metres	120.0	171.8	70.1	
	150.0	171.7	69.3	*Magnetics affected; azimuth smoothed.
	180.0	171.9	68.5	
	210.0	171.5	67.6	
	240.0	171.7	67.1	*Magnetics affected; azimuth smoothed.
	270.0	171.8	66.0	
	300.0	168.9	65.4	
	330.0	173.2	64.6	
	360.0	173.3	64.3	*Instrument error; azimuth smoothed to spin trend.
	390.0	173.5	63.3	
	420.0	169.8	62.5	
	450.0	171.0	61.7	*Magnetics affected; azimuth smoothed.
	480.0	172.2	60.6	
NQ to 512.4 metres EOH	512.4	171.4	59.9	End of hole survey.

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Hole Completion		Comments
Groundwater Intersected:	Yes (pressurised)	
Groundwater Controlled:	Yes	2 NQ plus 1 HQ Van Ruth plugs installed, cemented off
Material Left In Hole:	Steel collar pipe	3 metres HWT cemented in at surface
		UPVC casing not installed in completed hole
Collar Condition:	Capped	Threaded steel cap spot welded onto collar pipe

Drill Hole Logging		Comments
Logged By:	D. A. Evans	Logged in hard copy graphical format
Base of Complete Oxidation (m):	0.9	
Base of Partial Oxidation (m):	38.35	
Summary:	Collar - 38.35 m	Oxidised felsic volcaniclastic or lava breccia
	38.35 - 211.1 m	Fresh rhyolitic to dacitic volcanics (lava breccia,
		polymictic volcaniclastics); rare andesitic lava
	211.1 - 285.5 m	Porphyritic dacitic to andesitic lava and lava breccia
	285.5 - 339.3 m	Altered magnetic lithic-rich dacitic lava breccia and
		volcaniclastics (?Lynchford Member similarities)
	339.3 - 401.55 m	Veined altered dacitic lava breccia and volcaniclastics
	401.55 - 512.4 m	Magnetite+hematite altered feldspar+quartz-phyric
		lithic-rich dacitic lava breccia; cpy.+py. veins

Drill Hole Assays		Comments
Sample Type:	Half core	Sawn half HQ and NQ core samples
Assayed By:	ALS	Burnie Research Laboratory (Wivenhoe, Tasmania)
		Master pulp samples stored at Deloraine core shed
Peak Gold Assays:	0.64 g/t gold	1.0 m apparent width from 60.0-61.0 m
	0.61 g/t gold +	0.5 m apparent width from 312.9-313.4 m
	3.72% copper	
Other Significant Assays:	0.45% copper	Average for 5.1 m apparent width from 417.9-423.0 m
	0.23% copper	Average for 3.4 m apparent width from 448.0-451.4 m

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth :	117.7 degrees (MGA94)		
Declination :	55.1 degrees		
Total Depth :	348.9m (confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	/07/2012 / /2012		

Massive; Pervasive; Disseminated; Narrow vein

Graphic structure: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
0	1	CO	DEPTH LIMIT UNCERTAIN					RUBBLE/CLAY : COMPLETELY OXIDISED, TOTALLY 0.9m WEATHERED, DARK BROWN + ROCK FRAGMENTS.												
1	2	PO						WEATHERED VOLCANICLASTIC BRECCIA/LAVA BRECCIA: PARTIALLY OXIDISED STRONGLY WEATHERED SOFT CLAYEY MID CREAM - GREY COARSE-GRAINED, LITHIC									MINOR Fe OXIDE + CLAY				
2	3	PO						2.5m RICH RHYOLITIC BRECCIA. CLAY AFTER WEATHERED RHYOLITIC LAVA OR									IN FRACTURES.				
3	4	to CO			3.7	CORE		INTRUSIVE, WITH CORE LOSS ZONES : PARTIALLY TO												
4	5	BROKEN	VERY SOFT, CLAYEY,		5.1	LOSS		COMPLETELY OXIDISED, VERY STRONGLY WEATHERED, SOFT TO VERY SOFT, FREQUENTLY BROKEN, MID												
5	6	PO						CREAM, LIGHT BROWN - CREAM, STRUCTURELESS KAOLINITIC CLAY TO PORPHYRITIC FINE-GRAINED									SPARSE BROWN Fe/Mn OXIDES IN				
6	7	REMNANT PORPHYRITIC						FELDSPAR + QUARTZ - PHYRIC RHYOLITE.									IRREGULAR VEINS AND ON				
7	8	TEXTURES.															FRACTURES.				
8	9	PO			8.9															
9	to 10	FR			9.35			TENDING COARSER-GRAINED WITH REMNANT												
10	11	PO to	COMMONLY					INTRACLASTS; POSSIBLY INTERMIXED WITH												
11	12	CO	STRUCTURE-LESS CLAY					RHYOLITIC LAVA BRECCIA OR VOLCANICLASTIC. VERY STRONGLY KAOLINITIC THROUGHOUT.												
12	13	V																		
								12.4m CONTACT NOT RECOVERED; DEPTH UNCERTAIN.												
13	14	CO						CORE LOSS / MINOR CLAY : NEAR TOTAL CORE LOSS												
14	15							RECORDED BY DRILLER. FEW FRAGMENTS OF COMPLETELY OXIDISED, VERY STRONGLY WEATHERED,												
15	16					CORE LOSS		SOFT, LIGHT CREAM, GREY - CREAM, KAOLINITIC									BLACK-BROWN				
16	17							CLAY, WITH SOME REMNANT PORPHYRITIC TEXTURES									EARTHY, OCHREOUS				
17	18							PRESERVED,									Fe/Mn OXIDES ON FRACTURES				
18	19	V															IN CLAY.				
								19.2m CONTACT NOT RECOVERED; APPROXIMATE DEPTH (CORE BLOCK)												
19	20	CO						CLAY AFTER WEATHERED RHYOLITIC LAVA OR									BROWN Fe/Mn				
20	21	RARE REMNANT FRAGMENTAL TEXTURES						INTRUSIVE : COMPLETELY TO PARTIALLY OXIDISED, VERY STRONGLY WEATHERED, VERY SOFT, CLAYEY TO LOCALLY FRAGMENTAL TEXTURED, BROWN, CREAM TO 21.7m GREY, COMMONLY VERY BROKEN.									OXIDES AS STAINING AND COATING FRACTURES				
21	22	PO						RHYOLITIC/DACITIC PUMICEOUS + LITHIC												
22	23							VOLCANICLASTIC BRECCIA : PARTIALLY OXIDISED, LOCALLY									MINOR BROWN				
23.7m	PQ							RELATIVELY FRESH, WEAKLY WEATHERED. REDUCED TO HQ FIT 23.7m									Fe OXIDES IN				
23	24	HQ						HARD, MODERATELY HARD, FRAGMENTAL TEXTURED,									FRACTURES AND				
24	25	PO						VERY WEAKLY FOLIATED, MID TO LIGHT CREAM,									AS STAINING				
25	26	MASSIVE, No PREFERRED						MOTTLED LIGHT GREEN, VERY COARSE-GRAINED, LITHIC-RICH, IN PLACES PUMICEOUS, VOLCANICLASTIC									NO VISIBLE SULPHIDES				
26	27	FABRIC						BRECCIA; ABUNDANT DEVITRIFIED GLASSY TO CRYSTAL RICH SERICITIZED MATRIX; LARGE SUB-												
27	28							ANGULAR VOLCANIC CLASTS UP TO 25mm IN LENGTH.												
		VEIN AT 45° TO CA +						28.1 - 28.45m VEIN/FRACTURE WITH BROWN-YELLOW Fe OXIDES.									BROWN				
28	29	SPARSE VUGHY QUARTZ VEINS/						BECOMING FINER SEMI-PERVASIVELY SERICITISED,									OCHREOUS Fe OXIDES				
29	30	VEINLETS.						LOCALLY LITHIC RICH, QUARTZ + FELDSPAR - PHYRIC, DEVITRIFIED COARSE-GRAINED VOLCANICLASTIC SANDSTONE.									REPLACING.				

Boco = 0.9m

Bopo =

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords

Azimuth : ~~117.7 degrees~~ (MGA94)
Declination : ~~56.1~~ degrees
Total Depth : ~~348.9m~~ (confirmed)
Collar surveyed by: (reported / /2012)

Logged by DAE
Drilled by EDrill
Drill type UDR200
Drill Date 14/07/2012 / /2012

Massive
Pervasive
Disseminated
Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Abite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 21.7m												
30	31	PO						RHYOLITIC/DACITIC PUMICEOUS + LITHIC VOLCANICLASTIC BRECCIA: PARTIALLY OXIDISED TO RELATIVELY		/										
31	32	1CM QTZ VEIN →			53°			FRESH, HARD, FRACTURED, FRAGMENTAL TEXTURED, MID CREAM/GREY-CREAM, COARSE SANDY TO		/							1CM THICK VUGHY QTZ VEIN & Fe OXIDE STAINING				
32	33							VERY COARSE-GRAINED, DEVITRIFIED, MATRIX-SUPPORTED, LITHIC-RICH, VOLCANICLASTIC BRECCIA. LIGHT		/										
33	34	33.6-33.75m FAULT/SHEAR BROKEN ZONE.						CREAM, SERICITISED, ASHY GROUNDMASS WITH		/				/						
34	35							ABUNDANT RHYOLITE CLASTS, SUB-ROUNDED TO		/			/							
35	36	INCREASINGLY						SUB-ANGULAR, SOME WITH ALTERED RIMS, UP TO		/			/							
		COARSE FRAGMENTAL						20mm DIAMETER, RARELY LARGER UP TO 60-70mm.		/			/							
36	37	TEXTURES,						INCREASING STRETCHED, RAGGED CLASTS OF		/			/				36.35m TRACE PY. AGGREGATES			
		NO PREFERRED						SERICITE + CHLORITE ALTERED PORPHYRITIC RHYOLITE,		/			/				MINOR BROWN Fe OXIDES,			
37	38	ORIENTATION.						POSSIBLY FIAMME.		/			/							
OCO = 38.35m								FINE-GRAINED FRACTURED Fe OXIDE STAINED AT CONTACT ? HYALOCLASTITE OR POSSIBLY SHEAR		/			/							
38	39	FR						38.25m RHYOLITIC LAVA/LAVA BRECCIA: GENERALLY FRESH,		/			/							
39	40	COARSE FRAGMENTAL/						HARD TO VERY HARD, IN PLACES MICRO-FRACTURED,		/			/				SPARSE TO			
		BRECCIA						PORPHYRITIC TO FRAGMENTAL TEXTURED,		/			/				MINOR BROWN			
40	41	TEXTURES,						LIGHT TO MID GREY, GREEN-GREY, MOTTLED		/			/				Fe OXIDES IN			
41	42	PROBABLY						LIGHTEST GREEN, COARSE-GRAINED, FELDSPAR-		/			/				FRACTURES.			
		ALTERATION						PHYRIC RHYOLITE, WITH ALTERED, SERICITISED		/			/							
42	43	OF FELDSPARS						VOLCANIC INTRACLASTS COMMON. FINE-GRAINED		/			/							
		AND VOLCANO-						GREY GROUNDMASS WITH FREQUENTLY ALTERED		/			/							
43	44	CLASTS.						PHENOCRYSTS OF FELDSPAR + MINOR GREY QUARTZ.		/			/							
44	45	PO						FINER GRAINED, MORE INTENSELY SERICITISED,		/			/							
		FR						CREAMY RHYOLITE, WITH Fe OXIDES AS STAINING		/			/							
45	46							AND PARTIALLY REPLACING.		/			/							
46	47	FINE TO COARSE						MID GREY, FINE-GRAINED, PORPHYRITIC RHYOLITE		/			/							
		PORPHYRITIC TEXTURE;						LAVA TO COARSE-GRAINED, SERICITISED, LAVA BRECCIA.		/			/				TRACE PY,			
47	48	VERY COARSE						SCATTERED LARGE, UP TO 25mm LONG, LIGHT		/			/				BLEBS			
		FRAGMENTAL						GREEN PHENOCRYSTS OF SERICITISED FELDSPAR;		/			/							
48	49	TEXTURES IN						ABUNDANT 2-3mm PHENOCRYSTS IN MID GREY		/			/							
		PLACES						GROUNDMASS. MINOR WHITE-GREY QUARTZ AS		/			/							
49	50	(?ALTERATION						IRREGULAR PHENOCRYSTS. SILICEOUS GROUNDMASS.		/			/				TRACE CREAM			
		OVER PRINT)						MORE INTENSE SERICITE + ?EPIDOTE + Fe OXIDES		/			/				CARBONATE			
50	51							AS ALTERATION FROM 50.4m		/			/				VEINLETS			
								50.7m DIFFUSE IRREGULAR (ALTERATION) CONTACT.		/			/							
PO		VUGHY Fe						FAULT/VEIN/ALTERED VOLCANICLASTIC BRECCIA:		/			/							
51	52	OXIDE VEINS →			35°			YELLOW-BROWN LIMONITE AS THIN VEINS AND STAINING.		/			/				PARTIALLY OXIDISED THROUGHOUT			
								52-2m 0.2m CORE LOSS. BROKEN AT CONTACT.		/			/							
52	53	PO						RHYOLITIC/DACITIC PUMICEOUS, LITHIC + CRYSTAL-		/			/							
		INITIALLY						RICH VOLCANICLASTIC BRECCIA: PARTIALLY		/			/							
53	54	BROKEN						OXIDISED TO FRESH, INITIALLY MODERATELY SOFT,		/			/							
		FR						BECOMING VERY HARD, BROKEN, VERY COARSE		/			/							
54	55							FRAGMENTAL TEXTURED, MID GREEN-GREY,		/			/							
								CREAM-GREY, VERY COARSE-GRAINED, POLYMICTIC,		/			/				SPARSE			
55	56	↓						MATRIX-SUPPORTED VOLCANICLASTIC BRECCIA.		/			/				CREAM			
		FR						SUB-ROUNDED 15-20mm DIAMETER RHYOLITE		/			/				FELDSPAR +			
56	57	PO						CLASTS. RAGGED SUB-ANGULAR CLASTS OF		/			/				CARBONATE			
								DARK GREEN DEVITRIFIED GLASS AND PUMICE.		/			/				VEINLETS.			
57	58	PO FAULT/			22°			57.55-58.1m PARTIALLY OXIDISED, VEINED TO		/			/				RARE TRACE			
		BRECCIA VEIN						BRECCIATED, POSSIBLE FAULT ZONE.		/			/				PYRITE AS			
58	59	FR						SEMI-PERVASIVE LIGHT GREEN SERICITE ALTERATION OF		/			/				BLEBS.			
								59.5m GROUNDMASS. DIFFUSE IRREGULAR CONTACT.		/			/							
59	60							RHYOLITIC/DACITIC LAVA BRECCIA: FRESH, VERY HARD		/			/				SPARSE			
								SILICEOUS, STRONGLY ALTERED,		/			/				CPY. IN VEINLETS			

BOPO = 38.35m

UNITY MINING LTD

Graphical Drill Hole Log

Hole No. FTD038 | Collar Location
Project : EL 26-2004 | East : 442688.00
Prospect : Firetower West | North 5406993.00
Grid : MGA94 | RL : 423.00
Proj. MGA94 co-ords | Collar surveyed by: (reported / /2012)
0.062 1/4 1 4 16 64 mm

Azimuth : ~~117.7~~ degrees (MGA94)
Declination : ~~35.1~~ degrees
Total Depth : ~~949.9~~m (confirmed)

Logged by DAE
Drilled by EDrill
Drill type UDR200
Drill Date 14/07/2012 / /2012

Massive
Pervasive
Disseminated
Narrow vein

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 59.5m												
60	61	FR						RHYOLITIC/DACITIC LAVA BRECCIA: FRESH, VERY HARD, TOUGH, SILICEOUS, VEINED, PORPHYRITIC TO													
61	62	PORPHYRITIC TO COARSE BRECCIATED TEXTURES						INCREASINGLY COARSE FRAGMENTAL TEXTURED, DARK GREY, IN PLACES CREAM, MOTTLED BROWN,													
62	63							BUFF, COARSE TO VERY COARSE-GRAINED,									PERVASIVE SILICA + FELDSPAR + SERICITE ALTERATION.				
63	64							FELDSPAR + MINOR QUARTZ PHYRIC, LITHIC RICH,													
64	65							RHYOLITIC LAVA TO BRECCIA. STRONG PERVASIVE													
65	66	QUARTZ VEIN →			37°			QUARTZ + SERICITIC ALTERATION OF GROUNDMASS. PATCHY FELDSPAR + SERICITE ALTERATION, LOCALLY INTENSE + TEXTURE DESTRUCTIVE.									15mm QUARTZ + FELDSPAR VEIN				
66	67							PATCHY BROWN ?HEMATITE STAINED FELDSPAR +									66.8-66.85 SPARSE cpy IN QUARTZ VEIN.				
67	68							SILICA ALTERATION OF GROUNDMASS.													
68	69	THIN QUARTZ + FELDSPAR VEIN OVERPRINT.						INCREASINGLY COARSE-GRAINED, WITH SCATTERED									TRACE YELLOW Fe OXIDES COATING FRACTURES.				
69	70							SUB-ANGULAR, SERICITISED RHYOLITE LAVA													
70	71							CLASTS; JUVENILE CLASTS IN ? LAVA AUTOBRECCIA.													
71	72							MINOR 3-4mm GREY-WHITE QUARTZ AS EQUANT PHENOCRYSTS.													
72	73							FINE MICRO-FRACTURE OVERPRINT, SOME CREAM FELDSPAR MICROVEINS.													
73	74		SHEAR →		30°			73.2-73.4m DUCTILE SHEAR WITH PUGGY GREY CLAY									MINOR CHALCOPYRITE				
74	75	LOCALLY VERY COARSE BRECCIATED TEXTURES																			
75	76							RAGGED ELONGATE GREEN ? FIAMME, POSSIBLY													
76	77							DEVITRIFIED GLASSY INTRACLASTS OR PUMICE, IN													
77	78							STRONGLY ALTERED, FELDSPAR + SILICA + MINOR													
78	79							SERICITE GROUNDMASS.													
79	80							INCREASING LARGE ELONGATE GREEN DEVITRIFIED									SOME PATCHY TEXTURE DESTRUCTIVE FELDSPAR ALTERATION.				
80	81							GLASSY FRAGMENTS / INTRACLASTS.													
81	82	WEAK PREFERRED ALIGNMENT OF ALTERED GLASSY FRAGMENTS.			55°			SPARSE 1-5mm QUARTZ + ALBITE VEINLETS. CREAM SERICITE + FELDSPAR AS SPOTS AND													
82	83							THIN VEINLETS; ALTERATION SPOTTING.									DISTINCT CROSS CUTTING CONTACT				
								82-9m SHARP IRREGULAR ?INTRUSIVE CONTACT (55°)													
83	84	FR		83.05-83.3m CORELOSS				POLYMICTIC VOLCANICLASTIC BRECCIA:													
84	85							FRESH, HARD TO EXTREMELY HARD, TOUGH,													
85	86	VERY COARSE FRAGMENTAL TEXTURES THROUGHOUT						SILICEOUS, VERY COARSE FRAGMENTAL TEXTURED,									WEAKLY ALTERED; SERICITE SPOTTING AND REPLACING FELDSPAR CRYSTALS.				
86	87							MID GREEN, GREY-GREEN, LOCALLY MOTTLED													
87	88							BUFF, MATRIX-SUPPORTED, POLYMICTIC, VERY													
88	89	CONTACT →			30-35°			COARSE-GRAINED VOLCANICLASTIC; NUMEROUS LARGE, UP TO 60-70mm DIAMETER, RHYOLITIC VOLCANOCLASTS, IN SANDY TO CONGLOMERATIC MATRIX. LITHIC RICH, WITH SOME DARK GREEN TO CREAM ALTERED GLASSY FRAGMENTS.													
								89.4m SHARP IRREGULAR CONTACT													
89	90	FR						RHYOLITIC/DACITIC LAVA BRECCIA: FRESH,													
								EXTREMELY HARD, SILICEOUS.													

UNITY MINING LTD

Hole No. FTD038 | Project : EL 26-2004 | Prospect : Firetower West | Grid : MGA94

Collar Location: East : 442688.00 | North : 5406993.00 | RL : 423.00 | Proj. MGA94 co-ords

Graphical Drill Hole Log: Azimuth : 172.0 degrees (MGA94) | Declination : 70.0 degrees | Total Depth : 450.0m (planned) | Collar surveyed by: (reported / /2012)

Logged by DAE | Drilled by EDrill | Drill type UDR200 | Drill Date 14/07/2012 / /2012

Massive | Pervasive | Disseminated | Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								CONTINUED FROM 89.4m												
90	91	FR						RHYOLITIC/DACITIC LAVA BRECCIA: FRESH, HARD TO VERY HARD, VERY COARSE FRAGMENTAL TEXTURED, MID GREEN, CREAM - GREEN, BECOMING DARK GREY, VERY COARSE - GRAINED, RHYOLITE CLAST RICH, LAVA BRECCIA. THIN LENS OF VOLCANICLASTIC BRECCIA FROM 91.1 - 91.6M WITH IRREGULAR STRONGLY CROSS-CUTTING INTERNAL CONTACTS. ABUNDANT GREEN ALTERED GLASSY RHYOLITE CLASTS, WITH SERICITE REPLACING, UP TO 25MM IN DIAMETER. SILICA + SERICITE ALTERATION OF GROUNDMASS							NO SULPHIDE MINERALISATION VISIBLE.				
91	92	SPARSE CREAM FELDSPAR + CARBONATE VEINS.																		
92	93																			
93	94	VERY COARSE FRAGMENTAL TEXTURES.																		
94	95	95.2 HQ-DNQ																		
		95.7m			CORE LOSS															
95	96							95.7-95.9m THIN CHLORITIC SILTSTONE INTERBED BCA = 63°												
96	97							? THIN FLOW OR MINOR INTRUSIVE; STRONGLY ALTERED, PERVASIVELY SERICITISED, WEAKLY CHLORITISED, GRADATIONAL INTO VARIABLY ALTERED, MID CREAM, DARK GREY, COARSE TO VERY COARSE - GRAINED RHYOLITE CLAST RICH, LAVA BRECCIA. INCREASING MID TO DARK GREY SERICITE + SILICA GROUNDMASS, WITH GREY QUARTZ PHENOCRYSTS AND ABUNDANT LARGE, UP TO 30mm, RAGGED, SUB-ANGULAR, CREAM, SERICITE ALTERED RHYOLITE CLASTS.							SPARSE PY AGGREGATES.				
97	98																			
98	99	BECOMING VERY COARSE FRAGMENTAL TEXTURED.																		
99	100																			
100	101																	TRACE PY, AS BLEBS, SMALL AGGREGATES IN SERICITE ALTERED CLASTS.			
101	102																			
102	103							FEW VERY LARGE, NEAR COMPLETELY SERICITISED VOLCANOCLASTS; TENDING TO POLYMICTIC BRECCIA. 103.9m DIFFUSE IRREGULAR CONTACT.												
103	104	POSSIBLE FAULT/ SHEAR CONTACT																		
104	105	? PYROXENE PHENOCRYSTS.						ANDESITE LAVA OR INTRUSIVE: FRESH, HARD, FRACTURED, LOCALLY VUGHY, MID GREEN, MOTTLED CREAM, FINE - GRAINED. 105.15m ANDESITE/BASALT. IRREGULAR CONTACT.											TRACE CPY, BLEBS + PY.			
105	106	MASSIVE TO FRAGMENTAL TEXTURED						HYALOCLASTITE GRADATIONAL INTO RHYOLITIC/DACITIC LAVA AND LAVA BRECCIA: FRESH, HARD, BECOMING VERY HARD, INCREASINGLY VEINED, LIGHT TO MID GREEN - CREAM, GREY-GREEN, MATRIX-RICH FINE TO COARSE - GRAINED, PUMICEOUS, RHYOLITIC HYALOCLASTITE. GRADATIONAL FROM 107.6m INTO GREEN - GREY, DARK GREY, MEDIUM TO COARSE - GRAINED, RHYOLITIC LAVA OR POSSIBLY A CRYSTAL + LITHIC RICH VOLCANICLASTIC. SOME CREAM FELDSPAR VEINS WITH BRECCIA INFILL.										
106	107																			
107	108																			
108	109																	MINOR TO COMMON CREAM FELDSPAR + ?CARBONATE VEINLETS; SPARSE PY AS BLEBS IN VEINS			
109	110																			
110	111	STRONG VEIN OVERPRINT.																		
111	112							SMALL 3 - 5mm GREEN, ALTERED GLASSY FRAGMENTS/CLASTS IN A GREY, SERICITISED, FINE - GRAINED GROUNDMASS, WITH SCATTERED GREY QUARTZ PHENOCRYSTS.												
112	113	BECOMING VUGHY.																		
113	114																			
114	115							115.3m												
115	116	BROKEN CORE						FAULT/BRECCIA VEIN: CREAM FELDSPAR + CARBONATE MATRIX. BRITTLE FAULT ZONE. 115.4m										SPARSE CPY + TRACE PY			
116	117	SHEARED, BROKEN CORE						RHYOLITIC CRYSTAL-RICH VOLCANICLASTIC SANDSTONE: HARD TO VERY HARD, INITIALLY BROKEN, WEAKLY FOLIATED, LIGHT TO MID CREAM, GREY-CREAM, COARSE - GRAINED IN PLACES PUMICEOUS, CRYSTAL RICH VOLCANICLASTIC. WEAKLY SERICITE ALTERED. MINOR PATCHY FELDSPAR ALTERATION. QUARTZ + FELDSPAR CRYSTAL GRAINS.								NO SULPHIDE MINERALISATION VISIBLE.				
117	118	WEAK PREFERRED ORIENTATION OF GREEN GLASSY CLASTS.																		
118	119																			
119	120																			

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location		Logged by	DAE
Project :	EL 26-2004	East :	442688.00	Drilled by	EDrill
Prospect :	Firetower West	North :	5406993.00	Drill type	UDR200
Grid :	MGA94	RL :	423.00	Drill Date	14/07/2012 / /2012
		Proj.	MGA94 co-ords		
		Azimuth :	172.0 degrees (MGA94)		
		Declination :	70.0 degrees		
		Total Depth :	450.0m (planned)		
		Collar surveyed by:	(reported / /2012)		

Core 1/4 1 4 16 64 mm

Massive · Pervasive · Disseminated · Narrow vein

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veinlet	Disseminated	Pervasive
								CONTINUED FROM 115.9m												
120	121	FR WEAK FOLIATION DEFINED BY GREEN ALTERED PUMICE/ GLASSY FRAGMENTS.						RHYOLITIC CRYSTAL-RICH VOLCANICLASTIC SANDSTONE: FRESH, HARD TO VERY HARD, MASSIVE, LOCALLY WEAKLY FOLIATED, SANDY TO CONGLOMERATIC, LIGHT TO MID CREAM-GREY, GREEN-GREY, COARSE TO VERY COARSE-GRAINED, PUMICEOUS, CRYSTAL-RICH TO LITHIC-RICH VOLCANICLASTIC. WEAKLY SERICITISED GROUNDMASS. PATCHY FELDSPAR ALTERATION, WEAK TO MODERATE STRENGTH. SCATTERED DARK GREEN CLASTS, RAGGED, ELONGATE, SUB-ANGULAR, OF ALTERED GLASS OR PUMICE, WITH 1-2mm PHENOCRYSTS.		/						NO SULPHIDE MINERALISATION VISIBLE.				
121	122									/										
122	123									/										
123	124									/										
124	125	WEAK FOLIATION								/										
125	126									/										
126	127									/										
127	128									/	//		/	/						
128	129	MASSIVE CONGLOMERATIC						PATCHY WEAK TO MODERATE FELDSPAR ALTERATION, LOCALLY SEMI-PERVASIVE REPLACEMENT OF GROUNDMASS.			///		/			TRACE CREAM FELDSPAR VEINLETS.				
129	130									/	//		/							
130	131							COMMON ELONGATE, RAGGED, GREEN, ALTERED GLASSY OR PUMICEOUS FRAGMENTS, UP TO 30-40mm		/			/						
131	132	131.9m WEAK FOLIATION →			48°			IN LENGTH, FROM 130.0m. VERY WEAK, IRREGULAR, CURVI-PLANAR FOLIATION DEFINED BY THESE FRAGMENTS IN PLACES. BECOMING VERY COARSE-GRAINED, CONGLOMERATIC, VOLCANOMICTIC.		/			/						
132	133									//										
133	134									/	/		/							
134	135							PATCHY WEAK TO MODERATE FELDSPAR ALTERATION.		/	/		/							
135	136							COMMON SERICITE ALTERED FELDSPAR CRYSTAL GRAINS IN FINER GRAINED SANDY GROUNDMASS		/	//									
136	137							VERY LARGE 50-60mm ALTERED GLASSY OR PUMICEOUS CLASTS)? FIAMME.		/	//		/							
137	138							THIN ALTERED RHYOLITE FLOW OR MINOR INTRUSIVE.		/	/									
138	139							↓ 138.9-139.2m		/			/							
139	140							DOMINANTLY CONGLOMERATIC, WITH LARGE		/			//				NO SULPHIDE MINERALISATION VISIBLE.				
140	141	MASSIVE, VERY COARSE CONGLOMERATIC TEXTURES.						20-30mm SUB-ROUNDED CLASTS OF QUARTZ-PHYRIC RHYOLITE, CLOSE PACKED, IN A FELDSPAR CRYSTAL RICH VOLCANICLASTIC SANDSTONE MATRIX.		/			//							
141	142									/	/		/							
142	143							143.1m DIFFUSE, GRADATIONAL CONTACT		/			/							
143	144							ALTERED RHYOLITIC LAVA/LAVA BRECCIA: FRESH,		/							NO SULPHIDE MINERALISATION VISIBLE.				
144	145							VERY HARD, STRONGLY SILICEOUS, COARSE FRAGMENTAL TEXTURED, MID CREAM-GREEN,		/	/			/						
145	146	VERY COARSE ANGULAR FRAGMENTAL TEXTURES.						BECOMING VERY DARK PURPLE-GREY, MOTTLED BROWN, COARSE TO VERY COARSE-GRAINED,		/			/							
146	147							RHYOLITE CLAST-RICH, LAVA BRECCIA. INCREASING		/										
147	148							LARGE 20-40mm RAGGED SUB-ANGULAR CLASTS OF BROWN-BUFF QUARTZ+FELDSPAR PHYRIC RHYOLITE		/			/						
148	149							SCATTERED IN A PORPHYRITIC RHYOLITE LAVA GROUNDMASS. APPEAR TO BE JUVENILE LAVA CLASTS.		/									
149	150							WEAK HEMATITE STAINING/ALTERATION OF FELDSPARS AND GROUNDMASS		/			/							

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Hole No.	FTD038	Collar Location	Graphical Drill Hole Log	Logged by	DAE	Massive	
Project :	EL 26-2004	East : 442688.00	Azimuth : 172.0 degrees (MGA94)	Drilled by	EDrill	Pervasive	
Prospect :	Firetower West	North : 5406993.00	Declination : 70.0 degrees	Drill type	UDR200	Disseminated	
Grid :	MGA94	RL : 423.00	Total Depth : 450.0m (planned)	Drill Date	14/07/2012	Narrow vein	
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		/ /2012		

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								CONTINUED FROM 143.1m												
150	151	VERY COARSE ANGULAR						ALTERED RHYOLITIC LAVA BRECCIA : VERY HARD, TOUGH,								TRACE PY. AS MINUTE SPECKS.				
151	152	FRAGMENTAL TEXTURES						SILICEOUS, DARK BROWN, GREY-BROWN, MOTTLED LIGHT BROWN, VERY COARSE-GRAINED, VOLCANOMICTIC. BROKEN AT CONTACT (GRADATIONAL LITHOLOGY CHANGE)												
152	153							152.0m RHYOLITIC CRYSTAL-RICH VOLCANICLASTIC BRECCIA AND SANDSTONE : VERY HARD, TOUGH,												
153	154							SILICEOUS, INITIALLY VERY COARSE FRAGMENTAL TEXTURED, MID CREAM, GREY-CREAM, VERY												
154	155							COARSE-GRAINED, IN PLACES PUMICEOUS, FELDSPAR CRYSTAL-RICH VOLCANICLASTIC. SCATTERED												
155	156							LARGE (UP TO 50mm LONG) STRETCHED, SUB-ANGULAR CLASTS OF DARK GREEN, SERICITISED GLASSY												
156	157	CRYSTAL-RICH SANDY LENS						LAVA OR POSSIBLY PUMICE. ABUNDANT LARGE SUB-ROUNDED RHYOLITE CLASTS IN FELDSPAR CRYSTAL												
157	158							RICH GROUNDMASS. WEAKLY SERICITISED THROUGHOUT.												
158	159							SPARSE SUB-ROUNDED GREY-WHITE QUARTZ												
159	160	INCREASING LATE STAGE						GRANULES.												
160	161	FELDSPAR VEINS						161.4m VEINED AT CONTACT.												
161	162							161.55m FAULT/BRECCIA VEIN												
162	163							RHYOLITIC LAVA OR INTRUSIVE : EXTREMELY HARD,												
163	164	163.8 ? FLOW BANDING →			52°			TOUGH, STRONGLY SILICEOUS, VEINED, PORPHYRITIC, LIGHT CREAM, MID BROWN-BUFF, FINE-GRAINED,												
164	165	CONTACT →			50°			QUARTZ + FELDSPAR PHYRIC RHYOLITE. 164.75m SHARP VEIN CONTACT.												
165	166	WEAK QUARTZ +						165.0m FAULT/BRECCIA VEIN												
		FELDSPAR VEIN						RHYOLITIC CRYSTAL-RICH VOLCANICLASTIC BRECCIA												
166	167	OVERPRINT.						AND SANDSTONE : HARD TO VERY HARD, VARIABLY												
167	168							SILICEOUS, FRAGMENTAL TEXTURED TO MASSIVE, MID CREAM, GREY-CREAM, COARSE TO VERY								RARE TRACE				
168	169							COARSE-GRAINED, LOCALLY PUMICEOUS, FELDSPAR CRYSTAL-RICH VOLCANICLASTIC. OCCASIONAL								PYRITE AS FINE DUSTINGS				
169	170	4cm VEIN @ 170.6m			47°			SCATTERED RAGGED GREEN CLASTS OF GLASSY								IN VEINS AND				
170	171	ALTERED SERICITE BRECCIA VEIN						RHYOLITE OR POSSIBLY PUMICE. MASSIVE TO GRANULAR SANDY TEXTURES TO COARSE FRAGMENTAL								ON FRACTURES				
171	172							TEXTURES. WEAK SERICITE ALTERATION OF GROUNDMASS AND REPLACING FELDSPAR CRYSTAL												
172	173							GRAINS. PATCHY TEXTURE DESTRUCTIVE FELDSPAR ALTERATION OF GROUNDMASS.												
173	174																			
174	175	175.3 WEAK FOLIATION →			50°			WEAKLY FOLIATION DEFINED BY STRETCHED ELONGATE ALTERED GLASSY FRAGMENTS.												
175	176							176.05m DIFFUSE IRREGULAR CONTACT (ALTERATION)												
176	177							ALTERED RHYOLITIC LAVA BRECCIA : VERY HARD,								TRACE WHITE CARBONATE VEINLETS. RARE TRACE CHALCOPYRITE				
177	178							TOUGH, INCREASINGLY SILICEOUS, MICRO-FRACTURED, VEINED, VERY COARSE FRAGMENTAL TEXTURED, MID												
178	179							BROWN-BUFF, DARK GREY-PURPLE LITHIC AND CRYSTAL-RICH, VERY COARSE-GRAINED RHYOLITE BRECCIA. HEMATITE STAINED FELDSPAR ALTERATION 179.2m												
179	180	FAULT PLANE			50°		FAULT	179.7m BRITTLE FAULT/CATACLASITE : MINOR PUGGY CLAY								SPARSE PY.				

