# THE ARCHAEOLOGICAL INVESTIGATION OF A LATE IRON AGE SITE ON THE FARM KROONDAL 304 JQ, RUSTENBURG DISTRICT, NORTHWEST PROVINCE

For

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#### SUMMARY

mapping and drawing and preliminary interpretations of the site based on this work. site includes the mapping and drawing of the site, as well as archaeological excavations. This document constitutes a report on the first phase of work, namely the a new Waste Rock Dump site and Plant is being undertaken in this area, and the site will be directly impacted upon by the developments. The archaeological work at the located on the property of the existing Kroondal Platinum Mine. The development of farm Kroondal 304 JQ in the Rustenburg District, Northwest Province. The site is Aquarius Platinum (S.A) Pty Ltd., to conduct said archaeological investigation on the The National Cultural History Museum was contracted by DRA, on behalf of

excavations. done in great detail, as the site was badly overgrown during the first phase of fieldwork. Complete photographic documentation will be conducted during the Photographic documentation of the site was also undertaken, although this was not

CONTENTS

SUMMARY

CONTENTS

AIMS

LEGAL REQUIREMENTS

METHODOLOGY

DESCRIPTION OF THE AREA

DISCUSSION

CONCLUSIONS AND RECOMMENDATIONS

REFERENCES

PROJECT TEAM

APPENDIX 1- MAP OF THE AREA INDICATING THE LOCATION OF THE SITE

APPENDIX 2 - MAP AND DRAWING OF THE SITE

### LATE IRON AGE SITE ON THE FARM KROONDAL 304 JQ. RUSTENBURG DISTRICT, NORTHWEST PROVINCE THE ARCHAEOLOGICAL INVESTIGATION OF A

#### AIMS

the following: The aims of this first phase of archaeological work at the Kroondal Iron Age site were

- (a) with the site that will be impacted upon by the development to identify and locate all possible structures, features and objects associated
- 9 and layout. This will help in building up a record of the site, as well as help us to undertake the detailed and complete mapping and drawing of the site to to determine where archaeological excavations needs to be undertaken help facilitate the reconstruction and interpretation of settlement organization

the proposed development. The work was to be confined to this area. We were informed by the client about the extent of the area that will be affected by

### LEGISLATIVE REQUIREMENTS

acts. These are the South African Heritage Resources Act (Act 25 of 1999) and the Environmental Conservation Act (Act 73 of 1989). Aspects concerning the conservation of cultural resources are mainly dealt with in two

### South African Heritage Resources Act

### Archaeology, palaeontology and meteorites

responsible heritage resources authority: Section 35(4) of this act states that no person may, without a permit issued by the

- (a) archaeological or palaeontological site or any meteorite; destroy, damage, excavate, alter, deface or otherwise disturb any
- <u>B</u> destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any
- 6 trade in, sell for private gain, export or attempt to export from the or object, or any meteorite; or Republic any category of archaeological or palaeontological material
- 9 bring onto or use at an archaeological or palaeontological site any or objects, or use such equipment for the recovery of meteorites or recovery of metals or archaeological and palaeontological material excavation equipment or any equipment which assists in the detection

6 alter or demolish any structure or part of a structure which is older than 60 years as protected.

receiving a permit from the South African Heritage Resources Agency The above mentioned may only be disturbed or moved by an archaeologist, after

### **Environmental Conservation Act**

should also be determined and proposals to mitigate this impact are to be formulated. environment, is to be made. The impact of the development on the cultural resources undertaken in areas where development, which will change the face of the This act states that a survey and an evaluation of cultural resources should be

### METHODOLOGY

#### Documentation

The documentation comprised the following:

complete a map as possible could be drawn. all possible structures, features and objects that form part of the site so that as the area that will be affected by the development, as well as to determine the perimeters of the site to be mapped. During the foot survey we also aimed at locating Foot survey - The area was surveyed on foot first in order to determine the extent of

disturbed or destroyed. These photographs also form part of the permanent record of the site, should it be Photographic - Photographs of the site in general, as well as individual structures, features and objects, were taken to help with the interpretation of settlement layout.

map of the area (See Appendix 1). GPS Data - A GPS reading of the site was taken in order to locate it on the 1:50 000

Surveying device. The data generated through this was then downloaded onto Mapping and Drawing - This was done using a Nikon Total Station Electronic map and drawing of the site (See Appendix 2). computer and a software package called Model Maker was then used to generate a

### DESCRIPTION OF THE AREA

between 25°42'43.7" S and 27°21'45.5" E. Northwest Province, and on the property of the Kroondal Platinum Mine. It lies The site is located on the farm Kroondal 304 JQ, in the Rustenburg District of the

the past. There is no prominent hills close-by, although a low outcrop lies to the south bush and thorn trees. Large sections of the area were used for agricultural purposes in The topography of the area is basically flat open veld with stretches of more dense

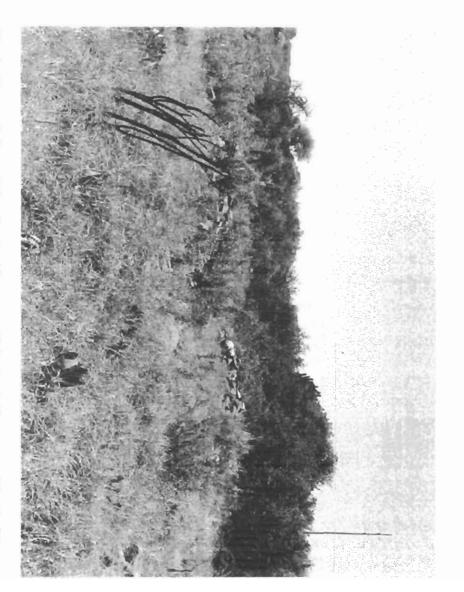
the Hexriver and Sandspruit, a few kilometers to the southwest. them with excellent grazing for their cattle. The closest water sources to the site are inhabitants of the area would have favored this vegetation, as it would have provided vegetation, patches of original thornveld and bushveld still prevail. The Iron Age grassveld (Acocks, 1988). Although past agricultural activities has disturbed the is largely open savanna with Acacia caffra the dominant tree in a fairly tall and dense thicken up when the grass cover is reduced by grazing mismanagement. The bushveld Mixed Bushveld and Sour Bushveld. The thornveld is generally open, but tends to The vegetation consists of a combination of Springbok Flats Thornveld, Sourish

