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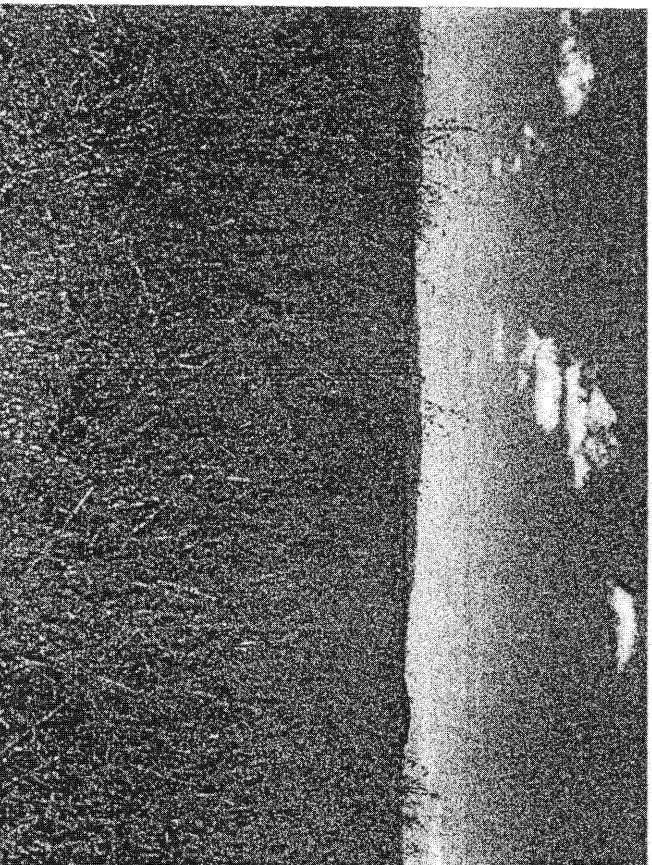
PHASE 1

ARCHAEOLOGICAL IMPACT ASSESSMENT

Kalkfontein 1001 LS

Kalkfontein

NORTHERN PROVINCE

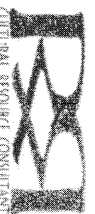


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CONTENTS

1	Aim
1	Method
1	Description
3	Evaluation
3	Recommendations
4	Bibliography
5	ADDENDUM 1 The Law
6	Archaeological Impact Assessment
6	ADDENDUM 2 Extracts from the <i>National Monuments Act (No 28 of 1969, as amended in 1986)</i> that are relevant to Archaeological Sites.
7	ADDENDUM 3 Report on Workshop on <i>Standards for the Assessment of Significance and Research Priorities for Contract Archaeology</i> , SA3 (Southern African Association of Archaeologists) Biennial Conference, University of Venda, 10 July 1998

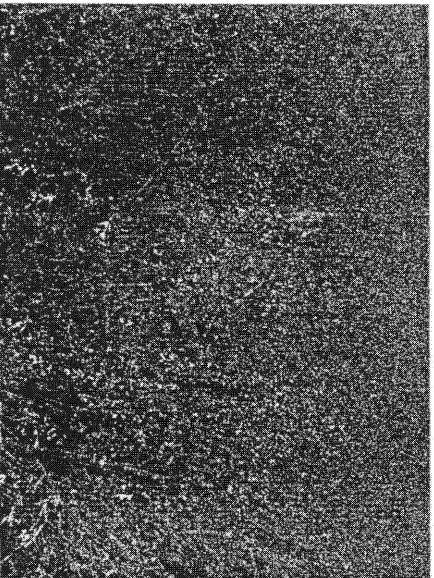
AIM

The aim was to undertake a Phase 1 *Archaeological Impact Assessment* on approximately 380ha at Kalkfontein 1001 LS, where subdivision of land had been proposed, to assess the impact of the proposed scheme in terms of archaeological/historical sites and features and to make recommendations. The task was performed on March 4, 1999.

