



Figure 3

## Bedrock Geology & Bonnie Creek - Nullagine CID

Date: 29/4/2007

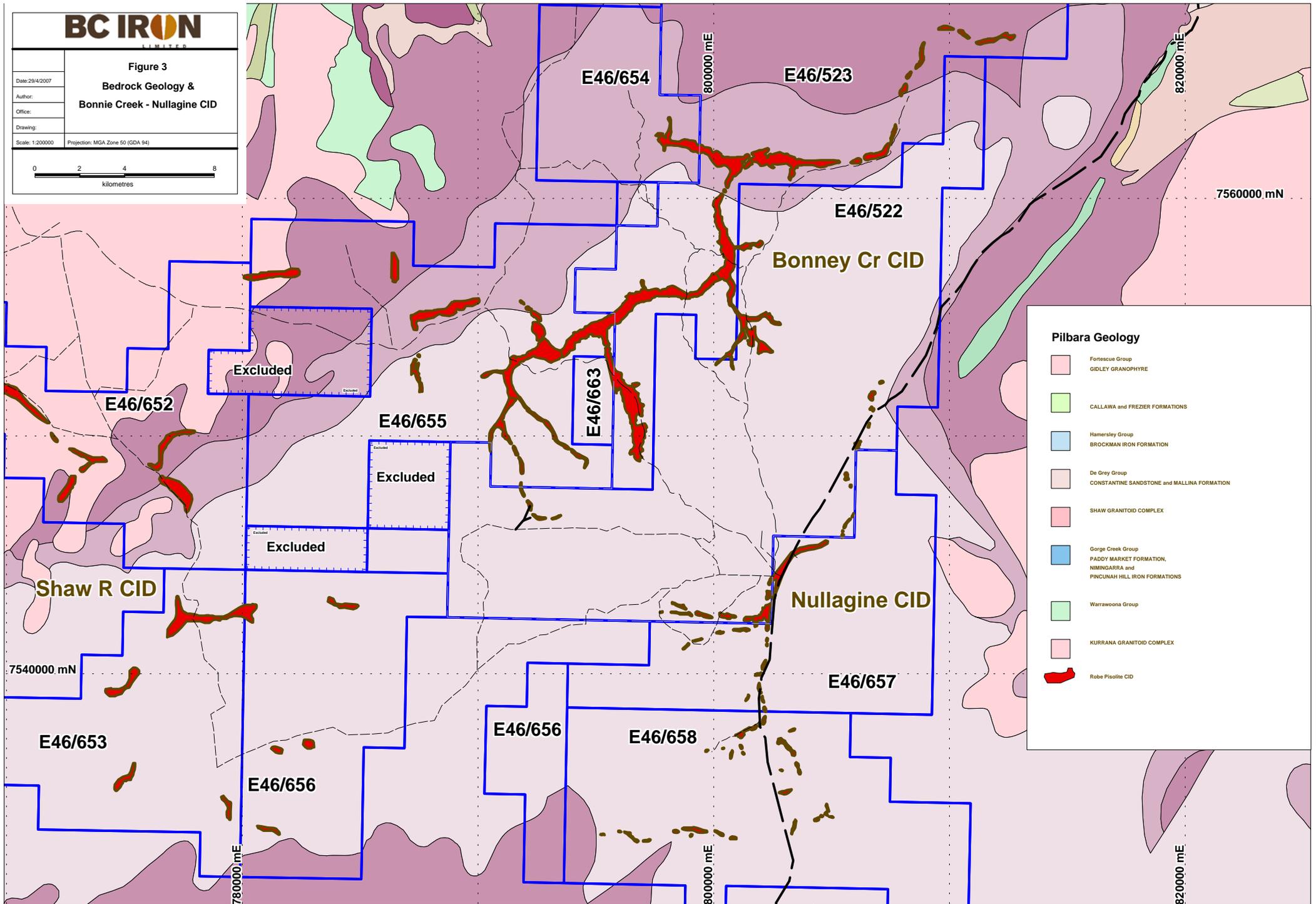
Author:

