



Project: Mt Read

Location: West Tasmania

Tenement: EL47/2003

Prospect: New North Farrell

Location Descriptor: Mackintosh Tk off Mackintosh Dam Rd. 150m north of the Vanderfeen House. Same pad as FDD01 & FDD02.

Hole ID: FDD03

Total Depth: 362.8	Drill Type: Diamond	Dip: -64.00	Drilling Contractor: Boart Longyear
MGA_East: 385796	Start Date: 27-Oct-05	UTM Az: 90	Rig: LY38
MGA_North: 5379551	End Date: 18-Nov-05	Mag Az: 103	Core Size: HQ
Local East: 9940	RL: 191m	Logged by: A.Habets	Driller: J.Kaye
Local North: 10852	Grid: AMG66	Designed by: A.Habets	Other:

Objective & Results: Test intercepts below FDD01 around the NNFM shaft.

Significant workings were encountered in the hole (224.4 – 225.9m & 229.6 – 232.6) above level 8. Backfill was not extracted in the tube. Survey needs to be refined to accurately position intercepts. Lode 8 in the hanging wall was continuous with FDD01 and FDD02.

Analytical Results											
depth from (m)	depth to (m)	Sample Type	Interval	SampleID	Au ppm	Ag ppm	Pb ppm	Cu ppm	Zn ppm	Fe %	BatchNo
187.85	189.30	0.5NQ	1.45	133880	0.65	3	250	90	830	5.98	EL47-008
189.30	190.50	0.5NQ	1.20	133881	-0.01	3	430	110	550	5.56	EL47-008
190.50	191.90	0.5NQ	1.40	133882	-0.01	2	270	110	390	5.76	EL47-008
191.90	193.20	0.5NQ	1.30	133883	-0.01	5	420	110	490	6.54	EL47-008
193.20	193.90	0.5NQ	0.70	133885	0.13	9	250	3150	430	12.1	EL47-008
193.90	194.60	0.5NQ	0.70	133886	-0.01	3	80	110	90	7.25	EL47-008
194.60	195.50	0.5NQ	0.90	133888	-0.01	7	250	80	300	6.21	EL47-008
195.50	195.90	0.5NQ	0.40	133889	0.06	800	14800	13900	270	15.6	EL47-008
195.90	196.50	0.5NQ	0.60	133890	0.11	13	610	180	100	4.81	EL47-008
196.50	197.50	0.5NQ	1.00	133891	0.04	6	330	120	70	6.73	EL47-008
197.50	199.20	0.5NQ	1.70	133892	0.02	5	210	100	190	6.9	EL47-008
199.20	199.90	0.5NQ	0.70	133893	-0.01	4	170	110	140	5.09	EL47-008
199.90	201.70	0.5NQ	1.80	133894	-0.01	3	200	70	250	6.39	EL47-008
222.00	223.00	0.5NQ	1.00	133895	-0.01	23	11800	20	860	3.49	EL47-008

223.00	223.80	0.5NQ	0.80	133896	-0.01	1	120	10	330	2.65	EL47-008
223.80	225.90	0.5NQ	2.10	133897	0.02	8	650	100	1410	6.34	EL47-008
225.90	226.60	0.5NQ	0.70	133898	0.02	7	2270	20	220	10.8	EL47-008
226.60	227.60	0.5NQ	1.00	133899	0.03	3	430	10	740	10.1	EL47-008
227.60	228.70	0.5NQ	1.10	133900	0.02	2	100	20	310	8.96	EL47-008
228.70	231.05	0.5NQ	2.35	133901	0.07	2	160	30	120	8.48	EL47-008
231.05	231.35	0.5NQ	0.30	133902	-0.01	90	28800	170	1930	8.07	EL47-008
231.35	232.60	0.5NQ	1.25	133903	-0.01	2	250	90	100	7.13	EL47-008
232.60	233.40	0.5NQ	0.80	133904	-0.01	9	4150	140	1030	7.01	EL47-008
233.40	234.00	0.5NQ	0.60	133905	-0.01	2	300	80	440	7.59	EL47-008
234.00	235.00	0.5NQ	1.00	133906	-0.01	2	350	80	200	7.78	EL47-008
235.00	235.90	0.5NQ	0.90	133907	-0.01	2	290	50	160	5.42	EL47-008
244.65	245.65	0.5NQ	1.00	133908	-0.01	2	440	70	540	5.97	EL47-008
245.65	246.60	0.5NQ	0.95	133909	-0.01	2	170	120	6650	4.99	EL47-008
272.90	274.00	0.5NQ	1.10	133910	-0.01	1	20	10	1210	1.14	EL47-008
274.00	274.60	0.5NQ	0.60	133911	-0.01	-1	40	10	450	1.11	EL47-008
274.60	275.65	0.5NQ	1.05	133912	-0.01	1	90	10	670	1.02	EL47-008