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords

Azimuth : 172.0 degrees (MGA94)
Declination : 70.0 degrees
Total Depth : 450.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by DAE
Drilled by EDrill
Drill type UDR200
Drill Date 14/07/2012 / /2012

Massive
Pervasive
Disseminated
Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 179.7m												
180	181	FR						ALTERED RHYOLITIC LAVA OR INTRUSIVE AND LAVA BRECCIA: FRESH, VERY HARD, TOUGH, SILICEOUS,												
181	182							INITIALLY BROKEN, MICRO-FRACTURED, LIGHT TO MID CREAM, BUFF, BECOMING DARK GREEN,												
182	183							FELDSPAR + QUARTZ-PHYRIC, RHYOLITE. PATCHES												
183	184							WITH SCATTERED LARGE CLASTS OF RHYOLITE												
184	185	184.35m VEIN WITH K-SPAR → SELVEDGES			45°			GRADATIONAL INTO A RHYOLITE LAVA BRECCIA. VARIABLY ALTERED WITH SERICITE REPLACING FELDSPAR PHENOCRYSTS.									184.35-184.45m COMPLEX FELDSPAR +SERICITE VEIN				
185	186							BECOMING WEAKLY K-FELDSPAR ALTERED; VAGUE									WITH NEEDLES OF SPECULAR HEMATITE			
186	187							TEXTURE DESTRUCTIVE PATCHES, SOME WITH PYRITE CORES.												
187	188																			
188	189	? BEDDING / FOLIATION			45°			THIN ALTERED ASHY/SHALEY BAND												
189	190							INTERMIXED DARK GREEN-GREY, VERY COARSE-GRAINED, RHYOLITE CLAST-RICH, LAVA BRECCIA WITH									TRACE PY AS SPECKS IN K-SPAR VEINS.				
190	191							FELDSPAR CRYSTAL-RICH AND QUARTZ-PHYRIC												
191	192							GROUNDMASS. THIN VEINS AND VEINLETS OF BUFF K-FELDSPAR												
192	193							SCATTERED RAGGED CLASTS OF DARKEST GREEN												
193	194	IRREGULAR SHALEY LENSES ?HYALOCLASTITE.						SERICITE + CHLORITE ALTERED DEVITRIFIED GLASS, WITH ALTERED FELDSPAR PHENOCRYSTS. 194.4m IRREGULAR, DIFFUSE CONTACT.												
194	195	STRONGLY MAGNETIC CORE						BASALT LAVA OR INTRUSIVE: HARD, BROKEN, MASSIVE, DARK GREEN, FINE-GRAINED, APHYRIC BASALT. COMMON MAGNETITE INTERSTITIAL. SHARP IRREGULAR CONTACT.									TRACE PY. AS BLEBS.			
195	196																			
196	197	STRONGLY MAGNETIC CORE. CREAM CARBONATE VEIN OVERPRINT.						195.75m ALTERED MAGNETITE RICH VOLCANICLASTIC SANDSTONE (?): HARD, VEINED, INITIALLY PORPHYRITIC, BROWN-GREY, GREEN, MOTTLED BROWN, FINE-GRAINED SANDY, CHLORITISED VOLCANICLASTIC OR POSSIBLY LAVA									COMMON 10-15% MAGNETITE.			
197	198							198.0m VEINED, BROKEN CONTACT.												
198	199							RHYOLITIC LAVA OR INTRUSIVE: EXTREMELY HARD, TOUGH, SILICEOUS; PORPHYRITIC, MEDIUM-GRAINED,									TRACE PY. AS MINUTE SPECKS			
199	200	VEIN CONTACT →			50°			MID-BROWN, FELDSPAR + QUARTZ PHYRIC RHYOLITE. 200.0m 5cm BRITTLE FAULT/VEIN AT CONTACT												
200	201	VERY STRONGLY MAGNETIC. CARBONATE VEIN/ VEINLET OVERPRINT.						ALTERED MAGNETITE RICH VOLCANICLASTIC AND MAFIC LAVA OR INTRUSIVE: HARD, VEINED, LOCALLY									COMMON 15-20% MAGNETITE INTERSTITIAL. TRACE PY/cPY.			
201	202							PORPHYRITIC, BECOMING APHYRIC, BUFF BROWN TO DARK GREEN, VARIABLY K-FELDSPAR ALTERED, CHLORITISED. 202.35m SHARP CONTACT.												
202	203							RHYOLITIC TO DACITIC LAVA AND LAVA BRECCIA:									NO VISIBLE SULPHIDE MINERALISATION			
203	204	INITIALLY MASSIVE, PORPHYRITIC WITH VEIN OVERPRINT.						EXTREMELY HARD, TOUGH, SILICEOUS, MID BROWN, BUFF, PORPHYRITIC, FELDSPAR + MINOR QUARTZ PHYRIC, MEDIUM-												
204	205							GRAINED RHYOLITIC, GRADATIONAL INTO ALTERED, BUFF-BROWN, GREY-GREEN, VERY COARSE-GRAINED												
205	206							RARELY PUMICEOUS, RHYOLITE CLAST RICH, LAVA BRECCIA. VARIABLE PATCHY MODERATE K-FELDSPAR												
206	207	BECOMING VERY COARSE FRAGMENTAL TEXTURED						ALTERATION IN AND AROUND VEINS AND ALSO SEMI-PERVASIVE TEXTURE-DESTRUCTIVE. WEAK												
207	208							SERICITE ALTERATION REPLACING FELDSPAR												
208	209							PHENOCRYSTS. PORPHYRITIC RHYOLITE GROUNDMASS THROUGHOUT, GRADATIONAL INTO DACITE.												
209	210							RHYOLITE AND MINOR GREEN GLASSY FRAGMENTS UP TO 25-30mm IN LENGTH.												

UNITY MINING LTD

Hole No.	FTD038	Collar Location	Graphical Drill Hole Log	Logged by	DAE
Project :	EL 26-2004	East : 442688.00	Azimuth : 172.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower West	North : 5406993.00	Declination : 70.0 degrees	Drill type	UDR200
Grid :	MGA94	RL : 423.00	Total Depth : 450.0m (planned)	Drill Date	14/07/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		/ /2012

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Vein/no.	Dissemination	Pervasive
								CONTINUED FROM 202.35m												
210	211	PORPHYRITIC			58°			TENDING TO BLEACHED, STRONGLY SERICITE 210.85m SHARP CONTACT. ALTERED.												
211	212							211.1m PORPHYRITIC RHYOLITE GRADATIONAL INTO MAGNETITE BEARING DACITE: VERY HARD, SILICEOUS												
212	213	BECOMING MODERATELY MAGNETIC.						TOUGH, VEINED BECOMING PORPHYRITIC, MOTTLED CREAM, BUFF-BROWN, FINE TO MEDIUM-GRAINED,												
213	214							VARIABLY ALTERED, FELDSPAR AND QUARTZ-PHYRIC, RHYOLITE LAVA. GRADATIONAL FROM 212.6m INTO												
214	215							MASSIVE, DARK GREY, MEDIUM-GRAINED FELDSPAR-PHYRIC MAGNETITE BEARING PORPHYRITIC DACITE OR								SPARSE PY IN THIN CONCRETED VEIN.				
215	216							POSSIBLY ANDESITE. MODERATELY ALTERED, WITH												
216	217							SERICITE REPLACING FELDSPAR PHENOCRYSTS AND												
217	218							PERVASIVE SILICA + SERICITE + MAGNETITE MATRIX.												
218	219	218.3-218.5 TAPERED, OVERDRILLED CORE.						COMMON 20% MAGNETITE INTERSTITIAL. MINOR												
219	220							VEIN FORM BUFF K-FELDSPAR ALTERATION (WEAK, SPORADIC).												
220	221																			
221	222	PORPHYRITIC TEXTURED			VN 65°			INCREASING RHYOLITE LAVA INTRACLASTS, GRADATIONAL INTO LAVA BRECCIA. PERVASIVE HEMATITE STAINED FELDSPAR ALTERATION								TRACE CPY IN STRINGERS.				
222	223	222.45-222.6m CARBONATE VEIN						CARBONATE + HEMATITE VEIN								SPARSE HEMATITE				
223	224							GRADATIONAL INTO DACITIC/ANDESITIC LAVA								TRACE CPY. AS SCATTERED BLEBS.				
224	225							BRECCIA.												
225	226	COARSE						WEAK TO MODERATE VEIN FORM BROWN FELDSPAR												
226	227	FRAGMENTAL TEXTURES IN PLACES.						ALTERATION, STRONGLY SILICA ALTERATION OF GROUNDMASS.								RARE TRACE PY. AS BLEBS				
227	228							SPARSE CREAM FELDSPAR+QUARTZ VEINLETS.												
228	229																			
229	230																			
230	231	WEAKLY																		
231	232	MAGNETIC LOCALLY																		
232	233							LIGHT GREY QUARTZ PHENOCRYSTS UP TO 4-5mm. ABUNDANT SMALLER FELDSPAR PHENOCRYSTS												
233	234							GENERALLY EQUANT EUHEDRAL. PERVASIVE BROWN HEMATITE STAINED FELDSPAR												
234	235							ALTERATION, VERY STRONG IN PATCHES.												
235	236																			
236	237	237.1m CORE						GRADATIONAL FROM 236.0m INTO LITHIC RICH, QUARTZ + FELDSPAR PHYRIC, VERY								TRACE PY, AS BLEBS.				
237	238	BLOCK ERROR CORRECTED						COARSE-GRAINED DACITIC LAVA BRECCIA.								ASSOCIATED WITH FELDSPAR				
238	239	(FROM 237.3m)						ALTERED, SERICITISED, LIGHT GREEN, CREAM, GLASSY VOLCANOCLASTS IN FINE-GRAINED, PORPHYRITIC DACITE GROUNDMASS. CLASTS								ALTERATION.				
239	240							RANGE UP TO 25mm IN DIAMETER.												

UNITY MINING LTD

Hole No. FTD038 | Project : EL 26-2004 | Prospect : Firetower West | Grid : MGA94

Collar Location — East : 442888.00 | North : 5406993.00 | RL : 423.00 | Proj. MGA94 co-ords | Collar surveyed by: (reported / /2012)

Graphical Drill Hole Log

Azimuth : 172.0 degrees (MGA94) | Declination : 70.0 degrees | Total Depth : 450.0m (planned)

Logged by DAE | Drilled by EDrill | Drill type UDR200 | Drill Date 14/07/2012 / /2012

Massive | Pervasive | Disseminated | Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								CONTINUED FROM 211.1m												
240	241							PORPHYRITIC DACITE TO LAVA BRECCIA : VERY HARD, TOUGH, SILICEOUS, BECOMING VEINED.												
241	242	241.45m PYRITE VEIN			42°			PORPHYRITIC TO COARSE FRAGMENTAL TEXTURED, VERY DARK GREY, MOTTLED BROWN, MODERATELY								241.45m PY. + MAGNETITE + HEMATITE VEINLET (5mm)				
242	243	MAGNETIC						MAGNETIC, COARSE TO VERY COARSE - GRAINED												
243	244							LITHIC RICH, FELDSPAR + QUARTZ PHYRIC, DACITIC LAVA TO LAVA BRECCIA. MINOR TO COMMON MAGNETITE												
244	245							INTERSTITIAL. VARIABLY ALTERED, WITH PATCHY								TRACE PYRITE				
245	246							STRONG BROWN FELDSPAR REPLACIVE, LOCALLY PERVASIVE. MINOR CREAM-WHITE CARBONATE								+ CPY, AS BLEBS.				
246	247	247.8m 3cm VEIN (MAG+HE +PY)			35°			VEINS. 3cm MAGNETITE + HEMATITE + PY ± CPY VEIN								MAG. + HEM + PY ± CPY, IN VEIN				
247	248							247.9m STRONGLY UNDULATING SHARP CONTACT.												
248	249	PORPHYRITIC, WITH VEIN LIKE						VARIABLY ALTERED, MAGNETITE BEARING ANDESITE LAVA OR INTRUSIVE : VERY HARD, VEINED TO MASSIVE,												
249	250	ALTERATION						APHYRIC, LOCALLY PORPHYRITIC, FINE-GRAINED,												
250	251	OVERPRINT. STRONGLY						MID TO DARK GREEN, MOTTLED BROWN, BUFF, ANDESITIC TO BASALTIC LAVA OR INTRUSIVE.												
251	252	MAGNETIC.						MODERATELY CHLORITISED GROUNDMASS, WITH SMALL EQUANT FELDSPAR PHENOCRYSTS, SOME												
252	253	252.15m VEIN →			28°			SERICITISED. PATCHY, LOCALLY STRONG, PERVASIVE, TEXTURE DESTRUCTIVE BROWN-BUFF FELDSPAR +								252.15m 50mm PY + CPY, ++ MAGNETITE				
253	254							HEMATITE ALTERATION. FELDSPAR ALSO AS SELVEDGES AROUND 1mm CREAM CARBONATE VEINLETS.								+ HEMATITE VEIN.				
254	255	SOME ALTERED FERRO-MAGNESIAN						STRONGLY MAGNETIC THROUGHOUT ; MINOR TO COMMON MAGNETITE INTERSTITIAL AND IN VEINLETS, FREQUENTLY												
255	256	?PYROXENE PHENOCRYSTS						WITH PY. +/- CPY.												
256	257																			
257	258	COARSER PORPHYRITIC						INCREASINGLY ALTERED, WITH INTENSE MICRO-FRACTURING AND MICRO-VEINING, COMPLEX								TRACE TO SPARSE PY. +				
258	259	TEXTURES						FELDSPAR + HEMATITE ALTERATION SELVEDGES AROUND MICRO-FRACTURES.								CPY. AS BLEBS IN				
259	260	THIN 6-7mm														FELDSPAR ALTERED				
PUGGY	261	CLAY FAULT →			30°			260.75m PUGGY CLAY FAULT CONTACT								ZONES.				
261	262	VERY COARSE FRAGMENTAL						QUARTZ PHYRIC LITHIC RICH DACITIC LAVA BRECCIA : VERY HARD, MASSIVE, VERY COARSE								PERVASIVE BROWN FELDSPAR				
262	263	TEXTURES. CONTACT →			53°			FRAGMENTAL TEXTURED, MID BROWN, BUFF, VERY COARSE-GRAINED, RHYOLITE AND GLASS CLAST RICH. 263.2m SHARP PLANAR CONTACT								ALTERATION OF GROUNDMASS				
263	264	? CHILLED MARGIN						FELDSPAR-PHYRIC ANDESITIC TO BASALTIC LAVA OR INTRUSIVE : HARD, MASSIVE, IN PLACES ?FLOW BANDED,								RARE TRACE				
264	265							MID GREEN, BECOMING CREAM, MOTTLED BUFF-BROWN, FINE-GRAINED, PORPHYRITIC TO APHYRIC. INCREASING								PY. AS BLEBS.				
265	266	?CHILLED MARGIN CONTACT →			26°			FELDSPAR ALTERATION. 265.65m SHARP UNDULATING CONTACT.												
266	267	LARGE ALTERED GLASSY CLASTS						LITHIC-RICH FELDSPAR + QUARTZ-PHYRIC DACITIC LAVA BRECCIA : EXTREMELY HARD TOUGH,								RARE TRACE				
267	268	UP TO 40-50mm DIAMETER						SILICEOUS, MASSIVE, COARSE FRAGMENTAL TEXTURED, MID BROWN, DARK PURPLE-GREY, RHYOLITE AND								PY. AS SPECKS + BLEBS.				
268	269	LOW ANGLE QTZ +						ALTERED GLASSY FRAGMENT RICH BRECCIA. CRYSTAL RICH PORPHYRITIC GROUNDMASS, BECOMING												
FELDSPAR	270	VEINS →			70°			INCREASINGLY ALTERED WITH SILICA + FELDSPAR + ?HEMATITE REPLACING.												

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Hole No.	FTD038	Collar Location		Graphical Drill Hole Log	Logged by	DAE	Massive
Project :	EL 26-2004	East :	442688.00	Azimuth : 172.0 degrees (MGA94)	Drilled by	EDrill	Pervasive
Prospect :	Firetower West	North :	5406993.00	Declination : 70.0 degrees	Drill type	UDR200	Disseminated
Grid :	MGA94	RL :	423.00	Total Depth : 512.4m (to be confirmed)	Drill Date	14/07/2012	Narrow vein
		Proj.	MGA94 co-ords	Collar surveyed by: (reported / /2012)		03/08/2012	

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 265.65m.												
270	271							LITHIC-RICH FELDSPAR+QUARTZ-PHYRIC DACITIC LAVA BRECCIA: EXTREMELY HARD, TOUGH, STRONGLY								TRACE PY.				
271	272							SILICEOUS, VERY COARSE FRAGMENTAL TEXTURED, DARK BROWN, GREY-BROWN, RHYOLITE CLAST								AS BLEBS IN FELDSPAR				
272	273	272.5m ↑ 0.6m DROPPED CORE RECORDED IN RUN. ↓ 275.5m						RICH COARSE-GRAINED RHYOLITIC TO DACITIC LAVA BRECCIA.								ALTERATION PATCHES.				
273	274							*CORE BROKEN, ?DROPPED AND RE-DRILLED FROM 273.5m.												
274	275							3-5mm SUBHEDRAL GREY QUARTZ PHENOCRYSTS.												
275	276							FINE-GRAINED FELDSPAR+QUARTZ PHYRIC RHYOLITE GROUNDMASS SUPPORTING LARGE (UP TO 50mm)												
276	277							ALTERED RHYOLITE LAVA CLASTS.												
277	278	VEIN CONTACT			45°			INTERMIXED RHYOLITIC/DACITIC PORPHYRITIC LAVA OR INTRUSIVE. 278.3m VEINED CONTACT.												
278	279	BROKEN CORE IN PLACES ~				V V V		ALTERED ANDESITIC/BASALTIC LAVA ?: HARD, FREQUENTLY												
279	280	MISLATCH PROBLEMS.				V V V		BROKEN, MICRO-FRACTURED, VEINED, WEAKLY MAGNETIC, FINE-GRAINED, MID GREEN, DARK												
280	281					V V V		GREEN, GREY, APHYRIC TO LOCALLY PORPHYRITIC,								SPARSE TO MINOR PY. IN FELDSPAR VEINS.				
281	282	281.5 TECTONIC BRECCIA				V V V		ANDESITE OR BASALT, WEAKLY CHLORITISED AND SERICITISED THROUGHOUT. PATCHY FELDSPAR												
282	283	282.5 CORE BLOCKS				V V V		ALTERATION IN TECTONIC BRECCIA ZONE AND GRADUALLY INCREASING IN VEIN FORM.												
283	284	UNRELIABLE !				V V V		HEMATITE STAINED K-FELDSPAR ALTERATION AS								SPARSE PYRITE IN CARBONATE				
284	285	284.5m ERROR IN CORE BLOCK (?1.5m)				V V V		SELVEDGES AROUND CREAM CARBONATE VEINLETS BECOMING PORPHYRITIC, WITH ALTERED FELDSPAR PHENOCRYSTS.								VEINLETS.				
								285.5m ?DIFFUSE HYALOCLASTITE CONTACT.												
285	286							ALTERED LITHIC-RICH FELDSPAR+QUARTZ-PHYRIC												
286	287	COARSE TO VERY COARSE FRAGMENTAL TEXTURES.						DACITIC LAVA BRECCIA: EXTREMELY HARD, TOUGH,								286.85m PY+TRACE CPY ADJACENT TO FRACTURE.				
287	288							SILICEOUS, LOCALLY VEINED, VERY COARSE-GRAINED,												
288	289							LIGHT TO MID GREEN, CREAM, BECOMING DARK PURPLE-GREY, RHYOLITE AND GLASSY LAVA CLAST												
289	290							RICH, FELDSPAR CRYSTAL AND QUARTZ PHYRIC LAVA												
290	291	LOCALLY STRONG VEIN OVERPRINT.						BRECCIA. STRONG SILICA + VARIABLE SERICITE ALTERATION, INCREASING PATCHY HEMATITE STAINED												
291	292							FELDSPAR ALTERATION, TEXTURE DESTRUCTIVE IN PLACES.												
292	293	293.0m ↑ 0.5m CORE LOSS IN RUN ↓ ?MISLATCH 295.0m																		
293	294							293.3m 8-9cm QUARTZ+FELDSPAR BRECCIA VEIN.												
294	295							CORE BROKEN IN PATCHES — POSSIBLY DUE TO MISLATCH PROBLEMS.												
295	296							4-5mm GREY QUARTZ "EYES", IN CRYSTAL												
296	297							AND LITHIC RICH BRECCIA.												
297	298	VEINING			52°			LOW ANGLE 2mm TO 15mm THICK QUARTZ+								TRACE PY.+				
298	299							FELDSPAR+TRACE CPY. VEINS.								CPY. GENERALLY IN QTZ+FELDSPAR				
299	300							BECOMING INCREASINGLY SILICEOUS, WITH THIN CREAM FELDSPAR + QUARTZ VEINS.								VEINS.				

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth :	172.0 degrees (MGA94)		
Declination :	70.0 degrees		
Total Depth :	512.4m (to be confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	14/07/2012 – 03/08/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 285.5m												
300	301							ALTERED LITHIC-RICH FELDSPAR + QUARTZ-PHYRIC DACITIC LAVA BRECCIA: EXTREMELY HARD, HIGHLY								TRACE - SPARSE PY. ± CPY. BLEBS.				
301	302	302.1m 4cm FELDSPAR MX. BRECCIA VEIN →			55°			SILICEOUS, VEINED, COARSE FRAGMENTAL TEXTURED TO PORPHYRITIC, MID GREEN, GREY-GREEN,												
302	303							COARSE-GRAINED, ALTERED RHYOLITE CLAST												
303	304							RICH QUARTZ EYE AND FELDSPAR PHYRIC LAVA BRECCIA + MINOR FINE-GRAINED PORPHYRITIC								303.45m PY + TRACE CPY IN CHLORITE STRINGER				
304	305							LAVA. STRONG PERVASIVE SILICA + HEMATITE STAINED FELDSPAR ALTERATION. PATCHY TEXTURE												
305	306							DESTRUCTIVE K-FELDSPAR ALTERATION, INCREASING WHITE, CREAM FELDSPAR + CARBONATE AS VEINS												
306	307	QUARTZ EYE PORPHYRITIC						AND VEINLETS. SCATTERED LARGE GREEN ALTERED GLASSY												
307	308	AND COARSE FRAGMENTAL						LAVA FRAGMENTS, UP TO 50mm DIAMETER. ABUNDANT LIGHT CREAM, GREEN, SUBHEDRAL												
308	309	TEXTURES; STRONG VEIN OVERPRINT						ALTERED FELDSPAR PHENOCRYSTS IN PORPHYRITIC DACITE GROUNDMASS.								309.4 – 310.05 PYRITE IN CREAM FELDSPAR + CARBONATE VEIN NEAR PARALLEL				
309	310																			
310	311	WEAKLY MAGNETIC						BECOMING BROKEN, STRONGLY MICRO-FRACTURED, VEINED, WITH GREY-BLACK SILICA + SERICITE +								TO CORE AXIS				
311	312							MAGNETITE ALTERATION OF GROUNDMASS. ?LYNCHFORD TUFF SIMILARITY **												
312	313	CPY VEIN IN BROKEN ZONE			10°	VEIN		312.9 – 313.2m CHALCOPYRITE + PYRITE VEIN								SEMI-MASSIVE CPY + PY.				
								313.4m BROKEN OVERDRILLED CORE.												
313	314					LOSS		CORE LOSS: LOSS RECORDED BY DRILLER, POSSIBLY DUE TO MISLATCH.												
		314.5m ↑ 0.7m OF CORE LOST ?MISLATCH ↓ 317.5m ↑ 1.0m OF CORE LOSS ?MISLATCH ↓ 320.5m						314.5m CORE BLOCK.												
314	315							ALTERED MAGNETITE-BEARING QUARTZ + FELDSPAR-PHYRIC LITHIC-RICH DACITIC SANDSTONE												
315	316							TO BRECCIA: VERY HARD, IN PLACES BROKEN,												
316	317							STRONGLY SILICEOUS, VEINED, COARSE FRAGMENTAL												
317	318	BIT MATRIX POLISH ON						TEXTURED, VERY DARK BLACK-GREY, MODERATELY								317.95 – 318.25m				
318	319							MAGNETIC, VERY COARSE-GRAINED, QUARTZ EYE AND SERICITISED FELDSPAR CRYSTAL RICH								COMPLEX CARBONATE VEINING AT				
319	320							SANDSTONE TO ?VOLCANICLASTIC BRECCIA.								43° TO CA. TRACE PY.				
		MASSIVE, NO PREFERRED ORIENTATION. 323.5m ROD COUNT						COMMON ALTERED SUB-ANGULAR RHYOLITE LAVA CLASTS, UP TO 25-30mm IN LENGTH,												
320	321							IN A SILICA + SERICITE + MAGNETITE ALTERED												
321	322							GROUNDMASS. ABUNDANT GREY QUARTZ EYE												
322	323							GRAINS OR CLASTS, GENERALLY SUB-ROUNDED.												
323	324							PATCHY, VARIABLE K-FELDSPAR AS VEIN FORM AND LOCALLY TEXTURE DESTRUCTIVE ALTERATION.								323.6 – 323.7m MINOR CPY. IN MAGNETITE + K-FELDSPAR VEIN.				
324	325	COARSE FRAGMENTAL						INCREASING INTERSTITIAL MAGNETITE AND HEMATITE-STAINED FELDSPAR ALTERATION OF												
325	326	TEXTURES. THIN						CLASTS AND IN VEIN FORM.												
326	327	CREAM CARBONATE VEIN OVERPRINT						WEAKLY TO MODERATELY MAGNETIC.												
327	328							?LYNCHFORD TUFF SIMILARITY **								TRACE TO				
328	329	BROKEN CORE FROM 329.5m														SPARSE CPY. AS BLEBS.				
329	330							CORE LOSS (0.4m) RECORDED IN 329.5 – 330.4m RUN; MISLATCH PROBLEM?												

