

## DRILLHOLE SUMMARY INDD001

HOLE: **INDD001** PROJECT: Indiana  
DATE DRILLED: 9-15 June 2008 DRILL BY: Prime Drilling  
GEOLOGIST: Michael Green  
TARGET: 100 seimens ground EM conductor at 147 m.

MGA\_E: 588484 MGA\_N: 7445554  
DIP: -60° DIP AZIMUTH: 260°true (255°mag)

HOLE DEPTH: 183.3 m  
PRECOLLAR DEPTH: 7 m  
ROD SIZE & DEPTH: HQ<sub>3</sub> 7.0-29.7 m; NQ<sub>2</sub> 29.7-183.3 m  
DEPTH OF TRANSPORTED COVER: 4 m  
DEPTH TO BASE OF OXIDATION: 23.1 m  
WATER IN HOLE: no

COMMENTS: 50 mm casing to bottom of hole; 30 m steel HQ rods stuck at top 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	255	260				
51	-61.8	252.2	257.2				
99	-62.9	252.0	257.0				
150	-63.8	251.8	256.8				

ORIENTATION MARKS: Chinograph spear at 51 and 102 m.

### GEOLOGY/MINERALISATION:

Top 4 m comprises aeolian-colluvial sand and gravel. Bedrock geology comprises quartz-biotite-feldspar gneiss with lesser garnet-chlorite-kyanite and layered quartz-epidote-hornblende-calcite calc-silicate units. All of these units are interpreted to be metamorphosed sediments indicating an original package of interbedded siltstone, mudstone and carbonates.

Stringer to blebby pyrrhotite-pyrite-chalcopyrite is best developed in and around a dark green, foliated hornblende-chlorite-rich unit between 149.8-160.4 m. The chalcopyrite content is up to 2 % between 155.0-155.5 m, but is typically <1 %. The main host unit was initially interpreted as a metamorphosed mafic magmatic unit, but similar units in INDD002 are more consistent with a sedimentary origin, which is now the preferred interpretation. Sulphide stringers are folded in adjacent psammopelitic gneiss (eg 145.5 and 163 m) and mineralisation is interpreted to be pre-metamorphic. Some unusual units around this main

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mineralised zone are probably metamorphosed alteration associated with mineralisation. Mineralisation is also associated with magnetite.

From	To	Colour	Weather	Lithology	Variant	Mineral	Struct	$\alpha$	Comments
0	4	rb	transported	aeolian/colluvium	sand/gravel				percussion precollar
4	7	gy	moderate	psammopelitic gneiss					percussion precollar
7	23.1	gy	slight	pelitic gneiss	medium- to coarse-grained foliated	bi qt fd cl ab	S0, S1	60	banded and layered; 20 cm wide calc-silicate ep-qt-ca-dp ?boudins - coarse-grained, more massive, probably elliptical
23.1	41.6	gy	fresh rock	psammopelitic gneiss	medium- to coarse-grained foliated	bi qt fd cl ab	S0, S1	60	40% interlayered calc-silicate - ep-qt-ca-dp - layers are generally banded subparallel to gneissosity in psammopelite to 3m wide; minor po>py
41.6	44.2	dgy	fresh rock	pelitic gneiss	coarse-grained	bi qt fd gt ky st py	S0, S1	60	
44.2	60.4	gy	fresh rock	psammopelitic gneiss	medium- to coarse-grained foliated	bi qt fd cl ab	S0, S1	60	50% interlayered calc-silicate ep-qt-ca-dp-ac; as for 23.1-41.6m
60.4	64.6	dgy	fresh rock	pelitic gneiss	coarse-grained foliated	bi qt fd cl ab			minor calc-silicate; possible large antiform - axial plane subparallel to foliation
64.6	99.5	lgg	fresh rock	calcsilicate	medium-grained foliated	ep cl ac ab ca	S0, S1	70	minor psammopelitic to pelitic layers; rootless folds; large fold at 90m; trace po-py
99.5	109.5	gy	fresh rock	pelitic gneiss	coarse-grained foliated	bi qt ft fd	S0, S1	70	minor pelite and calc-silicate
109.5	113.9	gg	fresh rock	calcsilicate	medium-grained foliated	ep qt ca ac	S0, S1	70	minor psammopelite to pelite; <<1% disseminated py
113.9	125.7	gy	fresh rock	psammopelitic gneiss	medium-grained foliated	bi qt fd gt	S0, S1	60	minor pelite and calc-silicate; <1% disseminated py & stringer py-po
125.7	128.4	gr	fresh rock	calcsilicate	medium-grained, massive	qt ep dp ca			
128.4	129.25	gy	fresh rock	psammopelitic gneiss	medium-grained foliated	bi qt fd	S0, S1	60	layered; minor py bands subparallel to foliation
129.25	131.1	wh	fresh rock	calcsilicate	mg ma	ca ep dp			<<1% disseminated py
131.1	139.4	gy	fresh rock	psammopelitic gneiss	medium- to coarse-grained foliated	bi qt fd cl			minor calc-silicate layers; <<1% py bands subparallel to foliation
139.4	149.8	gy wh	fresh rock	calcsilicate	coarse-grained, massive	qt ca bi pl dp hb cl			includes qt-rich domain, dalmation rock with coarse-grained hb-cl-pl-qt & interconnected semi-massive py-po-mt-cp; metamorphosed alteration; folded pelite 145-146m
149.8	160.4	dgr	fresh rock	calcsilicate	medium-grained	cl hb ab py po mt			weakly foliated massive-blebby po>py>>cp; minor coarse-grained mt; possible pyrobitumen with \$\$
160.4	164.6	gy	fresh rock	pelitic gneiss	coarse-grained foliated	bi ky qt cl po py mt	S0, S1	60	py-po in foliation and folded; some py-po becoming stringer
164.6	175	gg	fresh rock	calcsilicate	medium-grained foliated	qt hb ep ca	S0, S1	60	some large fold hinges
175	183.3	gy	fresh rock	psammopelitic gneiss	medium-grained foliated	bi qt cl fd	S0, S1	60	minor calc-silicate bands; folds