METHOD

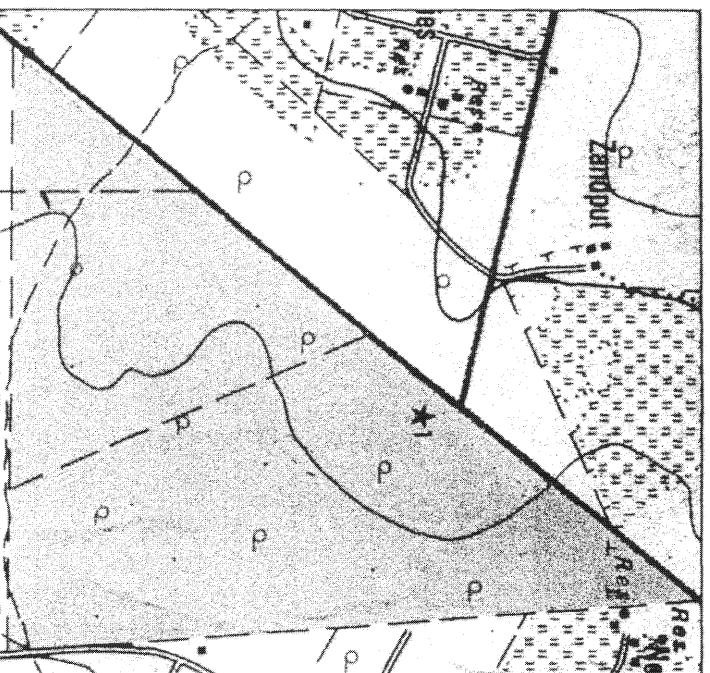
A survey of the entire demarcated area was done on foot and by vehicle by an archaeologist and one assistant. The location of one site, identified as the farmstead of the previous owner, was recorded by means of a GPS (Garmin, 45XL), and photographs were taken, using a Kodak Digital DC120 camera. One ditch made by a back actor was inspected.

DESCRIPTION



The entire area is presently covered in lush grassveld. This complicated the reconnaissance of the terrain. A back actor was present on site, and one trench was inspected. All layers, up to rock bottom proved to be sterile.

No sites of particular cultural importance had been identified. In the dirt road bordering the western fence of the first camp, a non-diagnostic pottery sherd had been recovered. The only other site worth mentioning is the remains of a farm homestead. This site will be referred to as Site 1.

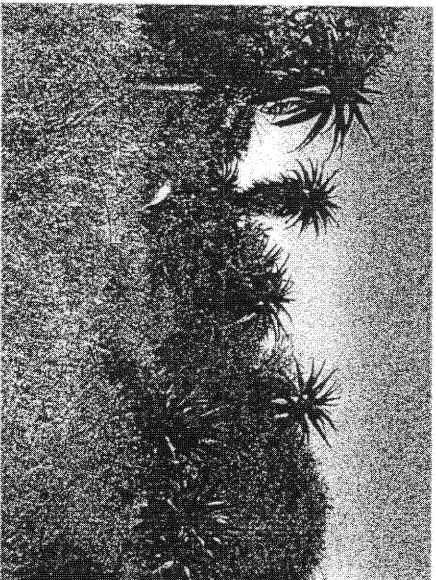


Site 1

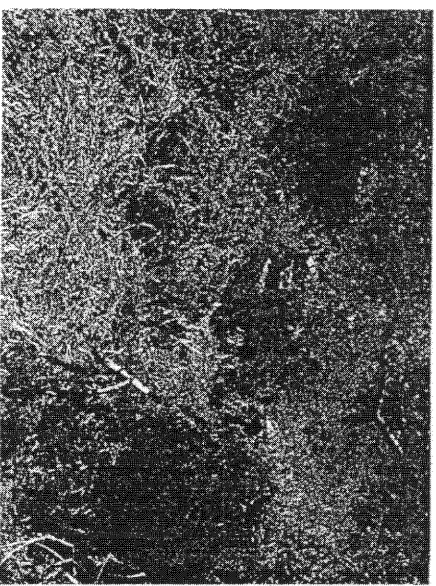
S23°52'17.7" E29°34'0.67"

One major structure, probably the main building of the farmstead, was identified with at least two smaller structures. The house was built of natural stone, and in some places the ruin still stands almost shoulder height. The two smaller structures had been robbed of its walling, and only the foundations stones remain. The purpose of these structures in context of the farmstead are not known.