* 320.04 – 320.11m HALF NQ CORE FILLET FOR PETROLOGY

UNITY MINING LTD

Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth :	172.0 degrees (MGA94)		
Declination :	70.0 degrees		
Total Depth :	512.4m (to be confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	14/07/2012		
	03/08/2012		

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

? LYNCHURD TUFF SIMILARITY

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 314.5m												
330	331							ALTERED MAGNETITE-BEARING QUARTZ + FELDSPAR-PHYRIC, LITHIC-RICH DACITIC SANDSTONE	/	/	/		/	/		TRACE PY +				
331.3	332		0.3m CORE LOSS					TO BRECCIA: VERY HARD, TOUGH, SILICEOUS, IN PLACES	/							CPY, AS				
331	332							VERY BROKEN TO TOTALLY FRAGMENTED, VEINED,	/		/			/		FINE SPECKS				
332	333	MODERATELY MAGNETIC						COARSE FRAGMENTAL TEXTURED, DARKEST GREY-	/	/	/			/		IN FELDSPAR				
333	334	CORE.						BLACK, QUARTZ EYE AND FELDSPAR CRYSTAL	/	/	/					VEINS.				
334	335	BROKEN TO FRAGMENTED						PHYRIC SANDSTONE TO BRECCIA. SCATTERED LARGE	/	/	0									
335	336	CORE IN PLACES.						SUB-ANGULAR CLASTS OF RHYOLITE, UP TO 15 mm IN DIAMETER. STRONG PERVASIVE SILICA + SERICITE	/	/	0			/						
336	337	COARSE						+ MAGNETITE ALTERATION OF GROUNDMASS, PATCHY	/	/	/			/						
337	338	FRAGMENTAL TEXTURES.						IRREGULAR HEMATITE STAINED K-FELDSPAR	/	/	0									
338	339							ALTERATION, LOCALLY AS ZONED ALTERATION OF RHYOLITE	/		/			/						
								CLASTS, CREAM FELDSPAR + ?CARBONATE VEINLETS.	/		0									
								EQUANT 4-5mm DIAMETER CLASTS OR PHENOCRYSTS	/	/	/			/						
								OF GREY QUARTZ. ABUNDANT THROUGHOUT.	/											
								339.3m CORE BLOCK/VERY BROKEN	/											
339	340							CORE LOSS/FRAGMENTED CORE (?CAVED):												
						LOSS		1.2m CORE LOSS RECORDED BY DRILLER IN												
340	341	341.5m ROD COUNT						339.3-341.5m RUN. TOTALLY FRAGMENTED, ?CAVED												
								341.5m CORE RECOVERED. CORE BLOCK/ROD COUNT												
341	342							VEINED, ALTERED MAGNETITE-BEARING FELDSPAR-		/	/	/				341.5-341.7m				
342	343	MODERATELY MAGNETIC						RICH, QUARTZ-PHYRIC, DACITIC SANDSTONE TO BRECCIA:		/	/	/				COMMON CPY,				
343	344	CORE.						VERY HARD, VERY BROKEN, IN PLACES FRAGMENTED,			/	/				AS VEIN INFILL				
344	345	COARSE FRAGMENTAL TEXTURES WITH						STRONGLY VEINED, COARSE FRAGMENTAL TEXTURED,			/	/				(BROKEN CORE)				
345	346	STRONG VEIN						DARKEST GREY, BLACK-GREY, MOTTLED GREEN,			/									
346	347	OVERPRINT.						FELDSPAR CRYSTAL RICH, QUARTZ EYE PHYRIC,			0	/								
347	348	FRAGMENTED						VERY COARSE-GRAINED DACITIC SANDSTONE TO BRECCIA,			0	/								
348	349	CORE IN PLACES.						~~STRONGLY ALTERED, WITH PERVASIVE SILICA + SERICITE +~~			/	/								
349	350							MAGNETITE REPLACING GROUNDMASS. PATCHY TEXTURE			/	/		/		HEMATITE				
								DESTRUCTIVE K FELDSPAR VEIN FORM ALTERATION.			/	/		/		DUSTING ON				
								COMMON WHITE CARBONATE VEINS AND VEINLETS,			/	/				FRACTURES.				
								SOME WITH MAGNETITE ± CPY AND PY. VEIN INTENSITY			/	/								
								INCREASES.			/	/								
								349.8m VERY BROKEN, CONTACT NOT RECOVERED				/								
VERY	BROKEN.				52°		FAULT	TECTONIC BRECCIA FAULT: BRITTLE FAULT, WITH CARBONATE INFILL.				/				MINOR PYRITE				
350	351	STRONG						350.3m VEINED, ALTERED DACITIC SANDSTONE TO BRECCIA:				/		/						
CARBONATE VEIN								HARD, VERY BROKEN, STRONGLY VEINED, MODERATELY				/				TRACE CPY.				
351	352	OVERPRINT						MAGNETIC, POSSIBLY FAULT WALLROCKS OR FAULT ZONE				/		/						
								352.6m MELANGE. IRREGULAR VEINED CONTACT.				/								
352	353							FAULT/CATACLASITE: INITIALLY VERY HARD, INTENSELY			/				/	SPARSE PY				
353	354	PUGGY CLAY SHEAR			28°		FAULT	VEINED BRITTLE FAULT; PUGGY CLAY FROM 353.9m.			/				/	AS FINE				
								354.1m BRECCIA VEIN CONTACT								SPECKS				
354	355	STRONG VEIN						VEINED, ALTERED, QUARTZ PHYRIC RHYOLITIC LAVA/			/	/				TRACE PY				
355	356	OVERPRINT						LAVA BRECCIA: EXTREMELY HARD, TOUGH, SILICEOUS,			/									
								LOCALLY FELDSPAR ALTERED AND VEINED.			/	Y								
								355.9m SHARP IRREGULAR CONTACT.												
356	357							FAULT/CATACLASITE: VERY HARD, BROKEN, LITHIC			X					SPARSE PY				
								FRAGMENT MUSAIC BRECCIA. BRITTLE FAULT ZONE.			X	/				IN FRACTURES.				
								357.6m IRREGULAR CONTACT/BROKEN				/								
357	358	INITIALLY						ALTERED, VEINED RHYOLITIC LAVA OR INTRUSIVE:			//									
		STRONG VEIN						EXTREMELY HARD, TOUGH, SILICEOUS, BROKEN,			/					TRACE PY.				
358	359	OVERPRINT.						VEINED, MID GREEN-GREY, BROWN-BUFF,			/					AS SPECKS IN				
359	360							VARIABLY ALTERED, QUARTZ + FELDSPAR-PHYRIC.			/					FRACTURES				

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Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth :	172.0 degrees (MGA94)		
Declination :	70.0 degrees		
Total Depth :	512.4m (to be confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	14/07/2012	03/08/2012	

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 357-6m												
360	361	PORPHYRITIC						ALTERED, VEINED RHYOLITIC LAVA OR INTRUSIVE : VERY HARD, FREQUENTLY BROKEN, VEINED, FRACTURED, MID GREEN-GREY, BUFF, BROWN-GREY, MEDIUM TO COARSE-GRAINED, QUARTZ EYE AND FELDSPAR-PHYRIC RHYOLITE, LOCALLY RHYOLITIC LAVA BRECCIA. PATCHY FELDSPAR ALTERATION, TEXTURE DESTRUCTIVE. ABUNDANT 3-5mm DIAMETER GREY QUARTZ EYES, EITHER PHENOCRYSTS OR POSSIBLY CLASTS. ABUNDANT ALTERED, SERICITISED FELDSPAR PHENOCRYSTS. MINOR TO COMMON WHITE AND CREAM QUARTZ + FELDSPAR VEINS AND VEINLETS. GRADATIONAL FROM 366.1m INTO COARSE-GRAINED LITHIC-RICH RHYOLITE LAVA BRECCIA.			0					HEMATITE				
361	362	TO LOCALLY FRAGMENTAL														VEINLETS, SOME WITH CPY.				
362	363	TEXTURES. STRONG VEIN OVERPRINT.														BLEBS.				
363	364																			
364	365																			
365	366																			
366	367	INCREASING																		
367	368	COARSE FRAGMENTAL TEXTURES.														SPARSE PY. VEINLETS + STRINGERS.				
368	369	VERY BROKEN																		
369	370	FROM 369.1M ? FAULT						370.2m VERY BROKEN SOME PUGGY CLAY ? FAULT												
370	371	BROKEN AT START.						FELDSPAR CRYSTAL-RICH, LITHIC-RICH RHYOLITIC/ DACITIC LAVA BRECCIA : VERY HARD, TOUGH, SILICEOUS, COARSE FRAGMENTAL TEXTURED, MID TO DARK BROWN, GREY-BROWN, MOTTLED GREEN-CREAM, RHYOLITE CLAST-RICH LAVA BRECCIA. ABUNDANT LIGHT GREEN, CREAM, SERICITISED FELDSPAR PHENOCRYSTS OR GRAINS IN GROUNDMASS.											
371	372																			
372	373	COARSE FRAGMENTAL TEXTURES.														372.4m THIN HEMATITE VEIN WITH CPY.				
373	374																			
374	375	MASSIVE, NO PREFERRED ORIENTATION / FOLIATION.						RHYOLITE AND DEVITRIFIED GLASSY VOLCANIC CLASTS UP TO 40-50mm IN LENGTH GENERALLY RAGGED, SUB-ANGULAR, WITH REACTION RIMS.													
375	376																			
376	377							INCREASING VERY COARSE FRAGMENTAL TEXTURES, WITH SERICITE ALTERED VOLCANOCLASTS AND GREY QUARTZ EYES IN A SILICA+SERICITE+ MAGNETITE ALTERED GROUNDMASS.								CREAM FELDSPAR+ QUARTZ VEINS.				
377	378	WEAKLY																		
378	379	MAGNETIC														↑				
379	380	378.25m → VEIN (4cm)			15°			PATCHY TEXTURE DESTRUCTIVE K FELDSPAR ALTERATION.								SPARSE CPY + PYRITE IN COMPLEX CARBONATE + HEMATITE VEIN				
380	381																			
381	382	382.3 -																		
382	383	382.65m QUARTZ +																		
383	384	FELDSPAR VEINING														383.75m PYRITE IN QUARTZ + FELDSPAR VEIN NEAR PARALLEL TO CORE AXIS				
384	385							IRREGULAR PATCHY TEXTURE DESTRUCTIVE K FELDSPAR ALTERATION.												
385	386																			
386	387							IRREGULAR PATCHES OF BUFF HEMATITE STAINED K FELDSPAR, GENERALLY MICRO-FRACTURED, WITH TRACE CPY. VEINLETS. COMMON GREY QUARTZ EYE PHENOCRYSTS OR CLASTS.												
387	388																			
388	389	WEAKLY MAGNETIC																		
389	390																			

UNITY MINING LTD

Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442656.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth:	172.0 degrees (MGA94)		
Declination :	70.0 degrees		
Total Depth :	512.4m (confirmed)		
Collar surveyed by:		(reported / /2012)	
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	14/07/2012	03/08/2012	

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 370.2m.												
390	391	BROKEN CORE IN PATCHES.						FELDSPAR CRYSTAL-RICH, LITHIC RICH RHYOLITIC/												
391	392							DACITIC LAVA BRECCIA : EXTREMELY HARD, TOUGH,								391.2m CPY+ PY, VEIN				
392	393							SILICEOUS, COARSE FRAGMENTAL TEXTURED, QUARTZ-EYE + FELDSPAR CRYSTAL PHYRIC, RHYOLITIC												
				393.15				VOLCANIC CLAST RICH BRECCIA. ALTERED, GREY-BLACK,												
393	394			393.6				SILICA+ SERICITE + MAGNETITE GROUNDMASS.												
								└ MASSIVE TO VEINED LIGHT GREEN, CREAM/ - GREY												
394	395	MODERATELY MAGNETIC						FINE TO MEDIUM-GRAINED, FELDSPAR CRYSTAL RICH, QUARTZ PHYRIC, RHYOLITE LAVA OR VOLCANICLASTIC.												
395	396							ABUNDANT LARGE RAGGED ANGULAR TO SUB-ANGULAR												
396	397							RHYOLITE LAVA CLASTS, UP TO 50-60mm IN LENGTH. WEAK HEMATITE ALTERATION + MAGNETITE												
397	398	BRECCIA VEIN/ BRITTLE FAULT			65°			INTERSTITIAL. PATCHY FELDSPAR ALTERATION. 397.5-397.7m CARBONATE MATRIX BRECCIA/FAULT. 398.25m SHARP PLANAR CONTACT.												
398	399	INITIALLY PORPHYRITIC WITH						ALTERED RHYOLITIC LAVA GRADATIONAL INTO FELDSPAR CRYSTAL RICH VOLCANICLASTIC : HARD TO VERY HARD,												
CH	399	ORITISED PHENOCRYSTS.						BECOMING SILICEOUS, PORPHYRITIC, INITIALLY MID GREEN,												
399	400							MOTTLED BUFF, FINE-GRAINED, CHLORITISED LAVA,												
400	401	INTERMIXED		400.5m				GRADING THROUGH FELDSPAR ALTERED RHYOLITE TO GREEN CRYSTAL-RICH MAFIC VOLCANICLASTIC SANDSTONE								TRACE CPY IN CREAM FELDSPAR VEINS				
SILTSTONE MATRIX.								401.55m "TUFF".												
401	402							ALTERED FELDSPAR CRYSTAL AND QUARTZ EYE												
		VERY COARSE						PHYRIC, LITHIC-RICH, DACITIC LAVA BRECCIA :												
402	403	FRAGMENTAL						EXTREMELY HARD, TOUGH, SILICEOUS, VERY COARSE												
		TEXTURES						FRAGMENTAL TEXTURED, LOCALLY VEINED, DARK GREY,												
403	404							BLACK-BROWN, MOTTLED GREEN, BUFF, VERY COARSE-												
		MODERATELY						GRAINED, RHYOLITE LAVA CLAST RICH, LAVA BRECCIA.												
404	405	MAGNETIC						ABUNDANT LARGE, UP TO 50-60mm, RAGGED,												
405	406							SUB-ANGULAR CLASTS OF RHYOLITE AND ALTERED,												
406	407							SERICITISED GLASSY LAVA. ALTERED, SILICA+ SERICITE												
								+ MAGNETITE + HEMATITE GROUNDMASS, WITH ABUNDANT												
407	408	408.0m			25°			FELDSPAR CRYSTAL LATHES AND QUARTZ EYES.												
		VEIN →						408.0-408.1m BROKEN CORE, WHITE FELDSPAR +												
408	409							CARBONATE VEIN.												
409	410																			
410	411							PATCHY EPIDOTE/FELDSPAR ALTERATION.								RARE TRACE PY+ CPY IN ALTERATION PATCHES.				
411	412	VERY COARSE																		
		FRAGMENTAL TEXTURES,																		
412	413	BECOMING						INCREASING PERVASIVE FELDSPAR + HEMATITE												
413	414	OVERPRINTED BY						ALTERATION OF GROUNDMASS AND PARTIAL												
		FELDSPAR TEXTURE						ALTERATION OF LITHIC CLASTS.												
414	415	DESTRUCTIVE																		
415	416	ALTERATION.						ABUNDANT GREY-WHITE QUARTZ EYE												
								CLASTS, SUB-ANGULAR, UP TO 5-6 mm IN												
416	417							DIAMETER.												
				418.0m																
417	418	INCREASING		VEIN →	38°			417.9m START OF 3-5 cm HEMATITE +												
		VEIN						PYRITE + MINOR CPY. VEINS.								COMMON HEMATITE + PYRITE + MINOR CPY. VEIN MINERALIZATION				
418	419	OVERPRINT.																		
419	420																			

417.9 - 422.0m
5.1m @ 0.11 ppm Au
2.5 ppm Ag
0.45% Cu

UNITY MINING LTD

Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	
Project :	EL 26-2004	East :	442688.00
Prospect :	Firetower West	North :	5406993.00
Grid :	MGA94	RL :	423.00
		Proj.	MGA94 co-ords
Azimuth :	172.0 degrees (MGA94)		
Declination :	70.0 degrees		
Total Depth :	512.4m (confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	DAE		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	14/07/2012	03/08/2012	

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 401.55m												
420	421	LOCALLY STRONG						ALTERED FELDSPAR CRYSTAL AND QUARTZ EYE PHYRIC LITHIC-RICH DACITIC LAVA BRECCIA:								LOCALLY				
421	422	CARBONATE VEIN AND PATCHY PERVASIVE						EXTREMELY HARD, TOUGH, VERY SILICEOUS, VEINED, COARSE FRAGMENTAL TEXTURED, GREY-BLACK,								COMMON MAGNETITE + HEMATITE VEINS SOME WITH PY. + CPY.				
422	423	ALTERATION OVERPRINT.						DARK BROWN, MOTTLED CREAM, VERY COARSE-GRAINED, QUARTZ-PHYRIC RHYOLITE LAVA CLAST RICH												
423	424	VERY COARSE RANDOM ORIENTATION FRAGMENTAL TEXTURES.						LAVA BRECCIA. ABUNDANT LARGE, UP TO 30-40mm, SUB-ANGULAR CLASTS OF BROWN RHYOLITE IN												
424	425							AN ALTERED, SILICA + SERICITE + MAGNETITE + HEMATITE GROUNDMASS. ABUNDANT SERICITISED FELDSPAR												
425	426							CRYSTAL LATHES AND 4-5mm GREY QUARTZ EYES. VARIABLE, LOCALLY STRONG, PATCHY TO TEXTURE												
426	427							TEXTURE FLOODING ALTERATION WITH HEMATITE PIGMENTED FELDSPAR												
427	428																			
428	429																			
429	430							COMMON SERICITE ALTERATION OF LAVA CLASTS.												
430	431	STRONGLY MAGNETIC CORE														ABUNDANT MAGNETITE AS VEINS AND VEINLETS				
431	432																			
432	433																			
433	434																			
434	435							INCREASING PATCHY PERVASIVE TEXTURE												
435	436							DESTRUCTIVE FELDSPAR + HEMATITE ALTERATION.												
436	437																			
437	438																			
438	439																			
439	440																			
440	441																			
441	442	442.45 –						LOCALLY TENDING LESS COARSE-GRAINED WITH												
442	443	442.53m CREAM CARBONATE VEIN → 45°						INCREASE IN ABUNDANCE OF SERICITISED FELDSPAR CRYSTAL FRAGMENTS RELATIVE TO LARGE RHYOLITE LAVA VOLCANOCLASTS. GREY QUARTZ EYES												
443	444							ABUNDANT THROUGHOUT.												
444	445	WEAKLY TO MODERATELY MAGNETIC CORE.																		
445	446							MINOR TO INCREASINGLY COMMON CREAM												
446	447							CARBONATE VEINS AND VEINLETS, WITH SPARSE TO MINOR PYRITE + SPARSE CPY. INCLUSIONS AND								INCREASING PY. + CPY. MINERALISATION				
447	448	VERY STRONG						THIN VEINLETS.												
448	449	CARBONATE VEIN AND BRECCIA						448.3m – 450.0m SEVERAL BRECCIA VEINS WITH CREAM CARBONATE MATRIX, HOSTING MINOR TO COMMON												
449	450	OVERPRINT						PYRITE AND SPARSE CPY. NEEDLE-LIKE CRYSTALS OF HEMATITE INTERGROWN WITH CARBONATE.								PY. + CPY VEINS				

* SPLIT FOR ASSAY

* 426.18 - 426.25m HALF NQ CORE FILLET FOR PETROLOGY.

448.0-451.4m
3.4m @ 0.02 ppm Au
0.4 ppm Ag
0.23% Cu

UNITY MINING LTD

Graphical Drill Hole Log

Hole No.	FTD038	Collar Location	Azimuth : 172.0 degrees (MGA94)	Logged by	DAE
Project :	EL 26-2004	East : 442688.00	Declination : 70.0 degrees	Drilled by	EDrill
Prospect :	Firetower West	North : 5406993.00	Total Depth : 512.4m (confirmed)	Drill type	UDR200
Grid :	MGA94	RL : 423.00	Collar surveyed by: (reported / /2012)	Drill Date	14/07/2012 03/08/2012
		Proj. MGA94 co-ords			

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 401.55m.												
450	451	MODERATELY MAGNETIC						ALTERED FELDSPAR CRYSTAL AND QUARTZ EYE PORPHYRIC, LITHIC-RICH DACITIC LAVA BRECCIA:								CARBONATE + HEMATITE +				
451	452	451.4m 10cm CARBONATE MATRIX BRECCIA						EXTREMELY HARD, TOUGH, VERY SILICEOUS, INITIALLY STRONGLY VEINED, LOCALLY BRECCIATED, COARSE FRAGMENTAL TEXTURED, DARKEST GREY, MID BROWN, GREEN, ALTERED RHYOLITE CLAST RICH LAVA BRECCIA. STRONG SILICA + FELDSPAR + HEMATITE ALTERATION, GRADUALLY WEAKENING.								MAGNETITE + MINOR PY + CPY VEINS.				
452	453															STRONG SERICITE ALTERATION.				
453	454																			
454	455															HEMATITE + PY ± CPY VEINS + VEINLETS				
455	456	BRECCIA VEIN OVERPRINT																		
456	457							INCREASING RAGGED, ANGULAR, LIGHT GREEN/CREAM, SERICITISED RHYOLITE CLASTS. WEAK TO MODERATE SERICITE ALTERATION, MARKED DECREASE IN FELDSPAR + HEMATITE ALTERATION FROM 457.6m.								FELDSPAR + CARBONATE VEINS + HEMATITE				
457	458	456.7m + 456.8m 5-10mm CARBONATE VEIN SET →			30°															
458	459																			
459	460																			
460	461							OCCASIONAL LARGE 25-30mm FRAGMENTS OF GREEN DEVITRIFIED GLASSY LAVA. ABUNDANT LIGHT GREEN, CREAM, SERICITISED FELDSPAR CRYSTAL											
461	462																			
462	463							LATHES AND COMMON GREY QUARTZ EYES, ~~TENDING FINER GRAINED, WITH ABUNDANT SERICITISED~~ FELDSPAR CRYSTAL LATHES.											
463	464																			
464	465	464.9m ROD COUNT						WEAK TO MODERATE SILICA + SERICITE + HEMATITE AS PERVASIVE ALTERATION OF GROUNDMASS.											
465	466	465.4m CREAM CARBONATE BRECCIA VEINS																		
466	467																			
467	468							467.8m GRADUAL DECREASE IN HEMATITE PIGMENTATION IN GROUNDMASS.											
468	469							BECOMING MORE SERICITE + SILICA ALTERED,											
469	470							WITH SCATTERED VERY LARGE, 80-90mm, ELONGATE FRAGMENTS OF LIME GREEN DEVITRIFIED GLASSY LAVA.											
470	471							ABUNDANT LIGHT GRY 4-6mm SUB-ROUNDED											
471	472							QUARTZ EYES.											
472	473	VERY COARSE						WEAK HEMATITE ALTERATION/PIGMENTATION OF											
473	474	FRAGMENTAL TEXTURES;						GROUNDMASS.								NO VISIBLE				
474	475	NO OBVIOUS PREFERRED						TENDING TO BLEACHED MODERATELY								SULPHIDE MINERALISATION				
475	476	ORIENTATION/ FABRIC.						SERICITISED.												
476	477																			
477	478	WEAK VEIN/ VEINLET						477.5m WEAK TO MODERATE HEMATITE PIGMENTATION												
478	479	OVERPRINT.						AND SILICA + SERICITE ALTERATION OF GROUNDMASS.												
479	480							CONSPICUOUS GREY QUARTZ EYES AND ABUNDANT FELDSPAR CRYSTAL LATHES AND LARGE RHYOLITE LAVA CLASTS.												

* 479.3-479.4m FULL NQ CORE FOR PETROLOGY.

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Hole No.	FTD038	Collar Location	Graphical Drill Hole Log	Logged by	DAE
Project :	EL 26-2004	East : 442688.00	Azimuth : 172.0 degrees (MGA84)	Drilled by	EDrill
Prospect :	Firetower West	North : 5406993.00	Declination : 70.0 degrees	Drill type	UDR200
Grid :	MGA94	RL : 423.00	Total Depth : 512.4m (confirmed)	Drill Date	14/07/2012 – 03/08/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 401.55m:												
480	481	VERY COARSE FRAGMENTAL TEXTURES						ALTERED FELDSPAR CRYSTAL AND QUARTZ EYE PHYRIC, LITHIC-RICH, DACITIC LAVA BRECCIA: VERY HARD, VERY TOUGH, SILICEOUS, IN PLACES VEINED, ~~COARSE NON-FOLIATED FRAGMENTAL TEXTURED~~, MID TO DARK BROWN, DARKEST GREY, RED-BROWN, VERY COARSE-GRAINED, RHYOLITE CLAST-RICH LAVA BRECCIA. ABUNDANT SUB ANGULAR, RAGGED, VARIABLY ALTERED, SERICITISED CLASTS OF RHYOLITE LAVA UP TO 40-50mm IN DIAMETER. ABUNDANT SERICITISED FELDSPAR LATHES AND GREY QUARTZ EYES IN A RHYOLITIC/DACITIC GROUNDMASS. VARIABLE PATCHY HEMATITE PIGMENTED SILICA+ SERICITE ALTERATION OF GROUNDMASS. IRREGULAR PATCHY SERICITIC ALTERATION, TENDING TO BLEACHED,										
481	482																			
482	483	CARBONATE VEIN OVERPRINT																		
483	484																			
484	485																			
485	486																			
486	487																			
487	488																			
488	489																			
489	490																			
490	491	STRONG VEIN OVERPRINT.						VEINED TO BRECCIATED IN PLACES. MODERATE HEMATITE PIGMENTATION STAINING. MINOR TO COMMON CREMY CARBONATE VEINS AND VEINLETS.								TRACE PY. IN CARBONATE VEINS; HEMATITE + MAGNETITE ASSOCIATION.				
491	492																			
492	493																			
493	494																			
494	495							OCCASIONAL LARGE RAGGED ?CLASTS OR ALTERATION PATCHES OF QUARTZ PHYRIC DEVITRIFIED RHYOLITE LAVA.								SPARSE CHLORITE VEINLETS.				
495	496																			
496	497																			
497	498	WEAKLY MAGNETIC CORE																		
498	499							MORE MAFIC APPEARANCE, WITH DARK GREEN LAVA CLASTS IN SERICITISED/CHLORITISED GROUNDMASS, STILL COMMON QUARTZ EYE COMPONENT.												
499	500																			
500	501																			
501	502																			
502	503							SPARSE CHLORITE AS THIN COATINGS ON JOINTS.												
503	504																			
504	505															NO VISIBLE SULPHIDE MINERALISATION				
505	506																			
506	507																			
507	508																			
508	509																			
509	510																			

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Hole No.	FTD038	Collar Location	Graphical Drill Hole Log	Logged by	DAE
Project :	EL 26-2004	East : 442688.00	Azimuth : 172.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower West	North : 5406993.00	Declination : 70.0 degrees	Drill type	UDR200
Grid :	MGA94	RL : 423.00	Total Depth : 512.4m (confirmed)	Drill Date	14/07/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		03/08/2012

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								CONTINUED FROM 401.55m.												
510	511	VERY COARSE FRAGMENTAL TEXTURES.						ALTERED FELDSPAR CRYSTAL AND QUARTZ EYE PHYRIC, LITHIC-RICH, DACITIC LAVA BRECCIA : VERY HARD, TOUGH, SILICEOUS, LOCALLY VEINED, VERY COARSE FRAGMENTAL TEXTURED, MID BROWN, IN PLACES DARKEST GREY.								BLUE-GREEN ?SILICA INFILLING OF VUGHY FRACTURE				
511	512							512.4m END OF HOLE.												
512	513							EOH = 512.4m (confirmed)												
513	514																			
514	515																			
515	516																			
516	517																			
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539	540																			

UNITY MINING LTD

REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD039	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 262004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	07 Aug 2012
End of Hole (m):	472.0	**Drilling Completed:**	22 Aug 2012

Drill Hole Collar

		Comments
Surveyed By:	PDA Surveyors	Surveyed by GNSS differential GPS coordinate fixing
Survey Date:	01 Nov 2012	Reported 20 Nov 2012
Survey Datum:	Zone 55 GDA1994	Australian Height Datum (Tas) 1983
Survey Reference:	Trig Mark 232/171	Gog Hill (Class B Second Order)
Hole Collar Easting (m):	445981.0	
Hole Collar Northing (m):	5405143.0	
Hole Collar Height (m):	541.6	
Hole Collar Azimuth (GDA1994):	17.0	
Hole Collar Declination (deg):	61.0	

Drill Hole Surveys

		EDrill Australia		Comments
Surveyed By:				Ranger Discoverer electronic magnetic survey tool
Surveyed Data:	Depth (m)	Azimuth*	Decl.	*Raw magnetic azimuth +13.647 degrees
PQ to 17.5 metres	31.0	21.2	59.4	
	60.0	24.1	58.8	
HQ to 87.1 metres	90.0	21.6	56.8	*Magnetics affected; azimuth smoothed.
	120.0	19.1	57.6	
	150.0	18.3	57.4	
	180.0	21.1	57.0	
	210.0	21.8	56.4	
	240.0	19.0	56.2	
	270.0	23.2	55.4	
	300.0	24.3	54.4	
	330.0	22.2	53.7	
	360.0	24.1	53.0	
	390.0	24.3	52.0	
	420.0	24.3	51.3	
	450.0	25.6	50.1	
NQ to 472.0 metres EOH	472.0	24.2	49.9	End of hole survey.

UNITY MINING LTD

REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD039	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 262004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	07 Aug 2012
End of Hole (m):	472.0	**Drilling Completed:**	22 Aug 2012

Hole Completion		Comments
Groundwater Intersected:	No	
Groundwater Controlled:	N/A	
Material Left In Hole:	Steel collar pipe	3.0 metres HWT pipe cemented in at surface
		UPVC casing installed in completed hole
Collar Condition:	Capped	Threaded steel cap spot welded onto collar pipe

Drill Hole Logging		Comments
Logged By:	A. Warren	Logged in hard copy graphical format
Base of Complete Oxidation (m):	1.0	Hole collared on excavated pad with rock fill
Base of Partial Oxidation (m):	16.8	
Summary:	Collar - 95.5 m	Oxidised to fresh qtz-phyric rhyolitic lava or intrusive
	95.5 - 182.2 m	Lithic and pumice-rich rhyolitic breccia; minor shale
	182.2 - 209.7 m	Laminated black shale; minor rhyolite lava
	209.7 - 243.9 m	Interbedded rhyolitic breccia, volcaniclastic sst, shale
	243.9 - 356.2 m	Pumiceous lithic-rich volcaniclastic breccia, shale
	356.2 - 385.15 m	Fine-grained volcaniclastic sandstone; minor shale
	385.15 - 451.2 m	Quartz crystal and lithic-rich volcaniclastic breccia
	451.2 - 472.0 m	Black shale; minor volcaniclastic sandstone

Drill Hole Assays		Comments
Sample Type:	Half core	Sawn half HQ and NQ core samples
Assayed By:	ALS	Burnie Research Laboratory (Wivenhoe, Tasmania)
		Master pulp samples stored at Deloraine core shed
Peak Gold Assays:	0.49 g/t gold	Average for 2.0 m apparent width from 140.0 - 142.0 m
	0.99 g/t gold	1.0 m apparent width from 160.0 - 161.0 m
	0.56 g/t gold	1.0 m apparent width from 189.0 - 190.0 m
Other Significant Assays:		

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PAGE 1 OF

Hole No.	FTD039	Collar Location (GPS)		Graphical Drill Hole Log	Logged by A Dorn
Project :	EL 26-2004	East :	445975.00	Azimuth : 20.0 degrees (MGA94)	Drilled by EDrill
Prospect :	Firetower	North :	5405146.00	Declination : 60.0 degrees	Drill type UDR200
Grid :	MGA94	RL :	537.00	Total Depth : 480m (planned)	Drill Date 07/08/2012
		Proj.	MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Abite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
0	1	CO	PROBABLY FILL MATERIAL.					RUBBLE/CLAY: DARK BROWN CLAY + ROCK FRAGMENTS. 1.0m CONTACT NOT RECOVERED/DEPTH UNCERTAIN.								UNCONSOLIDATED SURFICIAL ZONE.				
1	2	PO						Pale pink felsic volcanic rock comprising occasional quartz phenocrysts abundant grey rounded - tabular phenocrysts, abundant d. grain - black wispy flattened pumice fragments forming biotite crystals in fine grained matrix. Very jointed with various grains. Abundant d. brown + brown fe min veining & jointing. Occasional quartz veins - occanional boxwork												
2	3																			
3	4																			
4	5																			
5	6																			
6	7																			
7	8																			
8	9																			
9	10																			
10	11							(lava or intrusive) RHYOLITE with quartz phenocrysts + abundant tabular grey altered feldspar or ferromag phenocrysts. abundant in grainy feldspar rich matrix.	wk	/	/			/			VUGS				
11	12								wk	/	/			/						
12	13								wk	/	/			/						
13	14							2mm qt carbonate vein @ 13.2m.							05%					
14	15							(lava or intrusive) RHYOLITE phenocrysts qtz plus v fine acicular (to tabular) accom altered xls.						wk						
15	16							matrix bla.			/			/						
16	17	20%									/			wk						
17.5m		END PQ																		
17	18	START HQ									/			wk						
18	19										/			/						
19	20							20.35 - 1cm irregular brecciated qt vein sub // to LCA & occanional qt/cb vein			/	II		/	1cm	dark grey qt	05%	✓		
20	21							qt carbonate vening 20-21	II		patchy			patchy						
21	22							micro dark vein sulphide Intense 21.8-22.2	II		/	II		/						
22	23	11.6 vein	=60 to LCA					abt micro qt carbonate vening # pattern @ 23m	II		//	II		/	2cm	plus yellow				
23	24	23.6 VN	=50 to LCA					23.6 dark vein sulphide fine 4mm 23.6 qt vein.			//			//						
24	25										//			//						
25	26	1m @ 60° to CA.									/			/						
26	27										/			/						
27	28										/			/						
28	29										/			/						
29	30										/			/						

Boco = 1.0m
BoPo = 16.8m

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Graphical Drill Hole Log

Hole No.	FTD039	Collar Location (GPS)		**Logged by**	A Warren
Project :	EL 26-2004	**East :**	445975.00	**Drilled by**	EDrill
Prospect :	Firetower	**North :**	5405146.00	**Drill type**	UDR200
Grid :	MGA94	**RL :**	537.00	**Drill Date**	07/08/2012
		Proj.	MGA94 co-ords		xx/08/2012

Azimuth : 20.0 degrees (MGA94)
Declination : 60.0 degrees
Total Depth : 480m (planned)
Collar surveyed by: (reported / /2012)

Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica (Alteration)	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage (Mineralization)	%	Veining	Disseminated	Pervasive
30	31							Rhyolite lava a.a. (or intrusion) i.e granular matrix			/			/						
31	32										/			/						
32	33								ll		/	ll		/						
33	34										/			/						
34	35										/			/						
35	36										/			/						
36	37										/			/						
37	38										/			/						
38	39										/			/						
39	40										/			/						
40	41										/			/						
41	42										/			/		Py	0.1		✓	
42	43										/			/						
43	44										/			/						
44	45															Py	0.1		✓	
45	46																			
46	47		Broken core					CORE LOSS				/								
47	48							Rhyolite Lava				/								
48	49							CORE LOSS				/				Py	0.1		✓	
49	50							Rhyolite lava (or intrusion)												
50	51							2 fld (?) lithics, in a grainy feldspar/!qt groundmass			wk			wk						
51	52										wk /			wk						
52	53										wk /			wk						
53	54										wk /			wk						
54	55										wk /			wk /						
55	56										wk /			wk /						
56	57																			
57	58																			
58	59	58.1 <03cm 58.5 xxxx						3cm LQ								Py in LQ	0.5		✓	
59	60	59.1 xxx																		

BG Broken ground.

