ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) CHP 238 1 of 6

LOCATION Colebrook Hill

OBJECTIVE To test coincident magnetic, E.M., and E.I.P. anomalies.

RESULT Geophysical anomalies due to disseminated and veinlet pyrrhotite. Low grade Sn mineralisation intersected.

TOTAL DEPTH 230m
HOLE SIZE HQ -12m NQ-63m BQ-
COMMENCED 8.11.82
COMPLETED 18.11.82
LOGGED BY I.J. Mathison

03

8-12 Metre	13-16 Direction	17-18-21 Dip.	8-12 Metre	13-16 Direction	17-18-21 Dip.
77	080°	41°			
128	089°	37°			
179	094°	30°			
230	096°	26°			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 45°
DIRECTION (16-19) 087° AMG
R.L. (20-23) 480.1
CO-ORDS. 5,371,022.9N 374,974.6E
LOCATION Colebrook Hill

METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%	CORE REC'D RUN	CORE REC'D SHORT
															0	-
0	12.0	Non core drilling													12.0	NR
12.0	26.2	Oxidised pale brown, fine grained clayey wacke with rare thin siltstone bands. Core rubbly in places. cba 30°													14.0	0.2
															17.0	0.5
															20.0	2.1
															23.0	1.0
26.2	32.0	Rubbly, iron stained, bleached fine grained wacke and indurated grey siltstone, thin limonite coatings on fractures.													26.0	1.4
															29.0	0.5
															32.0	2.2
															35.0	1.2
															38.0	2.0
32.0	38.0	Oxidised pale brown, fine grained clayey wac ke - often rubbly													40.0	0.1
															41.0	-
															44.0	-
38.0	42.3	Partially oxidised and slightly leached grey, fine grained wacke - core irregularly broken. Vughs possibly represent carbonate grains and patches.													47.0	-
															50.0	-
															53.0	-
															56.0	-
		Base of significant oxidisation													59.0	-
															62.0	-
42.3	43.4	Grey, fine grained, siliceous wacke. Sparse thin carbonate veins.													63.0	-
															65.0	-
															68.0	-
															71.0	-
43.4	54.0	Grey and dark grey "Crackle breccia" formed by ?soft sediment ?brecciation of wacke and siltstone with rehealing by quartz-carbonate veinlets. 30cm massive quartz-carbonate after 48.6	Irregular thin pyrite veins 46.4-46.8. 5cm magnetite with minor pyrrhotite at 52.8												74.0	-
															77.0	-
															80.0	-
															83.0	-
															86.0	-
															89.0	-
54.0	58.0	Green grey and grey fine grained wacke and siltstone. Minor irregular quartz-carbonate veining.													92.0	0.10
															95.0	-
															98.0	-
58.0	62.4	Dark grey and grey fine grained wacke.	~5% pyrrhotite as thin blebs along bedding and as veinlets.												101	-
															104	-
															107	-
															110	-
															113	-

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DIAMOND DRILL CORE RECORD

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
62.4	65.9	Grey, medium grained ?dolerite with carbonate euhedra in a green, grey ground mass. Minor carbonate veining. 64.0 Sample for thin section (48264)														116 119 122 125 128 131	– – – – – –
65.9	66.6	Grey and dark grey, interbedded siltstone and shale, brecciated and rehealed by quartz carbonate veins.	~5% pyrrhotite as blebs, veinlets and in carbonate veins.													134 137 138.5	– – 0.10
66.6	71.0	Grey fine to medium grained ?dolerite with carbonate subhedra and minor carbonate veins.														140 143 146 149 152	– – – – –
71.0	74.9	Dark grey mudstone with interbedded siltstone in places. Carbonate veining. 72.0 Sample for thin section (48265)	~10% pyrrhotite as blebs along bedding and veinlets.													155 156.2 158 161	– 0.10 0.60 0.60
74.9	76.0	Grey medium grained lithic wacke with rounded mudstone fragments and finer grained rounded detritus in a clayey matrix.	~1% pyrrhotite disseminated throughout.													164 167 170 172.7 175.8 178.9	– – – – – –
76.0	82.8	Grey and dark grey interbedded fine grained wacke, siltstone and mudstone. Some quartz carbonate veining. cba 40° Scour and fill indicate uphole (west) facing.	~10% pyrrhotite as blebs along bedding, disseminated and in veinlets.														
82.8	86.5	Grey and dark grey medium grained calcareous lithic wacke, calcareous siltstone and mudstone. 84.0 Sample for thin section (48266)	~1% disseminated pyrrhotite														
86.5	88.5	Greey grey fine grained ?basalt, veined and chloritised in places. 87.0 Sample for thin section (48267)															
88.5	91.3	Grey and dark grey calcareous siltstone & mudstone, cba 50°, grading indicates uphole (west) facing	~10% pyrrhotite as blebs & veinlets, 20cm calcite, magnetite with minor pyrrhotite & chalcopyrite at end														