Office:

Drawing:

Scale: 1:200000

Projection: MGA Zone 50 (GDA 94)



### Pilbara Geology

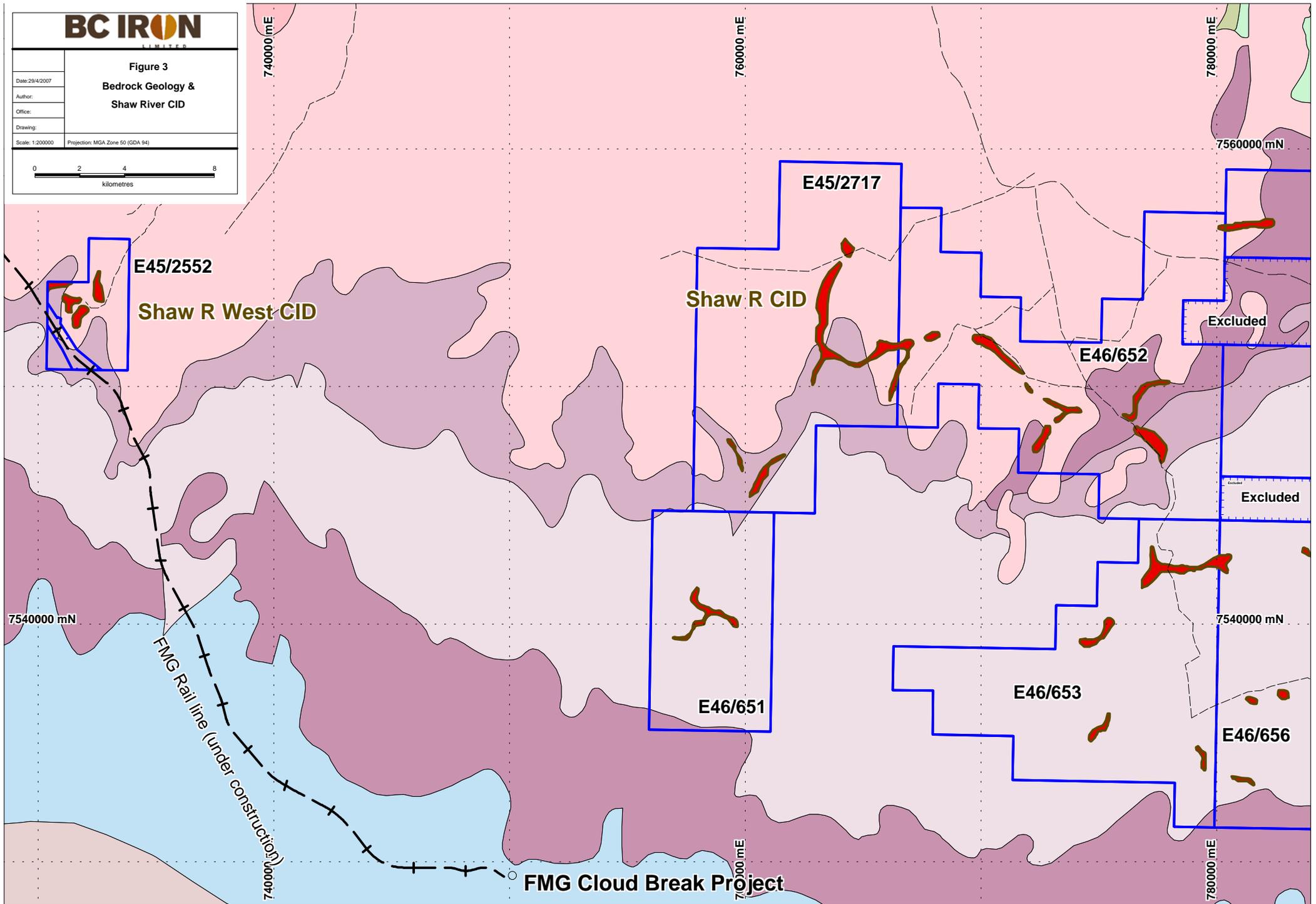
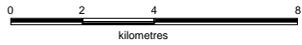
- Fortescue Group  
GIDLEY GRANOPHYRE
- CALLAWA and FREZIER FORMATIONS
- Hammersley Group  
BROCKMAN IRON FORMATION
- De Grey Group  
CONSTANTINE SANDSTONE and MALLINA FORMATION
- SHAW GRANITOID COMPLEX
- Gorge Creek Group  
PADDY MARKET FORMATION,  
NMINGARRA and  
PINCUNAH HILL IRON FORMATIONS
- Warrawoona Group
- KURRANA GRANITOID COMPLEX
- Robe Pisolite CID