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Hole No. FTD039 | Collar Location (GPS) | **Graphical Drill Hole Log**

Project : EL 26-2004 | **East :** 445975.00 | **Azimuth :** 20.0 degrees (MGA94)
Prospect : Firetower | **North :** 5405146.00 | **Declination :** 60.0 degrees
Grid : MGA94 | **RL :** 537.00 | **Total Depth :** 480m (planned)
Proj. MGA94 co-ords | Collar surveyed by: (reported / /2012)

Logged by A. Howe
Drilled by EDrill
Drill type UDR200
Drill Date 07/08/2012 xx/08/2012

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
60	61							Rhyolite Lava (or intrusion)		√ wk			√ wk							
61	62							dark green lithics & felspar a fine grained feldspar lithic matrix		√ wk			√ wk							
62	63									√ wk			√ wk							
63	64									√ wk			√ wk							
64	65									√ wk			√ wk							
65	66									√ wk			√ wk							
66	67							broken ground Volcaniclastic sandstone		√ wk			√ wk							
67	68							core loss Volcaniclastic sandstone												
68	69							pale grey rock with d green lithics in fine grained ss matrix.		/										
69	70							CORE LOSS Volcaniclastic sandstone breccia												
70	71																			
71	72							Brown glassy Rhyolite Lava												
72	73							qtz phenocrysts abundant pumice-rich intervals	/											
73	74							occ lithics, v fg groundmass, "flinted" / p. cracked	/											
74	75								/											
75	76								/											
76	77								/											
77	78								/											
78	79								/											
79	80								/											
80	81								/											
81	82								/											
82	83								/											
83	84								/											
84	85								/			√				? carbonate py veins	0.1	√		
85	86								/											
86	87	87.1 HQ NQ							/											
87	88								/											
88	89								/							pyrite	0.1		√	
89	90								/											

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)		**Logged by** A. Warren
Project : EL 26-2004	**East :** 445975.00	**Azimuth :** 20.0 degrees (MGA94)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Declination :** 60.0 degrees	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	**Total Depth :** 480m (planned)	**Drill Date** 07/08/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012

Massive / Pervasive / Disseminated / Narrow vein

Log grainsize: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
90	91							Rhyolite lava	/											
91	92								/											
92	93								/											
93	94								/											
94	95								/							Pyrite blebs cm/veins	0.4	√		
95	96							Black shale CORE LOSS				/				carbonate veins pyrite	3	√		
96	97	95.5		50				Pumice Breccia vfg rock with abundant pumice pieces, dgreen-black + occasional lithics to 2cm. vfg matrix												
97	98																			
98	99											carbonate veins /				Pyrite blebs, veins	2	√		
99	100											/ ditto				↓		√		
100	101							Lithic Pumice breccia - beige rock				/ ditto				↓		√		
101	102							abt dgreen-grey flattened pumice flow aligned/welded, lithics, strongly foliated.												
102	103																			
103	104																			
104	105																			
105	106																			
106	107																			
107	108																			
108	109																			
109	110																			
110	111																			
111	112																			
112	113																			
113	114																			
114	115																			
115	116																			
116	117	116.5 →						Rhyolite lava breccia pink rock vfg - groundmass/matrix siliceous?	/	/			/							
117	118								/	/			/			117? pyrite		√		
118	119	118.7-118.8				X		X. Fault? (or drilling breccia?) 10 cm of pulverized rock & qt debris	/	/			/			118 pyrite	0.3	√		
119	120			HA				Rhyolite lava breccia pink rock siliceous, abundant white 2mm feldspar x's, occasional grey/black lithics, vfg groundmass/matrix - components cannot be determined.		√			√	? 119 +2.3		qt/pyrite veins	1	√		

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Hole No.	FTD039	Collar Location (GPS)		Graphical Drill Hole Log		Logged by	A. Warren	Massive
Project :	EL 26-2004	East :	445975.00	Azimuth :	20.0 degrees (MGA94)	Drilled by	EDrill	Pervasive
Prospect :	Firetower	North :	5405146.00	Declination :	60.0 degrees	Drill type	UDR200	Disseminated
Grid :	MGA94	RL :	537.00	Total Depth :	480m (planned)	Drill Date	07/08/2012	Narrow vein
		Proj.	MGA94 co-ords	Collar surveyed by:	(reported / /2012)		xx/08/2012	

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
120	121							Rhyolite lava 'jigsaw' pink rock v siliceous cracked vfg groundmass/matrix which cannot be determined. No phenocrysts	/		/			/						
121	122								/		/			/						
122	123								/		/			/		qt/pyrite			/	
123	124	+	Black shale		2			hyaloclastic texture with black shale clast or interbed, probably clast												
124	125	05	Black shale					Volcaniclastic breccia? vfg rock ?? vfg no phenox, not cracked. Rounded pieces of pink rhyolite in it			/			/		qt pyrite			/	
125	126							rhyolite lava breccia pink cracked lava intermixed with vfg brown breccia			/			/						
126	127							Rhyolite lava breccia pink rock, cracked, v fine grained groundmass - components cannot be determined, occasional qt phenocrysts abundant small white feldspar xls, occasional lithics	/		/			/						
127	128								/		/			/						
128	129								/		/			/						
129	130										/			/						
130	131										/			/						
131	132	qt vein 16° to CA							/		/			/	qt	131.9 Py		/		
132	133								/		/			/		132.25 Py		/		
133	134								/		/			/		133.82 Py		/		
134	135										/			/						
135	136								/		/			/						
136	137										/			/						
137	138	ground									/			/						
138	139			138.5 138.7				CORE LOSS			/			/						
139	140										/			/		139.8 Py on joint		/		
140	141								/		/			/		140.6 - 141 Py on ... CA		/		
141	142								/		/			/		142.0 Py on joint				
142	143								/		/			/						
143	144								/		/			/		143.7 Py on joint		/		
144	145							joint sub // to CA & at low angle to CA	/		/			/		144.5 Py joint @ 83° to CA		/		
145	146								/		/			/						
146	147								/		/			/		146 - 148 Py		/		
147	148								/		/			/		Py		/		
148	149								/		/			/						
149	150								/		/			/		149.8 - 151.1 Py		/		

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A. Warren — PAGE 6 OF

Hole No.	FTD039	Collar Location (GPS)		**Graphical Drill Hole Log**	
Project :	EL 26-2004	**East :**	445975.00	**Azimuth :** 20.0 degrees (MGA94)	**Logged by**
Prospect :	Firetower	**North :**	5405146.00	**Declination :** 60.0 degrees	**Drilled by** EDrill
Grid :	MGA94	**RL :**	537.00	**Total Depth :** 480m (planned)	**Drill type** UDR200
		Proj.	MGA94 co-ords	Collar surveyed by: (reported / /2012)	**Drill Date** 07/08/2012 – xx/08/2012

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/Weathering / Structure	Angle CA	Description	Vein Qtz %	Mineralisation Assemblage	%
150	151	moderately broken		rhyolite lava breccia; pink rock cracked vfg-grains groundmass	150.5	150.1–151 qtz vein; py	
151	152						
152	153				152.2	pyrite cavities	1%
153	154				154.0 py; 153.9 py	qtz vein	
154	155				154.9	py	
155	156				155.8	py	
156	157						
157	158	157	80°	hylocastite textures at base			
158	159	contact @ 157.98		Rhyolite lava breccia, pale pink rock, v fine grained white feldspar phenocrysts, vfg matrix/groundmass	158.4	py on joints	
159	160	S0 25° to CA		hyaloclastite texture at base			
160	161	contact 160.2; S0 48° to CA		Black shale/Black shale breccia	9	minor spider veins	
161	162	161.2		hyaloclastite texture at base of shale. Rhyolite lava breccia, with intervals of black shale/rhyolite breccia			
162	163						
163	164					pyrite blebs	0.5
164	165						
165	166	veins		Black shale			
166	167						
167	168	S0 167.9		Black shale / rhyolite breccia		167.6 & 167.9	py
168	169					168.7 & 168.8	py
169	170						
170	171					170.3 on joints	py
171	172			Black shale / rhyolite breccia		171.8	py
172	173					172.0	py
173	174			Black shale – evidently banded in part – [illegible]; beige volcanic hyaloclastite at base	1%		
174	175	S0 W 25° CA, variable		Black shale banded area.	spider veins S/W	pyrite blebs, veins, minor chalcopyrite	1%
175	176			Rhyolite lava breccia or lava			
176	177			honey coloured volcanic, very siliceous rock, v'g matrix/groundmass, min white feldspar xls, brecciated. Groundmass of broken pieces of same composition. Carbonate [illegible]			
177	178					177.9 py, dogtooth	
178	179						
179	180					179.3 py	

S/W stockwork

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A. Warren

Graphical Drill Hole Log

Hole No.	FTD039	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	20.0 degrees (MGA94)		
Declination :	60.0 degrees		
Total Depth :	480m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by			
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	07/08/2012		
	xx/08/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veinlet	Disseminated	Pervasive
180	181							Honey-coloured siliceous rhyolite lava												
181	182																			
182	183							Black shale - narrow 182.5							2%	pyrite	0.1%			
183	184							Black shale/rhyolite breccia. - pink clasts												
184	185							pumice texture, hyaloclastite in black shale								pyrite	0.1%			
185	186							Black shale with many interbeds								2cm qtz/py vein	5%			
186	187		186.8-187.8					W-p green volcaniclastic sandstone, black shale, banded								pyrite	2%			
187	188	So 50° to CA	187.8 29° to CA					p green volcaniclastic + black shale, crumbly												
188	189							Black shale												
189	190											spider veins			2	qtz vein 189-191.5				
190	191														2	minor pyrite @ 190.6m. chalcopy				
191	192																			
192	193																			
193	194		193 35° to CA					multiple micro veins <1cm - thickest 3cm veins							1% 10%	1 or qt/cb pyrite qz veins				
194	195															py in matrix				
195	196							195.3-195.8 Qt 3 S/W. 2 zones of qt/cb dominated veining							30%	pyrite in qt/cb veins	10%			
196	197							196-196.3 qt/cb S/W								chalcopy				
197	198	So 48° to CA						p grained conglomeratic sandstone								pyrite in veinlets				
198	199							p green volcaniclastic SS banded - with fg green vc SS												
199	200		199.25					rhyolite lava Honey coloured v.fg siliceous rock												
200	201														3%	py+qt/cb	0.1%			
201	202																			
202	203																			
203	204							Black shale												
204	205															py/qt veins, ? chalcopy				
205	206		206 35°																	
206	207	So	10-15° to CA					206 35° Black shale interlaminated with volcaniclastic SS. Distinctly laminated (1mm - 10cm.)							207.4 qtz/cb vein 2cm wide	pyrite up to				
207	208	So	20° to CA													pyrite 5%				
208	209	So	35° to					qtz/cb vein 3cm												
209	210							fg p/lithic/pumice 35cm thick bed. polymictic lithic breccia								209.3 py				

207 - 208 massive pyrite 30cm // to So.

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)	**Azimuth :** 20.0 degrees (MGA94)	**Logged by** A. Warren
Project : EL 26-2004	**East :** 445975.00	**Declination :** 60.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 480m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	Collar surveyed by: (reported / /2012)	**Drill Date** 07/08/2012 – xx/08/2012
	Proj. MGA94 co-ords		

Mineralization legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Description	Alteration	Mineralisation Assemblage	%	Veining / Disseminated / Pervasive
210	211					polymictic lithic breccia in black shale matrix. clasts are of a variety of volcanics – pink cracked lava, pumice bearing, vfg olive green. Preferred orientation	occ epidote	Py selected clasts 210.8–211 pyrite	2	✓✓
211	212									
212	213					Black shale interbedded with pale green fg rock with dark pumice flecks				
213	214		213.6			monomictic rhyolite breccia pumice pieces. a pink rock cracked vfg, siliceous, groundmass cannot be determined.	/	213.15–213.5 py		✓ ✓
214	215						/			
215	216						epidote vein 215.5. /			
216	217	216.7 40° to CA py ...					epidote microveins /	py Pyrite 1-2 cm		✓ ✓
217	218						217.5–218 pyrite vein areas /	pyrite massive 217.2 un-massive	7	✓ ✓
218	219			v/b		Black shale interbedded and interlaminated with p. grey vfg volcaniclastic ss with pumice flecks in a ? feldspar matrix.	/			
219	220			v						
220	221			v/b		CORE LOSS	? epidote	pyrite 0.2	0.1	✓
221	222	S0 50° to CA	220.9–221	v/b		volcaniclastic ss cream				
222	223			V						
223	224	Broken ground		b		Laminated		? pyrite		
224	225			V		volcaniclastic ss cream				
225	226					Black shale				
226	227	S0 43		b		volcaniclastic ss – cream				
227	228			V b V b		Black shale / volcaniclastic ss – cream / Black shale		? Pyrite ... in black shale		✓
228	229			vV						
229	230			V		Volcaniclastic ss – cream to p grey d/h ò comprising feldspar lithics pumice and black shale lithics. foliated. Many dip downwards.				
230	231									
231	232		231.55			Black shale occ ss interbeds. Rhyolite lava – vfg. pink siliceous cracked rock with abt white microxtals of feldspar? black pumice pieces minor occ black lithics.	/ /	231.7 py blebs		
232	233						/ /			
233	234						/ /			
234	235						/ /			
235	236	Foliation 45° to CA Broken ground				Foliated pumice lithic breccia / Rhyolite Lava / foliated pumice lithic breccia	/ /			
236	237	Foliation 10° to CA				Rhyolite lava as for 232m. foliated pumice lithic breccia or sandstone	/			
237	238	237.5				Black shale / Almost // bedded with lithic sandstone				
238	239	S0 10° to CA				vf grained siliceous rhyolite lava	/ /			
239	240	S0 ... 3° to CA				Black shale				

b volcaniclastic shale
b shale
V volcaniclastic ss

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)	**Azimuth :** 20.0 degrees (MGA94)	**Logged by** A. Warren
Project : EL 26-2004	**East :** 445975.00	**Declination :** 60.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 480m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00		**Drill Date** 07/08/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012

Mineralization style key: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize: 0.062 1/4 1 4 16 64 mm

From	To	Structure / Angle CA	Description	Alteration (Silica, Sericite, Albite, Carbonate, Chlorite, Hematite, Vein Qtz %)	Mineralization (Assemblage, %, Veining/Disseminated/Pervasive)
240	241	240.6 So 7° to CA; slight oxidation	Black shale – massive – laminated. Crystal/pumice/lithic breccia (or volcaniclastic ss)		
241	242	broken ground; So sub // CA @ 241	polymictic lithics of feldspar, & occasional pumice tightly packed – grainy, qtz xl, grey/green lithics. Black shale – massive / volcaniclastic		pyrite 242 – 1% √
242	243		So shallow angle to CA. Black shale		242.9–243.2 – 5% √ // So // So & qt vns
243	244	F	CQ abundant 2mm qt veins @ 243. 243 // pyrite vein 0.5mm wide 3–10° to CA	graphite	in shale & vc ss; on bedding; py 1 √
244	245	foliation est 5–10° to CA	feldspar xl lithic pumice breccia (or volcaniclastic ss) feldspar, qt polymictic lithics, abundant pumice wisps – flattened	244.0 qt with silver sulphides	bismuth, pyrite √
245	246	246.0 So 5° to CA; QLCF 48° to CA	Black shale interlaminated with f.g. ss		
246	247	F, 246.5 – 30° to CA	XL lithic pumice breccia or volcaniclastic ss; polymictic lithics, feldspar xls, qt xls, flattened pumice wisps strongly foliated & tightly packed v.f.g. grey lithics		
247	248				
248	249	So 0° to CA; 248.7 qtF 80° to CA; F	Black shale / XL lithic pumice breccia or vc ss a/a. Bedding // to CA	} graphite	
249	250		XL lithic pumice breccia or vc ss of crystals, lithics, dark flattened pumice, vague foliation @ ?3° to CA. v.f.g. grey lithics		
250	251				
251	252	So 252.0 20° to CA	coarsens upwards? qt XL lithic pumice breccia or vc ss		
252	253	Broken ground	feldspar ?qt lithics, quite even grained ↓ becoming more clastic downhole		
253	254			/	
254	255			/	
255	256		Black shale – 4 x bs with volcaniclastics in between	/	
256.3		F 45° to CA; fault	Black shale – 30 cm 256.3–256.6 interlaminated vc ss. So 256.3 15° to CA		
256	257		qt XL lithic pumice breccia (or vc ss).		
257	258	257.3 Foliation 40° to CA	with abundant clasts of black shale (not in earlier intervals) & of f.g. grey, & grey lithics, ?polymictic lithics, flattened pumice, qt xls, ?feldspar. Foliation – moderate		pyrite mm size in black shale clasts (local) 0.1 √
258	259		(clast supported).		
259	260				
260	261		10cm Black shale or Large clast of Black shale 260.2–260.3. qt XL lithic pumice breccia volcaniclastic ss)		
261	262	Foliation 262.0 30° to CA	V foliated – strong. qt xls, lithics including black shale, pumice as occ. black & alt. mid grey & pale grey wisps. Other lithics – v.f.g. grey & black clasts	261.6	qt vn with alteration halo
262	263				
263	264				
264	265				
265	266				
266	267				
267	268				
268	269				
269	270	269.6	Black shale		

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)		**Logged by** A Warren
Project : EL 26-2004	**East :** 445975.00	**Azimuth :** 20.0 degrees (MGA94)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Declination :** 60.0 degrees	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	**Total Depth :** 480m (planned)	**Drill Date** 07/08/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012

Key: Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
270	271	So 270.5 20° to CA	broken ground					Black Shale, frequent laminations one 2cm band of fg volcaniclastic sandstone @ 271.15m – pale green							270.7	py veinlet		✓		
271	272	So 272.0 25° to CA			272.2										272 – 272.3	py veinlet //So		✓		
272	273							qtz xl lithic pumice breccia; vfg lithics – angular–subrounded black shale, brown, grey, pgrey												
273	274				273.6			Black shale occasional laminations; grades downhole from band of pale green volcaniclastic ss – 2+3cm (at least 5)							273.7	py veinlet		✓		
274	275	So 274.3 22° to CA			274.9			qtz xl lithic pumice breccia – grey, black shale, pgrey, brown, vfg lithics, tightly packed, flattened pumice pieces							274.5	py veinlet //So		✓		
275	276																			
276	277																			
277	278				277.8			Black shale (or large clast)												
278	279				278.3			quartz lithic pumice breccia; vfg lithics – grey, pale grey, brown, black shale												
279	280														279.?	pyrite [illegible] disrupted		✓		
280	281															pyrite and [illegible] sulphide [illegible]				
281	282	Fol 50° to CA			281.6 / 282.15			Black shale 15cm; quartz pumice breccia – qtz xl, flattened pumice, lithics include black shale; qtz xl lithic pumice breccia							5% / 1%	spider veins; pyrite in qtz veins				
282	283																			
283	284							? epidote ↑ 283.5							3%	qtz veins ? feldspar + brown ? carbonate				
284	285	Vaguely bedded																		
285	286							↓ epidotised or chloritised in places ? multiple events												
286	287							Black shale interbeds or large clast @ 287.2m							286.5 / 286.7	Sig qtz vein @ 286.35; qtz vein with pyrite				
287	288	So 288.1 27° to CA						large clast of pink cracked lava @ 288.0												
288	289																			
289	290																			
290	291																			
291	292				291.6			Black Shale – occasional laminations (or large clast?)							30%	intense multiple qtz veins [illegible] core [illegible]				
292	293	So 292.2 27° to CA			292.45 ← qt vein			Qtz xl lithic pumice breccia								mm pyrite //So; 292.0 – 292.4 shale [illegible]		✓		
293	294				293.6 / 294.0			Black shale; Qtz xl lithic pumice breccia, black shale clasts, pink rhyolite lava clasts, green & brown qtz ± feldspar porphyric lava clast.								294.0 py blebs in black shale				
294	295																			
295	296				295.2 / 295.4			Black shale; qtz xl lithic breccia – grey rock, ? qtz xls lithics – include black shale, pink rhyolite clast (qtz phyric), clast supported												
296	297	So 40° to CA	foliation @ 296.9												1%?	pyrite 296.5 ~1mm		✓		
297	298							Black Shale 297.3-297.7 (or large clast); qtz xl lithic pumice breccia												
298	299							qtz xls, pumice, lithics include abundant brown rhyolite clasts with qtz & ? more phenocrysts [illegible]												
299	300							[illegible] clast [illegible]												

292.45 2cm qt vein 85° to core axis.

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A. Warren PAGE /1 OF

Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)		**Logged by**	Massive
Project : EL 26-2004	**East :** 445975.00	**Azimuth :** 20.0 degrees (MGA94)	**Drilled by** EDrill	Pervasive
Prospect : Firetower	**North :** 5405146.00	**Declination :** 60.0 degrees	**Drill type** UDR200	Disseminated
Grid : MGA94	**RL :** 537.00	**Total Depth :** 480m (planned)	**Drill Date** 07/08/2012	Narrow vein
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012	

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
300	301							xtal pumice lithic breccia.								py in ...		✓		
301	302							probably more than one event												
302	303																			
303	304																			
304	305																			
305	306																			
306	307																			
307	308																			
308	309																			
309	310																			
310	311																			
311	312																			
312	313																			
313	314																			
314	315																			
315	316																			
316	317																			
317	318																			
318	319																			
319	320																			
320	321																			
321	322																			
322	323																			
323	324																			
324	325																			
325	326																			
326	327																			
327	328																			
328	329																			
329	330																			

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Graphical Drill Hole Log

Hole No.	FTD039	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	20.0 degrees (MGA94)		
Declination :	60.0 degrees		
Total Depth :	480m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by			
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	07/08/2012		
	xx/08/2012		

Massive
Pervasive
Disseminated
Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemin'tio	Pervasive
330	331																			
331	332														0.5%	disseminated py in some veins	1%	✓		
332	333																			
333	334																			
334	335																			
335	336																			
336	337			336.9				black shale interlaminated with cream-pi brown chalky/porcellanous layers ? ash / Volcaniclastic shale	35%	LA			3-4%			chalcopyrite pyrite				
337	338																			
Sb 337.5		60°	bCA																	
338	339			338.95				± xl lithic pumice breccia - grey rock.												
339	340			339.65				lithic pumice breccia - flattened texture pale brown rock										✓		
339.7	fol. 35° bCA							grey brown lithics, occasional large lava 1cm to 4cm long, ? qt xls but generally fine ground												
340	341																			
341	342																			
342	343																			
Sb 343																				
343	344	CA	343.3-343.6					Black shale - Laminated Volcaniclastic Black shale - graphitic (or clast)												
344	345		344.3-344.8					? volcaniclastic sandstone												
								Black shale with ground												
345	346							± xl lithic pumice breccia												
346	347																			
347	348							may be several cycles												
348	349																			
349	350																			
350	351																			
351	352																			
352	353																			
353	354		353.55-.75					± 'vein' parallel // with white qt (or felds) // but disrupted or silicification qt lithic pumice breccia.							120%	qt vein				
354	355																			
355	356																			
Sb 356		17° bCA			356.2			pale brown vfg shale / tough with 1-3mm grey shale interbeds												
356	357																			
357	358			357				Black Shale - banded with vfg pale brown parey disrupted or irregular layers ? siltstone Black shale - banded with vfg pale brown disrupted or irregular layers ? siltstone.												
358	359			358.8				pale brown volcaniclastic ss (vfg) interbedded with grey shale. Peculiar elutriated ? some bedding												
Sb 359		31° bCA			360.00															
359	360																			

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)	**Azimuth :** 20.0 degrees (MGA94)	**Logged by**
Project : EL 26-2004	**East :** 445975.00	**Declination :** 60.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 480m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00		**Drill Date** 07/08/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	xx/08/2012

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Structure	Angle CA	Description	Alteration (Silica / Sericite / Albite / Carbonate / Chlorite / Hematite)	Vein Qtz %	Mineralisation Assemblage	Veining / Disseminated / Pervasive
360	361		360.15, 360.42	grey siltstone top; pale brown volcaniclastic ss (vfg) to grey shale top d/h.				
361	362		361.2, 361.2, 361.45	Black shale; pale brown volcaniclastic ss; Black shale with interlam^n of p.brown volcaniclastic shale			361.5 py vein [illegible]	✓
362	363	So 362.6 24° to CA	362.[illegible]	pale brown fg volcaniclastic ss - massive				
363	364		363.8	shale top; pale brown fg volcaniclastic ss - [illegible]; grey shale [illegible] - disrupted.				
364	365			shale top - p brown / ash				
365	366		365.5	pale brown fg volcaniclastic ss; pale brown shale / ash				
366	367		366.[illegible]	pale brown fg volcaniclastic ss				
367	368			grey siltstone interlam^d p brown shale/slt top				
368	369	So 368.3 32° to CA	368.45	pale brown fg volcaniclastic ss	368.1-[illegible]	[illegible]	[illegible] sulphide [illegible]	
369	370		369.6	grey siltstone/shale top; pale brown fg volcaniclastic ss (+ grey mottled p brown)				
370	371	So 370.8 34° to CA		Interlaminated grey + p.grey vfg ss				
371	372		371.3, 371.65, 371.8	grey shale top; a/a but grey shale + p-brown band at top (ie d/h); a/a grey shale top; grey ss/vc grey shale top (d/h)			Cb vein sub ∥ to CA	
372	373		372.05, 372.5	grey ss/vc → grey shale top (d/h) laminated ss; a/a but with p.brown ash band in ss interval			Cb/qt vein	
373	374		373.15, 373.55, 373.82	grey vc ss → grey shale top (d/h); a/a laminated ss; grey ss → grey shale top (d/h) lam shale + ss				
374	375	So 374.5 - 40° to CA	374.[illegible], 374.6	a/a; grey ss → grey shale top (d/h) laminated				
375	376	broken ground	375.4	laminated ss + interbedded shale				
376	377		376.5, 376.9	multiple cycles grey ss → grey shale top (d/h); grey laminated ss → shale top (d/h) some p.brown ash mottles			Cb/qt veins	
377	378		377.8, 377.7	p brown volcaniclastic ss → shale top (d/h); p brown volcaniclastic ss → shale top (d/h)				
378	379		378.2, 378.5	p.brown volcaniclastic ss → grey shale top (d/h); grey laminated ss → shale top (d/h)				
379	380		379.1, 379.65	a/a; p.brown volcaniclastic sandstone → grey shale top (d/h) (3 cycles)				
380	381	So 380.3 50° to CA	380.1, 380.[illegible], 380.[illegible]	p brown volcaniclastic sandstone → grey shale top (d/h); a/a			380.1-380.7 4x qt veins 43° to CA [illegible]	
381	382	So 381.5 35° to CA	381.[illegible]	grey volcaniclastic sandstone - laminated/banded (p.brown ash) → grey shale tops			[illegible] 381.[illegible] 20 to CA	
382	383	So 382.[illegible] 33° to CA	382.3, 382.65	grey volcaniclastic sandstone to grey shale top (d/h); a/a				
383	384		383.5	a/a banded / laminated; a/a				
384	385		384.1, 384.85	a/a	384-3[illegible]	5%		
385	386		385.15	Lithic pumice breccia; qt crystals, polymictic lithics, pumice and black [illegible] black clasts with feldspar [illegible]	/			
386	387			[illegible] other lithics fg grey, p.grey, [illegible] tan [illegible] lava clasts foliated. Pumice clasts have ragged edges	/			
387	388			Distinctive key of black porphyritic clasts/pumice			occ pyrite [illegible]	
388	389	389.2 - 38° to CA						
389	390				? /		occ pyrite [illegible]; [illegible] 390.[illegible] @ 18° to CA	

* Cb alter^n [illegible] 3m u/p from here & a couple of cm d/h.

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Graphical Drill Hole Log

Hole No.	FTD039	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	20.0 degrees (MGA94)		
Declination :	60.0 degrees		
Total Depth :	472.0m (to be confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by	A Warren		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	07/08/2012		
	22/08/2012		

Massive
Pervasive
Disseminated
Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
390	391																			
391	392																			
392	393																			
393	394		Broken ground																	
394	395																			
395	396																			
396	397																			
397	398																			
398	399																			
399	400		Broken ground																	
400	401																			
401	402																			
402	403																			
403	404																			
404	405																			
405	406																			
406	407																			
407	408																			
408	409																			
409	410																			
410	411																			
411	412																			
412	413																			
413	414																			
414	415																			
415	416																			
416	417		Broken ground																	
417	418																			
418	419																			
419	420																			

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Hole No.	FTD039	Collar Location (GPS)	**Graphical Drill Hole Log**	**Logged by**	P. Warren	Massive	
Project :	EL 26-2004	**East :** 445975.00	**Azimuth :** 20.0 degrees (MGA94)	**Drilled by**	EDrill	Pervasive	
Prospect :	Firetower	**North :** 5405146.00	**Declination :** 60.0 degrees	**Drill type**	UDR200	Disseminated	
Grid :	MGA94	**RL :** 537.00	**Total Depth :** 472.0m (to be confirmed)	**Drill Date**	07/06/2012	Narrow vein	
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		22/06/2012		

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veinlets	Disseminated	Pervasive
420	421		broken ground																	
421	422		421.5													422 - 425.5.				
			422.8																	
422	423		-423																	
423	424																			
424	425		424.3																	
			424.8																	
425	426																			
426	427		426.7																	
			427.3																	
427	428																			
428	429		428.5																	
429	430																			
430	431																			
431	432																			
432	433																			
433	434																			
434	435																			
435	436																			
436	437																			
437	438																			
438	439																			
439	440																			
440	441							more qt phenocrysts rich d/h												
441	442																			
442	443																			
443	444																			
444	445																			
445	446																			
446	447							> finer grained downhole												
447	448																			
448	449																			
449	450																			

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Graphical Drill Hole Log

Hole No. FTD039	Collar Location (GPS)	**Azimuth :** 20.0 degrees (MGA94)	**Logged by** A Warren
Project : EL 26-2004	**East :** 445975.00	**Declination :** 60.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 472.0m (to be confirmed)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	Collar surveyed by: (reported / /2012)	**Drill Date** 07/08/2012 – 22/08/2012
	Proj. MGA94 co-ords		

Legend: Massive; Pervasive; Disseminated; Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
450	451														qt with pyrite					
				451.2				Black Shale – generally massive	graphitic						at base; qt or qt spider vein [illegible] 5W					
451	452																			
3 qt vein 450–451				85° to CA																
452	453																			
qt vein 450.2				20° to CA																
453	454														↓					
454	455														455.0 qt	pyrite		small fractures		
455	456							– occasional 1–2cm volcaniclastic SS – 2 horizons 455 – 455.5							qt + qt spider vein 5W					
456	457														↓	456–458 [illegible]				
457	458			457.6 / 457.8				1–2cm lepidolised ? volcaniclastic SS – green; 3cm volcaniclastic SS – green brown				457.8 / 458.0			qt/pyrite vein	? fault				
		sheared ground							graphitic											
458	459			457.6				CORE LOSS 0.9m												
459	460			459.5										459.7						
				460.1				qt vein ~10cm wide							460.4	selected [illegible] pyrite + shale				
460	461							Banded rock – brown + grey vfg SS + shale + black shale laminations ≠ volcaniclastic [illegible] or clastic sediment												
461	462											461.4 / 462.0			qt	qt veins 1mm multiple [illegible] CA; ? faults; also qt [illegible]				
462	463											463.1			↓					
463	464	35° to CA		463				CORE LOSS 0.3m; Banded rock – brown + grey vfg SS + shale + grey [illegible] volcaniclastic or clastic sediment												
464	465																			
465	466																			
467 70° to CA				466.5 / 467.0		qt vein														
466	467							467 – 467.15 qt/feldspar – 15cm wide							qt vein 15cm wide					
467	468		Broken ground					grey clastic or volcaniclastic vfg sandstone – occasional cm coarser horizons							qt					
468	469														↓					
469	470																			
470	471			470.5				qt vein ∠ll to CA + qt/lithic breccia; polymictic lithics, occasional flattened pumice, qt xls				470.5			qt	Intense [illegible] qt veins 3° to CA				
471	472			qt [illegible]				EOH = 472.0m (to be confirmed); Lithics include: grey, pink, cream with green ? phenocrysts, pink cracked rhyolite lava, brown lava, black phyric lava etc							↓	40 to 60°; fault 30° to CA				
472	473																			
473	474																			
474	475																			
475	476																			
476	477																			
477	478																			
478	479																			
479	480																			

Sunday vein

Broken ground up hole

min

UNITY MINING LTD

REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD040	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	24 Aug 2012
End of Hole (m):	339.5	**Drilling Completed:**	13 Sep 2012

Drill Hole Collar

		Comments
Surveyed By:	PDA Surveyors	Surveyed by GNSS differential GPS co-ordinate fixing
Survey Date:	01 Nov 2012	Reported 20 Nov 2012
Survey Datum:	Zone 55 GDA1994	Australian Height Datum (Tas) 1983
Survey Reference:	Trig Mark 232/171	Gog Hill (Class B Second Order)
Hole Collar Easting (m):	445980.5	
Hole Collar Northing (m):	5405144.6	
Hole Collar Height (m):	541.5	
Hole Collar Azimuth (GDA1994):	358.0	
Hole Collar Declination (deg):	62.0	

Drill Hole Surveys

		EDrill Australia		Comments
Surveyed By:				Ranger Discoverer electronic magnetic survey tool
Surveyed Data:	Depth (m)	Azimuth*	Decl.	*Raw magnetic azimuth +13.647 degrees
PQ to 20.6 metres	30.0	357.2	61.7	
	60.0	355.6	61.0	
	90.0	356.5	60.2	*No survey report sheet.
HQ to 92.9 metres	120.0	358.6	59.7	
	150.0	0.7	59.1	
	180.0	357.4	58.8	
	210.0	1.3	58.1	
	240.0	359.0	57.0	
	270.0	3.8	56.6	
	300.0	2.5	55.6	
NQ to 339.5 metres EOH	330.0	3.7	54.2	End of hole survey.