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DIAMOND DRILL CORE RECORD

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
		91.8 90.8 Sample for thin section (53303) 91.1 Sample for thin section (53304)															
91.3	98.0	Green grey mudstone, siltstone & fine grained wacke. Good evidence of uphole (west) facing from grading and scour and fill	~10% pyrrhotite in veins, veinlets and disseminated 2cm pyrrhotite+chalcopyrite +arsenopyrite at 91.8														
98.0	104.6	Dark grey to green grey medium grained lithic wacke to mudstone-laminated in places 98.2 Sample for thin section (48268)	3cm pyrrhotite & chalcopyrite at 100.8. Minor disseminated & veinlet pyrrhotite														
104.6	107.4	Dark grey and green grey disturbed siltstone and mudstone – only rarely calcareous.	~10% pyrrhotite as veinlets & disseminated.														
107.4	115.8	Pale green grey lithic wacke to mudstone bedding often disturbed by soft sediment deformation. Good uphole (west) facing at 111.2 – mudstone fragments at base of coarse lithic wacke.	~5% pyrrhotite in veinlets and blebs – increasing to end with minor pyrite.														
115.8	118.2	Dark green grey foliated medium grained volcanic arenite with calcareous cement Grains are well sorted and rounded. Numerous thin carbonate veins.	Minor pyrrhotite & pyrite in veins.														
118.2	128.0	Green grey medium grained lithic wacke to siltstone. Bedding often disturbed by soft sediment deformation. 20cm carbonate breccia with 20cm volcanic arenite at 120.5	<5% pyrrhotite disseminated and in veinlets.														
128.0	133.0	Dark grey fine grained wacke. Minor carbonate veining.															
133.0	135.5	Green grey siltstone – laminated in places-some soft sediment deformation.															

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
135.5	137.8	Dark grey, medium grained, foliated, volcanic arenite – rounded basic volcanic fragments in carbonate cement. 136.8 Sample for thin section (48269)															
137.8	142.2	Dark grey and green grey fine grained wacke and siltstone. Quartz carbonate veins with patches of chloritization common.	Minor pyrrhotite and trace cahlcopyrite in quartz-carbonate veins.														
142.2	144.6	Greenish grey intensely veined wacke. Vein material disrupted by deformation.															
144.6	148.7	Greenish grey fine grained wacke to siltstone. Irregular quartz carbonate veins. cba 50°	Minor pyrite in quartz carbonate veins.														
148.7	153.1	Dark grey, medium grained volcanic wacke to siltstone. Grading indicates down-hole (east) facing.	Minor blebs of pyrrhotite														
153.1	158.8	Dark grey, very disrupted, sheared and intensely veined calcareous siltstone 156–157 thin medium grained carbonate bed.	153.2–153.5 ~30% pyrrhotite with minor chalcopyrite in chloritic carbonate veins														
158.8	171.0	Dark grey and green grey soft sediment slump breccia of wacke and siltstone fragments. Some early carbonate veins also disrupted. Carbonate veins common. 168.2 Sample for thin section (48270)	Rare pyrrhotite blebs and veinlets														
171.0	175.0	Dark grey mudstone with some thin limestone and wacke units – patches of intense carbonate veining and replacement. Grading indicates uphole (west) facing.	~20% pyrrhotite as massive replacements, veinlets and bedded disseminations														
175.0	186.2	Pale grey stylolitic limestone – bedded with thin muddy bands in places. 182.5 Sample for thin section (48271)	10–20% pyrrhotite in veinlets starts to 177.2 & 185.5 to end. Irregular magnetite veinlets & disseminated magnetite 177.3–177.8														

