



Project: Mt Read

Location: West Tasmania

Tenement: EL47/2003

Prospect: New North Farrell

Location Descriptor: Opposite the Telecom Installation on West side of Mackintosh Dam Rd. Between Innes Tk and power line.

Hole ID: FDD05

Total Depth:	250.1
MGA_East:	385859
MGA_North:	5379697
Local East:	10055
Local North:	11345

Drill Type:	Diamond
Start Date:	20/01/06
End Date:	07/02/06
RL:	199m
Grid:	AMG66

Dip:	-50.00
UTM Az:	107.40
Mag Az:	120
Logged by:	A.Habets
Designed by:	A.Habets

Drilling Contractor:	Boart Longyear
Rig:	LY38
Core Size:	HQ/NQ
Driller:	J.Kaye
Other:	

Objective & Results: To test a high grade zinc block between Level 5 and Level 6 at 11,300N local Farrell grid, of the NNFM that has not been worked.

Although a higher background of zinc was assayed throughout the hole, no zinc lode material was observed. Pb grades were and it appears that the lodes have 'pinched out' in the northern extensions of the NNFM.

Analytical Results											
depth from (m)	depth to (m)	Sample Type	Interval	SampleID	Au ppm	Ag ppm	Pb ppm	Cu ppm	Zn ppm	Fe %	BatchNo
147.60	148.00	NQ Core		133942	0.07	5	330	60	1840	8.42	EL47-012
148.00	149.00	NQ Core		133943	0.03	3	140	60	290	5.96	EL47-012
149.00	150.00	NQ Core		133944	0.01	2	-10	160	150	5.8	EL47-012
150.00	151.00	NQ Core		133945	0.03	2	10	100	100	4.87	EL47-012
157.00	158.00	NQ Core		133946	0.01	2	30	70	120	4.82	EL47-012
158.00	159.00	NQ Core		133947	0.01	2	10	110	110	5.97	EL47-012
159.00	160.00	NQ Core		133948	-0.01	2	10	110	120	5.4	EL47-012
160.00	161.00	NQ Core		133949	-0.01	3	40	90	120	5.67	EL47-012
166.20	167.00	NQ Core		133950	0.02	6	120	60	80	6.54	EL47-012
167.00	168.00	NQ Core		133951	0.01	6	270	50	2490	7	EL47-012
168.00	169.00	NQ Core		133952	0.02	6	180	70	410	5.21	EL47-012
169.00	170.00	NQ Core		133953	0.01	5	210	90	100	5.19	EL47-012
182.30	183.00	NQ Core		133954	0.01	2	20	60	60	3.7	EL47-012
183.00	184.00	NQ Core		133955	-0.01	3	30	50	60	3.59	EL47-012
184.00	185.00	NQ Core		133956	-0.01	3	20	90	70	5.17	EL47-012
185.00	186.00	NQ Core		133957	-0.01	2	80	100	1010	3.74	EL47-012
186.00	187.00	NQ Core		133958	-0.01	3	10	110	100	5.08	EL47-012