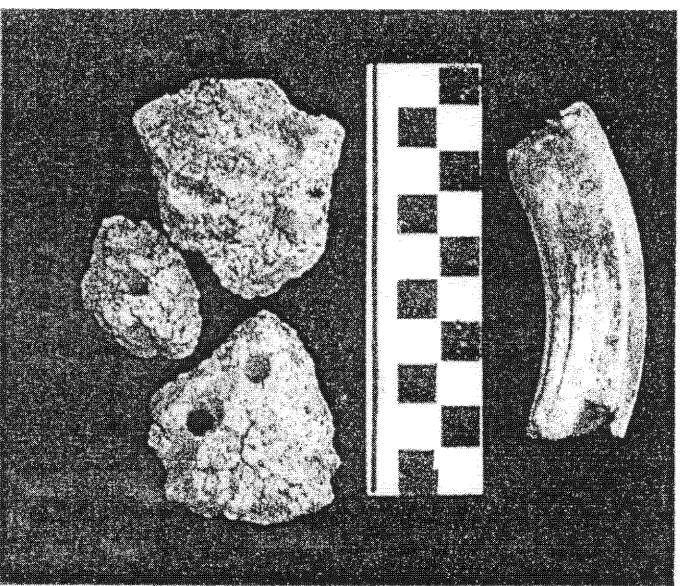
In the centre of the main building, a huge midden can be seen. Neither the origin nor the purpose is known. Some test pits were dug, but only a warthog tooth was recovered. At present this midden houses a family of warthogs.

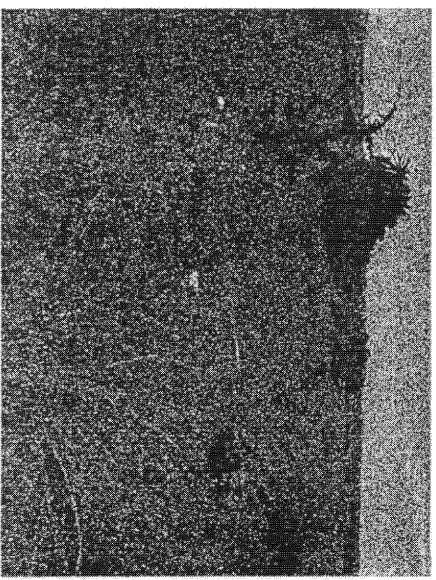
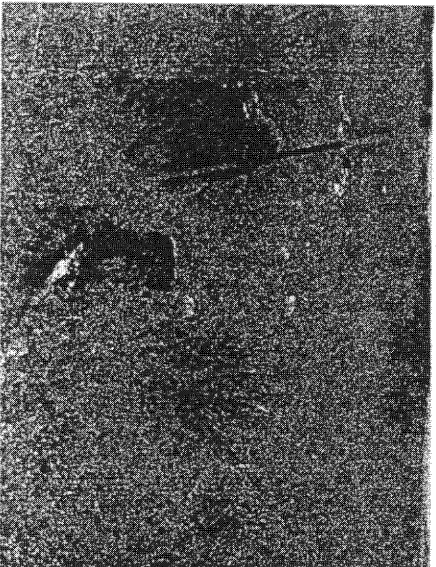


The exterior of the main structure

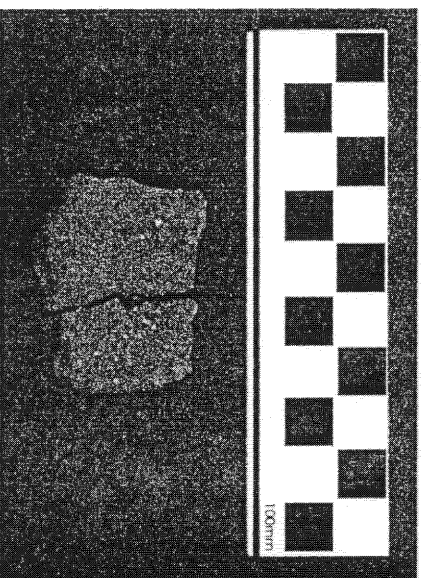


The centre of the main structure, with the midden in the centre. The photograph on right exhibits the tooth as well as some unidentified holes which had been made in compressed ash.