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
186.2	187.0	Contorted and brecciated mudstone – dark grey & grey green	~20% pyrrhotite in veins & replacements														
187.0	191.5	Cycles of grey wacke to dark grey shale – cycles 40–50cm. Numerous pyritic beds – many replaced & remobilised as pyrrhotite Consistent uphole facing	5cm pyrite 188.5 1cm pyrite 188.8 & 189.8 1cm pyrrhotite 190.7, 190.8 & 191.2														
191.5	193.0	Brecciated and veined wacke and shale	~20% pyrrhotite in coarse sediments & veinlets.														
193.0	200.0	Cycles of grey fine grained wacke to black shale with 1–5cm pyrite or pyrrhotite beds every 50cm approx. cba 70°. Consistent uphole facing. Bedding plane cleavage.	Pyrite beds & pyrrhotite bands – average one every 50cm.														
200.0	205.0	Grey fine grained wacke to black shale – laminated and with bedding plane cleavage	2cm pyrrhotite 202.8 5cm pyrite 205.0 Other thin bands 204.5														
205.0	107.0	Brecciated black shale, minor limestone and siltstone. Fracture system at 30° to core.	~20% pyrrhotite & pyrite as blocks, veins & patches.														
207.0	216.5	Black shale & siltstone with contorted laminations & disrupted bedding. No bedding plane cleavage.															
216.5	221.5	Black shale, siltstone & grey fine grained wacke. 219.7 Sample for thin section (48272)	~10% pyrrhotite & minor pyrite pyrite as veins, replacements & thin beds. 20cm pyrite bed at 219.5 in f fine grained wacke.														
221.5	225.4	Grey fine grained wacke to black shale with bedding plane cleavage. cba 60°	3cm pyrrhotite 223.4 1cm " 223.1 2cm " 225.1														
225.4	230 EOH	Slumped fine grained wacke, siltstone & black shale															

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FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
		SAMPLES FOR PETROPHYSICAL MEASUREMENTS 48273 84.1m 48274 93.0m 48275 102.0m 48276 164.0m 48277 179.0m 48278 187.0m 48279 218.5m Refer to Report by D. Emerson Samples 48264 – 272 described in C.M.S. Report 82/11/37 Samples 53303 – 04 described in C.M.S. Report 82/1/3															

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S = Sawn core
G = Grind or chip