187.00	188.00	NQ Core		133959	-0.01	3	300	100	700	4.49	EL47-012
189.00	190.50	NQ Core		133962	-0.01	3	700	100	870	5.87	EL47-012
190.50	192.00	NQ Core		133963	0.01	2	70	120	70	5.76	EL47-012
192.00	192.50	NQ Core		133964	-0.01	3	110	40	70	6.63	EL47-012
192.50	193.50	NQ Core		133965	-0.01	6	70	90	70	5.7	EL47-012
193.50	194.30	NQ Core		133966	-0.01	70	26700	50	340	8.82	EL47-012
194.30	195.00	NQ Core		133967	-0.01	19	7400	80	440	7.35	EL47-012
195.00	196.00	NQ Core		133968	-0.01	8	190	110	460	7.06	EL47-012
196.00	197.00	NQ Core		133969	-0.01	3	50	150	170	4.34	EL47-012
197.00	198.00	NQ Core		133970	-0.01	1	-10	20	60	1.46	EL47-012
198.00	199.00	NQ Core		133971	-0.01	-1	30	10	100	0.96	EL47-012
199.00	200.00	NQ Core		133972	-0.01	1	430	10	100	1.92	EL47-012
200.00	200.20	NQ Core		133973	0.01	100	70300	300	90	10.3	EL47-012
200.20	201.00	NQ Core		133974	-0.01	8	1180	390	50	4.95	EL47-012
201.00	202.00	NQ Core		133975	-0.01	12	950	860	110	5.44	EL47-012
202.00	202.30	NQ Core		133976	-0.01	3	1150	50	200	3.1	EL47-012
202.30	203.50	NQ Core		133977	-0.01	2	520	10	520	1.97	EL47-012
203.50	205.00	NQ Core		133978	-0.01	1	350	10	610	1.77	EL47-012
205.00	206.50	NQ Core		133979	-0.01	1	360	10	520	2	EL47-012
206.50	208.00	NQ Core		133980	-0.01	2	380	10	1190	2.2	EL47-012
208.00	209.00	NQ Core		133981	-0.01	2	730	10	2400	2.81	EL47-012
209.00	210.00	NQ Core		133982	-0.01	9	1150	60	1120	5.16	EL47-012
213.00	213.50	NQ Core		133983	-0.01	3	290	100	570	5.82	EL47-012
213.50	214.30	NQ Core		133984	-0.01	9	3400	100	2020	6	EL47-012
214.30	215.00	NQ Core		133985	-0.01	3	920	60	3170	6.16	EL47-012
215.00	216.00	NQ Core		133986	-0.01	4	820	60	2740	6.65	EL47-012
216.00	217.00	NQ Core		133987	0.01	3	440	90	1220	5.37	EL47-012
217.00	217.90	NQ Core		133988	-0.01	3	450	130	860	6.13	EL47-012

Geology Logging

depth from (m)	depth to (m)	Description	Mineralisation
0	1.8	Ox volcanics & scree with limonite staining.	

1.8	11.2	Mg-fg porphyritic andesite, Gry - grn, some erratic Q-carb veins & Vltts	
11.2	18.3	Fg volcanic (andesite). Or - Gry. Eutaxitic texture. Highly broken core in Qv at 14.0 - 15.10m.	Orange mineral replacement in Qvltts
18.3	38.1	Fg andesite, Gry - Grn, chloritised in parts. Glassy & eutaxitic texture 28.60 - 32.20m. Brecciated with felsic autoliths 25.15 - 26.0m. Fuchsite-sericite carbonate schist 28.70m See PETROLOGY REPORT 133935 <i>Fine to medium grained schist, with moderate foliation and composed of dominant carbonate (dolomite), sericite-fuchsite and quartz, with minor disseminated pyrite and chlorite, and traces of rutile, chromite, galena, sphalerite and chalcopyrite. A few irregular syn-tectonic carbonate veins irregularly cut the foliation. The rock may represent a former porphyritic volcanic rock (or epiclastic) of andesitic to mafic composition. There is an analogy between the composition of the rock and some of the host rocks to the Hellyer massive sulphide deposit. Qv 36.50 - 37.50m with minor carbonate.</i>	
38.1	53.6	Mg-Cg porphyritic andesite Or - Grn with a chlorotic matrix & Vltts. Qv 47.40 - 47.90m (highly broken), 49.20 - 50.10m, 51.25 - 51.80m, 53.40 - 53.60m	
53.6	60.3	Fg volcanic (andesite). Grn - Gry, massive continuous core with minor Q & Q-carb vltts. Start NQ coring.	
60.3	82.6	Mg & grading to fg porphyritic andesite, Gry - Grn. Continuous massive core. Qv 72.10m (200mm) & 73.05m (250mm).	
82.6	100.15	Fg volcanic (andesite), Gry - cream. Eutaxitic flow banding throughout. Chloritic in parts and a well developed cleavage 97.30 - 99.0m	
100.15	124.05	Vf volcanic, OR-Gry with some Q porphyry. Becoming silicified at 121.50m.	
124.05	126.05	Metamorphosed INTERBED ZONE of CVC and FGS. Gry - Blk	
126.05	126.85	Metamorphosed INTERBED ZONE of CVC and FGS. Olive - Blk	