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REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD040	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	24 Aug 2012
End of Hole (m):	339.5	**Drilling Completed:**	13 Sep 2012

Hole Completion		Comments
Groundwater Intersected:	No	
Groundwater Controlled:	N/A	
Material Left In Hole:	Steel collar pipe	1.5 metres HWT pipe cemented in at surface
		UPVC casing installed in completed hole
Collar Condition:	Capped	Threaded steel cap spot welded onto collar pipe

Drill Hole Logging		Comments
Logged By:	A. Warren/D. Evans	Logged in hard copy graphical format
Base of Complete Oxidation (m):	1.9	Hole collared on excavated pad with rock fill
Base of Partial Oxidation (m):	18.3	
Summary:	Collar - 149.25 m	Oxidised to fresh coherent rhyolitic lava or intrusive
	149.25 - 254.35 m	Interbedded volcaniclastic sandstone & black shale
	254.35 - 303.4 m	Pumiceous lithic-rich volcaniclastic breccia
	303.4 - 339.5 m	Mixed sequence quartz crystal-rich volcaniclastic sandstone, conglomerate, black shale

Drill Hole Assays		Comments
Sample Type:	Half core	Sawn half HQ and NQ core samples
Assayed By:	ALS	Burnie Research Laboratory (Wivenhoe, Tasmania)
		Master pulp samples stored at Deloraine core shed
Peak Gold Assays:	4.09 g/t gold	1.0 m apparent width from 143.0 - 144.0 m
	2.64 g/t gold	Average for 3.0 m apparent width from 137.0-140.0 m
	1.06 g/t gold	Average for 20.0 m apparent width from 135.0-155.0 m
Other Significant Assays:	0.51 g/t gold	0.65 m apparent width from 157.35 - 158.0 m
	0.53 g/t gold	1.15 m apparent width from 168.85 - 170.0 m

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Graphical Drill Hole Log

Hole No.	FTD040	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	344.6 degrees (MGA94)		
Declination :	62.0 degrees		
Total Depth :	480.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by	P. Evans		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	24/08/2012 /09/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
0	1	CO						RUBBLE/CLAY, WITH CORE LOSS: COMPLETELY OXIDISED EXTREMELY WEATHERED DARK BROWN, YELLOW-BROWN,												
1	2	DEPTH LIMIT UNCERTAIN						FERRUGINOUS CLAY AND RUBBLE. PROBABLY ROCK FILL 1.9m CONTACT NOT RECOVERED FROM DRILL PAD,												
2	3	PO						RHYOLITE LAVA OR INTRUSIVE: PARTIALLY OXIDISED, STRONGLY WEATHERED, MODERATELY HARD, VERY												
3	4							BROKEN, MID YELLOW-BROWN, CLAYEY, COARSE-GRAINED QUARTZ-PHYRIC RHYOLITE. SCATTERED								COMMON BLACK-BROWN				
4	5							FINER 1-2mm PHENOCRYSTS (?) OF DARK GREEN CHLORITE PARTIALLY TO COMPLETELY ALTERED TO								Fe/Mn OXIDES COATING				
5	6	COARSE PORPHYRITIC						Fe OXIDES, AFTER FERRO-MAGNESIAN MINERAL.								FRACTURES AND JOINTS				
6	7	TEXTURE						GRADUALLY BECOMING MORE SOLID, LESS BLOCKY.												
7	8	PO																		
8	9																			
9	10							TENDING TO LESS OXIDISED, PINK-GREY,												
10	11							WITH 5-6mm QUARTZ PHENOCRYSTS AND PINK FELDSPAR GROUNDMASS.												
11	12	COARSE																		
12	13	PORPHYRITIC TEXTURE;																		
13	14	QUARTZ PHENOCRYSTS.																		
14	15	PO						PATCHY GREEN CHLORITE ALTERATION.												
15	16							GRADATIONAL INTO NEAR FRESH ROCK. HARD												
16	17	PO						TO VERY HARD, BROKEN TO VERY BROKEN.												
17	18	17.5m SLICKENSIDED FRACTURE/ JOINT			70°															
18	19	FR						DOMINANTLY FRESH ROCK FROM 18.3m. COMMON GREEN-BLACK ? BIOTITE PHENOCRYSTS;												
19	20							ABUNDANT LARGE 5-6mm QUARTZ EYE PHENOCRYSTS.												
20	21			PQ HQ	20.6m			WHITE-CREAM ?SPHENE REPLACING 1-2mm								OCCASIONAL				
21	22							ELONGATE FELDSPAR PHENOCRYSTS. TRACE WHITE ?CHALCEDONIC SILICA AS								FERRUGINOUS CLAY COATED				
22	23							MINUTE VEINLETS,								FRACTURES.				
23	24	VERY WEAK																		
24	25	FOLIATION/FLOW ALIGNMENT						THIN DISCONTINUOUS VEINLETS AND STRINGERS OF WHITE CARBONATE,												
25	26	OF PHENOCRYSTS IN PLACES						25.35m 15mm DIAMETER SUB-ROUNDED INTRACLAST/XENOLITH OF GREY-GREEN								SPARSE				
26	27	27.9m 2-6mm						PORPHYRITIC QUARTZ-PHYRIC RHYOLITE.								CHLORITE VEINLETS.				
27	28	CARBONATE VEIN + VEINLETS			16°											NO VISIBLE				
28	29							MID TO DARK GREEN CHLORITE ALTERATION OF GROUNDMASS.								SULPHIDE MINERALISATION				
29	30																			

BOCO = 1.9m

BOPO = 18.3m

MB fine micro carbonate s/v throughout volcanics throughout the hole to at least 205m.

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Hole No.	FTD040	Collar Location (GPS)	Graphical Drill Hole Log	Logged by	A Morris
Project :	EL 26-2004	East : 445975.00	Azimuth : 344.6 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower	North : 5405146.00	Declination : 62.0 degrees	Drill type	UDR200
Grid :	MGA94	RL : 537.00	Total Depth : 480.0m (planned)	Drill Date	24/08/2012 /09/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
								CONTINUED FROM 1.9m.												
30	31	FR						RHYOLITE LAVA OR INTRUSIVE : VERY HARD, TOUGH, SILICEOUS, IN PLACES VEINED, PORPHYRITIC, MID PINK-BROWN, GREEN-GREY, COARSE-GRAINED, QUARTZ-PHYRIC RHYOLITE.			/	/	/			SPARSE CLAY/ OCHREOUS Fe OXIDES AS THIN COATINGS ON JOINTS.				
31	32										/	/								
32	33																			
33	34																			
34	35																			
35	36																			
36	37																			
37	38																			
38	39																			
39	40																			
40	41																			
41	42																			
42	43																			
43	44																			
44	45																			
45	46																			
46	47																			
47	48																			
48	49											/		/	48.3					
49	50											/		/						
50	51											/		/						
51	52											/		/						
52	53											/		/						
53	54											/		/	54					
54	55														55.8					
55	56																			
56	57																			
57	58																			
58	59																			
59	60							qt vein 5cm, mantmoring, pink tinge												

59.38 56
-59.93

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Hole No. FTD040	Collar Location (GPS)	**Graphical Drill Hole Log**	**Logged by** A Warren
Project : EL 26-2004	**East :** 445975.00	**Azimuth :** 344.6 degrees (MGA94)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Declination :** 62.0 degrees	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	**Total Depth :** 480.0m (planned)	**Drill Date** 24/08/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	/09/2012

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
60	61																			
61	62								61.3 - 20cm [illegible]						1%	61.5 - 68 v broad [illegible] cb/qt				S/W
62	63	62.5 2mm qt/cb irregular & boudinaged.			20°				62.3 10cm yellow [illegible]											
63	64							↑												
64	65	63.5 vein a/a			= 20°			RHYOLITE LAVA, OR INTRUSION												
65	66	[illegible] qt/cb 65 1 a/a			= 35°			[illegible] qtz phenocrysts & pink tabular phenocrysts. Black phenocryst												
66	67							in a v fg glassy groundmass to feldspars occ glassy groundmass. Dark pink												
67	68		67.5 broken					tabular phenocryst is not always present. ↓												
68	69	broken 68	68.7									68.8-68.81 py			1%	in vug cb/qt 69-76 brecciation				S/W
69	70		69.5																	
70	71																			
71	72																			
72	73																			
73	74																			
74	75																			
75	76																			
76	77									/			/							
77	78							a/a coarser grained? Cb alt 77.6-77.6-77.7								[illegible] vein 77.6				
78	79											79.3-79.4				[illegible] in qt/cb vein py	1%	✓	✓	
79	80									/	/		- 79-79.5			qt/hm [illegible]				
80	81	// vein .5			0-15°			a/a coarser grained.			80-81.1				qt/cb/ch veins	to [illegible] S/W but [illegible]				
81	82				81.1			CORE LOSS												
82	83				82.5 / 83.0			volcaniclastic [illegible] equigranular ma volcanic/dolerite (or intrusion) 2 wide							55	pyrite				
83	84				83.2 / 83.8			CORE LOSS			83-83.2				qt/cb	pyrite in veins	1%			
84	85							rhyolite lava breccia - pbrown rock with clasts of dark grey volcanic with abtat feldspar phenocrysts			/				84.1	pyrite <1 / pyrite 2 in vuggy original cb		✓	✓	
85	86	So [illegible] bed 8 rock [illegible] volcanic.			38°			The lava is cracked & qt rhyolite. There are dark wisps / mafic phenocrysts.							85.2	py in 11.50 3mm [illegible]	1%	✓		✓
86	87																			
87	88																			
88	89																			
89	90																			

* Cb on textures after carbonate

— b broken contact

Younging in this hole is variable

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A. Warren

Graphical Drill Hole Log

Hole No. FTD040
Project : EL 26-2004
Prospect : Firetower
Grid : MGA94

Collar Location (GPS)
East : 446975.00
North : 5405146.00
RL : 537.00
Proj. MGA94 co-ords

Azimuth : 344.6 degrees (MGA94)
Declination : 62.0 degrees
Total Depth : 460.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by
Drilled by EDrill
Drill type UDR200
Drill Date 24/08/2012 /09/2012

Massive / Pervasive / Disseminated / Narrow vein

0.032 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization Assemblage	%	Veining	Disseminated	Pervasive
90	91						90.4	RHYOLITE LAVA honey brown, cracked siliceous qt phenocrysts of varying sizes in vfg glassy groundmass.												
91	92																			
92	93		SO 92.3	HQ 92.9m	35°		92.3	disrupted ribbons of honey-brown lava with d. grey lava/sediment ribbons												
93	94			NQ				RHYOLITE LAVA BRECCIA cracked siliceous Honey brown rock with occasional qt phenocrysts in vfg groundmass. Occ darker bands/mottles												
94	95		foliation 94.9		48°		94.8	RHYOLITE PUMICE BRECCIA foliated qt phenocrysts flattened green-grey clasts ?pumice												
95	96						95	RHYOLITE LAVA BRECCIA												
96	97						96	RHYOLITE LAVA BRECCIA qtz phenocrysts brown rock, pale brown												
97	98																			
98	99		qt vein 98.95													98.3-98.5 qt/cb vein	1	✓	✓	
99	100														?	99.8-100 vuggy qt vein - py	2	✓	✓	
100	101																			
101	102		qt vein 102		25°		101.3	RHYOLITE LAVA BRECCIA qt phenocrysts brown rock pale brown lithics, ?pumice fragments												
102	103		101.8 vuggy qt vein																	
103	104																			
104	105																			
105	106																			
106	107																			
107	108																			
108	109																			
109	110		1cm qt/Cb		41°										qt/cb 5%	py		✓	✓	
110	111																			
111	112																			
112	113			112.5				qt/cb veining RHYOLITE LAVA BRECCIA pale brown rock - siliceous, qt phenocrysts							qt/cb 80%	py		✓		
113	114																			
114	115	green		114				volcaniclastic SANDSTONE - grey, friable RHYOLITE LAVA BRECCIA pale brown-yellow rock, siliceous qt phenocrysts, dark lithics [illegible]			/					py		✓	✓	
115	116										/	/						✓	✓	
116	117										/						0.5	✓	✓	
117	118										/					disseminated [illegible]		✓	✓	
118	119						118.8									occ py [illegible]		✓	✓	
119	120							RHYOLITE LAVA BRECCIA brown, cut on for 120m+ description										✓	✓	

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Graphical Drill Hole Log

Hole No. FTD040	Collar Location (GPS)	**Azimuth :** 344.8 degrees (MGA94)	**Logged by** F. Warren
Project : EL 26-2004	**East :** 445975.00	**Declination :** 62.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 480.0m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00		**Drill Date** 24/08/2012 – /09/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062, 1/4, 1, 4, 16, 64 mm

From	To	Structure	Angle CA	Description	Mineralisation Assemblage	%
120	121			RHYOLITE LAVA BRECCIA. Pink to siliceous cracked rock with white qtz phenocrysts, occ. dk green grey phenocrysts, clear cracked qtz phenocrysts from about 125m + above 122.5m		
121	122					
122	123					
123	124	123.8 Qt/Cb vn	47°			
124	125	124.2 Qt/Cb	50°			
125	126					
126	127				py	1.5
127	128	127.4 qtz phenocryst cracked rock 127.4 – 127.6		127.4 RHYOLITE LAVA BRECCIA. Brown vein cracked rock with clear quartz phenocrysts	127.4 – 127.8 py	1.5
128	129				py	1.5
129	130				py	1.5
130	131	Broken / faulted		130.3 QUARTZ CRYSTAL LITHIC BRECCIA. Pale brown salt & pepper texture, qtz xls, grey & dark grey lithics – brown networked (? carbonate fixed) matrix	130.2 py	1.5
131	132	Qt/Cb vein 131.9	50°		131.3 – 131.4 vein, vuggy qt cb	0.5
132	133				131.8 – 132.2	20
133	134					
134	135				134.6 – 134.7 vuggy qt vein py	
135	136				irregular 135.5 – 135.8 py	10
136	137				136.8 – 137.2 py	1.0
137	138	137.3 – 137.4 Qt/Cb vn, qt/cb bx	10°		137.3 – 137.4 / 137.7 – 137.9	30 / 3
138	139	Qt/Cb 138.8	40°, 45° (irregular)	±40° veins anastomosing network, 25° one vein – 1/2cm	py blebs 139 – 138.3	1.1
139	140				139.0 abutting py blebs	
140	141	140.7		RHYOLITE LAVA BRECCIA. Cracked dark siliceous lava clasts, variably qt phyric & feldspar phyric. Variable amounts of dark grey matrix & dark microveining (? pyrite).	selective ? py as dark matrix	
141	142				pervasive & microveins	
142	143				selective	
143	144					
144	145				? py	
145	146	Qt/Cb vein @ 146m	49°	145.5 – 147.5 // qt/cb micro – 2mm veins	qt/cb – 3%	
146	147					
147	148					
148	149				dark intense	
149	150	149.25		Dark grey volcaniclastic sandstone/shale or volcanic breccia, feldspar ghost or alteration		

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Graphical Drill Hole Log

Hole No.	FTD040	Collar Location (GPS)	Logged by: A Warren
Project:	EL 26-2004	East: [illegible]	Drilled by: EDrill
Prospect:	Firetower	North: [illegible]	Drill type: UDR200
Grid:	MGA94	RL: [illegible]	Drill Date: 24/08/2012 /09/2012
		Proj.: MGA94 co-ords	

Azimuth : 344.6 degrees (MGA94)
Declination : 62.0 degrees
Total Depth :
Collar surveyed by: (reported / /2012)

Legend: Massive, Pervasive, Disseminated, Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1 / type 2 / Angle CA	Graphic structure / Log grainsize	Description	Alteration (Silica, Sericite, Albite, Carbonate, Calcite, Hematite)	Vein Qtz %	Mineralisation Assemblage	%
150 / 90	151 / 91				qt/Cb s/w 151-152.8.		qt/Cb 2%	2x1cm vein	
151 / 91	152 / 92				occasional vugs.	& within a 151-152	151.0 pink	py up adjacent to ... py blebs & veining	2%
152 / 92	153 / 93		152.8		VOLCANICLASTIC SANDSTONE or ash generally V/g, feldspar ..., intercalated LAVA BRECCIA	/ / /		py py blebs & veins	1%
153 / 93	154 / 94				yellow & pale brown & minor intercalated black shale	/ / /			1%
154 / 94	155 / 95		SO 154.6 24°		qt/Cb microveins, selective haem white alteration	/ / /		py.	1%
155 / 95	156 / 96			156.2					
156 / 96	157 / 97				RHYOLITE LAVA BRECCIA - dark grey rock with qt phenocrysts & lithics (or volcaniclastic rock)		py qt/cb	veins 1%; microveins	
157 / 97	158 / 98		157.35		? RHYOLITE LAVA BRECCIA pink cracked feldspar crystal siliceous network of black microveins (pyrite)				
158 / 98	159 / 99				and pyrite as massive veins & ... pyrite areas also in qt/Cb veins	/ /	qt/cb 5%	pyrite veins & blebs	5%
159 / 99	160 / 100		veins @ 159.4 50°		Qt/Cb veins micro - ½ cm wide.	/			5%
160 / 100	161 / 101			161.9 162.1	BLACK SHALE (OR LARGE CAST) laminated with p grey mm lams.	/			5%
161 / 101	162 / 102		SO 162.0 45°	162.0	VOLCANICLASTIC SS or ash - pink-pale brown f/g rock with V/f g felsic groundmass			py veins	2%
162 / 102	163 / 103				occ interbeds of d grey volcanic ss / black	/		py veins	2%
163 / 103	164 / 104				shale @ 162m - 15cm ... interbeds of p green volcaniclastic	/ /			2%
164 / 104	165 / 105		163.1		RHYOLITE LAVA BRECCIA cracked pink rock, siliceous, feldspars	/ /			2%
165 / 105	166 / 106			165.55	BLACK SHALE in part laminated	amorphous ... 165.8-166.0		pyrite massive	5%
166 / 106	167 / 107			166.5	volcaniclastic ss interbed - cream one pink volcaniclastic interbed has 1 cm pyrite = 166.8 BLACK SHALE - massive	166.1-166.3; 166-167	qt/cb s/w	a/a	10%
167 / 107	168 / 108			167.7 167.9	minor pink lava breccia bands BLACK SHALE - massive				
168 / 108	169 / 109			168.85	pink RHYOLITE LAVA BRECCIA - cracked siliceous f/g			pyrite	1%
169 / 109	170 / 110				RHYOLITE LAVA BRECCIA V/g, grainy ... cracked pink rock qt phenocrysts, feldspars	/ /		py (sw)	5%
170 / 110	171 / 111				Intense haematite/pink alteration massive pyrite veins forming stockwork veins to 3cm wide	/ /		py (sw)	5%
171 / 111	172 / 112		SO 172.6 57°	172.45 172.9	BLACK SHALE laminated, cream volcaniclastic ss interbeds. Younging up/H	/ /		py (sw)	5%
172 / 112	173 / 113			173.7	RHYOLITE LAVA BRECCIA - pink cracked rock, siliceous ..., occ qt phenocrysts, occ ... lithics	/ /			
173 / 113	174 / 114				BLACK SHALE - laminated in part one 10 cm lithic breccia interbed.				
174 / 114	175 / 115		SO 174.5 74° broken ground						
175 / 115	176 / 116		F	175.1	fault? - puggy contact broken. RHYOLITE LAVA BRECCIA - pink - p brown siliceous rock, cracked glassy groundmass	/ /	qt/Cb microveins	py -	2%
176 / 116	177 / 117		SO 177.6 65°	176.1	BLACK SHALE,	/ /	qt/cb	massive pyrite vuggy ... Cb & py	5%
177 / 117	178 / 118		SO 177.75 72° fault 178.0 65°	x fault	laminated in part pink volcaniclastic clasts (large). feldspar lam at bottom of interval = ?.50	178.0		pyrite ... in fault	
178 / 118	179 / 119				RHYOLITE LAVA BRECCIA or ... pink rock, qt ... varies to V/g	/ /		pyrite	1%
179 / 119	180 / 120				qt phenocrysts feldspars occ dark brown lithics grain size varies to V/g	/ /		pyrite	1%

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A. Warren

Graphical Drill Hole Log

Hole No. FTD040	Collar Location (GPS)	Azimuth : 344.6 degrees (MGA94)	Logged by A. Warren
Project : EL 26-2004	East :	Declination : 62.0 degrees	Drilled by EDrill
Prospect : Firetower	North :	Total Depth :	Drill type UDR200
Grid : MGA94	RL :	Collar surveyed by: (reported / /2012)	Drill Date 24/08/2012 – /09/2012
	Proj. MGA94 co-ords		

Massive / Pervasive / Disseminated / Narrow vein

From	To	Structure type 1	Angle CA	Log grainsize	Description	Alteration	Vein Qtz %	Mineralisation Assemblage	%
180	181					/ /		pyrite	1½
181	182					/ /		pyrite	1½
182	183					/ /		pyrite	1½
183	184	So 183.8	36°	183.60	BLACK SHALE			py	
184	185				laminated in part, ?feldspar rich layers		qt/Cb	py veinlets & micro veins	2
185	186						disseminated		2
186	187						3		2
187	188				occasional 2cm green volcaniclastic		3		2
188	189			188.1	lithic breccia or volcaniclastic ss; pale green-brown rock with d brown lithics; ? feldspar ghosts	/	qt/Cb	black micro pyrite; occ py vein 2mm	0.5
189	190			189.9	BLACK SHALE – laminated interlam volcaniclastic sandstone	/		pyrite	1
190	191	So 190.8	40°	190.1, 190.75	BLACK SHALE – lam interlam volcaniclastic ss; pink vfg volcaniclastic – feldspar ghosts	/ /			1
191	192			191.3, 191.75	BLACK SHALE – occ volcaniclastic bands; pink vfg volcaniclastic ss – brecciated texture at bottom	/ /	qt/Cb	intense py	5
192	193			192.9	5cm BLACK SHALE; volcaniclastic sandstone	/ /	qt/Cb	intense py	5
193	194	So 193.2	36°	193.1, 193.3	BLACK SHALE, 70% bands of L green volcaniclastic ss; ? volcaniclastic sandstone – pink, grey grains	Grades U/H – epidote		py	2
194	195			194.25	BLACK SHALE / occ bands of L green volcaniclastic ss; laminated at base of interval	/	qt/Cb		
195	196			195.3, 195.95	? volcaniclastic sandstone; BLACK SHALE laminated, laminar bands & vc		qt/Cb	py	1
196	197			196.2	? volcaniclastic sandstone pale green-cream; occ black shale interbeds			py	1 @ 196.0
197	198			197.75	pink rhyolitic breccia cracked siliceous	/ /	qt/Cb	veins	
198	199	198.7	40°	198.25	BLACK SHALE with aphyric vc interbeds – green & laminations 50%/50% overall	epidote		py	5
199	200					epidote		py	5
200	201					200.9–201	vein qt/Cb	py	3
201	202	So 202.0	33°			/		py (shale in grain)	5
202	203	So 203.0	7°		occ cracked pink siliceous? rhyolite intrusive.	/		py	5
203	204	So 203.6	18°	203.65	BLACK SHALE laminated			py	2
204	205	So 204.3	0–6°	204.35	Volcaniclastic SANDSTONE – thin bedded, pale green; laminated / BLACK SHALE 40%			py	2
205	206	So 205.0; So 206.0	7°; 0°		pink 10cm ? lava breccia 205.2 (or vc ss)			py	5
206	207	Qt vein 207.0	58°	206.2	? Rhyolitic lava breccia (or volcaniclastic sandstone) pink, siliceous, cracked, vfg	/	multiple thin veins qt/Cb	py	2
207	208			207.45	volcaniclastic sandstone or ash – well sorted, massive; pink fg 2 intervals within & pink cracked ? lava with feldspar phenocrysts 208.07–208.35	/		multiple ≤ 2mm wide qt veins 208	
208	209	Qt vein 208.8	48°	208.5	? Rhyolite lava breccia – pink cracked rock, ? qt phenos, feldspars, ? pumice, occ black shale clasts	/ 26	30 qt 9.0	chalcop in qt vein	
209	210	209.2			Volcaniclastic sandstone – pale brown, mg, ? pumice, lithics, feldspar	3	qt/Cb	no visible minerals	

1qt, quite well zoned; 209–209.3

206.0 Qt/Cb vein sub // to CA – 205.7 – 206.01 (8°, 72° d/h, b skioffs); 205.7

195.3–196.5 Cb alteration of volcaniclastic intervals within the black shale

209.35–210 – Broken qt Cb vein d/h ? 3° to CA with b skioffs x2 – vein cuts this interval

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Graphical Drill Hole Log

Hole No. FTD040	**Collar Location (GPS)**	**Azimuth :** 344.6 degrees (MGA94)	**Logged by**
Project : EL 26-2004	**East :** 445975.00	**Declination :** 62.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405146.00	**Total Depth :** 339.5m (confirmed)	**Drill type** UDR200
Grid : MGA94	**RL :** 537.00	Collar surveyed by: (reported / /2012)	**Drill Date** 24/08/2012 /09/2012
	Proj. MGA94 co-ords		

Legend: Massive, Pervasive, Disseminated, Narrow vein. Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Structure / Angle CA	Description	Alteration	Vein Qtz %	Mineralisation Assemblage	%
210	211	(Stricture @ 211.5)	Sandstone – grey, fg downhole, feldspar ?, qt well sorted (may be more than one event)		qt/Cb	py microvein	0.5
211	212	Qt/Cb vein – 211.7 10°			210.3–211.8 intense qt/Cb veins to 2cm		
212	213	multiple with micro offsets; Qt/Cb 212.5 52°; 212.05	Black shale – laminated, generally laminated at very low angle to core axis	Silica – /	qt/Cb	multiple microveins – several angles network	
213	214		Intense Qt/Cb/py stockwork 213.8–214 / –5% py	sw	qt/Cb	±py py	2
214	215	shear & Qt/Cb 214.5 30–50°; So 215.0 8°	213.8–215.0 qt/Cb vein – sub // to CA or very low angle with multiple ⊥ shears on one side of core – occ pyrite in these veins		↓		2
215	216						3%
216	217	Qt/Cb – ? fault 216.7 ⊥ shear 50°			sw 216.7		1%
217	218	So 218.0 10°; 217.88	one 2 cm pale green-grey vvv fg ss – volcaniclastic at 217.8			py 217.7 in vein	1%
218	219	So 219.0 5°; 218.80	Pale green grey sandstone 90% fg – vvf; laminated thin black shale interbedded laminations several cycles			py in vein	2%
219	220	219.40	Black shale (75%) & SS (25%) interbedded. Black shale – massive, occasionally banded (vaguely)	micro sw	qt/Cb	py	0.5 micro
220	221	Joint/fault 220.3 10° 38°		micro sw	qt/Cb	py	0.5 micro
221	222	So 221.8 14°; 221.7	Volcaniclastic ss interbedded pale green grey @ 221.7 m (5 cm thick). Black shale	micro sw	qt/Cb	± py py	3% below fault @ 220.3
222	223	222.18; 223.0	volcaniclastic ss (or ash) – pink fg rock generally massive, feldspars up to ½mm	/ /			
223	224		qt/feldspar/pumice/lithic breccia – foliated. Grey mottled brown/pink silicified				
224	225	So 224.2 (pink volc.) – 35°	cloudy qt feldspar, pumice 10 cm thick pink cloudy qt rich cracked glassy band @ 224.07 × cut foliation. Very crystal rich interval.	224.0			
225	226	226.0	rhyolite breccia – pink rock, qt feldspar occasional pumice, to finer grained glassy/jigsawed	/ /			
226	227			/ /			
227	228	1 cm Qt/Cb vein – 228.5 65°		/ /	qt/Cb	2x 1cm wide veins 228.5	
228	229			/ /			
229	230		qt/feldspar pumice rhyolite breccia, pink rock abundant pumice, foliated, qt feldspar, lithics	/ /			
230	231	½ Qt/Cb 70°		/ /			
231	232	Qt/Cb vein 232.5 70°		/ /			
232	233	foliation (pumice alignment) 232.5 CA 25°		/ /	qt/Cb	several 2cm veins	
233	234	foliation (pumice alignment) 233.8 41°		/ /			
234	235			/ /			
235	236			/ /			
236	237			/ /			
237	238			/ /			
238	239	1 cm 238.9 Qt/Cb vein 60°		/ /	239–239.5 several Qt/Cb veins		
239	240			/			

Left margin: not magnetic

223.0+ in this hole – – pumice is d greenish ? chloritized micro

221 & 221.7 possibly shallow angle 'puggy' fault

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Graphical Drill Hole Log

Hole No. FTD040	Collar Location (GPS)	**Logged by**	Massive
Project : EL 26-2004	**East :** 445975.00	**Drilled by** EDrill	Pervasive
Prospect : Firetower	**North :** 5405146.00	**Drill type** UDR200	Disseminated
Grid : MGA94	**RL :** 537.00	**Drill Date** 24/08/2012 /09/2012	Narrow vein
	Proj. MGA94 co-ords		

Azimuth : 344.6 degrees (MGA94)
Declination : 62.0 degrees
Total Depth : 339.5m (confirmed)
Collar surveyed by: (reported / /2012)

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering / Structure type 1 / Structure type 2	Angle CA	Description	Alteration	Vein Qtz % / Mineralisation Assemblage
240 (~~180~~)	241 (~~181~~)	Qt/Cb vein 240.5	50° / 75°	Qt feldspar pumice rhyolite breccia, foliated, abundant pumice, qt feldspar, occ with sd	/ /	multiple // mm Qt/Cb veins in 2 directions 240-240.5
241 (~~181~~)	242 (~~182~~)	Vague foliation - pumice alignment 241.8	38°		/ /	
~~242~~ (~~182~~)	~~243~~ (~~183~~)				/ /	
~~243~~ (~~183~~)	~~244~~ (~~184~~)				/ /	Qt/Cb 244.4-244.6 5 veins to 1cm wide
244 (~~184~~)	245 (~~185~~)	244.4 Qt/Cb vein	62°		/ /	
245 (~~185~~)	246 (~~186~~)	Qt/Cb vein 245.2	70°		/ /	Qt/Cb 245.2 - 1cm vein
246 (~~186~~)	247 (~~187~~)	Qt/Cb vein 246.9	56°		/ /	Qt/Cb 246.8-247.0 multiple mm veins
247 (~~187~~)	248 (~~188~~)	Qt/Cb vein 247.7	70°		/ /	Qt/Cb 247.6-248 multiple // veins mm zone ½cm
248 (~~188~~)	249 (~~189~~)	Vague foliation (pumice alignment) 248.5	27°		/ /	Qt/Cb - mm veins
249 (~~189~~)	250 (~~190~~)	Qt/Cb vein 250.0	53° / 73		/ /	249.8-250.5 Qt/Cb multiple veins to 1cm wide
250 (~~190~~)	251 (~~191~~)	250.65	65°	Sandstone - brown-grey, f-mg, even grained		Qt/Cb & grey Qt zone 251-251.6
251 (~~191~~)	252 (~~192~~)	So or fault 251.75; 251.75; 252.0		Fault @ 251.75 - ½cm pug - pale grey. Sandstone - pale green friable cg > mg d/h volcaniclastic	/	younging direction
252 (~~192~~)	253 (~~193~~)	So 253.4; 252.45	50°	Black shale & green volcaniclastic SS interbedded; volcaniclastic SS > sandstone m > vfg d/h. Black shale top, volcaniclastic horizons		
253 (~~193~~)	254 (~~194~~)	So 254.2	24°	Volcaniclastic sandstone (foliated at base) grading downhole. Black shale 253.6-253.8 - graphitic		
254 (~~194~~)	255 (~~195~~)	254.3	5°	Pumiceous lithic rich volcaniclastic breccia. V. foliated. Polymictic lithics vfg pale grey (shale), black shale, vfg dark grey (shale), qt crystals, feldspar [illegible]	/ ↑	254.8-254.9 10% Qt/Cb
255 (~~195~~)	256 (~~196~~)			carbonate cement in part. Rock is grey overall.	/	
256 (~~196~~)	257 (~~197~~)	Black shale (256.2-256.35)		This interval may represent more than one event	/	py in black shale [illegible]
257 (~~197~~)	258 (~~198~~)				/	
258 (~~198~~)	259 (~~199~~)	Foliation 258.5	41°		/	
259 (~~199~~)	260 (~~200~~)				/	
260 (~~200~~)	261 (~~201~~)	260.5			/	
261 (~~201~~)	262 (~~202~~)	261.5; 261.58		Shale - dark grey, mm at s/w.	/	5% Qt/Cb vein in black shale
262 (~~202~~)	263 (~~203~~)	263.35 2cm bl sh		Pumiceous, lithic rich volcaniclastic breccia. Foliated. Polymictic - dark grey volcanic with phenocrysts, vfg grey (shale), black shale, pale brown vfg (shale), pale brown ?volcanic with ?phenocrysts. Very poorly sorted - to 10cm clasts.	/	Qt/Cb veining
263 (~~203~~)	264 (~~204~~)				/	
264 (~~204~~)	265 (~~205~~)	So 264.3	44°		/	
265 (~~205~~)	266 (~~206~~)				/	
266 (~~206~~)	267 (~~207~~)				/	
267 (~~207~~)	268 (~~208~~)				/	
268 (~~208~~)	269 (~~209~~)	So 269.8	46°		/	
269 (~~209~~)	270 (~~210~~)	269.8		Black shale ½cm wide puggy contact with shale d/h on large clast. Dist to // to So		

269.8 - 270.00 - as for 270+ on page 10.