**Figure 3**

**Bedrock Geology &  
Shaw River CID**

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## EXPLORATION

### Heritage & Native Title

The cyclones which affected the Pilbara region during March resulted in delays to both the Aboriginal Heritage survey and of RC drilling. Despite this set back, and with the grateful assistance of the Pilbara Native Title Service and the Palyku Claimant group, BC Iron was able to obtain heritage clearance over parts of the Bonnie Creek and Nullagine River CID systems.

While no significant sites were identified during the survey three areas of artefact scatter were found and BC Iron has deferred drilling in these areas until the results of the initial program are assessed and further surveys conducted (Figure 4). The second part of the heritage survey will take place in mid-May with drilling to re-commence shortly thereafter. Approximately 185 holes for 4,000 m remain to be surveyed and drilled. It is still expected that the Phase 1 program will be completed by the end of June.

### RC Drilling

Reverse Circulation drilling commence in early April and is continuing with 117 holes drilled for 3,191 m. Approximately 66 holes for 1,500 m remain to be drilled in those areas of the Bonney Creek-Nullagine program which have heritage clearance.

The Channel Iron Deposits (**CID**) at Nullagine comprise two main zones; an upper, iron-enriched pisolitic channel iron (**FeCID**) which becomes clay bearing at depth. The FeCID overlies the second zone – a clay-rich saprolitic channel deposit zone (**cyCID**). The cyCID comprises both transported clays and locally derived, saprolitic iron tholeiite basalt. Each of the zones have minor variations within them such as thin clay-rich or iron-rich seams.

RC Drilling during April focussed on completing the first pass drilling on three prospects, **Outcamp**, **Woggies**, and **Ornamental** (Figure 4).

The FeCID logged at **Outcamp-Woggies** (Figure 5) comprises vitreous goethite + hematite ± limonite and have a consistent thicknesses of between 6 to 8 m from surface overlaying 2 to 5 m of clay - goethite FeCID. The thickest sequence of FeCID logged thus far reaches is 17 m. The FeCID thins towards the west end of the Woggies CID to approximately 3 m from surface.

The FeCID at **Ornamental** CID (Figure 6) is absent to thin on the eastern boundary but thickens towards the west and is up to 6 m thick on the western flank. The topography here is typified by small cliffs and breakaways. The FeCID is dominated by vitreous goethite pisolite with limonitic cores and wood fragments. Goethite is more dominant over hematite in this area as compared to Woggies-Outcamp. This FeCID increases in thickness towards the north near the confluence of the Bonnie Creek CID.

Analytical results are pending and are expected within the first week of May.