#### DISCUSSION

another, have also been identified. These artefacts will be removed during detailed excavations of these huts. complete pots, two close to one of the huts and a third on top of the remains of potsherds and bone fragments lie scattered over the surface of the site. A few nearly few broken lower grinding stones (used to grind maize) were identified, while some platforms, the remains of huts and other associated features, such as ash middens. A cattle kraals and smaller livestock (sheep/goat) enclosures, hut bays, granary The site consists of the stone walled remains of a Late Iron Age settlement, containing

the cultural identity of the group who lived here. a time-frame for Late Iron Age occupation of the settlement and possibly determining interpretation of settlement organization, reconstructing domestic economy, providing excavations will hopefully provide us with enough information to help with further identified. These included a number of huts, a midden and a possible cattle kraal. The possible to help with the reconstruction and interpretation of settlement layout. During the mapping process, areas with potential for archaeological excavation were also The mapping of the site aimed at providing as detailed a drawing of the settlement as

as 200 000 years ago. of Middle and Later Stone Age stone tools that are found scattered over the surface of presence and activity in the area for thousands of years, possibly stretching back as far map of the site (See Appendix 2). These Stone Age artifacts are evidence of human the area. A few concentrations of these tools were identified, and are indicated on the we also found evidence for earlier human activity in the vicinity. This is in the form Over and above the evidence of Late Iron Age settlement on the site and in the area



impossible. Stone walls are however visible. made mapping difficult and detailed photographic documentation nearly Fig. 1: General view of the site, looking east. Note the tall grass and bush. This



Fig. 2: The clay remains of a hut. These slight mounds are formed when the walls of the huts collapse inwards on top of the hut floors. A number of these were identified at the settlement.



Fig. 3: Two large pots located on the edge of one of the huts at the settlement. Their position will be carefully documented during excavations before they are removed.

## CONCLUSIONS AND RECOMMENDATIONS

being investigated number of smaller individual settlement units, each similar to the one under threat and larger Settlement Complex on the farm Kroondal 304 JQ. The complex consists of a The Late Iron Age (LIA)settlement at Kroondal Platinum Mine forms part of a much

the huts are located. Settlements also have small private and larger communal granary settlement contains large cattle kraals and smaller livestock enclosures, around which are variations from site to site, between groups and from period to period, the basic on Kuper's (1982) analysis of Nguni and Sotho-Tswana settlements. Although there (CCP). The CCP is an ethnographically-derived model of spatial organization based platforms (Huffman 1982). principles of the CCP applies to most LIA settlements. Generally, the center of a Appendix 2), the settlement layout conforms to the so-called Central Cattle Pattern Based on the mapping and drawing conducted during the first phase of fieldwork (see

enclosures (Taylor 1979). series of semi-circular walls, facing inwards towards a central ring of smaller LIA archaeologists have identified many types, classes and groups of settlement over the years, but it is difficult at this stage to say exactly to which one the site at Vredefort Donie. They date to between AD 1650 and 1840, and generally have a Kroondal relates to. It is possibly similar to Group II sites identified by Taylor on the

during archaeological excavations (Phase 2). Through these excavations we will also stage. We hope to achieve this through the analysis of cultural material recovered way until the archaeological work has been completed. Agency (SAHRA). It is therefore recommended that the site not be disturbed in any permit to do so has been obtained from the South African Heritage Reseources domestic economy of the settlement. The excavations will be carried out as soon as a get a better idea about the time-span of Iron Age settlement (with C14 dating) and the Determining the cultural affinity of the group who settled here is also difficult at this

### PROJECT TEAM

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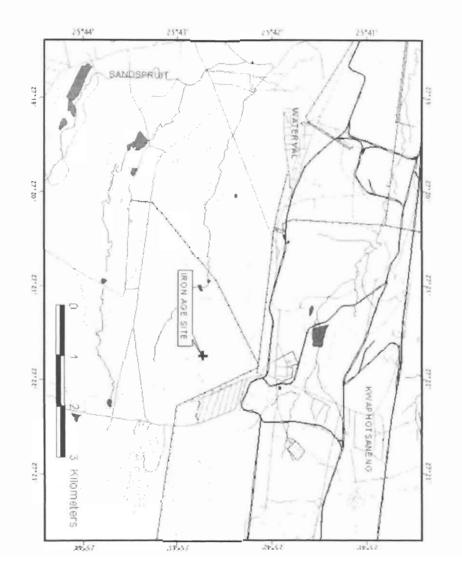
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#### Other Sources

Map: 2527CB Rustenburg (East) - 1: 50 000 scale

## APPENDIX 1 – THE LOCATION OF THE KROONDAL IRON AGE SITE



# APPENDIX 2 - MAP AND DRAWING OF THE SITE

Stone walling

Hut bays

Cattle enclosures

Granary platforms

Hut remains

Lower grinding stones

Ceramic vessels

Stone tool clusters

Ash midden