½cm black shale // foliation/So @ 263.35 & at 269.8

** So 252.3 = black shale with interbedded p green volcaniclastic SS
So — 20° to CA

Qt/Cb vein disrupted 251-251.6 & grey Qt (dominant) veins — vein orientation 35° to CA

251-253 - seds are clastic - volcaniclastic

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Graphical Drill Hole Log

Hole No.	FTD040	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	344.6 degrees (MGA94)		
Declination :	62.0 degrees		
Total Depth :	339.5m (confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by			
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	24/06/2012 /09/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								CONTINUED FROM:												
240	241							ALTERED QUARTZ-PHYRIC RHYOLITE LAVA/LAVA BRECCIA:												
241	242																			
242	243																			
243	244																			
244	245																			
245	246																			
246	247																			
247	248																			
248	249																			
249	250																			
250	251																			
251	252							251.75m												
252	253																			
253	254							254.0m												
254	255	COARSE TO VERY						PUMICEOUS, LITHIC-RICH VOLCANICLASTIC BRECCIA:												
255	256	COARSE FRAGMENTAL TEXTURES,						HARD, IN PATCHES VERY HARD, FREQUENTLY SOLID, VERY COARSE FRAGMENTAL TEXTURED, RARELY FOLIATED,								255.9-256.2m MINOR PY. AS STRINGERS AND AGGREGATES.				
256	257	GENERALLY WITH						MID CREAM-GREY, LIGHT GREY, MATRIX-SUPPORTED,												
257	258	RANDOM FABRIC						VERY COARSE-GRAINED, POLYMICTIC, QUARTZ												
258	259	ORIENTATION.						CRYSTAL PHYRIC, LITHIC-RICH VOLCANICLASTIC BRECCIA.												
259	260							~~WEAK SERICITE ALTERATION OF ASHY, SANDY MATRIX.~~												
260	261	261.25m						LOCALLY WEAKLY FOLIATED ?WELDED TEXTURES.								260.9m TRACE PY. AGGREGATES.				
261	262	SLICKENSIDED →			52°															
262	263	FRACTURE WITH CARBONATE FIBRE														262.7m SPARSE PY. AGGREGATES.				
263	264	GROWTH																		
263	264	263.3m WEAK FOLIATION →			40°			VERY LARGE, UP TO 80mm, SUB-ROUNDED CLASTS OF GREY SILTSTONE, OFTEN CUT BY WHITE CARBONATE												
264	265	LENTICULAR STRETCHED CLASTS						VEINS. ABUNDANT SUB ANGULAR RHYOLITIC LAVA CLASTS AND STRETCHED, LENTICULAR FRAGMENTS												
265	266							OF DARK GREEN GLASSY OR PUMICEOUS LAVA.												
266	267							WEAK WHITE CARBONATE VEIN/STRINGER												
267	268							OVERPRINT.												
268	269	269.85m CLAYEY																		
269	270	DUCTILE SHEAR 2-3cm →			48°															

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Graphical Drill Hole Log

Hole No.	FTD040	Collar Location (GPS)	
Project :	EL 26-2004	East :	445975.00
Prospect :	Firetower	North :	5405146.00
Grid :	MGA94	RL :	537.00
		Proj.	MGA94 co-ords
Azimuth :	344.6 degrees (MGA94)		
Declination :	62.0 degrees		
Total Depth :	339.5m (confirmed)		
Collar surveyed by:			(reported / /2012)
Logged by			
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	24/08/2012 /09/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 254-35m												
270	271	VERY WEAK FOLIATION,						PUMICEOUS LITHIC-RICH VOLCANICLASTIC BRECCIA: HARD, VERY SOLID, UNBROKEN, VERY COARSE FRAGMENTAL	/	'			'		½	NO VISIBLE SULPHIDE				
271	272	BECOMING MASSIVE,						TEXTURED, IRREGULARLY VEINED, MID GREY, VERY COARSE - GRAINED, MATRIX-SUPPORTED, POLYMICTIC,	'	'			'			MINERALISATION				
272	273	VERY COARSE FRAGMENTAL						QUARTZ-PHYRIC, DOMINANTLY VOLCANOMICT BRECCIA.	/	'			'		½					
273	274	TEXTURED WITH NO PREFERRED						NO DEVIOUS ALTERATION. SOME REACTION RIMS ON CLASTS. ABUNDANT RHYOLITE CLASTS, LESSER ALTERED		/										
274	275	FABRIC.						GLASSY GREEN VOLCANIC CLASTS, IN PLACES UP TO 40-50mm IN DIAMETER, SUB ANGULAR TO SUB ROUNDED,													
275	276							FREQUENTLY STRETCHED, LENTICULAR.	'	/					½					
276	277							IRREGULARLY ORIENTED WHITE TO CREAM QUARTZ + FELDSPAR VEINS, 2-5 cm THICK.		'	'				/					
277	278							OCCASIONAL PUMICLOUS FRAGMENTS, STRETCHED OUT, ELONGATE TO LENTICULAR.	'						/					
278	279	278.65m 3-4 cm → VEIN			35°			DEVITRIFIED ASHY SANDY TO CONGLOMERATIC GROUNDMASS WITH SUBHEDRAL QUARTZ PHENOCRYSTS.		/					/	278.65m PYRITE + ?MELNIKOVITE AGGREGATES IN CREAM CARBONATE VEIN (3-4 cm THICK)				
279	280							MINOR BLACK-GREY SILTSTONE CLASTS.		'					/					
280	281								/						/					
281	282	VERY COARSE								/										
282	283	FRAGMENTAL TEXTURES							'						/					
283	284	THROUGHOUT;								'										
284	285	RANDOM FABRIC.										'								
285	286							MASSIVE, EXTREMELY COARSE FRAGMENTAL		'										
286	287							TEXTURED, MATRIX SUPPORTED, STRONGLY POLYMICTIC, WITH LARGE (50-60mm) SUB-ROUNDED CLASTS				/				NO VISIBLE SULPHIDE				
287	288							OF RHYOLITE AND BLACK SILTSTONE, OCCASIONAL								MINERALISATION				
288	289							DEFORMED, STRETCHED CLASTS OF DEVITRIFIED PUMICE/GLASSY VOLCANIC. GENERALLY RANDOM		'		/								
289	290							FABRIC, LOCALLY WEAK FOLIATION. SOME CLASTS WITH THIN BLEACHED REACTION RIMS				'								
290	291								'											
291	292							TRACE TO SPARSE WHITE CARBONATE AS		'										
292	293							IRREGULAR STRINGERS.				/								
293	294								'											
294	295									'		/								
295	296								'											
296	297	296.9m SHEAR →			40°			296.9-297.15m BROKEN, CRUMBLY CORE; THIN DUCTILE SHEAR. INCREASED FRACTURING, VEINING				/								
297	298	297.4m BROKEN, POSSIBLE						TENDING TO FINER GRAINED WITH INCREASED	'		'	/			½	QUARTZ + FELDSPAR VEINING				
298	299	DUCTILE SHEAR						SANDY DEVITRIFIED GLASSY OR ASHY MATRIX.		'		/								
299	300									'		'								

UNITY MINING LTD

Hole No. FTD040 | Project : EL 26-2004 | Prospect : Firetower | Grid : MGA94

Collar Location (GPS) | East : 445975.00 | North : 5405146.00 | RL : 537.00 | Proj. MGA94 co-ords

Graphical Drill Hole Log

Azimuth : 344.6 degrees (MGA94) | Declination : 62.0 degrees | Total Depth : 339.5m (confirmed) | Collar surveyed by: (reported / /2012)

Logged by | Drilled by EDrill | Drill type UDR200 | Drill Date 24/08/2012 /09/2012

Massive | Pervasive | Disseminated | Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM												
300	301	MASSIVE TO WEAKLY						PUMICEOUS LITHIC-RICH VOLCANICLASTIC BRECCIA: HARD, SOLID, WEAKLY FOLIATED, BECOMING VEINED,		/										
301	302	FOLIATED, INCREASING						MID GREY, COARSE-GRAINED, PUMICEOUS, QUARTZ + LITHIC-RICH VOLCANICLASTIC BRECCIA TO CONGLOMERATE.		/		/								
302	303	VEIN OVERPRINT						MINOR WHITE CARBONATE STRINGERS AND VEINS INCREASING IN FREQUENCY. ASHY BANDS INCREASING.		/		/								
								303.4m SHARP PLANAR CONTACT/VEIN OVERPRINTED.		/		/			/					
303	304	IRREGULARLY						VOLCANICLASTIC SANDSTONE + SILTSTONE: HARD, SOLID,		/		/								
ORIENTED																				
304	305	BEDDING.						LOCALLY VEINED, MASSIVE, MID CREAM, LIGHT GREEN-GREY, FINE TO VERY FINE-GRAINED, VOLCANICLASTIC SANDSTONE		/		/					SPARSE PY. AS SPECKS + AGGREGATES			
								305.3m GRADATIONAL INTO SILTSTONE.		/		/								
305	306	306.0m						BLACK SHALE/MINOR SILTSTONE: HARD MODERATELY HARD,		/							COMMON			
		BEDDING →			18°			VEINED, WELL BEDDED, BLACK, VERY FINE-GRAINED,									5-7% PYRITE			
306	307							PYRITIC BLACK SHALE + GREEN-GREY SILTSTONE INTERBEDS									SO PARALLEL			
								307.3m SHARP UNDULATING CONTACT.		/							AGGREGATES			
307	308							FOLIATED QUARTZ CRYSTAL-RICH VOLCANICLASTIC		/		/					RARE TRACE			
		BLACK CHLORITE						SANDSTONE: HARD, SOLID, RARELY VEINED, WEAKLY TO	/	/	/						PY. AS THIN			
308	309	SPOTTING, AFTER ?BIOTITE						MODERATELY FOLIATED, LOCALLY ?WELDED, LIGHT TO												
								MID CREAM, MOTTLED LIGHT GREY, COARSE-GRAINED,		/		/					LENTICULAR			
309	310	?WELDED						QUARTZ + MINOR FELDSPAR SHARD-RICH, PUMICEOUS,			/	/					AGGREGATES			
		TEXTURE.						VOLCANICLASTIC SANDSTONE. FELSIC, RHYOLITIC TO		/							IN FOLIATION			
310	311	MODERATELY						DACITIC, WITH ABUNDANT STRETCHED QUARTZ AND				/								
		FOLIATED →			30°			DEVITRIFIED GLASSY VOLCANIC GRAINS. SPARSE		/										
311	312							QUARTZ + FELDSPAR VEINS, MINOR CARBONATE VEINS.				/								
								312.15-312.35m		/		/								
312	313	SHARP, VERY IRREGULAR DOWN HOLE CONTACT						THIN INTERBED OF BLACK SHALE.		/										
								SERICITISED, DEVITRIFIED ASHY MATRIX.		/		/								
								313.5m BROKEN AT CONTACT.		/										
313	314							BLACK SHALE/VOLCANICLASTIC SILTSTONE: MODERATELY				/					SPARSE PY			
		314.6m FINE BEDDING →			26°			HARD, BROKEN, VEINED, FINELY BEDDED, BLACK SHALE,		/							AS AGGREGATES			
314	315	CONTACT →			20°			315.05m SHARP FLAMMATE CONTACT, INCREASING SILTSTONE.		/		/					IN SHALE (SO PARALLEL)			
		VERY COARSE						FOLIATED LITHIC + QUARTZ-CRYSTAL RICH												
315	316	FRAGMENTAL TEXTURE						VOLCANICLASTIC CONGLOMERATE AND SANDSTONE:												
		316.85m 3cm						HARD, LOCALLY VEINED, VERY COARSE FRAGMENTAL				/								
316	317	DUCTILE FAULT			65°			TEXTURED, CREAM-GREY, PEBBLY, BECOMING SANDY.				/								
		CONTACT						316.9m												
317	318	CONTACT →			35°			DARK GREY, BLACK SILTSTONE TO SHALE INTERBED WITH		/		/					SPARSE PYRITE			
		SO						PUMICEOUS VOLCANICLASTIC CONGLOMERATE INTERMIXED.									AS STRINGER ON			
318	319	STREAKED						317.8m BEDDED CONTACT; THIN REACTION/ALTERATION									CONTACT.			
		MOTTLED						SELVEDGE.		/										
319	320	?ALTERATION																		
		TEXTURE.						HARD, MODERATELY HARD, VERY SOLID, STREAKED TO												
320	321	BECOMING						BEDDED, COMMONLY CONGLOMERATIC, LIGHT CREAM,												
		SANDY.						GREY-CREAM, MEDIUM TO VERY COARSE-GRAINED,				/								
321	322	322.1m						QUARTZ CRYSTAL-RICH, VARIABLY LITHIC RICH, LOCALLY												
		BEDDING →			25°			PUMICEOUS, VOLCANICLASTIC SANDSTONE TO												
322	323							CONGLOMERATE. DEVITRIFIED ASHY MATRIX SUPPORTED,												
								WITH WEAK SERICITE + CARBONATE ALTERATION.				/								
323	324											/					RARE TRACE			
324	325	COARSE FRAGMENTAL TEXTURES, PEBBLY.										/					PY. AS FINE SPECKS,			
325	326											/					AS OVERGROWTHS ON LITHIC CLASTS.			
326	327											/								
		327.4m →			34°			327.2-327.55m DARK GREY SILTSTONE INTERBED,												
327	328	BEDDING						MINOR WHITE CARBONATE VEINLETS AND STRINGERS.				/								
								FLAMMATE TO PLANAR CONTACTS.		/										
328	329							WELL BEDDED, WEAKLY SERICITE + CARBONATE				/								
329	330							ALTERED, CREAM, LIGHT GREY-CREAM, QUARTZ CRYSTAL SHARD-RICH VOLCANICLASTIC SANDSTONE.		/		/								

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Hole No.	FTD040	Collar Location (GPS)	**Graphical Drill Hole Log**	**Logged by**	
Project :	EL 26-2004	**East :** 445975.00	**Azimuth :** 344.6 degrees (MGA94)	**Drilled by**	EDrill
Prospect :	Firetower	**North :** 5405146.00	**Declination :** 62.0 degrees	**Drill type**	UDR200
Grid :	MGA94	**RL :** 537.00	**Total Depth :** 339.5m (confirmed)	**Drill Date**	24/08/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		/09/2012

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Vein/ Disseminated/ Pervasive
								CONTINUED FROM 315.05m										
330	331	330.0m BEDDING →			30°			CRYSTAL-RICH VOLCANICLASTIC SANDSTONE: HARD, SOLID, LAMINATED TO COARSELY BEDDED, IN PLACES		/		/				WHITE CARBONATE		
331	332							PEBBLY, LIGHT CREAM-GREY, MEDIUM-GRAINED, QUARTZ + FELDSPAR CRYSTAL-RICH, LITHIC PEBBLE		/		/				STRINGERS AND VEINLETS		
332	333							VOLCANICLASTIC SANDSTONE. SOME PUMICE CLASTS. 333.05m SHARP PLANAR (BEDDED) CONTACT.		/		.						
333	334	VEINED CONTACT.						BLACK SHALE: MODERATELY HARD FOLIATED, BROKEN, INITIALLY SILTY, VERY FINE-GRAINED, PYRITIC.				/			2%	MINOR PY. QUARTZ VEINS AT CONTACT		
334	335							FOLIATED VOLCANICLASTIC CONGLOMERATE AND SANDSTONE: HARD, MODERATELY HARD, INITIALLY COARSE		/								
335	336	335.1m BEDDING →			32°			FRAGMENTAL TEXTURED, BECOMING SANDY, LIGHT TO MID CREAM-GREY, VERY COARSE-GRAINED TO FINE-		/		/				TRACE PY. AS BLEBS IN		
336	337	336.5m 4-5cm CARBONATE VEIN.			25°			GRAINED, LITHIC RICH, QUARTZ + FELDSPAR CRYSTAL VOLCANICLASTIC; WEAKLY SERICITISED ASHY MATRIX		/		//				SOME LITHIC CLASTS;		
337	338							ABUNDANT THROUGHOUT. ABUNDANT TO SCATTERED, POLYMICTIC LITHIC CLASTS, UP TO 20-30mm IN DIAMETER,		/		/				OVERGROWTHS		
338	339							AND ALTERED GLASSY VOLCANIC SHARDS. 338.7-339.05m BLACK SHALE INTERBED; MINOR PYRITE IN CARBONATE VEINLETS PARALLEL TO BEDDING.		/						339.2m MINOR PY + TRACE CPY.		
								339.5m		/		/						
339	340							EOH = 339.5m (confirmed)										
340	341																	
341	342																	
342	343																	
343	344																	
344	345																	
345	346																	
346	347																	
347	348																	
348	349																	
349	350																	
350	351																	
351	352																	
352	353																	
353	354																	
354	355																	
355	356																	
356	357																	
357	358																	
358	359																	
359	360																	

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REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD041	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	20 Sep 2012
End of Hole (m):	409.1	**Drilling Completed:**	17 Oct 2012

Drill Hole Collar

		Comments
Surveyed By:	PDA Surveyors	Surveyed by GNSS differential GPS co-ordinate fixing
Survey Date:	01 Nov 2012	Reported 20 Nov 2012
Survey Datum:	Zone 55 GDA1994	Australian Height Datum (Tas) 1983
Survey Reference:	Trig Mark 232/171	Gog Hill (Class B Second Order)
Hole Collar Easting (m):	446241.0	
Hole Collar Northing (m):	5405354.4	
Hole Collar Height (m):	647.2	
Hole Collar Azimuth (GDA1994):	223.00	
Hole Collar Declination (deg):	61.00	

Drill Hole Surveys

		EDrill Australia		Comments
Surveyed By:				Ranger Discoverer electronic magnetic survey tool
Surveyed Data:	Depth (m)	Azimuth*	Decl.	*Raw magnetic azimuth +13.647 degrees
PQ to 17.7 metres	20.0	219.3	62.1	
	30.0	218.4	62.0	
	60.0	221.4	61.5	*Magnetics affected; azimuth smoothed.
HQ to 68.9 metres	90.0	224.4	61.1	
	120.0	223.1	60.5	
	150.0	223.6	60.8	
	180.0	224.8	59.8	
	210.0	226.6	58.3	
	240.0	227.9	57.4	
	270.0	226.4	56.1	
	300.0	229.6	55.5	
	360.0	228.4	53.4	
	390.0	227.7	52.3	
NQ to 409.1 metres EOH	409.0	228.8	51.8	End of hole survey.

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REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD041	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	20 Sep 2012
End of Hole (m):	409.1	**Drilling Completed:**	17 Oct 2012

Hole Completion		Comments
Groundwater Intersected:	No	
Groundwater Controlled:	N/A	
Material Left In Hole:	Steel collar pipe	3.0 metres HWT pipe cemented in at surface
		UPVC casing installed in completed hole
Collar Condition:	Capped	Threaded steel cap spot welded onto collar pipe

Drill Hole Logging		Comments
Logged By:	A. Warren/D. Evans	Logged in hard copy graphical format
Base of Complete Oxidation (m):	0	Not obvious; collared on excavated pad with rock fill
Base of Partial Oxidation (m):	18.4	
Summary:	Collar - 111.7 m	Oxidised to fresh pumiceous lithic-rich volcaniclastic
	111.7 - 146.1 m	Interbedded lithic-rich sst, pumice breccia, black shale
	146.1 - 186.55 m	Carbonate altered pumiceous volcaniclastic breccia
	186.55 - 202.3 m	Interbedded black shale & volcaniclastic sandstone
	202.3 - 257.55 m	Rhyolitic volcaniclastic breccia, black shale interbeds
	257.55 - 339.1 m	Laminated black shale with ashy sandstone interbeds
	339.1 - 372.4 m	Rhyolitic lava breccia, minor siltstone-shale
	372.4 - 409.1 m	Variably altered porphyritic quartz-phyric rhyolite (FW)

Drill Hole Assays		Comments
Sample Type:	Half core	Sawn half HQ and NQ core samples
Assayed By:	ALS	Burnie Research Laboratory (Wivenhoe, Tasmania)
		Master pulp samples stored at Deloraine core shed
Peak Gold Assays:	0.99 g/t gold	Average for 2.0 m apparent width from 180.0-182.0 m
Other Significant Assays:	0.73% zinc/	Average for 18.0 m apparent width from 238.0-256.0 m
	0.21% lead	

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)		**Logged by**	A. Warren
Project :	EL 26-2004	**East :**	446230.00	**Drilled by**	EDrill
Prospect :	Firetower	**North :**	5405359.00	**Drill type**	UDR200
Grid :	MGA94	**RL :**	547.00	**Drill Date**	20/09/2012 /10/2012
		Proj.	MGA94 co-ords		

Azimuth : 223.0 degrees (MGA94)
Declination : 61.0 degrees
Total Depth : 450.0m (planned)
Collar surveyed by: (reported / /2012)

Legend: Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Description	Alteration (Silica, Sericite, Albite, Carbonate, Chlorite, Hematite)	Vein Qtz %	Mineralisation Assemblage
0	1					?pumiceous crystal lithic volcaniclastic sandstone as for 19.9+	Brown		
1	2					Not obviously foliated	?black on joints		
2	3					2.3 CORE LOSS 3.0			
3	4					?pumiceous crystal lithic volcaniclastic sandstone as for 19.9m+	Brown-black on joints		
4	5					not obviously foliated			
5	6					0-50 - variably magnetic max. 38.1 - generally 20s (?boulder-type reading)			
6	7								
7	8								
8	9								
9	10								
10	11	?magnetic BOPO							
11	12	BOCO [illegible]							
12	13						red on joint @ 13m		
13	14								
14	15						14.0-16.0 limonite/goethite on joints		
15	16								
16	17						red on joints @ 16.4-16.5		
17.7m		END PG							
17	18	START HQ							
18	19					18.7			
19	20					CORE LOSS 19.9			
20	21					?pumiceous crystal dark grey Lithic Volcaniclastic Sandstone grey generally coarse grained			calcite (fizzes) [illegible] vein, [illegible]
21	22					feldspar-packed, subordinate qtz, polymictic lithics include dark brown [illegible] (calcite 21.33)			
22	23					qtz phyric volcanic (?pumice - sometimes with wispy edges) & grey shale/chert			
23	24					lithics pale brown little matrix but ?dacite matrix grainsize variation indicate			
24	25					different events ?magnetite [illegible]			
25	26					not obviously foliated			
26	27								
27	28					27-33m - goethite/limonite on joints.			
28	29								
29	30								

BOCO = not obvious
BOPO = 18.40m

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Hole No.	FTD041	Collar Location (GPS)		Graphical Drill Hole Log	Logged by	A. Warren
Project :	EL 26-2004	East :	446230.00	Azimuth : 223.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower	North :	5405359.00	Declination : 61.0 degrees	Drill type	UDR200
Grid :	MGA94	RL :	647.00	Total Depth : 450.0m (planned)	Drill Date	20/09/2012
		Proj.	MGA94 co-ords	Collar surveyed by: (reported / /2012)		/10/2012

Log grainsize: 0.062 1/4 1 4 16 64 mm

Mineralization: Massive / Pervasive / Disseminated / Narrow vein

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration (Silica, Sericite, Albite, Carbonate, Chlorite, Hematite)	Vein Qtz %	Mineralisation Assemblage	%	Veining / Disseminated / Pervasive
30	31							? pumice ... crystal Lithic Volcaniclastic Sandstone cont'd as for 19.9m	calcite (fingers, stringers) veins + cement				
31	32												
32	33							32-3.6m – v coarse feldspar-phyric pumice clasts eg to 8cm across.					
33	34												
34	35	qt/Cb	34.5		57°			minor foliation @ 34.4m.		15	34.3-34.7 multiple veins to 3cm qt/Cb		
35	36							V. magnetic 38.1 @ 35-36m					
36	37												
37	38												
38	39												
39	40												
40	41												
41	42												
42	43												
43	44												
44	45												
45	46												
46	47												
47	48												
48	49												
49	50						49.9	Siltstone/shale – dark grey, locally laminated, occasional bands of grey mg-fg lithic volcaniclastic sandstone					
50	51	50	51.5		47°								
51	52						51.7	Lithic	51.6	Qt/Cb vein	containing py or chalco (? texture)		
52	53												
53	54												
54	55	Contact @ 54.5			5°		54.1 54.5 54.9	Fault / Mylonite zone – heavily calcite veined with lithics, vc ss lithic ss – intrusion to grey lithics. 54.9-55m – slightly pink tinged large disrupted calcite vein or clast dark grey volcaniclastic lithic ss large			chalco in qt/Cb vein or ? arsenopyrite ? marcasite @ 54.5		
55	56	56.0	low angle		5°			55.7-56.2 – dark / low angle to CA – grey polycrystalline? calcite (fingers widely)					
56	57	56.5 low angle with calcite						Dark grey qt, feldspar lithic volcaniclastic ss f-mg, poorly sorted, polymictic			Py (probably intermittently in this sequence)	0.1	
57	58												
58	59	58.5 low angle											
59	60	59.1 59.7 low angle											

feldspar phyric 55.07 10cm of grey volcanic with abt dark grey phenocrysts / pumice & pumice clasts – or could be a large clast.
(rare)

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Hole No.	FTD041	Collar Location (GPS)	Graphical Drill Hole Log	Logged by	A Warren
Project :	EL 26-2004	East : 446230.00	Azimuth : 223.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower	North : 5405359.00	Declination : 61.0 degrees	Drill type	UDR200
Grid :	MGA94	RL : 647.00	Total Depth : 450.0m (planned)	Drill Date	20/09/2012 /10/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 15 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
60	61	60	B	low angle				60.0 fg lithic d grey VC 60-60.11												
								60.35 coarse sandstone V c-ss. qt feld lithics (60.1-60.35)												
								- dgrey volcaniclastic ss f-mg												
61	62							61.0 coarse or sharp basal contact? B) (61-61.3)												
								61.3 mg dgrey VC ss (61.3-61.6)												
								61.6 cg d grey VC ss (61.6-62)												
62	63							VCg-conglom lithic volcaniclastic ss (62-62.5)												
								f-mg dgrey volcaniclastic ss (62.5-63.85)												
63	64							some coarser intervals within it.												
								63.85 - 64.15 V coarse ss/ conglomerate grade d/h.												
64	65				?			↓ B												
								64.3 - 64.9 m coarse grained ss coarsening d/h.												
65	66	So	65.8		68°			generally fg - dgray siltstone - Vfg VC sandstone occ banded, laminated, occ dgyshale, occ p												
		So	66.2		38°			shale/ash interbeds.												
66	67		mss					66.7												
67	68							V coarse grained lithic ss - conglomeratic												
68	69																			
								69.3												
69	70	So	69.9		45°			m-coarse grained lithic ss. occ p grey clasts coarsening d/h.												
								70.5												
70	71							Vcg - conglomeratic qt feldspar lithic volcaniclastic												
								71.2												
71	72							mg o m-cg qt feldspar/lithic volcaniclastic												
								72.1												
72	73							sequence of m-cg volcaniclastic sandstone												
73	74							& Vcg - conglomeratic volcaniclastic ss												
								base of top of events often indistinct												
74	75							- qt feldspar lithic volcaniclastic sandstone												
								cloudy qtz d grey												
75	76																			
76	77																			
77	78																			
78	79																			
79	80																			
80	81																			
81	82																			
82	83																			
83	84																			
84	85																			
85	86																			
86	87																			
87	88																			
88	89																			
89	90																			

*d/h after mylonite @ 54.5m -- ss lithics do not contain the block feldspar prgic volcanic/pumiceous rock until 134.0m

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords
Azimuth :	223.0 degrees (MGA94)		
Declination :	61.0 degrees		
Total Depth :	450.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by	D. Warren		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	20/09/2012 /10/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Mineralisation: Veining	Disseminatio Pervasive
90	91																		
91	92																		
92	93																		
93	94																		
94	95	So	95.3		10°		94.7	siltstone/shale - dark grey laminated in part.											
95	96						95.3	qt/feldspar ± lithic volcaniclastic ss m-cg.							n/a				
96	97																		
97	98						98.0												
98	99						98.5	very fg sandstone - siltstone - dg grey qt feldspar ± lithic volcaniclastic ss m-cg.											
99	100						100.3												
100	101						100.6	very fg sandstone - siltstone - dark grey qt/feldspar ± lithic volcaniclastic ss								py	0.1	V	
101	102						101.0	dark grey siltstone - v fg ss.											
102	103						101.7	lgyt feldspar lithic volcaniclastic sandstone grain size variation mg → cg throughout.											
103	104																		
104	105																		
105	106																		
106	107																		
107	108																		
108	109	Very broken ground																	
109	110						110.2												
110	111						110.8	grey shale/siltstone. VC ss a/a for 101.7-110.0.											
111	112						111.7	CORE LOSS (111.7-112.5)											
112	113	grey vfg ss					112.5	grey pug (112.7-112.8)											
113	114	volcaniclastic sandstone					112.8	CORE LOSS (112.8-113.5)											
		coarse					113.5												
							113.9	± grey pug (113.9-114.0)				✓							
							114.0	CORE LOSS (114.0-115.7)											
114	115																		
115	116	volcaniclastic ± lithic ss					115.7					✓							
							116.2	3 dgy/tred mottled shale - v distinctive rock.				✓							
116	117						116.7												
117	118							grey qt3 - feldspar lithic volcaniclastic sandstone				✓							
118	119						118.9	CORE LOSS (118.9-119.5)				✓							
119	120						119.5	volcaniclastic ± lithic sandstone - cg.				✓							

NB not well logged 50-109 in VC areas.

Summary 0 - ≈50m pumiceous cg VC.
≈50 - 109m volcaniclastic lithic ss - conglom varying grainsize

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Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords

Graphical Drill Hole Log

Azimuth : 223.0 degrees (MGA94)
Declination : 61.0 degrees
Total Depth : 450.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by A. Warren
Drilled by EDrill
Drill type UDR200
Drill Date 20/09/2012 /10/2012

Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining Disseminated Pervasive
120	121							Volcaniclastic xl lithic sandstone cg.				/						
121	122						121.4 121.8	pug - grey (121.4 - 121.8) pug. CORE LOSS (121.8 - 122.3)										
122	123						122.3	mylonite zone										
123	124						123.5	grey volcaniclastic sandstone.										
124	125						124.35	grey pug/mylonite zone.										
125	126						125.45	grey shale										
126	127	vfg grey lithic ss.					126.6	126.1 - 126.2. grey pug. pug - 2cm @ (126.58 - 126.6) CORE LOSS (126.6 - 127.3)										
127	128						127.3	grey sandstone, vfg. minor coarser volcaniclastic horizons.										
128	129						128.3 128.5	CORE LOSS (128.3 - 128.5)										
129	130	S0 129.9			50°			m grey siltstone & vfg ss. & shale - rare mm black shale interlaminations, all mid grey & probably clastic.										
130	131																	
131	132	S0 131.9			26°													
132	133						133.0											
133	134						133.5 134.0	Black shale. vfg sandstone - pale brown/beige										
134	135	foliation sub// 134.3						Pumiceous lithic volcaniclastic breccia - p grey, grey v foliated.				/						
135	136	foliation 135.8			31°			calcite				/			fizzes strongly with HCl			
136	137											/						
137	138											/						
138	139						139.00					/						
139	140						139.2 139.5	CORE LOSS (139.2 - 139.5). grey shale & vfg sandstone - clastic										
140	141						140.9	Becoming brecciated @ 140.7 d/h.										
141	142	broken ground					141.2 141.5	'pug' 141.2 - 141.5. p grey & d grey pug & brecciated rock. Vfg grey sandstone - clastic										
142	143						142.6	142.6 - pug 142.6 - 142.7 ss - as above. grey pumiceous volcaniclastic ss										
143	144						143.3 143.7 144.0	CORE LOSS (143.3 - 143.7) grey pumiceous volcaniclastic ss										
144	145						144.8	pug/mylonite zone - cream to pale grey 144 - 144.8.										
145	146	S0 145.8 - 146 grey sandstone					145.8 146.0 146.2	shale - pale grey, occ black shale interlaminations banded up 144.8 - 145.8, almost porcellaneous in parts. Black shale/siltstone 146.0 - 146.1. Pumiceous lithic volcaniclastic										
146	147							breccia. - pale grey foliated										
147	148							polymictic lithics include p grey grey, d grey (shale) & black volcanic/pumice with phenocrysts of ? qt ? feldspar, clast										
148	149	St foliation 149.0			44°			supported white matrix - carbonate mildly foliated. chloritized fragments										
149	150							within it.										