Figure 4  
Prospect Areas &  
RC Drill Collar Plan

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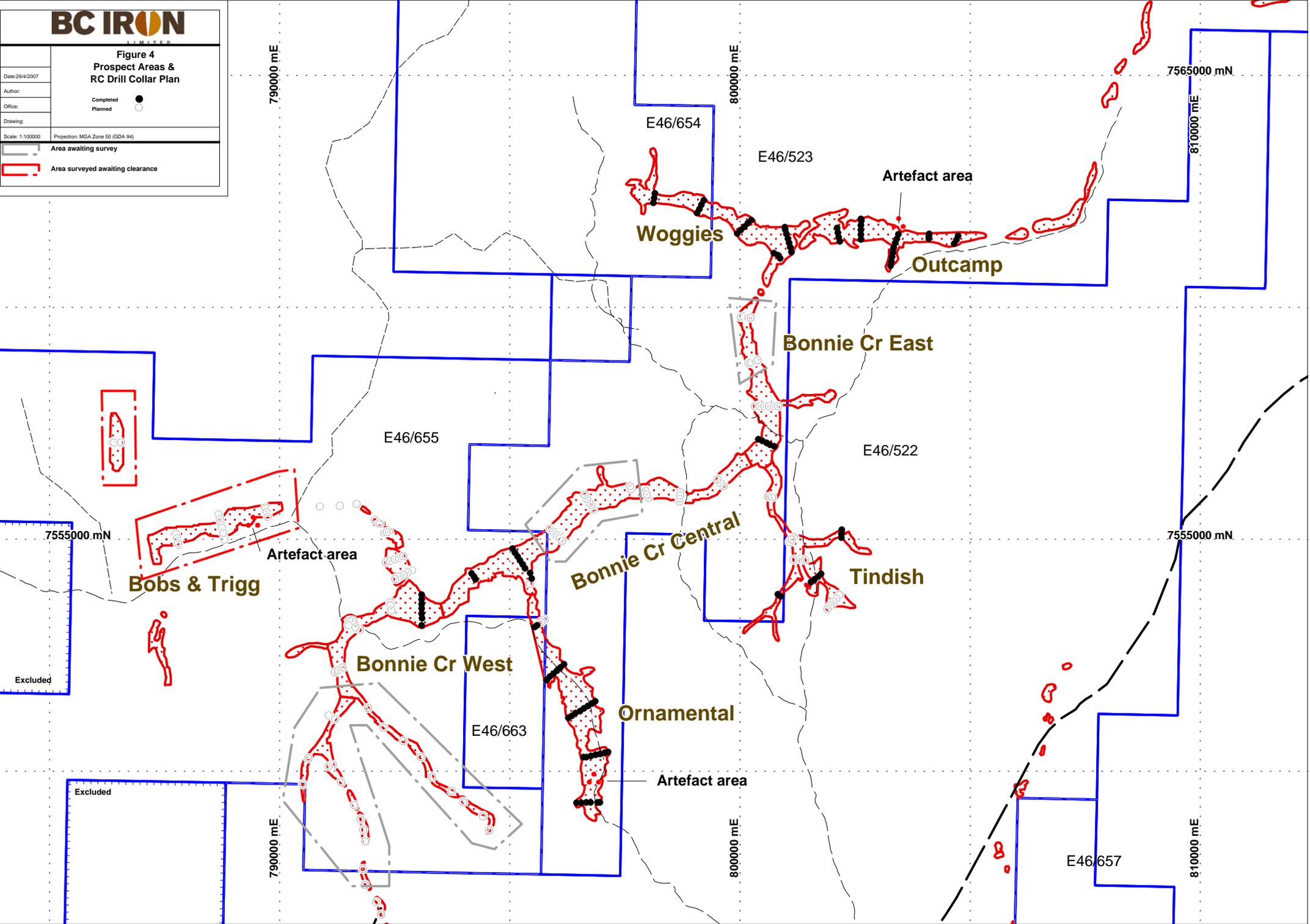
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Scale: 1:100000

Projection: MGA Zone 50 (GDA 94)