126.85	131.7	Metamorphosed INTERBED ZONE of CVC and FGS. Olive - Blk	
131.7	134.4	Fg volcanic with sutured Q margins, Olive - Gry, silicified.	
134.4	136.5	FGS with felsic autoliths. Not cleaved. Blk - Olive - Gry	
136.5	172.3	FGS Blk shale upper contact 60° to unorientated core. Tuffaceous to 139.60m. Finely bedded becoming tuffaceous and contorted in parts. Cleavage sub parallel to bedding. First sign of hydrous cream carbonate 147.90. Qv 160.0m (100mm). Tuffaceous schist interbed 164.1 - 164.30m. Clay pug fault 166.10m. Barren carbonate stringers 166.5 - 167.5m	F blebs of py on cleavage surfaces at 140.30m. "Wispy" py in carbonates 147.90 - 148.40m. Flaky py on fracture plane 158.70m. F py in carbonate vltt stringers 159.0m. F altered sphal (?) in Qv with f dissem py at 160.0m
172.3	173.5	Tuffaceous schist, Gry lower contact discernible at 010°/50°. Clay puggy fault zone at Qv contact at 172.0m	Sphal within hydrous carbonate infill 167.30m (70mm). F py vltts sub-parallel to core 170.0 - 170.5m. Vf rare dissem py throughout.
173.5	177.6	Qv white clean with some chlorite pits and rare carbonate stringers	
177.6	182.5	F bedded siltstone or shale (000°/55°). Gry Q lenses (or polyclinal folds) 181.3m (200mm) & 182.15m (350mm)	
182.5	196.6	Black shale. Brecciated and highly broken to 184.20m. Tuffaceous interbeds and Q lenses (polyclinal folds). Clay pug zone 183.90 (50mm), becoming F blk shale with white tuffaceous interbed parallel to bedding. Barren carbonate 187.8 - 188.80m & 192.15 (50mm)	Vf blebs of galena 193.70 - 194.10m (less 5%) in cream hydrous carbonate infill. 196.30m blebby py over 40mm (20%)
196.6	209.8	Tuffaceous schist (Murchison crystalline tuff), light gry - blk with cream carbonate ore zone 200.20 - 202.20m. Carbonate stringer orientated at 005°/80°W at 202.30m. Carbonate stringers becoming narrow and show little potential for fluid pathways 203.0 - 209.40m. Core brecciated & broken 209.40 - 209.80 with Q & Q-carb lenses.	Galena blebs & vltts within cream carbonate 20% over 100mm at 202.20m. Tr py, chalcopy & gal throughout carbonate to 202..30m. Single bleb of gal 203.15m in carbonate. Possible rare alt sph blebs at 203.90m
209.8	250.3	Shale, well bedded, contorted, blk with little cleavage development, carbonate (siderite) vltts. Fault zone 213.65 with 100mm zone of brecciated carbonate. Further brecciated carbonate 216.90m (30mm), 217.10m (20mm), 217.60m (20mm). Limonite staining 217.30 - 219.60m (possible drive development in vicinity). Clay pug fault zone 230.40m (100mm). Qv 230.60m (700m).	213.65m alt sph with py & chalcopy up to 10% over 100mm. 213.15 py vltts in carbonate stringers. 217.60m sphal in carb vltts. 217.95m sphal in Q-carb 10%. 228.75m py vltts."Wispy"" py vltts & dissem py 244.30 - EOH (less 2%).
250.3		EOH	

Geology Summary		
depth from (m)	Depth to (m)	Geoligical Code
0.00	124.05	CVC
124.05	131.70	IBZ
131.70	134.40	CVC
134.40	147.90	FS
147.90	147.91	FCC
147.91	172.30	FS
172.30	173.50	MCT
173.50	177.60	Qz Vn Zone
177.60	196.60	FS
196.60	202.20	MCT
202.20	203.15	Lode zone
203.15	209.80	MCT
209.80	230.60	FS
230.60	231.30	Qz Vn Zone
231.30	250.30	FS

Petrology	
Report ID:	133935
Depth:	28.70
Sample ID:	133935
Lithology:	CVC
Type:	
Petrologist:	Paul Ashley ANU
Date Reported:	
Hand Specimen:	