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Cu	Pb	Zn	Fe%	Mn	Cr	Ag	As	Sn	W
G46381	12.00	17.00		5.00	130	25	370	11.0	1200	100	1.0	17	X	8
382	17.00	20.00		3.00	395	90	500	10.5	1400	45	1.5	100	26	X
383	20.00	23.00		3.00	140	20	290	9.55	860	95	X	6	X	X
384	23.00	26.00		3.00	150	60	345	9.00	850	75	1.0	11	X	X
S46385	26.00	29.00		3.00	765	25	305	13.0	4350	90	X	540	1160	
386	29.00	32.00		3.00	235	20	470	25.0	1.50%	75	X	75	2040	
G46387	32.00	35.00		3.00	130	40	230	8.55	1750	60	1.0	8	39	13
388	35.00	38.00		3.00	115	55	300	8.00	1050	55	1.0	X	X	13
389	38.00	43.00		5.00	165	110	560	7.80	1050	160	X	X	X	X
46390	43.00	48.00		5.00	50	115	350	3.45	1300	50	0.5	8	X	8
391	48.00	53.00		5.00	30	60	200	2.45	1900	35	0.5	11	X	X
392	53.00	58.00		5.00	105	35	150	7.55	1950	60	1.0	21	4	10
S46393	58.00	59.00		1.00	205	170	125	8.30	3150	65	X	101	135	
394	59.00	60.00		1.00	280	60	105	8.65	1350	100	1.0	105	38	
395	60.00	61.00		1.00	130	45	135	5.90	2300	95	X	36	8	
396	61.00	62.00		1.00	170	35	115	8.85	5500	55	1.5	130	37	
397	62.00	63.00		1.00	100	50	440	6.50	2000	50	1.0	31	X	
398	63.00	64.00		1.00	130	30	165	6.50	1700	65	0.5	8	X	
399	64.00	65.00		1.00	120	10	145	7.75	2150	70	0.5	101	14	
46400	65.00	66.00		1.00	130	10	125	7.65	2700	80	X	22	X	
52201	66.00	67.00		1.00	125	20	150	8.25	4400	150	X	101	31	
G52202	67.00	71.00		4.00	80	35	145	7.40	1350	290	0.5	5	X	9
S 203	71.00	72.00		1.00	70	5	125	6.95	1900	245	1.0	28	X	
204	72.00	73.00		1.00	195	5	170	8.65	2650	145	0.5	170	110	
205	73.00	74.00		1.00	130	5	120	6.75	1950	110	1.5	19	5	
206	74.00	75.00		1.00	210	10	105	7.70	2200	145	1.0	40	14	
207	75.00	76.00		1.00	70	15	120	7.20	2350	285	1.0	46	X	
208	76.00	77.00		1.00	140	15	130	8.25	2050	100	X	98	103	
209	77.00	78.00		1.00	100	15	300	7.50	1300	105	0.5	5	X	
52210	78.00	79.00		1.00	110	60	910	6.35	1950	180	0.5	X	X	
211	79.00	80.00		1.00	125	70	680	6.05	1800	230	X	7	X	
212	80.00	81.00		1.00	125	265	1350	6.60	820	120	0.5	X	X	
213	81.00	82.00		1.00	100	15	330	7.45	1350	155	1.0	X	X	
214	82.00	83.00		1.00	110	85	360	6.95	1900	150	0.5	X	X	
215	83.00	84.00		1.00	75	20	165	6.40	2100	315	1.5	12	X	
216	84.00	85.00		1.00	90	40	225	7.15	1400	330	0.5	X	X	
217	85.00	86.00		1.00	70	70	195	7.40	1500	290	1.0	19	X	
218	86.00	87.00		1.00	115	30	160	6.50	1550	90	0.5	18	X	
219	87.00	88.00		1.00	160	15	155	8.20	2000	65	1.0	47	9	