Geology Logging

depth from (m)	depth to (m)	Description	Mineralisation
0.00	7.80	Pebbles, boulders & gravel of Q, Qzte & mafic volc, rounded glacial scree.	
7.80	15.50	Fg Andesite lava. Gry-cream, some chlor interbeds / autoliths. Vuggy Qv 8.6m (100mm). Showing extaxitic texture from 9.5m. Core broken 11.5 - 15.5m with clay zone (fault?) at 13.0 - 13.1m & 15.0 - 15.1m.	Vf dissem py throughout
15.50	32.90	Mg pophyritic tuff / andesite grn-gry. Becoming gry-pink at 18.0m. Chloritised, massive & continuous core with eutaxitic texture. Q-Carb veins: 24.5m (50mm), 24.8m (50mm), 25.55m (50mm), 28.6m (100mm), 29.9m (400mm).	
32.90	71.60	Fg andesite lava, lt Brn-buff. Eutaxitic texture, varying silicification, massive continuous core. Erratic Q-carb Vltts throughout. Hydrothermal brecciation 66.3 - 66.55m. Significant Q-carb veining 69.6m (1100mm), 70.85m (200mm), 71.2m (150mm), 71.5m (100mm).	

71.60	94.50	Mg-Cg porphyritic andesite, Grn-Gry. Qv-Qcarb 75.5m (100mm), 75.95m (100mm), 82.9m (200mm), 83.25m (500mm). Zone of broken core 79.30m (100mm). Distinct Or-Grn porphyritic andesite 84.6 - 85.8m	Blebs pf py with possible f aspy in Q-Carb 75.4 - 75.5m
94.50	104.90	Fg dark gry-grn lava (andesite ?). Eutaxitic texture, varying silicification, narrow Q-carb Vltts throughout. Reduced to NQ core 101.8m	Vf tr of py wisps within bands
104.90	107.20	Vf grained alphanitic deformed and metamorphosed siltstone. Glassy pink - orange, with Q vltts. Similar to Petrology Sample No 133783 in FDD02	
107.20	132.30	Fg - aphanitic lava, gry-grn with eutaxitic texture. Ultramafics / heavy minerals provide distinct bands.	Vf tr of dissem py throughout
132.30	139.80	Fg - aphanitic deformed and metamorphosed siltstone (?), minor felsic autoliths	
139.80	141.50	Mg porphyritic andesite, gry-grn, chloritised	
141.50	153.30	Aphanitic-mg eutaxitic lava. Felsic autoliths & vltts. Interbeds of highly metamorphosed sediment (graphitic shale) at: 146.55m (300mm), 147.5m (250mm), 149.7m (600mm)	Py blebs <1% with tr aspy throughout
153.30	163.60	Mg-fg porphyritic andesite, buff-grn. Chloritic 156.6 - 157.9m	
163.60	165.45	Interbedded highly altered zone of Farrell Group Sediments (FGS) and Central Volcanic Complex.	
165.45	195.90	FGS. Highly contorted, boudinage, graphitic shale. Broken core 165.45 - 1655.65m. Clean massive Q & Q-Carb veins at: 165.65 (300mm), 166.60m (300mm), 172.30m (200mm). Clay gravel zone 174.50 - 174.80m. F greywacke interbeds 178.50 - 183.50m. Fault Zone with broken core 188.30 - 188.40m. Q-carbonate hydrothermal brecciation commencing 188.40m	175.90m F bleby py on fracture surface. Vf dissem py between bedding, also med grained py cubes in carbonate vltts throughout. 193.50 - 194.20m Hydrothermal infill Q-carb, 30mm wide and parallel to core, brecciated with py up to 10% of infill, trace aspy.