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Graphical Drill Hole Log

Hole No. FTD041	Collar Location (GPS)	**Azimuth :** 223.0 degrees (MGA94)	**Logged by** A. Warren
Project : EL 26-2004	**East :** 446230.00	**Declination :** 61.0 degrees	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405359.00	**Total Depth :** 450.0m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 647.00	**Collar surveyed by:**	**Drill Date** 20/09/2012 /10/2012
	Proj. MGA94 co-ords	(reported / /2012)	

Legend: Massive; Pervasive; Disseminated; Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
150	151							Pumiceous, lithic volcaniclastic breccia. pale grey foliated												
151	152							polymictic lithics – pale grey shale grey, dgrey, black volcanic/pumice with phenocrysts of ? feldspar, qt, clast supported,												
152	153							white matrix ? carbonate												
153	154																			
154	155																			
155	156	mod foliation 155.4			54°															
156	157																			
157	158						157.8	Broadly Banded rock Grey 60% pumiceous lithic breccia												
158	159							and grey ? pumiceous lithic breccia 40% Banded on 20cm scale												
159	160																			
160	161	160–160.05 fracture // CA.													160.8–161 Qt/Cb SW					
161	162						161.3	pumiceous, lithic volcaniclastic breccia, foliated pale brown, pale cream brown				/				py on [illegible] qt/Cb vein	0.5	✓		
162	163											/					0.5	✓		
163	164											/				fracture [illegible] 163.4				
164	165											/				py	?0.1			
165	166											/				py	?0.1			
166	167											/								
167	168											/								
168	169											/								
169	170											/								
170	171											/				py ~ qt/Cb	0.5	✓		
171	172						172					/				171.5 py in qt/Cb [illegible]	0.5	✓		
172	173						172.3 / 172.95	BLACK SHALE – / Grey m–cg volcaniclastic sandstone				/			Qt/Cb	py S/W 172–172.3 mod [illegible]	5	✓		
173	174	173.1 qt/Cb			12°			BLACK SHALE – laminated. / pale green m–cg volcaniclastic ~~interbed @ 194.2 + trace on sample @ 194.4~~				/				py* 172.9–172.95	20	✓		
174	175	So 174.5 –			39°		174.5	pale green-grey volcaniclastic sandstone				/			Qt/Cb +	173.3–174.05 py S/W	10	✓		
175	176						175.7	BLACKSHALE interbed 3cm wide / vuggy mineralised qt/Cb textured veins →				/				py 175.6–175.7	10	✓		
176	177						176.4 / 176.5	pale green-grey mg volcaniclastic sandstone. / CORE LOSS / pgreengrey vc ss				/				py in qt/Cb vuggy veins	1	✓		
177	178						177.5	177.4–177.5 10cm black shale / [illegible]				/					1	✓		
178	179							pale green-grey volcaniclastic ss cg: qt feld lithics variable				/					1	✓		
179	180							grain size				/					1	✓		

172.3–173 – disseminated pyrite (photo) (173.1 – plane [illegible] // qt/Cb S/W) qt-Cb-banding vein

Qt/Cb/±py SW 172.95–173.1 –

py* massive at contact bet vc ss and black shale associated with qt/Cb veining.

not magnetic

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Hole No. FTD041 | Collar Location (GPS) | Graphical Drill Hole Log | Logged by A. Warren | Massive

Project : EL 26-2004 | East : 446230.00 | Azimuth : 223.0 degrees (MGA94) | Drilled by EDrill | Pervasive

Prospect : Firetower | North : 5405359.00 | Declination : 61.0 degrees | Drill type UDR200 | Disseminated

Grid : MGA94 | RL : 647.00 | Total Depth : 450.0m (planned) | Drill Date 20/09/2012 /10/2012 | Narrow vein

Proj. MGA94 co-ords | Collar surveyed by: (reported / /2012)

0.063 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated/ Pervasive
180	181	qt/cb/pyrite vuggy									7913		pr/cb		180.8	qt/cb/py vuggy vein			
181	182																		
182	183																		
183	184																		
184	185																		
185	186																		
186	187						186.55	BLACK SHALE - laminated, occasionally banded											
187	188																		
188	189	So 189.0			30°														
189	190																		
190	191																		
191	192	So 191.5			38°		192.0	graded d/h @ 191.6.											
192	193						192.5	BLACK SHALE pale green volcaniclastic shale/ss interbeds 40%											
193	194	p grey vcss coalt					193.7	BLACK SHALE/volcaniclastic ss d p grey 20% volcaniclastic ss								qt/cb/py vuggy vein @ 194.0			
194	195						194.37	d grey volcaniclastic ss - feldspar											
195	196	So 196.1			28°			Volcaniclastic sandstone pale green brown, qt, feldspar lithics m-cg SS, vague laminations, flattened appearance											
196	197																		
197	198						197.25	BLACK SHALE (5cm)								black in shale qt/cb+py sw			
198	199	So 198.4			22°		198.4	Volcaniclastic lithic SS - pale green-grey BLACK SHALE - 5cm											
199	200	So 200.1			10°		199.4	Volcaniclastic sandstone pale green BLACK SHALE (5cm) 197.7-198.75 shale/SS p green volcaniclastic crush - banded BLACK SHALE (10 cm)											
200	201						200.9	shale/SS - Volcaniclastic crush - p green - banded BLACK SHALE 10 cm 200.0 - 200.1 Volcaniclastic sandstone - crush, p grey - banded											
201	202	So 201.5			22°		201.5	BLACK SHALE 32cm p grey VC laminated Volcaniclastic ss crush - p green, banded Black Shale 5cm 201.5-201.55							201.4-201.5	py	10	✓	VC vnt
202	203						202.3	Vcss 5cm 201.55-201.8 Black Shale 202.5-202.8 Vcss with one 10cm black shale interval 202.1-202.3 - BLACK SHALE volcaniclastic											
203	204						203.3	Volcaniclastic breccia slightly								cvss			
204	205							pumiceous lithic, to m-cg pale brown, pale grey.								204.7			
205	206																		
206	207																		
207	208							probably more than one event											
208	209	So 208.8			35°														
209	210																		

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Graphical Drill Hole Log

Hole No.	FTD041	**Logged by**	A. Warren
Project:	EL 26-2004	**Drilled by**	EDrill
Prospect:	Firetower	**Drill type**	UDR200
Grid:	MGA94	**Drill Date**	20/09/2012 – /10/2012
Collar Location (GPS)	East: 446230.00; North: 5405359.00; RL: 647.00; Proj. MGA94 co-ords		
Azimuth:	223.0 degrees (MGA94)		
Declination:	61.0 degrees		
Total Depth:	450.0m (planned)		
Collar surveyed by:	(reported / /2012)		

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Angle CA	Description	Vein Qtz %	Mineralisation Assemblage	%
210	211			Volcaniclastic breccia slightly pumiceous lithic; pale brown, cream, grey, occ mid grey	Qt/Cb vein	py	2
211	212					py	1
212	213			probably more than one event.		py	1
213	214			213-213.1 Vuggy qt vein with pyrite	? qt/Cb s/w		
214	215				to 10%		
215	216						
216	217			RHYOLITE VOLCANICLASTIC BRECCIA			
217	218			217.5 Vuggy veins qt/Cb with pyrite			
218	219			218.0 qt/Cb vein with pyrite masses in qt			
219	220			219.3-219.4 black mm veins ? sulphide plus mm pyrite veins	219.5 Cb/qt s/w	py	
220	221			qt xls, lithics mid grey, haematite bearing vein haematite veins at top of interval 221.9 dom? red after pyrite!		? py	
221	222			221.7 pyrite veining		py	
222	223			222.0–222.2 Brown muddy fill. ? Rhyolite Volcaniclastic Breccia	qt/Cb		
223	224			grey mid grey, heavily carbonate altered in part – veining, → pale brown			
224	225			selective haematite alteration @ 224.0		py (223-223.5)	5
225	226			approx 223-223.8 foliated interval with pumice			
226	227	qt/Cb/py vein 226.3	?	226.3 vuggy qt/Cb/pyrite vein ½ cm wide		226.8 vugs, blebs	
227	228					py blebs	
228	229			229-231 – see haematite (pink) in veins & patches.	qt/Cb s/w 10%	228.6 py qt/Cb	
229	230						
230	231	probably more than one event 222-226					2
231	232			Rhyolitic qt lithic breccia; qt phenocrysts, occ black shale lithics, occ ? pumice			
232	233						
233	234			very yellow carbonate 232-235 col ½ yellow ½ grey			
234	235			& ? haematite veining			
235	236	Qt/Cb vein	68°	236-236 Intense ? gypsum & other veins & qt/haematite vein at high angle to CA.	qt/Cb s/w	haematite, black micro mm veins	
236	237	50? 236.5	52°	? SHALE - grey ? (v fg silver alteration or ? sulphide – 236-236.5)		py	
237	238	foliated 237.5	40°	Brown v fg v altered rock ? lithic pumice breccia –		236-236.5 black ? fine py	2
238	239			silver sulphide bleb at 236.6		also black ? py	2
239	240					pyrite chalco	1

Margin notes: ← Not Magnetic →; py blebs; **

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords

Azimuth : 223.0 degrees (MGA94)
Declination : 61.0 degrees
Total Depth : 450.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by: A Warren
Drilled by: EDrill
Drill type: UDR200
Drill Date: 20/09/2012 – /10/2012

Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Structure	Angle CA	Log depths	Description	Alteration / Vein / Mineralisation notes
240	241			240.5	?Pumice breccia – ? altered; Black shale – minor-rawed lam^d (qt/Cb vein s/w with some pyrite in) sharp lower contact	py ✓ in shale
241	242	upper contact So	40°	241.7, 241.95	?pumice breccia – v altered – minor pumice; Black shale – lam^d, occ vugs, sharp lower contact	+ grey [illegible] veins
242	243	Qt vein 242.0	38°		?pumice breccia ? v altered – minor pumice	py, dark mm [illegible]; blebs
243	244	So 243.1	20°	243.1–243.2, 243.3–243.4, 243.65	Black shale – lam^d, contact faulted; Black shale – lam^d – contact faulted; Black shale – lam^d variably	
244	245	So 244.1	35°, 25°		v fg grey ss with laminations. Basal contact broken	vuggy; qt/Cb; py as qt/Cb/py vns
245	246			245.2, 245.3, 245.7	CORE LOSS 245.2–245.3; Black shale laminated 90% 10 ss (245.3–.7); Black shale / grey vfg ss interlam^d (245.7–246.2) 10/90	vuggy vein
246	247	sharp		246.2	Black shale – weakly lam^d	Broad qt/Cb/py; occ s/w
247	248	sharp; irreg; sharp		247.8, 248	Rhyolite breccia? cracked pink brown; Black shale (247.9–248.1)	
248	249				Volcaniclastic sandstone – generally vfg pale brown & olive pervasively altered ?brown carbonate, even grained	qt/Cb/py; mm py veins
249	250				broadly laminated/bedded with grain size variations	
250	251				?may grade d/h generally altered rock could be a lava breccia; blotchy in part	occ qt/Cb
251	252	So 252.0	40°			
252	253	sharp		252.7	RHYOLITE BRECCIA pumice-lithic – cloudy qt, or vc ss; graded complete pale brown ⇒ pink red alteration d/h	py veins, blebs
253	254	sharp; sharp; 253.6 fracture		253.2	Black shale (253.2–253.4) – lam^d (5cm interbed of VC ss & fg + cg); Volcaniclastic ss (253.4–253.65); Pumiceous volcaniclastic sandstone – qt lithic, pumice	occ qt/Cb; 2 mm py veins
254	255		33°	254.7	BLACK SHALE with interlaminated grey fg ss. ss component increases d/h	
255	256	graded; sharp		255.25	BLACK SHALE – massive v. veined.	qt/Cb/py veins, py 2; ?reddish sulphide; s/w
256	257	256.0 fracture			Pumiceous lithic breccia ?dolo[illegible]	slickenside 256.25, 256.45; 30
257	258	So 258.0	30°	257.55, 258.0	Volcaniclastic ss – lam^d	pyrite
258	259	So 259.6	7°	258.6	BLACK SHALE – (258–258.2); BLACK SHALE – p brown VC ss (40/60%) lam^d; V.C. SS or ash – lam^d/banded 258.6–259.7 – brown	qt/Cb s/w; py 0.5
259	260	graded; sharp		259.1, 259.3, 259.7	BLACK SHALE (259.1–259.3) – lam^d, occ ash shale laminations; grey ss ⇒ black shale 3 cycles (259.3–259.7) ?rip-up clasts of shale in ss	qt/Cb/py vein, ss/w
260	261	gradational		260.4, 260.7	BLACK SHALE 259.7–260.4 – grey ss laminations increasing d/h; sandstone (grey) vfg, laminated 90%, Black shale interlam 10%	pyrite
261	262				BLACK SHALE – laminated	
262	263					
263	264					
264	265	So 265.0	20°			py blebs
265	266					
266	267					
267	268	So 267.5	22°			
268	269	broken		268.5, 268.9	Ash or vfg volcaniclastic ss – cream with 5cm black shale band; BLACK SHALE – laminated	
269	270					intense s/w py

239.4
* = 240.5 ...

?to 5% sulphide
black mm sulphide veins
grey sulphide veins
minor chalco. py blebs
selective hematite alteration
pyrite veins

242.9 sphalerite xls
243–243.1 galena xls

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)		Logged by	A.Warren
Project :	EL 26-2004	East :	446230.00	Azimuth :	223.0 degrees (MGA94)
Prospect :	Firetower	North :	5405359.00	Declination :	61.0 degrees
Grid :	MGA94	RL :	847.00	Total Depth :	450.0m (planned)
		Proj.	MGA94 co-ords	Collar surveyed by:	(reported / /2012)

Drilled by EDrill; Drill type UDR200; Drill Date 20/09/2012 /10/2012

Massive; Pervasive; Disseminated; Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
270	271							BLACK SHALE - laminated												
271	272							271.5 - 271.9 qtz vein concentration												
272	273																			
273	274																			
274	275																			
275	276																			
276	277																			
277	278						277.3	volcaniclastic sandstone grain-p brown laminated, black shale lens, grade, u/p BLACK SHALE												
278	279						277.9													
279	280						279.8	sandstone - cream, grey up-up clast - py mm												
280	281						280.1	BLACK SHALE												
281	282							280.5 - 280.8 intense qtz veining to 2cm veins												
282	283																			
283	284																			
284	285						284.8	volcaniclastic sandstone -												
285	286						285.7	pale brown BLACK SHALE, V.fg.												
286	287						286.9	sandstone - volcaniclastic, green, friable, mylonitic.												
287	288						287.6	BLACK SHALE												
288	289						288.7	mylonite - 287.6 - 288.7 m green vcss												
289	290							BLACK SHALE - laminated.												
290	291						290.3	grey sandstone vfg (290.3 - 290.4)												
291	292						290.4	BLACK SHALE												
292	293						290.9	grey BLACK SHALE (290.9 - 291.4)												
293	294						291.4	grey BLACK SHALE (290.0 - 290.4)												
294	295							grey BLACK SHALE (290.4 - 290.55)												
295	296						298.7	grey BLACK SHALE (292.55 - 298.7)												
296	297						293.5	grey BLACK SHALE (293.2 - 293.5)												
297	298							CORE LOSS 293.5 - 293.6.												
298	299							BLACK SHALE 293.6 -												
299	300																			

292 - 293 — graphitic

Qtz/Cb/py throughout s/w in black shale

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords
Azimuth :	223.0 degrees (MGA94)		
Declination :	61.0 degrees		
Total Depth :	450.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by	A. Warren		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	20/09/2012 /10/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
300	301				10°			BLACK SHALE							Qt/Cb	py	1	✓		
301	302																1	✓		
302	303				5° or less												1	✓		
303	304																1	✓		
304	305				7°			BLACK SHALE							Qt					
305	306							BLACK SHALE							Qt/Cb	py py	1	✓		
306	307				5° or less												1	✓		
307	308				20												1	✓		
308	309																1	✓		
309	310																1	✓		
310	311																			
311	312														Qt/Cb	py py	1	✓		
312	313							BLACK SHALE							Qt/Cb	py py	1	✓		
313	314				14°												1	✓		
314	315																1	✓		
315	316																1	✓		
316	317				12°												1	✓		
317	318																1	✓		
318	319																1	✓		
319	320				12°												1	✓		
320	321																1	✓		
321	322				3°												1	✓		
322	323																1	✓		
323	324				45°			VQ-CARBONATIC SANDSTONE grey, fine grained, graded d/h. BLACK SHALE									1	✓		
324	325																1	✓		
325	326																1	✓		
326	327				4°															
327	328																1	✓		
328	329																1	✓		
329	330																1	✓		

occ mins 4 mm py veins

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords
Azimuth :	223.0 degrees (MGA94)		
Declination :	61.0 degrees		
Total Depth :	450.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by	A. Warren		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	20/09/2012 /10/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Abite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Mineralization: Veining	Disseminatio	Pervasive
330	331							BLACK SHALE							qt/cb py	py	1	✓		
331	332						331.7	CORE LOSS 331.7 - 332.7									1	✓		
332	333						332.7	BLACK SHALE									1	✓		
333	334						333.3	CORE LOSS 333.3 - 334.6									1	✓		
334	335	very broken ground					334.6	BLACK SHALE									1	✓		
335	336			43°													1	✓		
336	337	very broken ground		50°													1	✓		
337	338						337.1 337.4	CORE LOSS 337.1 - 337.4 BLACK SHALE									1	✓		
338	339														338.9-339		5	✓	✓	✓
339	340						339.1	RHYOLITE LAVA BRECCIA - V/g qt phenocrysts, pink cream fragmental, occasional black shale lithics, carbonate micro veins.		/	/		/			black mustard pyrite + dark sulphide	1			
340	341										/		/				1			
341	342										/						1			
342	343										/						1			
343	344										/		/				1			
344	345										/						1			
345	346										/						1			
346	347	qt/cb 346-347			60°						/		/		qt/cb		2			
347	348										/		/				1	✓		
348	349												/				1	✓		
349	350												/				1	✓		
350	351												/				2	✓	py in fractures	
351	352						351.8	CAVING from 351.2 - 351.3 Black shale ? pumice			/		/				2	✓		
352	353							Volcaniclastic sediment or cryst dark v/g felsic tuff, brown, porcellaneous, black mustard sulphide network & pyrite veins			/		/			black mustard py + pyrite				
353	354										/		/							
354	355							354.5m INTERNAL CONTACT AT 32° WITH BUFF ? RHYOLITE AS MINOR FLOW OR INTRUSION.			/		/							
Vein	354.5				60°			355.5 - qt/cb vein wide 3½ cm			/		/		354.5-355.5 qt/cb					
355	356							INTENSELY MICRO-FRACTURED AND VEINED, WITH CONSPICUOUS 5-7% PYRITE + TRACE CPY.			/		/				5			
356	357										/		/				5	+	+	py
357	358										/									
358	359							ALTERED, STRONGLY PYRITIC, MID CREAM, VERY			/					7-10% PY. +				
359	360	+359.3m CAVED BLACK SHALE.						FINE-GRAINED, RHYOLITIC SILTSTONE OR FELSIC			/					TRACE CPY.				

FRAGMENTS (CAVED MATERIAL)

TUFF. POSSIBLE INTERMIXED RHYOLITE AS DISMEMBERED MINOR FLOWS OR INTRUSIONS.

UNITY MINING LTD

Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords
Azimuth :	223.0 degrees (MGA94)		
Declination :	61.0 degrees		
Total Depth :	450.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by			
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	20/09/2012		/10/2012

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 351.8m												
360	361	MICRO-FRACTURE						ALTERED PYRITIC RHYOLITIC VOLCANICLASTIC SILTSTONE, MINOR RHYOLITE LAVA OR INTRUSIVE:	/	/	/					SPARSE 0.5-1.0% PYRITE AS MINUTE VEINLETS IN MICRO-FRACTURES.				
361	362	OVERPRINT.						HARD TO VERY HARD, VARIABLY SILICIFIED, MICRO-FRACTURED, VEINED, LIGHT TO MID BROWN-CREAM,	/	/	/									
362	363			362.9				GREY, GREEN, VERY FINE-GRAINED, ALTERED		/	/									
363	364	THIN ALTERED SHALE INTERBED.						RHYOLITIC SILTSTONE OR FELSIC TUFF. INTERMIXED ZONES OF MORE SILICEOUS, BUFF, VERY FINE-GRAINED RHYOLITE, POSSIBLY FLOWS OR MINOR	/	/						5% PY. IN BANDS IN SHALE.				
364	365							INTRUSIONS. MODERATE PERVASIVE SERICITE + SILICA		/										
365	366							ALTERATION. STRONG MICRO-FRACTURING OVERPRINT,	/	/										
366	367							SOME FRACTURES INFILLED WITH PY + TRACE CPY + POSSIBLY APY.	/	/	/									
367	368	INTERNAL CONTACT	→ 36°						/	/										
368	369	DISRUPTED		368.35 So				DISRUPTED VOLCANICLASTIC SHALE + SILTSTONE	/	/			/			SPARSE 1-2%				
369	370	BEDDING LAMINAE; MICRO-		36°				SUB-UNIT; MICRO-FRACTURED, VARIABLY PYRITIC.	/	/	/					PYRITE AS FINE BLEBS AND				
370	371	FRACTURE OVERPRINT		370.1				BECOMING QUARTZ-PHYRIC, TENDING TO WEAKLY FOLIATED, DEFORMED.		/						AGGREGATES.				
371	372								/	/	/		/							
								372.4m SHEARED, BROKEN, FAULTED CONTACT ZONE.		/										
372	373							372.5m FOLIATED TO PORPHYRITIC, QUARTZ-PHYRIC	/	/	/		/			NO VISIBLE				
373	374	373.9- CAVED						RHYOLITE LAVA OR INTRUSIVE: HARD, BECOMING VERY		/	/		/			SULPHIDE				
374	375	MATERIAL AT START OF RUN.						HARD, INITIALLY ALTERED, TENDING TO SLOVEY,		/			/	/		MINERALISATION				
375	376							VEINED, MID CREAM, FINE TO MEDIUM-GRAINED,	/		/	/	/							
376	377							?PUMICEOUS RHYOLITE TO 373.9m. BECOMING LIGHT BUFF, IN PLACES GREY, COARSE-GRAINED,	/	/	/			/						
377	378	COARSE						QUARTZ-PHYRIC, NON-FOLIATED, PORPHYRITIC			/			/						
378	379	QUARTZ EYES, UP TO 5-6mm,						RHYOLITE FROM 373.9m. BLEACHED, PERVASIVELY SERICITISED AT START OF INTERVAL, BECOMING VARIABLY FELDSPAR ALTERED. SNAK WISPS/STREAKS OF GREEN SERICITE ALTERED ? PUMICE OR GLASS	/		/			/						
379	380	IN PORPHYRITIC TEXTURED						AT START.			/		/							
380	381	ZONES.						MINOR QUARTZ + FELDSPAR VEINS AND STRINGERS, SOME WITH CHLORITE AT CONTACTS.		/			/							
381	382	VEIN						COMMON 2-3mm SUBHEDRAL FLECKS OF HEMATITE PIGMENTED FELDSPAR, PROBABLY			/			/						
382	383	OVERPRINT						ALTERED PHENOCRYSTS. ALTERATION TENDING TO OBSCURE PRIMARY TEXTURAL VARIATION.			/		/	/						
383	384									/	/		/	/		RARE TRACE				
384	385												/	/		PY./CPY. AS				
385	386							SCATTERED ?BIOTITE FLAKES.					/			BLEBS.				
386	387	FINER GRAINED, MORE MASSIVE.						386.3m FINE-GRAINED MASSIVE TO VEINED APHYRIC RHYOLITE	/		/	/	/							
387	388							SILICEOUS, VERY HARD, TOUGH 387.7m	/			/								
388	389	BECOMING BROKEN						389.1m BECOMING SHEARED, BROKEN AT CONTACT.				/								
389	390					LOSS		CORE LOSS: 2.0m CORE LOSS RECORDED BY DRILLER.												

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Hole No. FTD041 | Collar Location (GPS) | **Graphical Drill Hole Log** | Logged by | Massive
Project : EL 26-2004 | East : 446230.00 | Azimuth : 223.0 degrees (MGA94) | Drilled by EDrill | Pervasive
Prospect : Firetower | North : 5405359.00 | Declination : 61.0 degrees | Drill type UDR200 | Disseminated
Grid : MGA94 | RL : 647.00 | Total Depth : 450.0m (planned) | Drill Date 20/09/2012 | Narrow vein
Proj. MGA94 co-ords | Collar surveyed by: (reported / /2012) | /10/2012

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
								CONTINUED FROM 389.1m												
390	391					LOSS		CORE LOSS: 2.0m CORE LOSS RECORDED BY DRILLER. CONTACT NOT RECOVERED.												
391	392	BROKEN TO FRAGMENTED CORE						391.1m QUARTZ-PHYRIC RHYOLITE LAVA OR INTRUSIVE: HARD, INITIALLY BROKEN, FRAGMENTED, SHEARED, TENDING TO CLAYEY, LOCALLY VEINED, WEAKLY FOLIATED, LIGHT BUFF-GREY, LIGHT TO MID		/			/			NO VISIBLE SULPHIDE MINERALISATION				
392	393				392.7m SH.					/	//	/	.							
393	394	COARSE QUARTZ EYE PORPHYRITIC TEXTURES.						GREY, GREEN-GREY, COARSE-GRAINED, QUARTZ-PHYRIC, PORPHYRITIC RHYOLITE. ABUNDANT LIGHT GREY, WHITE, SUBHEDRAL QUARTZ EYES		/	.	.	/							
394	395									.		/	.							
395	396	WEAKLY TO						PHENOCRYSTS UP TO 8mm IN DIAMETER, LOCALLY STRETCHED OUT IN WEAKLY FOLIATED ZONES.		/	/	/	/							
396	397	MODERATELY FOLIATED;						SCATTERED BUFF-BROWN FELDSPAR PHENOCRYSTS.		.			/							
397	398	LENTICULAR ?CHLORITE						~~WEAK PERVASIVE SERICITE ALTERATION. VARIABLE~~ WISPY TO STREAKY CHLORITE ALTERATION.		/		/	/							
398	399	WISPS/ STREAKS.								/	/	/								
399	400							MINOR TO LOCALLY COMMON WHITE-CREAM QUARTZ + FELDSPAR + MINOR CARBONATE STRINGERS AND VEINLETS.		/			/							
400	401	400.5m CLAYEY DUCTILE SHEAR 2-5mm			20°							/	/							
401	402									/	/		.							
402	403							INCREASINGLY FREQUENT WHITE-PINK CARBONATE		/			/							
403	404	VEIN/STRINGER OVERPRINT			403.3m SH 30°			STRINGERS AND VEINS. ~~403.3m THIN SLICKENSIDED CLAYEY SHEAR.~~				/	/							
404	405									/		/								
405	406							~~405.2-406.4m BROKEN, IN PATCHES FRAGMENTED~~ CORE; THIN CLAYEY SHEARS.				/										
406	407									/		/	/							
407	408	MICRO-FRACTURED, WEAKLY VEINED.						~~407.25-407.35m~~ PUGGY KAOLINITIC/CHLORITIC CLAY SHEAR		/	/	/								
408	409	408.9-409.1m CORE LOSS						409.1m EOH (Confirmed)		/	/	/	/							
409	410							LAST RUN RECOVERED ONLY CAVED MATERIAL (BLACK SHALE FRAGMENTS) FROM UP HOLE; DRILL BIT DEAD.												
410	411																			
411	412																			
412	413																			
413	414																			
414	415																			
415	416																			
416	417																			
417	418																			
418	419																			
419	420																			

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REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD042	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	17 Oct 2012
End of Hole (m):	425.8	**Drilling Completed:**	06 Nov 2012

Drill Hole Collar

		Comments
Surveyed By:	PDA Surveyors	Surveyed by GNSS differential GPS co-ordinate fixing
Survey Date:	01 Nov 2012	Reported 20 Nov 2012
Survey Datum:	Zone 55 GDA1994	Australian Height Datum (Tas) 1983
Survey Reference:	Trig Mark 232/171	Gog Hill (Class B Second Order)
Hole Collar Easting (m):	446241.9	
Hole Collar Northing (m):	5405353.9	
Hole Collar Height (m):	647.2	
Hole Collar Azimuth (GDA1994):	207.83	Surveyed when rig set up on hole
Hole Collar Declination (deg):	65.03	Surveyed when rig set up on hole

Drill Hole Surveys

		EDrill Australia		Comments
Surveyed By:				Ranger Discoverer electronic magnetic survey tool
Surveyed Data:	Depth (m)	Azimuth*	Decl.	*Raw magnetic azimuth +13.647 degrees
PQ to 22.0 metres	30.0	207.8	64.0	
	60.0	209.8	64.0	
	90.0	211.1	64.0	
HQ to 95.2 metres	150.0	210.9	63.0	
	180.0	210.2	62.6	
	210.0	210.3	61.9	
	240.0	211.9	60.6	
	270.0	212.4	59.0	
	299.0	210.7	58.4	
HQ to 310.5 metres	330.0	211.3	57.6	
	390.0	213.2	56.5	
NQ to 425.8 metres EOH	420.0	213.6	55.8	End of hole survey.

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REGIONAL EXPLORATION TASMANIA

DRILL HOLE COVER SHEET

Hole No.:	FTD042	**Drilling Contractor:**	EDrill Australia
Location:	Firetower Deposit	**Drill Rig:**	UDR 200 LS Track Mounted
ML/EL:	EL 26-2004 Firetower	**Drill Method:**	Diamond (PQ/HQ/NQ core)
Geologist:	D. A Evans	**Drilling Commenced:**	17 Oct 2012
End of Hole (m):	425.8	**Drilling Completed:**	06 Nov 2012

Hole Completion

		Comments
Groundwater Intersected:	No	
Groundwater Controlled:	N/A	
Material Left In Hole:	Steel collar pipe	1.5 metres HWT pipe cemented in at surface
		67 HQ rods (3 m rods) + HQ casing shoe bit lost in hole
		UPVC casing only partially installed in completed hole
Collar Condition:	Capped	Threaded steel cap spot welded onto collar pipe

Drill Hole Logging

		Comments
Logged By:	A. Warren	Logged in hard copy graphical format
Base of Complete Oxidation (m):	0	Not obvious; collared on excavated pad with rock fill
Base of Partial Oxidation (m):	17.6	
Summary:	Collar - 78.5 m	Oxidised to fresh pumiceous lithic-rich volcaniclastic
	78.5 - 142.95 m	Interbedded lithic-rich sandstone & siltstone-shale
	142.95 - 231.6 m	Carbonate altered pumiceous rhyolitic breccia
	231.6 - 327.9 m	Interbedded black shale, volcaniclastic sst, breccia
	327.9 - 354.0 m	Mixed rhyolitic breccia, volcaniclastic sst, black shale
	354.0 - 425.8 m	Rhyolite lava breccia; porphyritic rhyolite (FW)

Drill Hole Assays

		Comments
Sample Type:	Half core	Sawn half HQ and NQ core samples
Assayed By:	ALS	Burnie Research Laboratory (Wivenhoe, Tasmania)
		Master pulp samples stored at Deloraine core shed
Peak Gold Assays:	1.05 g/t gold	1.0 m apparent width from 186.0-187.0 m
	0.86 g/t gold	Average for 2.0 m apparent width from 340.0-342.0 m
	2.26 g/t gold	1.0 m apparent width from 361.0-362.0 m
Other Significant Assays:	0.59% zinc/	Average for 13.0 m apparent width from 254.0-267.0 m
	0.15% lead	

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Graphical Drill Hole Log

Hole No. FTD042	**Collar Location (GPS)**	**Azimuth :** 203.0 degrees (MGA94)	**Logged by** A. Warren
Project : EL 26-2004	**East :** 446230.00	**Declination :** 65.0 degrees (provisional)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405359.00	**Total Depth :** 380.0m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 647.00		**Drill Date** 17/10/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	/10/2012

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
0	1	orange						sandstone volcaniclastic yellow mottled grey feldspars lithics of pieces, matrix is yellow clayey material.												
1	2	yellow mottled grey																		
2	3							9-10m brown & dark brown (→ black) stained joints												
3	4																			
4	5																			
5	6																			
6	7																			
7	8	grey mottled yellow						7.9 docc red surfaces on joints as ~ FTD 041												
8	9																			
9	10																			
10	11																			
11	12								11-13 V tem altered on joints etc											
12	13	Intermittent broken ground							13.5-14.2 V tem altered											
13	14																			
14	15							14.7 ? mudstone												
15	16							15.3												
16	17							16.00 as for 18.9 pumiceous crystal lithic volcaniclastic sandstone.				carbonate								
17	18	16.5-16.8 / 17.2-17.9																		
18	19																			
19	20							? pumiceous crystal lithic volcaniclastic sandstone.												
20	21							tightly packed rock mid grey												
21	22	PQ						polymictic - dark grey, brown grey lithics, feldspars, no matrix							multiple mm Qtz	intense				
22	23	HQ						variably magnetic. Distinctive lithics dark brown - black volcanic with abundant feldspar phenocrysts							multiple Qtz	22.3-23.5 broad stw				
23	24							It has often wispy edges - pumice v. distinctive rock												
24	25																			
25	26																			
26	27																			
27	28																			
28	29																			
29	30																			

BOCO = not obvious.
BOPO = 17.60m

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Graphical Drill Hole Log

Hole No.	FTD042	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords

Azimuth : 203.0 degrees (MGA94)
Declination : 65.0 degrees (provisional)
Total Depth : 380.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by A. Warren
Drilled by EDrill
Drill type UDR200
Drill Date 17/10/2012 /10/2012

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
30	31											[illegible]								
31	32							31.1 limonite staining assoc with qt/cb vein												
32	33																			
33	34							occasional 'pumice' pieces only & smaller in size												
34	35	2cm <Q 34.9			58°										<2					
35	36																			
36	37																			
37	38	1cm? <Q 38.3			52°															
38	39																			
39	40																			
40	41																			
41	42																			
42	43						42.5	Banded & laminated shale/silt/vfg sandstone - d grey & brown-grey 80												
43	44	50 43.6			20°															
44	45						44.5m													
45	46	45.7 mm fault, bedding																		
46	47	50 46.3			30°		46.8	sharp basal contact. grey Volcaniclastic sandstone												
47	48						47.3 47.8	d Grey siltstone with bands of fg volcaniclastic grey SS.												
48	49	48.15 1cm			<Q 63°			Volcaniclastic breccia or conglom. cg - css. v cg. Lithic, Xls, rare pumice, occ foliated margins? ... feldspars, qt chunks at ?qt - grain size varies, larger esp at base; d grey. Lithics - dark grey, red brown haematite stained							*fine	Py? specks				
49	50																			
50	51																			
51	52		Broken ground													Py in qt vein	<1	√		
52	53																			
53	54						53.3	Volcaniclastic sandstone m-cg, even grained d grey, feldspars, ?qt, lithics, limited matrix												
54	55																			
55	56							Volcaniclastic conglomerate => cg SS => m-c SS => shale. Xl lithic. dark grey, not foliated, no or rare pumice, multiple fining upward sequences, qt, feldspar, qt chunks esp at base of fining upward sequence. lithics include d grey, pale grey, pink. W.fg? haematite alt clasts. weak pink selection of some feldspars in some ... haematite												
56	57															Py in joint on vug	<1			
57	58	lts // to So e shot 2cm 57.95 <Q					57.95									py"	<1			
58	59																			
59	60	qt vein 59.05			66°										qt 1cm	Py	1	√	√	

59-102m intermittent py - disseminated & in qt/cb veins

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Graphical Drill Hole Log

Hole No.	FTD042	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords

Azimuth : 203.0 degrees (MGA94)
Declination : 65.0 degrees (provisional)
Total Depth : 380.0m (planned)
Collar surveyed by: (reported / /2012)

Logged by A. Warren
Drilled by EDrill
Drill type UDR200
Drill Date 17/10/2012 /10/2012

Massive / Pervasive / Disseminated / Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
60	61						60.5													
61	62							Slightly magnetic @ 62m & 63m. D/h the intervals seem to have less coarse conglomerate at base							[illegible]	62.0 py chalco	0.5	✓		
62	63																			
63	64		vein/63.2		80°		63.05								1cm	qt 63.4 pyrite splashes bigger				
64	65							63-75 slightly magnetic							qt/calc s/w	63.4-63.6				
65	66		r fine ss V conglom base later				66.10								qt/calcite s/w	64.2-64.6				
66	67																			
67	68						68.1													
68	69														qt/sw	67.3-67.4 assoc with red hematite clasts 5cm				
69	70							V broad qt/cb s/w 64-73.45												
70	71																			
71	72														qt/cb	71.65-71.8, py in vugs qt/cb, chalcedony		✓		
72	73						73.2													
73	74																			
74	75																			
75	76						75.8													
76	77						76.6	SANDSTONE – d.grey f-mg, [illegible] with feldspar & lithics, even grained												
77	78						77.7	SANDSTONE > banded shale top – d grey fg, [illegible]												
78	79							78.65 Banded ss/shale – dark grey fg sandstone with bands of pale brown 'porcellaneous' shale (1cm, 2cm bands) rhythmically banded 50% shale, 50% vfg sandstone.												
79	80		79-80.5 [illegible]																	
80	81																			
81	82		So 81.8		31°															
82	83						83.77	82.3-83.77 sandstone d grey, fg & f-mg [illegible] feldspar, lithics, even grained. Banded ss/shale sequence as for 78.65 above. 50/50												
83	84																			
84	85		So 84.8		45°			laminated towards base of interval												
85	86						85.1 85.65	sandstone – grey, f-mg, feldspar, lithic. Banded ss/shale sequence as for 78.65. 50/50												
86	87																			
87	88																			
88	89		So 88.6		34°		@ 89m.													
89	90						89.9													

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Graphical Drill Hole Log

Hole No.	FTD042	Collar Location (GPS)		Logged by	A. Warren
Project :	EL 26-2004	East :	446230.00	Drilled by	EDrill
Prospect :	Firetower	North :	5405359.00	Drill type	UDR200
Grid :	MGA94	RL :	647.00	Drill Date	17/10/2012
		Proj.	MGA94 co-ords		/10/2012

Azimuth : 203.0 degrees (MGA94)
Declination : 65.0 degrees (provisional)
Total Depth : 380.0m (planned)
Collar surveyed by: (reported / /2012)

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

Broken ground (fault zone).