S = Sawn core
G = Grind or chip

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Cu	Pb	Zn	Fe%	Mn	Cr	Ag	As	Sn	W
S52220	88.00	89.00		1.00	85	20	150	4.85	1050	55	X	5	X	
221	89.00	90.00		1.00	60	20	315	4.75	910	55	X	X	X	
222	90.00	91.00		1.00	60	20	95	3.60	1850	30	X	3	X	
223	91.00	92.00		1.00	510	10	100	15.00	9150	65	1.0	5900	1540	
224	92.00	93.00		1.00	140	10	175	8.15	1450	70	1.5	78	40	
225	93.00	94.00		1.00	100	35	155	6.35	1400	75	1.5	16	X	
226	94.00	95.00		1.00	130	40	760	7.55	1400	80	1.5	320	8	
227	95.00	96.00		1.00	125	20	160	7.45	995	80	1.5	10	X	
228	96.00	97.00		1.00	110	10	155	2.20	1300	165	0.5	9	X	
229	97.00	98.00		1.00	125	20	135	7.50	1050	155	1.0	130	X	
52230	98.00	99.00		1.00	120	15	130	7.30	1000	165	0.5	5	X	
231	99.00	100.00		1.00	125	10	130	7.95	1050	255	0.5	12	X	
232	100.00	101.00		1.00	235	X	140	9.05	2850	170	1.0	33	183	
233	101.00	102.00		1.00	120	5	150	7.95	1025	75	X	8	X	
234	102.00	103.00		1.00	105	X	140	7.95	980	50	X	4	X	
235	103.00	104.00		1.00	95	X	130	8.40	1050	55	X	9	X	
236	104.00	105.00		1.00	120	X	110	7.50	1250	45	X	9	X	
237	105.00	106.00		1.00	105	10	145	4.20	1055	55	X	X	X	
238	106.00	107.00		1.00	105	15	180	4.40	1200	35	X	X	X	
239	107.00	108.00		1.00	100	10	165	5.15	1250	30	X	6	X	
52240	108.00	109.00		1.00	120	10	125	6.65	1100	95	X	4	X	
241	109.00	110.00		1.00	120	X	220	8.25	1150	110	X	X	X	
242	110.00	111.00		1.00	90	15	140	7.20	1700	195	X	6	X	
243	111.00	112.00		1.00	95	15	125	7.00	1750	255	1.0	7	X	
244	112.00	113.00		1.00	95	15	135	7.15	1350	125	1.0	38	5	
245	113.00	114.00		1.00	125	70	525	5.05	775	50	1.5	6	X	
246	114.00	115.00		1.00	130	295	895	4.75	795	45	0.5	8	X	
247	115.00	116.00		1.00	140	230	1600	5.75	965	100	1.5	X	X	
G52248	116.00	119.00		3.00	80	10	175	7.40	1450	330	1.0	13	X	X
249	119.00	124.00		5.00	95	40	190	7.20	1650	145	0.5	7	X	23
52250	124.00	129.00		5.00	115	85	270	8.35	1350	110	1.0	X	X	27
251	129.00	134.00		5.00	120	25	210	8.30	1500	145	0.5	23	X	8
252	134.00	139.00		5.00	85	50	265	7.55	1600	320	1.0	10	X	7
253	139.00	144.00		5.00	75	25	160	9.25	4000	155	1.5	18	5	X
254	144.00	149.00		5.00	135	85	330	8.00	1200	125	1.0	7	X	X
255	149.00	153.00		4.00	70	15	145	6.80	1400	60	1.0	6	X	21
S52256	153.00	154.00		1.00	175	15	195	8.40	3950	90	1.5	99	33	
257	154.00	155.00		1.00	35	20	80	6.40	2500	30	X	15	17	
258	155.00	156.00		1.00	10	15	65	4.85	1.00%	20	0.5	3	X	
259	156.00	157.00		1.00	115	10	75	5.55	3850	35	1.5	35	10	
52260	157.00	158.00		1.00	40	10	85	8.00	2000	70	2.0	41	X	