195.50	195.90	Ore Zone (Lode # 8). White - yellow cream Q-carbonate hydrothermal infill, brecciated, within FGS slates	Massive galena, chalcopy & py, up to 50% over ore zone
195.90	207.70	FGS shale, black & graphitic. Q-carb brecciation (no Zn & Pb noted). Minor interbeds of greywacke / sandstone throughout	Dissem py in bedding planes. Py & chalcopy in Q-carb, less 10%
207.70	214.40	Grading to a poorly sorted / brecciated shale. Numerous Q-carb vlts (no Pb / Zn). Tuff / sandstone interbed 213.0m (300mm).	Dissem py in Q-carb vlts
214.40	223.85	F crystalline grey sandstone or tuff.	222.10m Galena blebs up to 2mm. 222.75m galena vein 10mm
223.85	245.95	Graphitic shale - contorted & brecciated with significant erratic Q-carb hydrothermal infill breccia. Water Fe staining on upper contact. Cavity 1.50m between 224.40m - 225.90m. Timber recovered on tube 80mm. Cavity 0.50m between 229.60 m - 232.60m. No ore observed. Qv 235.75m (200mm), 236.40 (200mm)	224.40 - 225.90m ore zone likely mined. Py & chalcopy with vlts within Q-carbonate vlts & dissem along bedding planes. Galena 231.20m (50mm) within Q-carb & clay pug zone. 233.17m galena vltt 5mm with Q-carb hydrothermal infill
245.95	250.95	Clean graphitic shale.	
250.95	264.90	Tuff, grey with lenses and interbeds of shale, particularly 251.70 - 253.10m. Clay pug 251.70m (50mm) Fault.	Cubic py in py vlts up to 10mm at 250.90m. 246.40m (20mm) - zone of sphalerite 2mm within Q-carb vltt. Up to 10%.
264.90	292.20	Finely bedded tuff - crystalline siltstone. Vf clean Q-carb vlts. Qv system 272.90 - 275.60m. Becoming silicified at 283.40m. Qv systems at 291.15 - 292.2m, 292.45 - 292.90m, 293.50 - 294.40m	Single sphalerite blebs up to 2mm at: 275.25m, 275.31m, 275.37m, 275.55m
292.20	358.10	Black metamorphosed shale with interbeds of tuff. Lenses of greywacke / siltstone up to 3mm 317.70 - 331.40m. Brecciated Q-carbonate vltt system 337.60 - 338.30m. Qv 341.15m (250mm), 341.80m (450mm), 343.0m (400mm)	Py in cleavage surface at 295.75m. Vf dissem py in bedding & vf vlts (wisps) throughout <<1%. Cg py within brecciated Q-carb vltt at 341.25m & 342.70m
358.10	360.70	Cream crystalline tuff, cream coloured, metamorphosed.	

360.70	362.80	Interbedded shale & tuff	Vf py in bedding & vlts throughout <1%
--------	--------	--------------------------	----------------------------------------

EOH

Geology Summary		
depth from (m)	depth to (m)	Geological Code
0.00	7.80	GS
7.80	163.60	CVC
163.60	165.45	IBZ
165.45	188.40	FS
188.40	188.41	FCC
188.41	195.50	FS
195.50	195.90	Lode zone
195.90	214.40	FS
214.40	223.85	MCT
223.85	324.40	FS
224.40	225.90	Lode zone
235.90	358.10	FS
258.10	291.15	MCT
291.15	294.00	Qz Vn Zone
294.00	362.80	MCT

Petrology	
Report ID:	
Depth:	
Sample ID:	
Lithology:	
Type:	
Petrologist:	
Date Reported:	
Hand Specimen:	
Report ID:	
Depth:	
Sample ID:	
Lithology:	
Type:	
Petrologist:	
Date Reported:	
Hand Specimen:	

Core Recovery			
depth from (m)	depth to (m)	Recovery	Recovery %
0.00	3.80	0.20	5
3.80	7.60	0.50	13
7.60	10.60	2.80	93
10.60	13.30	2.50	93
13.30	16.40	2.90	94
16.40	19.50	3.15	102
19.50	22.60	3.20	103
22.60	25.60	2.95	98
25.60	28.60	3.10	103
28.60	31.60	3.00	100
31.60	34.60	2.90	97
34.60	37.60	3.00	100
37.60	40.60	3.05	102
40.60	43.60	3.05	102
43.60	46.60	2.95	98
46.60	49.60	3.05	102
49.60	52.60	3.00	100
52.60	55.60	3.05	102

55.60	58.60	3.00	100
58.60	61.60	3.00	100
61.60	64.60	3.00	100
64.60	67.60	3.00	100
67.60	70.60	3.00	100
70.60	73.60	3.05	102
73.60	76.30	2.65	98
76.30	79.30	3.10	103
79.30	82.40	3.15	102
82.40	85.50	3.10	100
85.50	88.60	3.10	100
88.60	91.60	3.05	102
91.60	94.60	3.05	102
94.60	97.60	3.00	100
97.60	100.60	2.95	98
100.60	103.60	2.85	95
103.60	106.60	3.10	103
106.60	109.60	2.80	93
109.60	112.60	3.00	100
112.60	115.60	3.00	100
115.60	117.50	1.55	82
117.50	118.60	1.10	100
118.60	120.60	2.00	100
120.60	123.70	3.05	98
123.70	124.60	1.00	111
124.60	127.60	3.00	100
127.60	130.60	3.00	100
130.60	133.60	3.00	100
133.60	136.60	3.00	100
136.60	139.60	2.95	98
139.60	142.60	3.05	102
142.60	145.60	2.90	97
145.60	148.60	3.00	100
148.60	151.60	2.90	97
151.60	154.60	2.95	98
154.60	157.60	2.80	93
157.60	160.60	2.85	95
160.60	163.60	2.90	97
163.60	166.60	2.70	90