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
90	91							Banded Sandstone/Shale				91	8		Qtz/cb	3/4 cm qtz w. sulfide [illegible] lip. significantly				
91	92	Qtz/cb 91.8			24°															
92	93							Some thicker SS intervals throughout d/h												
93	94																			
94	95																			
95	96																			
96	97																			
97	98																			
98	99																			
99	100						99.4	pug @ 99.8 – grey rd grey - sub// to ~~Volcaniclastic sandstone d grey~~												
100	101							CORE LOSS 100 – 100.5 (added markup) Volcaniclastic Sandstone												
101	102							CORE LOSS 101.4 – 102.6												
102	103							Volcaniclastic sandstone												
103	104																			
104	105																			
105	106																			
106	107																			
107	108																			
108	109							CORE LOSS 108.6 – 109.5												
109	110							Volcaniclastic sandstone												
110	111							CORE LOSS 110.5 – 110.9 ~~Volcaniclastic sandstone~~												
111	112						111.9 112.0	CORE LOSS 111.4 – 111.9 Volcaniclastic Sandstone m grey, lithic xls.												
112	113							CORE LOSS 112 – 113.3												
113	114							Volcaniclastic sandstone CORE LOSS 114.1 – 114.3												
114	115							(core loss 114.9 - 115.1 removed in mark up.)												
115	116	So 115.6			02° angle		116.0	Volcaniclastic sandstone 115.1 - 115 – V crushed up mylonitic 115.9 - 116.0												
116	117							Banded sandstone/shale d grey 'porcellanous' brown [illegible]												
117	118							rhythmic cm banded to thicker ss horizons. (mylonitic 118 - 118.1)												
118	119																			
119	120																			

Graphical Drill Hole Log

Hole No. FTD042	Collar Location (GPS)	Logged by A. Warren	Massive
Project : EL 26-2004	East : 446230.00	Azimuth : 203.0 degrees (MGA94)	Drilled by EDrill	Pervasive
Prospect : Firetower	North : 5405359.00	Declination : 65.0 degrees (provisional)	Drill type UDR200	Disseminated
Grid : MGA94	RL : 647.00	Total Depth : 380.0m (planned)	Drill Date 17/10/2012	Narrow vein
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	/10/2012	

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
120	121		So 121		9° low angle			Banded sandstone/shale a/a. Hole cemented @ 120.2.												
121	122		So 121.7		30°		121.4	Next couple of runs have too much rock - may be caving. Liaised with drillers & manager.												
122	123							Volcaniclastic ss, laminated, d grey, ±massive, occ. brown shale bands												
123	124																			
124	125																			
125	126						126.0	Volcaniclastic ss to thin black/d grey shale top												
126	127						126.5	BLACK SHALE - quite shattered but mostly still 'in situ'												
127	128		sharp				127.2	SANDSTONE - grey clastic/volcaniclastic) fg, feldspar ?qt lithics d grey black fine matrix. Calcite feldspars & matrix	?	/		/ calcite								
128	129							qt vein 128.7-128.8	?	/		/			100	1 1/2 qt vein		manganese? + d brown black sticky mineral		
129	130							CORE LOSS 128.8-129.8												
130	131							SANDSTONE - grey as for 127.2-128.7 / CORE LOSS 130.3-131.3		/		/								
131	132		sharp					131.3-131.4 grey VC sandstone → black shale. SANDSTONE - d grey VC V sheared ?mylonitised 1st 20cm 131.4-131.6. Calcite feldspar & matrix finer grained intervals d/h.				/ calcite								
132	133						132.2	SANDSTONE - pale grey sheared-mylonitic at top of interval for 20 cm				/								
133	134							V ABE calcite (fg) - felds, veins & matrix qt feldspar lithics. Coarsens d/h. To Veg ?pumice [illegible] with phenocrysts				/								
134	135						134.6 / 134.9	fg SANDSTONE → BLACK SHALE												
135	136		foliation 135.2		36°		135.8	V Pumiceous foliated XL breccia - qt, feldspar pumice, accretic, calcite after feldspar & as cement				calcite /								
136	137							SANDSTONE, SHALE ?- clastic shale m grey & fg, ss grey, d grey - fg.												
137	138		So 137.3		64°			V broken ground intermittently.												
138	139																			
139	140		Bandings // 0°																	
140	141		? fault X				140.9	pug & sandstone grey // banding (or fault gouge) small [illegible] on boundary												
141	142		So 141.9		43°			CORE LOSS 141.6-141.8. 141.8-141.98 pumiceous ash with ~1cm disrupted foliated clam black shale beds.												
142	143						142.05	SILTSTONE - m grey, massive, occasional v banding												
143	144							Pumiceous Rhyolite breccia cream, pale grey, occ d grey bands				/								
144	145							foliated, qt, feldspars, alt pumice carbonate altered intensely except for minor d grey bands. Lithics present little matrix				/								
145	146							Some calcite matrix veining but major alteration is probably another carbonate				/								
146	147												/								
147	148												/								
148	149												/								
149	150												/								

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Graphical Drill Hole Log

Hole No. FTD042	Collar Location (GPS)		**Logged by** A Warren
Project : EL 26-2004	**East :** 446230.00	**Azimuth :** 203.0 degrees (MGA94)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405359.00	**Declination :** 65.0 degrees (provisional)	**Drill type** UDR200
Grid : MGA94	**RL :** 647.00	**Total Depth :** 380.0m (planned)	**Drill Date** 17/10/2012 /10/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	

Legend: Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining / Disseminated / Pervasive
150	151	foliation 150.8			32													
151	152	Qt/hm 15 .4			35°										vein	hm/qt/hm/py vein 151.4–151.5	5	✓
152	153							RHYOLITE – dark grey siliceous qt phenocrysts glassy groundmass.										
153	154						153.1	BLACK SHALE – generally massive							qt/Cb s/w	py s/w	2	✓
154	155						154.98								qt/Cb s/w	py s/w	3	✓
155	156							RHYOLITE and pumiceous bedded RHYOLITE (INTERBEDDED) all possibly primary.										
156	157							rhyolite – dark grey (may grade) qt phenocrysts – glassy groundmass.										
157	158							pumiceous rhyolite – often carbonate altered [illegible] abt qt xls, [illegible]										
158	159	Qt vein 2cm 158.3			56°			feldspars, carbonate matrix							Qt/Cb	[illegible] in veins py	1	✓
159	160							158.6–158.5 ?haematite red alteration uphole of 2cm qt/Cb/py [illegible] vein							Qt/hm vein	qt/Cb	1	
160	161							155.05 × 3mm vein – qt/Cb/haematite (pink tinged)										
161	162														qt/Cb	161.3–161.5 py in vuggy qt/Cb vein	~	✓
162	163							162.3 – red on joints (?haematite)							Qt/Cb vein			
163	164							162.9–171.6 intermittent pink stained (haem) qt/carbonate										
164	165																	
165	166																	
166	167																	
167	168																	
168	169														Qt/Cb hm vein	← py	1	✓
169	170														Qt/Cb hm vein	← py	1	✓
170	171																	
171	172																	
172	173																	
173	174	sharp, sl faulted					173.65	BLACK SHALE weakly laminated.								py s/w	2	✓
174	175	S0 173.9			30°			banded at top of interval.								py s/w mm	2	✓
175	176	S0 175.9; 175.85 1cm LQ			50°		175.85	SHALE – Vfg sandstone (?ash) cream								py vein	2	✓
176	177	176.20 1cm LQ					176.03; 176.20	BLACK SHALE = [illegible] banded; Pumiceous rhyolitic 'sandstone'							qt/Cb/hm vein			
177	178							cream, laminated, pumice flecks, qt feldspar lithics laminated							↓	177.8 – chalcopy, qt vein qt/Cb/hm.	1	✓
178	179							occ black volcaniclastic interbeds							↓			
179	180	S0 179.8			38°		179.15	BLACK SHALE							↓	py	1	✓

154–262 intermittent

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Graphical Drill Hole Log

Hole No. FTD042	Collar Location (GPS)	Azimuth : 203.0 degrees (MGA94)	Logged by A. Warren
Project : EL 26-2004	East : 446230.00	Declination : 65.0 degrees (provisional)	Drilled by EDrill
Prospect : Firetower	North : 5405359.00	Total Depth : 380.0m (planned)	Drill type UDR200
Grid : MGA94	RL : 647.00	Collar surveyed by: (reported / /2012)	Drill Date 17/10/2012 /10/2012
	Proj. MGA94 co-ords		

Massive / Pervasive / Disseminated / Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Disseminated	Pervasive
								Alteration								Mineralization				
180	181			180.95				BLACK SHALE Banded porcellaneous cream shale & vfg sandstone 15cm interval @ 180.3m							Qt/Cb/hm vein					
181	182		same unit				Bsh	XL lithic sl pumiceous breccia cream, roughly lam. Black shale 5m at end interval. as for 180.95–181.40				/								
182	183							Volcaniclastic sandstone (or ash) fg banded cream, cracked pink tinged pumiceous/				/			weak					
183	184			183.50 184.0			ash	Black shale 15cm 183.5–183.65 – pumice beds v/c 55 – ash banding 183.65–183.85 pumiceous beds. Black shale 183.85–184.0												
SO 183.2					46°															
184	185						184.5 185.1	BLACK SHALE / GREY SILTSTONE – banded pumiceous fg rhyolitic breccia or tuff – cream				/	/							
SO 184.4					56°															
185	186							Rhyolite breccia or rhyolitic sandstone. Banded, massive, laminated up				/								
186	187							to qt feldspar phenocrysts, occ lithics generally weakly carbonate				/			vuggy Qt/Cb vein	+ py	1	√		
187	188							altered cream, pale brown, dark grey grain size variation				/								
188	189							may be several horizons				/								
189	190											/								
190	191											/								
191	192											/								
192	193											/								
193	194											/								
SO 194.0					47															
194	195											/								
195	196											/								
196	197											/								
197	198											/								
198	199											/								
199	200											/								
200	201											/								
201	202											/			Qt/Cb/py vein	at py vein		√		
202	203											/								
203	204											/								
204	205											/								
205	206											/								
206	207											/								
207	208											/								
208	209											/								
209	210											/	21/10							

down 2m
flattens out
o looks wide
orientation uncertain

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Graphical Drill Hole Log

Hole No. FTD042	**Collar Location (GPS)**	**Azimuth :** 203.0 degrees (MGA94)	**Logged by** A. Warren
Project : EL 26-2004	**East :** 446230.00	**Declination :** 65.0 degrees (provisional)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405359.00	**Total Depth :** 380.0m (planned)	**Drill type** UDR200
Grid : MGA94	**RL :** 647.00	Collar surveyed by: (reported / /2012)	**Drill Date** 17/10/2012 – /10/2012
	Proj. MGA94 co-ords		

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/Weathering	Angle CA	Graphic structure	Log grainsize	Description	Carbonate	Vein Qtz %	Mineralisation Assemblage	%	Veining
210	211					RHYOLITE BRECCIA a/a					
211	212	211.9 [illegible]	14° 9		211.9	v thin (mm) + grey py		<1%			
212	213					????	/		py	2	✓
213	214					211–213 abt vugs in the rock & py min?	/		py	2	✓
214	215						/		py	1	✓
215	216						/				
216	217						/				
217	218					variably carbonate altered & veined	/				
218	219	description				variably lithic	/				
219	220					????	/				
220	221						/				
221	222					occ pumice.	/				
222	223						/				
223	224						/				
224	225					RHYOLITIC LITHIC BRECCIA Abt qtz xls, feldspar dark grey grey dark lithics, pink lithics [illegible], carbonate veining/cement/matrix	/				
225	226						/				
226	227						/				
227	228						/				
228	229						/				
229	230						/				
230	231						/ 230				
231	232	So 231.9	46°		231.6	Black shale - banded with f-green-grey volcaniclastic ss & shale layers, 2cm, cm & 15cm intervals [illegible] grades up?		/	vuggy black shale py		
232	233				232.8				py		
233	234					RHYOLITE BRECCIA - siliceous [illegible], clearly qtz phenocrysts, feldspars, glassy groundmass.	/				
234	235	So 235.2 in black shale 235.5 So fault?	14° 24°				/				
235	236	So at low angle to CA			235.3 235.9	BLACK SHALE - banded laminated with f green-grey VC ss intervals.					
236	237				236.78	RHYOLITE BRECCIA - brown abt [illegible] feldspar, vfg matrix.	/				
237	238	So 237.0	37°		237.30	Laminated - massive brown fg VC sandstone. Large black shale clasts, grades up	/				
238	239				238.[illegible] 238.9	Rhyolite breccia brown, clearly qtz xls feldspar. VC Sandstone grey, laminated [illegible]					
239	240					RHYOLITE BRECCIA -					

So 235.6 34°

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Graphical Drill Hole Log

Hole No. FTD042	Collar Location (GPS)		**Logged by** A Warren
Project : EL 26-2004	**East :** 446230.00	**Azimuth :** 203.0 degrees (MGA94)	**Drilled by** EDrill
Prospect : Firetower	**North :** 5405359.00	**Declination :** 65.0 degrees (provisional)	**Drill type** UDR200
Grid : MGA94	**RL :** 647.00	**Total Depth :** 380.0m (planned)	**Drill Date** 17/10/2012 /10/2012
	Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)	

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

Zn Minzn. 13.0m @ 0.59% Zn 2.15%S

From	To	Colour/ Weathering / Structure	Angle CA	Log grainsize	Description	Alteration / Vein Qtz %	Mineralisation Assemblage / %
240	241	240.65 qt vein; 240.65	27°; 30° qt	qt 240.65	RHYOLITE BRECCIA; 240.65 Black shale (then qt vein d/h) fault	qt/cb	1cm vein
241	242	Fault; S0 = opp of [illegible]; 30		242.6	Black shale 241.05 – 241.16; Black shale / rhyolitic breccia breccia	qt/cb	
242	243	S0 241.05 black shale	28°	242.7	Black shale; rhyolitic breccia – grey / brown qtz feldspar phenocrysts	qt/cb	
243	244	S0 242.0 in black shale	0°		Black shale → grey [illegible]; → rhyolitic breccia a/a.	qt/cb	~1cm.
244	245			243.8; 244.9	Black shale 243.8 – 243.9; Rhyolitic breccia – qt phenox black shale lithics brown, grey, broadly banded		
245	246			245.7	a/a with small black shale lithics		py in qt/cb veinlets 1%
246	247	S0 246.6	30		Volcaniclastic sandstone 75% fg, mg laminated, / Black shale 25% 246.2 – 246.4; 246.6 – 247.3; 249.9 – 246.0		
247	248				rhyolitic pumice breccia, foliated to foliated pale brown green, vein		
248	249	248.4			pink epidote replaced pumice 'strips' V siliceous. occ qt phenocrysts, occ feldspars, occ lithics.		
249	250				green pumice 'strings' 248.4		
250	251	describe + graphic					
251	252					cmsq 251.4 vein qt/cb	sphalerite 251.3 – 251.4 30° ✓ arsenopyrite
252	253	foliation 252	30°		255.5 – 256 – occ sphalerite (pink) arsenopyrite		
253	254						
254	255				255.68 – 255.7 Black shale.		
255	256			255.9	255.7 – 255.9 green brown cracked siliceous rhyolite breccia; BLACK SHALE – massive banded		
256	257	S0 256.2	37°		laminated. Banded p green interval @ 257.3 – 257.6 – siliceous feldspar, primary volcanic		anpo? phaen? sphalerite @ 257m
257	258			257.7			
258	259				'porcellaneous' brown possibly primary volcanic – – occ pumice massive to banded, fiss [illegible]		
259	260				occasional coarser grained intervals (vague) eg 259.4 – 259.5 – (has green replaced lithics)		
260	261	S0 261.0	55°				
261	262				py 261.5 – 262.0		261.65 – 261.9 py 90° ✓
262	263	S0 262.6	30°	262.1	BLACK SHALE 50% / cream – pale brown volcaniclastic sandstone ? primary? banded interval 50%	262.2 2	py and sulphide [illegible] 262.5 90° ✓
263	264			263.9	BLACK SHALE		
264	265				265.65 – silver sulphide mineral	qt/cb sulph	py s >1 ✓
265	266	S0 264.1	40°			↓	py >1 ✓
266	267						py >1 ✓
267	268					↓	py >1 ✓
268	269						py >2 ✓
269	270					↓	py >2 ✓

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Hole No.	FTD042	Collar Location (GPS)	Graphical Drill Hole Log	Logged by	A Warren
Project :	EL 26-2004	East : 446230.00	Azimuth : 203.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower	North : 5405359.00	Declination : 65.0 degrees (provisional)	Drill type	UDR200
Grid :	MGA94	RL : 647.00	Total Depth : 380.0m (planned)	Drill Date	17/10/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		/10/2012

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Disseminatio	Pervasive
270	So 271		270		45°			BLACK SHALE								py				
271	272			271.9				271.9 - 272.8 V. puggy. d grey pugg in very broken ground.								py				
272	273	very broken ground						BLACK SHALE								py				
273	274	fault zone						271.0 - 271.1 vc veinlet								py				
274	275	dark grey						pyrite vein @ 275m.							graphite 274.9	py				
275	276	intense 275.4														py				
So	276.0				32°		276.2-276.5	vc. veinlets								py				
276	277						277									py				
277	278						277.6	277.277 ife - banded volcanic/dark vein/vein. BLACK SHALE 278.1 - 278.2 d grey puggy material. BLACK SHALE								py				
1cm	278	278 pug			sub //											py				
278	279	279.2 pug			150°											py				
279	280							279.1 - 279.3 - d grey puggy material @ ? angle to core axis								py				
280	281							BLACK SHALE								py				
fault	281		281.6		0			281.4 - 281.9 fault // to CA veam puggy material (@ 281.95 - 281.95 - core is broken lengthways).								py				
So	282.5				23°											py				
282	283															py				
So	283.1				sub //											py				
283	284															py				
So	284.9				28°			284.9 - 285.1 f/g volcaniclastic veined								py				
284	285							BLACK SHALE								py				
285	286															py				
286	287						287.1									py				
287	288							VOLCANICLASTIC SANDSTONE - grey vcg cg mg lesser fg/mg laminated in part, feldspar, qt ? little matrix qt/carbonate veins dominantly coarse grained												
288	289																			
Gt/C	289	289.0			6°															
So	290	291.0			34°			grey brown occ black interbeds occ black grey (or rhyolitic breccia)												
290	291																			
291	292																			
292	293						293.0									py	<1			
293	294							RHYOLITE BRECCIA - grey brown coarse grained occ interminated bands. Abundant qt xls foliated from 295.80							3				
294	295																			
295	296						295.8	= Boundary 295.8 PUMICEOUS RHYOLITE BRECCIA veam pale brown, qt phenocrysts, grey lithics, carbonate/matrix, foliated												
So	297.0				34°											py	<1			
296	297																			
297	298						297.9	grey lithics, carbonate/matrix, foliated RHYOLITE BRECCIA												
298	299						298.9													
fault	299						299.75	very broken shattered (pugg) volcaniclastic sandstone grey, mg, felds												
299	300																			

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PAGE 1 | OF

Hole No.	FTD042	Collar Location (GPS)	Graphical Drill Hole Log	Logged by	P Warner
Project :	EL 26-2004	East : 446230.00	Azimuth : 203.0 degrees (MGA94)	Drilled by	EDrill
Prospect :	Firetower	North : 5405359.00	Declination : 65.0 degrees (provisional)	Drill type	UDR200
Grid :	MGA94	RL : 647.00	Total Depth : 380.0m (planned)	Drill Date	17/10/2012 /10/2012
		Proj. MGA94 co-ords	Collar surveyed by: (reported / /2012)		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissemination Pervasive
300	301				0		301.5	300.3 – 301.5 – brecciated ?fault											
301	302				33°			Volcaniclastic sandstone – ltg brown interlaminated dk grey. 10cm black shale top 302.25-302.35				/							
302	303						302.35	Volcaniclastic ss – mg grey				/				py			
303	304				27°		303.35	301.5 – 306 – broken core				/				py			
304	305				0		304.4	Volcaniclastic ss – vfg, brown dk grey interlamination. SANDSTONE – grey, mg.				/				py			
305	306				21			BLACK SHALE laminated banded, occ ss interlams > occ ss bands.								py			
306	307															py			
307	308															py			
308	309															py			
309	310				28°														
310	311															py			
311	312															py			
312	313				36°			312.5 – 312.7 shear zone BLACK SHALE								py			
313	314						313.7	Sandstone Volcaniclastic – ?purple mg/cg				/				py			
314	315															py			
315	316							Sandstone fine, grey				/				py			
316	317						316.6	Sandstone, cream, mg, m-cg				/							
317	318							Black shale Sandstone/black shale ?? and breccia								py			
318	319							Volcaniclastic Sandstone – grey, cg				/							
319	320				36°		319.3	Sandstone Mafic grey				/				py			
320	321				35														
321	322				19		321.5	Black shale, banded. 321.7 – 322 grey ss fg								py			
322	323							BLACK SHALE / volcaniclastic ss fg/mg 50° banded, lam 50° not rhythmic											
323	324																		
324	325				10														
325	326																		
326	327				4														
327	328						327.9												
328	329							Volcaniclastic ss → breccia 50° / black shale 50° at a pink massive rock fault				/				py			
329	330				0							/				py	2		

fault 329.1 – 329.8

D.b fault veined.

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FTD 042

Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)		Logged by	[illegible]
Project :	EL 26-2004	East :	446230.00	Drilled by	EDrill
Prospect :	Firetower	North :	5405359.00	Drill type	UDR200
Grid :	MGA94	RL :	647.00	Drill Date	20/09/2012 /10/2012
		Proj.	MGA94 co-ords		

Azimuth : 223.0 degrees (MGA94)
Declination : 61.0 degrees
Total Depth : 450.0m (planned)
Collar surveyed by: (reported / /2012)

Legend: Massive, Pervasive, Disseminated, Narrow vein

Log grainsize scale: 0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure / Log grainsize	Description	Alteration (Silica / Sericite / Albite / Carbonate / Chlorite / Hematite)	Vein Qtz %	Mineralisation Assemblage	%	Veining / Disseminated / Pervasive
330 (150)	331 (151)						RHYOLITIC LAVA BRECCIA vfg pink rock brecciated with qtz [illegible] ± ?feldspars. Carbonate veins & occ dark veins.					
331 (151)	332 (152)											
332 (152)	333 (153)											
333 (153)	334 (154)					333.8	BLACK SHALE BRECCIA with lava breccia clasts, ?feldspars in the shale					
334 (154)	335 (155)					334.5	RHYOLITIC LAVA BRECCIA – ft phenocrysts vfg groundmass		q/lc	py pyrite	1	✓
335 (155)	336 (156)	Broken ground				335.75	BLACK SHALE + occ grey ss brecciated in part.		s/w			
336 (156)	337 (157)									py	1	✓
337 (157)	338 (158)					337.2	RHYOLITIC LAVA BRECCIA or volcaniclastic ss. vfg pink rock dark (?pyrite) veins, qtz veins [illegible] massive – texture not easily discernible.		q/lc	?py [illegible] black s/w	?	
338 (158)	339 (159)											
339 (159)	340 (160)											
340 (160)	341 (161)											
341 (161)	342 (162)											
342 (162)	343 (163)					342.7	BLACK SHALE/breccia with qtz rhyolite lava/breccia – pale green					
343 (163)	344 (164)						BLACK SHALE – massive, ?silicified, banded, occ ss interbeds		q/lc s/w	±pyrite		
344 (164)	345 (165)									py		
345 (165)	346 (166)								q/lc s/w	py veins [illegible]		✓
346 (166)	347 (167)											
347 (167)	348 (168)	vein 347.3			35°		347.3–4 lepidotised/chloritised clasts or disrupted bed.	347.3 1cm q/lc		py		
348 (168)	349 (169)								q/lc	py		
349 (169)	350 (170)	Vein 349.2			21°		349 [illegible] q/Cb – 2 carbonate [illegible] veins with chalco [illegible] to 5cm at tip			py 349.2 chalcopy in q/Cb vein		
350 (170)	351 (171)					350.4	?RHYOLITIC LAVA BRECCIA or ?volcaniclastic ss vfg feldspars pink rock, with [illegible] (?py), q/Cb veining			py? s/w black [illegible] s/w		
351 (171)	352 (172)											
352 (172)	353 (173)											
353 (173)	354 (174)	353–354.0 fault ‖ CA 0°										
354 (174)	355 (175)						RHYOLITE LAVA BRECCIA – pink quartz xls feldspars, fractured, siliceous, in pink groundmass.		q/Cb	py + chalco		✓
355 (175)	356 (176)											
356 (176)	357 (177)	broken ground								pyrite [illegible] veins		
357 (177)	358 (178)											
358 (178)	359 (179)									py		
359 (179)	360 (180)									py py		

FTD042

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Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)		Azimuth : 223.0 degrees (MGA94)	Logged by RWarren
Project :	EL 26-2004	East :	446230.00	Declination : 61.0 degrees	Drilled by EDrill
Prospect :	Firetower	North :	5405359.00	Total Depth : 450.0m (planned)	Drill type UDR200
Grid :	MGA94	RL :	647.00	Collar surveyed by:	Drill Date 20/09/2012 /10/2012
		Proj.	MGA94 co-ords		(reported / /2012)

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
360 150	361 151							Rhyolite lava breccia pink rock ana.			/			/						
361 151	362 152										/			/						
362 152	363 153		=	362.7				pumiceous Rhyolite Breccia. Brec, qt xls, feldspars, vague foliation												
363 153	364 154							green flecks ?, pumices through rock												
364 154	365 155																			
365 155	366 156						365.8													
366 156	367 157							pumiceous rhyolite breccia (or intrusion) grainy texture. qt phenocrysts, feldspar												
367 157	368 158							black flecks - pumices → foliation												
368 158	369 159																			
369 159	370 160		foliation TCA 2	24°																
370 160	371 161										/			/						
371 161	372 162										/			/						
372 162	373 163										/			/						
373 163	374 164										/			/						
374 164	375 165						374.5	CORE LOSS												
375 165	376 166													/	375.7	qtz vein				
376 166	377 167	Broken ground																		
378 168	379 169		Broken ground				378.5	Intrusion ? - pink flecks ? phenocrysts												
379 169	380 170						379.1	RHYOLITE LAVA OR INTRUSION qt feldspar xls, grainy texture			/			/		qtz veins				
380 170	381 171																			
381 171	382 172										/			/						
382 172	383 173																			
383 173	384 174																			
384 174	385 175																			
385 175	386 176																			
386 176	387 177																			
387 177	388 178																			
388 178	389 179																			
389 179	390 180																			

FTD042

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PAGE 1 OF

Graphical Drill Hole Log

Hole No.	FTD041	Collar Location (GPS)	
Project :	EL 26-2004	East :	446230.00
Prospect :	Firetower	North :	5405359.00
Grid :	MGA94	RL :	647.00
		Proj.	MGA94 co-ords
Azimuth :	223.0 degrees (MGA94)		
Declination :	61.0 degrees		
Total Depth :	450.0m (planned)		
Collar surveyed by:			(reported / /2012)
Logged by	A Newman		
Drilled by	EDrill		
Drill type	UDR200		
Drill Date	20/09/2012 /10/2012		

Massive · Pervasive · Disseminated · Narrow vein

0.062 1/4 1 4 16 64 mm

From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grainsize	Description	Alteration: Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralization: Mineralisation Assemblage	%	Veining Disseminatio Pervasive
390 150	391 151					//		RHYOLITE LAVA (OR INTRUSIVE) grainy texture of phenocrysts feldspar, black flecks, jasper coloured flecks.							1-5% Qtz veins			
391 151	392 152					//												
392 152	393 153					//									↓			
393 153	394 154					//		intermittent + selectively pink ↓ grainy throughout							↓			
394 154	395 155					//									↓			
395 155	396 156					//									↓			
396 156	397 157					//									↓			
397 157	398 158					//									↓			
398 158	399 159					//									↓			
399 159	400 160					//		399.9 - 401.1 - broken core with dry grey pug.							↓			
400 160	401 161					//									↓			
401 161	402 162					//									↓			
402 162	403 163					//									↓			
403 163	404 164					//									↓			
404 164	405 165					//									↓			
405 165	406 166					//									↓			
406 166	407 167					//									↓			
407 167	408 168					//									↓			
408 168	409 169					//									↓			
409 169	410 170					//									↓			
410 170	411 171					//									↓			
411 171	412 172					//									↓			
412 172	413 173					//									↓			
413 173	414 174					//									↓			
414 174	415 175					//									↓			
415 175	416 176					//									↓			
416 176	417 177					//									↓			
417 177	418 178					//									↓			
418 178	419 179					//									↓			
419 179	420 180					//									↓			
420	421					//									↓			
421	422					//									↓			
422	423					//									↓			
423	424					//									↓			
424	425					//		424.9 rock becomes siliceous & very red. silica marks texture but ↓ phenocryst still visible							↓			
425	425.8					//		EOH 425.8.							↓			

albite haem