S = Sawn core
G = Grind or chip

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Cu	Pb	Zn	Fe%	Mn	Cr	Ag	As	Sn
S52261	158.00	159.00		1.00	35	10	75	6.40	1700	45	0.5	25	5
262	159.00	160.00		1.00	60	10	70	6.10	1150	40	X	46	X
263	160.00	161.00		1.00	25	5	95	6.70	1650	50	1.5	17	X
264	161.00	162.00		1.00	15	5	75	5.25	1400	40	1.5	17	X
265	162.00	163.00		1.00	60	10	70	4.15	715	65	1.5	19	X
266	163.00	164.00		1.00	60	10	75	4.65	845	50	1.0	12	X
267	164.00	165.00		1.00	75	15	90	6.65	1750	90	1.5	35	7
268	165.00	166.00		1.00	145	10	80	5.00	995	75	1.5	30	X
269	166.00	167.00		1.00	90	5	80	5.25	985	25	0.5	19	X
52270	167.00	168.00		1.00	100	10	80	5.05	1200	65	1.0	20	X
271	168.00	169.00		1.00	25	15	60	4.70	1150	40	1.0	19	6
272	169.00	170.00		1.00	30	10	60	4.30	1150	40	1.0	39	X
273	170.00	171.00		1.00	30	10	55	5.40	1300	45	1.5	51	10
274	171.00	172.00		1.00	270	15	55	7.15	4000	20	1.0	160	24
275	172.00	173.00		1.00	60	25	45	2.95	1350	80	1.5	29	7
276	173.00	174.00		1.00	80	25	20	1.50	135	75	1.5	29	17
277	174.00	175.00		1.00	85	40	30	1.75	160	50	1.5	26	72
278	175.00	176.00		1.00	20	20	90	1.61	905	50	1.0	17	X
279	176.00	177.00		1.00	10	25	35	1.50	3000	10	1.0	X	X
52280	177.00	178.00		1.00	10	10	35	15.0	2.20%	X	X	8	12
281	178.00	179.00		1.00	5	10	25	1.85	2650	5	X	3	X
282	179.00	180.00		1.00	5	10	30	1.65	2750	5	X	5	X
283	180.00	181.00		1.00	5	20	75	1.70	2550	5	0.5	X	X
284	181.00	182.00		1.00	5	20	180	1.55	3650	X	X	4	X
285	182.00	183.00		1.00	5	10	45	1.25	2700	X	X	4	X
286	183.00	184.00		1.00	5	5	30	1.15	2500	5	X	X	X
287	184.00	185.00		1.00	5	20	35	1.50	2700	X	X	X	X
288	185.00	186.00		1.00	15	15	30	2.50	3100	X	X	4	X
289	186.00	187.00		1.00	85	10	30	3.60	1350	10	X	11	19
52290	187.00	188.00		1.00	25	10	55	1.50	235	15	X	19	X
291	188.00	189.00		1.00	25	20	45	1.95	840	10	X	31	X
292	189.00	190.00		1.00	20	10	35	2.55	660	10	X	19	X
293	190.00	191.00		1.00	25	10	25	2.55	595	20	X	13	X
294	191.00	192.00		1.00	20	5	25	2.15	560	15	X	16	X
295	192.00	193.00		1.00	35	5	30	2.85	950	10	X	11	8
296	193.00	194.00		1.00	40	5	25	2.45	470	15	X	20	6
297	194.00	195.00		1.00	40	5	30	3.30	985	20	X	12	10
298	195.00	196.00		1.00	80	10	20	3.10	425	20	X	4	14
299	196.00	197.00		1.00	155	10	20	3.65	730	20	X	1700	21
52300	197.00	198.00		1.00	35	5	25	2.90	765	20	X	21	7
53201	198.00	199.00		1.00	30	15	30	2.80	570	20	X	19	X
202	199.00	200.00		1.00	40	20	30	1.90	605	20	0.5	17	X
203	200.00	201.00		1.00	30	5	30	2.80	575	15	X	35	X
204	201.00	202.00		1.00	30	15	30	2.90	440	30	X	19	X

S = Sawn core
G = Grind or chip

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Cu	Pb	Zn	Fe%	Mn	Cr	Ag	As	Sn	W
S53205	202.00	203.00		1.00	25	15	25	3.20	550	20	X	24	X	
206	203.00	204.00		1.00	25	10	30	2.60	440	15	X	19	X	
207	204.00	205.00		1.00	20	15	30	3.00	710	20	X	13	X	
208	205.00	206.00		1.00	20	25	35	3.40	1300	20	X	12	X	
209	206.00	207.00		1.00	45	20	25	1.75	1200	25	X	19	X	
53210	207.00	208.00		1.00	20	5	25	2.45	470	20	X	22	X	
211	208.00	209.00		1.00	20	10	35	3.20	755	20	X	17	X	
212	209.00	210.00		1.00	25	10	25	2.85	430	20	X	15	6	
213	210.00	211.00		1.00	50	15	40	3.50	575	40	X	105	4	
214	211.00	212.00		1.00	30	10	20	2.05	315	30	X	33	10	
215	212.00	213.00		1.00	25	10	25	2.15	340	25	X	19	X	
216	213.00	214.00		1.00	25	15	35	3.30	650	25	X	4	X	
217	214.00	215.00		1.00	25	30	75	3.25	1000	25	0.5	15	5	
218	215.00	216.00		1.00	25	5	25	2.10	365	20	X	19	X	
219	216.00	217.00		1.00	35	15	40	2.90	800	30	X	160	X	
53220	217.00	218.00		1.00	45	25	45	3.10	1250	30	X	72	X	
221	218.00	219.00		1.00	30	25	35	2.70	710	25	0.5	31	X	
222	219.00	220.00		1.00	25	20	25	2.15	575	20	X	29	X	
223	220.00	221.00		1.00	40	25	25	2.85	875	30	X	7	X	
224	221.00	222.00		1.00	55	25	25	3.10	950	25	0.5	450	14	
225	222.00	223.00		1.00	40	10	25	3.10	665	30	0.5	21	7	
226	223.00	224.00		1.00	50	15	30	3.00	425	25	0.5	13	X	
227	224.00	225.00		1.00	25	15	30	2.60	715	30	0.5	18	X	
228	225.00	226.00		1.00	25	15	25	2.70	570	20	0.5	13	X	
G53229	226.00	230.00		4.00	20	15	45	2.35	515	30	X	9	X	X