Core Recovery			
depth from (m)	depth to (m)	Recovery	Recovery %
0	7.4	4.0	54
7.4	10.4	3.1	103
10.4	13.4	3.0	100
13.4	16.4	2.9	97
16.4	18.7	2.2	96
18.7	21.8	3.0	97
21.8	24.9	3.1	100
24.9	27.9	3.0	100
27.9	31	3.4	110
31	34.2	3.0	94
34.2	37.3	3.0	97
37.3	40.3	3.0	100
40.3	43.2	3.0	103
43.2	46.3	3.1	100
46.3	49.3	3.1	103

49.3	52.3	3.0	100
52.3	55.3	2.9	97
55.3	58.3	3.0	100
58.3	61.3	3.0	100
61.3	64.3	3.0	100
64.3	67.3	3.0	100
67.3	70.3	3.0	100
70.3	73.3	3.0	100
73.3	76.3	3.0	100
76.3	79.3	2.9	97
79.3	82.3	3.0	100
82.3	85.3	3.0	100
85.3	88.3	3.0	100
88.3	91.3	3.1	103
91.3	94.3	3.1	103
94.3	97.3	3.0	100
97.3	100.3	3.1	103
100.3	103.3	3.0	100
103.3	106.3	3.0	99
106.3	109.3	3.0	99
109.3	112.3	3.1	103
112.3	115.3	2.9	97
115.3	118.3	3.0	100
118.3	121.3	3.0	100
121.3	124.3	2.9	97
124.3	127.3	3.1	103
127.3	130.3	2.9	97
130.3	133.3	3.0	102
133.3	136.3	2.8	93
136.3	139.3	3.1	103
139.3	141.4	2.2	105
141.4	144.6	3.1	97
144.6	147.6	3.0	100
147.6	150.8	3.2	100
150.8	153.9	3.0	97
153.9	156.9	3.0	100
156.9	160	3.0	97
160	163.1	3.0	97
163.1	166.2	3.0	97
166.2	169.1	3.0	103
169.1	172.2	3.1	100
172.2	175.3	3.1	100
175.3	178.3	3.0	100
178.3	181.3	3.0	100
181.3	184.2	3.0	103
184.2	187.3	3.0	97
187.3	190.3	3.0	100
190.3	193.3	3.1	103
193.3	196.3	3.0	100
196.3	199.3	3.0	100
199.3	202.3	3.0	100
202.3	205.3	3.0	100
205.3	208.3	3.0	100
208.3	211.3	3.0	100
211.3	214.3	3.0	100
214.3	217.3	3.1	103
217.3	220.3	3.0	100

220.3	223.3	3.0	100
223.3	226.3	3.0	100
226.3	229.3	3.0	100
229.3	232.3	3.0	100
232.3	235.3	3.0	100
235.3	238.3	3.0	100
238.3	241.3	3.0	100
241.3	244.3	3.0	100
244.3	247.3	2.9	97
247.3	250.3	3.0	100

Survey						
depth (m)	Dip	UTM Azimuth	Mag Azimuth	Instrument	Operator	DateRead
0	-50.00	107.40	120	Multishot		
16	-50.00	108.40	121	Multishot	J. Kaye	20-Jan-06
37	-49.50	111.90	124.5	Multishot	J. Kaye	23-Jan-06
58	-49.00	112.40	125	Multishot	J. Kaye	24-Jan-06
79	-47.00	109.40	122	Multishot	J. Kaye	25-Jan-06
100	-42.80	105.40	118	Multishot	J. Kaye	25-Jan-06
121	-35.00	102.40	115	Multishot	J. Kaye	26-Jan-06
142	-34.50	100.40	113	Multishot	J. Kaye	27-Jan-06
163	-34.00	99.40	112	Multishot	J. Kaye	30-Jan-06
184	-34.00	99.40	112	Multishot	J. Kaye	31-Jan-06
205	-34.00	100.40	113	Multishot	J. Kaye	01-Feb-06
226	-34.50	99.40	112	Multishot	J. Kaye	02-Feb-06
250	-31.00	97.40	110	Multishot	J. Kaye	07-Feb-06

Significant Intersections			
depth from (m)	depth to (m)	m	Ag g/t
147.60	151.00	3.40	2.6
157.00	161.00	4.00	2.3
166.20	170.00	3.80	5.7
182.30	210.00	27.70	6.2
213.00	217.90	4.90	4.2

depth from (m)	depth to (m)	m	Pb %	Cu ppm	Fe %
193.5	195	1.5	1.8	65.0	8.1