-  Area awaiting survey
-  Area surveyed awaiting clearance



790000 mE

800000 mE

7565000 mN

810000 mE

E46/654

E46/523

Artefact area

Woggies

Outcamp

Bonnie Cr East

E46/655

E46/522

7555000 mN

Artefact area

Bobs & Trigg

Bonnie Cr Central

Tindish

7555000 mN

Excluded

Bonnie Cr West

Ornamental

E46/663

Artefact area

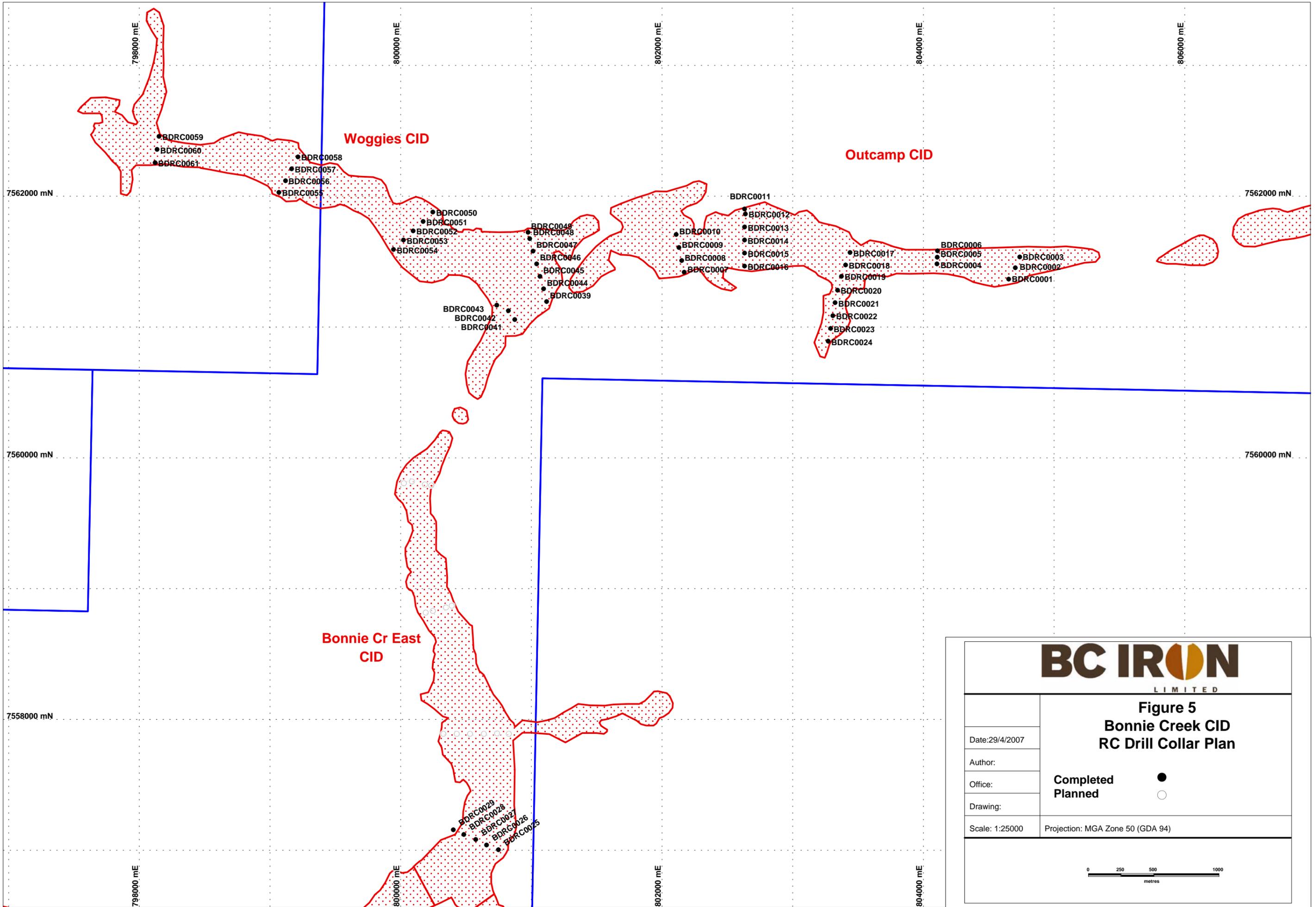
790000 mE

800000 mE

E46/657

810000 mE

Excluded

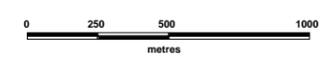


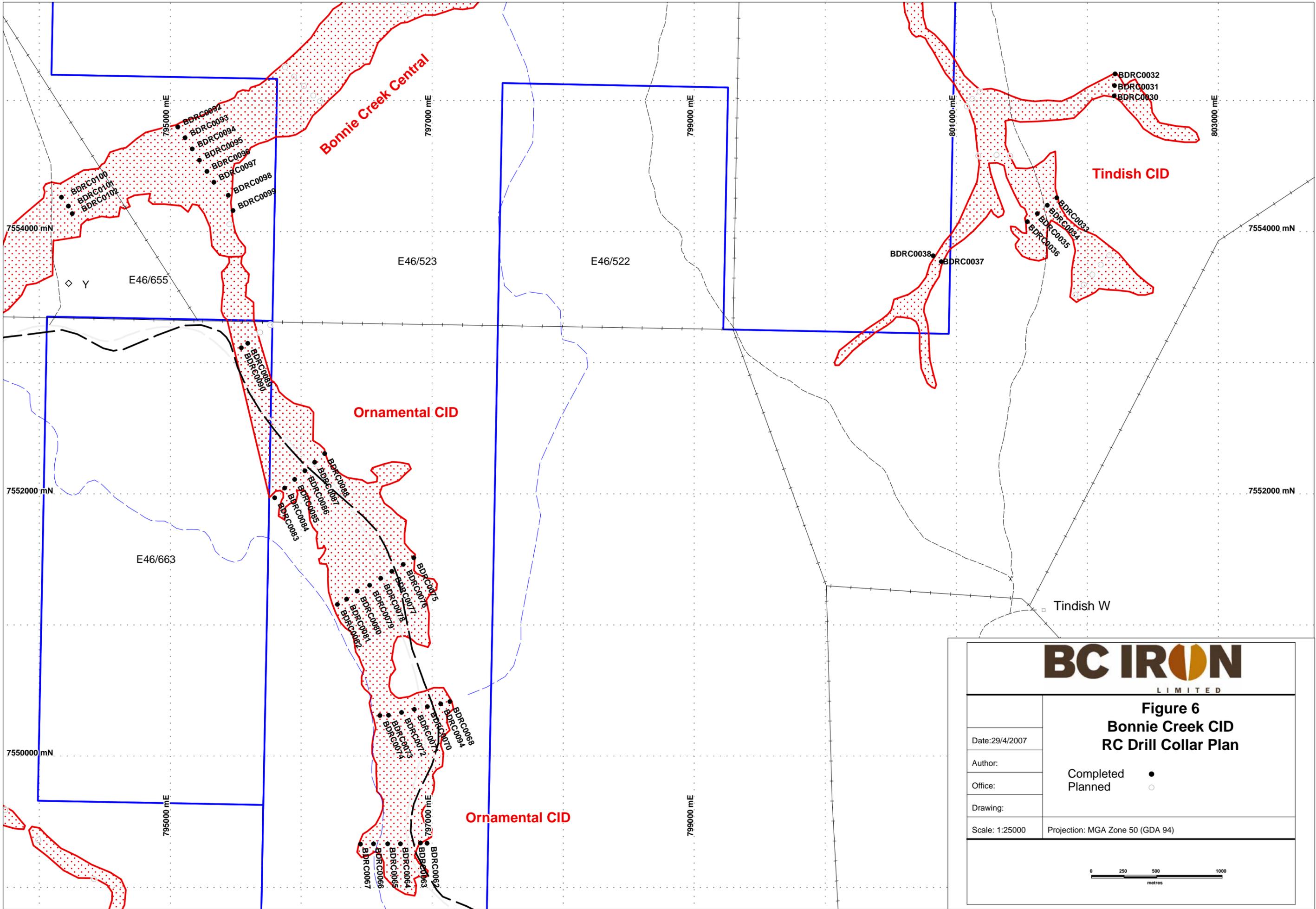
**Figure 5**  
**Bonnie Creek CID**  
**RC Drill Collar Plan**

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 Office:  
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**Completed** ●  
**Planned** ○

Scale: 1:25000      Projection: MGA Zone 50 (GDA 94)





**BC IRON**  
LIMITED

**Figure 6**  
**Bonnie Creek CID**  
**RC Drill Collar Plan**

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Drawing:

Scale: 1:25000

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Completed ●  
Planned ○

