

DRILLHOLE SUMMARY INDD002

HOLE: **INDD002** PROJECT: Indiana
DATE DRILLED: 25-29 June 2008 DRILL BY: Prime Drilling
GEOLOGIST: Michael Green
TARGET: 200 seimens ground EM conductor at 140 m.

MGA_E: 589281 MGA_N: 7445077
DIP: -60° DIP AZIMUTH: 240°true (235°mag)

HOLE DEPTH: 177 m
PRECOLLAR DEPTH: 9 m
ROD SIZE & DEPTH: HQ₃ 9.0-41.4 m; NQ₂ 41.4-177 m
DEPTH OF TRANSPORTED COVER: 5 m
DEPTH TO BASE OF OXIDATION: 31.5 m (clay), 47.4 m (oxidised fractures), fault zone completely oxidised (83.75-97.3 m)
WATER IN HOLE: no

COMMENTS: 50 mm casing to bottom of hole

CORE MARKED & MEASURED: Yes
GEOPHYSICAL LOGS: mag sus & geiger on whole core
PHOTOGRAPHY: yes
CORE CUT: only mineralised intervals
SAMPLING: only mineralised intervals

SURVEYS

Depth	Dip	Mag Azimuth	True Azimuth	Depth	Dip	Mag Azimuth	True Azimuth
0	-60	235	240				
51	-60.4	233	238				
102	-60.6	233.4	238.4				
150	-60.3	233.8	238.8				

ORIENTATION MARKS: Chinograph spear at 51 and 102 m.

GEOLOGY/MINERALISATION:

Top 5 m comprises aeolian-colluvial sand overlying alluvial-colluvial gravel. Bedrock geology comprises quartz-biotite-feldspar-garnet gneiss and green to white layered calc-silicate units. There is a fault zone between 83.75-97.2 m. The stratigraphy is mirrored across this fault zone and the gross geometry is interpreted to be a broken through very tight antiform.

Stringer to blebby pyrrhotite-pyrite-chalcopyrite is best developed in and around a dark green, foliated hornblende-chlorite-rich units between 62.5-66.7 and 100.9-113.9 m. The chalcopyrite content is up to 2 % between 113.5-114.0 m, but is typically <1 %. There is significant fine-grained pink garnet alteration around both mineralised units with 80% replacement between 103.0-107.0. Mineralisation is interpreted to be pre-metamorphic and developed around sedimentary carbonate units. There is some magnetite developed with the mineralisation.

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From	To	Colour	Weather	Lithology	Variant	Mineral	Struct	α	Comments
0	2	rb	transported	aeolian/ colluvium	sand, gravel				percussion precollar
2	5	wh	transported	alluvial	gravel				percussion precollar; qt Vn & PSM cobbles-gv; cb fizz
5	9	lye	high	calcsilicate	medium-grained, massive				
9	29.9	yb	high	calcsilicate					minor interlayered qt bi fd gneiss; oxidised, clay - saprolite
29.9	31.3	gy	moderate	psammopelitic gneiss	medium-grained, foliated	qt bi fd cl			oxidised, clay after fd; <1% medium-grained disseminated py
31.3	48	gy	slight	psammopelitic gneiss	medium-grained, foliated	qt bi fd cl gt	S0, S1	80	<1% medium-grained disseminated py; oxidised fractures; becoming more pelitic downhole; 1% fine-grained disseminated py in bi-rich domains; layers = beds; ca-py VN @ 43.75m
48	62.5	lgr wh	fresh rock	calcsilicate	medium-grained, foliated	hb dp cl qt ab gt	S0, S1	80	gradational upper contact; layers = beds; mor gt at top; 1% fine-grained disseminated py=po; magnetic; <1% cp in ca VN @ 57.5m; mt-ca-po-py VN @ 59.3m
62.5	66.7	dgr	fresh rock	calcsilicate	medium-to coarse-grained, massive to foliated	hb dp ab qt cl gt	S0, S1	80	fine-grained gt-rich layers <10 cm thick; stringer, bleb to semi-massive po>py>>cp - 5% total sulphide; ?pyrobitumen
66.7	83.75	wh	fresh rock	calcsilicate	medium-to coarse-grained	ca hb dp	S0, S1	80	<1% disseminated py=po, 2% po=hm @ 74.8m; remnant layering defined by less ca
83.75	97.3	yb	high	FAULT	massive	ca go mk			puggy; breccia; oxidised - rusty; lost core at top of unit
97.3	100.9	wh	fresh rock	calcsilicate	medium-to coarse-grained	ca hb dp			gradational upper contact
100.9	113.9	dgr rd	fresh rock	calcsilicate	medium-to coarse-grained	dp hb gt cl qt	S0, S1	60	fine-grained gt-rich bands; stringer to semi-massive po=py>cp - best between 111.5-114.0m
113.9	116.8	lgr wh	fresh rock	calcsilicate		hb dp qt ab	S0, S1	60	layered; gradational contacts; <1% py=po
116.8	124	gy	fresh rock	psammopelitic gneiss	medium-grained, foliated	dt bi gt cl fd	S0, S1	80	minor calc-silicate bands; <1% py
124	177	dgy	fresh rock	calcsilicate	medium-grained, foliated	hb qt bi cl	S0, S1	70	different from other calc-silicates; different composition - Ca-rich siltstone?; layered = bedding?; folded; no gt, so perhaps less aluminous