CHP 238

E Z ROSEBERY LOT 1

December, 1982

PHYSICAL PROPERTIES

Sample	k cgs x 10^{-6}	$\tilde{J}$	NRM Azimuth°	Incl°	Q_n	DBD gms/cc	P_a %	ρ0.1 ohm m	σ0.1 S/M	PFE 0.1-1.0 Hz
48273 (84.10)	230	(a) 964		-37	7	2.84	0.3	2617	3.82×10^{-4}	0
		(b) 2,782	354	-17		2.72	0.3			
-4 (93.00)	1100	(a) 18,915		-33	28	2.81	0.9	1546	6.47×10^{-4}	25
		(b) 6,167	226	-57		2.84	0.3			
-5 (102.00)	150	(a) 95		-41	1	2.80	0.5	1678	5.96×10^{-4}	0
		(b) 92	042	-44		2.82	0.7			
-6 (164.00)	140	(a) 21	104	- 4	0.2	2.80	0.15	2445	4.09×10^{-4}	0
		(b) 36	<	-46?		2.79	2.4			
-7 (179.00)	100	(a) 2		-35	0.03	2.88	0.3	3296	3.03×10^{-4}	0
		(b) 0.4	128	-42		2.84	0.4			
-8 (187.00)	290	(a) 2,900		-69	16	2.78	1.2	731	1.37×10^{-3}	18%
		(b) 189	106	-48		2.72	0.6			
48279 (218.50)	280	(a) 446		-61	2.5	2.79	1.2	324	3.09×10^{-3}	17% (1-10 Hz)
		(b) 350	037	-33		2.77	1.4			

Notes:

1. k: is magnetic volume susceptibility in cgs x 10^{-6}, all samples are weakly susceptibile except No. 48274 which is moderately susceptible and also strongly remanently magnetized.
2. NRM: remanence data given as $/\tilde{J}/$ in μgauss i.e. emu x 10^{-6} (magnitude) and inclination. All inclinations are positive w.r.t. core markings but really negative i.e. the magnetization is pointing uphole; the absolute azimuth is not known because of lack of orientation in the x-y plane.
3. Q_n: Koenigsberger Ratio: the ratio of remanent to induced ($k/\tilde{F}/$) magnetization $/\tilde{F}/$ is taken as 0.625 gauss (62500 nT) rounded figure cited.
4. DBD is dry bulk density and P_a is apparent porosity - two pieces of each sample were measured.
5. ρ0.1 is the 0.1 H_z (≈DC) resistivity for water saturated cores as supplied. σ0.1 is the conductivity in seimens/metre.
6. PFE is percent frequency effect (ρ0.1 - ρ1.0)/(ρ1.0) in the frequency domain. A rough rule of thumb is that 1% PFE ≈ 5 mv sec/volt chargeability (m.secs) ≈ -5½ m.rad. phase shift.
7. The electrical properties obtain for the blocks submitted - it should be remembered that inhomogenieties and jointing (if present) will affect in situ resistivities - generally rendering them less than those measured in the lab. See the attached sheet for computation of in situ resistivities in jointed ground.