166.60	169.30	2.00	74
169.30	172.40	2.90	94
172.40	175.00	1.85	71
175.00	178.10	2.75	89
178.10	181.20	3.10	100
181.20	184.30	3.65	118
184.30	187.40	2.00	65
187.40	190.50	3.60	116
190.50	193.60	3.10	100
193.60	196.50	2.75	95
196.50	199.20	2.30	85
199.20	201.70	2.25	90
201.70	202.60	0.95	106
202.60	204.80	2.00	91
204.80	207.90	3.00	97
207.90	211.00	3.00	97
211.00	214.10	3.00	97
214.10	217.20	3.00	97
217.20	220.30	3.00	97
220.30	223.50	3.05	95
223.50	224.40	0.80	89
224.40	226.60	0.55	25
226.60	229.60	2.90	97
229.60	232.60	2.25	75
232.60	235.60	2.95	98
235.60	237.80	1.90	86
237.80	239.60	1.80	100
239.60	241.60	1.85	93
241.60	242.30	0.75	107
242.30	244.60	2.30	100
244.60	247.50	2.80	97
247.50	250.60	3.10	100
250.60	252.40	1.50	83
252.40	253.90	1.40	93
253.90	256.60	2.80	104
256.60	259.60	3.05	102
259.60	262.60	2.90	97
262.60	265.60	3.00	100
265.60	268.60	3.00	100
268.60	271.60	3.00	100
271.60	274.60	2.95	98
274.60	277.60	3.00	100
277.60	280.60	2.95	98
280.60	283.60	2.70	90
283.60	286.60	2.95	98
286.60	289.60	3.05	102
289.60	292.60	2.90	97
292.60	295.60	2.95	98
295.60	298.60	2.90	97
298.60	301.60	2.95	98
301.60	302.90	1.20	92
302.90	303.30	0.30	75
303.30	306.40	3.05	98

306.40	308.50	2.05	98
308.50	310.60	2.05	98
310.60	313.20	2.40	92
313.20	316.20	3.10	103
316.20	319.30	3.05	98
319.30	322.40	3.00	97
322.40	325.50	3.05	98
325.50	328.50	3.05	102
328.50	331.60	3.05	98
331.60	334.60	2.95	98
334.60	336.70	2.10	100
336.70	339.80	3.05	98
339.80	340.60	0.80	100
340.60	342.90	2.30	100
342.90	346.00	3.00	97
346.00	349.60	3.25	90
349.60	352.60	3.05	102
352.60	355.30	2.50	93
355.30	358.00	2.60	96
358.00	361.10	3.05	98
361.10	362.50	1.40	100
362.50	362.80	0.20	67

Survey						
depth (m)	Dip	UTM Azimuth	Mag Azimuth	Instrument	Operator	Date Read
0	-64.00	90.00	103			
25	-63.00	95.00	108	Multi-shot	J.Kaye	28-Oct-05
50	-62.00	95.00	108	Multi-shot	J.Kaye	31-Oct-05
67	-61.50	95.00	108	Multi-shot	J.Kaye	1-Nov-05
88	-61.00	95.00	108	Multi-shot	J.Kaye	2-Nov-05
112	-58.00	94.00	107	Multi-shot	J.Kaye	3-Nov-05
133	-54.50	92.00	105	Multi-shot	J.Kaye	4-Nov-05
154	-51.75	91.00	104	Multi-shot	J.Kaye	8-Nov-05
175	-50.75	91.00	104	Multi-shot	J.Kaye	9-Nov-05
202	-49.00	91.00	104	Multi-shot	J.Kaye	9-Nov-05
232	-47.00	91.00	104	Multi-shot	J.Kaye	11-Nov-05
259	-46.00	91.00	104	Multi-shot	J.Kaye	14-Nov-05
289	-45.50	92.00	105	Multi-shot	J.Kaye	15-Nov-05
319	-45.00	88.00	101	Multi-shot	J.Kaye	16-Nov-05
355	-43.50	88.00	101	Multi-shot	J.Kaye	17-Nov-05

Significant Intersections			
depth from (m)	depth to (m)	m	Ag g/t
187.85	201.70	13.85	27.6
195.5	195.9	0.4	800
222.00	235.90	13.90	7.0

244.65	246.60	1.95	2.0
272.90	274.00	1.10	1.0
274.60	275.65	1.05	1.0

depth from (m)	depth to (m)	m	Pb %	Cu ppm	Fe %
195.5	195.9	0.4	1.48	1.39	15.6
222	223	1	1.2	20.0	3.5