The entrance of the structural remains in front of the main building. At right is the second, smaller feature to the left of the second structure



The only pottery find on the entire site

EVALUATION

The identified structures hold no cultural significance.

Although no culturally significant sites were identified, it is worth mentioning that an apparently extensive site occurs on the little koppie to the north of the terrain. Some activities would thus have occurred in this area. Being located lower than the koppie, and keeping in mind the low artefact count, it is highly possible that Iron Age herders could have utilised this area for grazing purposes.

RECOMMENDATIONS

A Phase 2 assessment is not deemed necessary, however, should any cultural features be exposed during building operations and/or the digging of service trenches, etc. this option will have to be reconsidered. Please see Addendum 1.

- If any graves and/or middens and cultural features are encountered during initial clearing of the surface or during subsoil removal, the archaeologist should be notified immediately. In this regard, please see both Addenda 2 and 3.

BIBLIOGRAPHY

Deacon, J. 1996. *Archaeology for Planners, Developers and Local Authorities*. National Monuments Council. Publication no. P021E.

Deacon, J. 1997. Report: *Workshop on Standards for the Assessment of Significance and Research Priorities for Contract Archaeology*. In: Newsletter No 49, Sept 1998. Southern African Association of Archaeologists.



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April 6, 1999

ADDENDUM 1

THE LAW

The National Monuments Act (No. 28 of 1969) protects all palaeontological, archaeological and historical sites and material older than 50 years. It is an offence to destroy, damage, alter, remove from its original site, or excavate any such site or material without a permit from the National Monuments Council. A person convicted of an offence in terms of the Act, could be liable for a fine of up to R1 0000 or two years imprisonment, or both. See *Addendum 1 for extracts from this act*.

In terms of the Environmental Conservation Act (No. 73 of 1989) the Integrated Environmental Management Procedure, Guideline Document 1 identifies certain man-made areas and features that are listed as environments which must be included in an environmental impact assessment report. These include archaeological and palaeontological sites, graves and burial sites, buildings and sites of religious, social and cultural significance.

ARCHAEOLOGICAL IMPACT ASSESSMENT

To minimise the impact of development on archaeological sites, and the impact of archaeological sites on development projects, and to avoid costly delays if a site is discovered during the course of construction work, it is important to hire an archaeologist well in advance to survey the area. It is important that developers realise that only qualified professional archaeologists should be employed to undertake survey work.

The developer is responsible for the costs involved in hiring an archaeologist to investigate the site.

Phase 1

The archaeologist hired to do the work will submit a phase 1 report. On the basis of the recommendations and assessment of significance made in the report, a decision can be taken on how the development may proceed. In most cases development will be able to go ahead as planned after the sites have been recorded.

Phase 2

In some cases, mitigation in a Phase 2 programme will be necessary and may involve excavation or collection of archaeological material. The purpose behind mitigation is to sample the site so that the evidence can be stored permanently in a museum where it can be consulted at a later date for record and research purposes.

Phase 3

More rarely, the site may be so important that it will warrant modification of the development in a Phase 3 programme. If this happens, the archaeologist, the National Monuments Council and the developer can confer on the action to be taken. It may be possible to incorporate an Iron Age village into a green belt in a housing scheme, or to modify a high rise building plan by covering rare 18th century foundations and associated rubbish dumps beneath a parking lot to avoid destroying them completely. Such solutions are possible if the archaeologist is consulted early enough in the planning process.

Permission for the development to proceed can be given only once the National Monuments Council is satisfied that steps have been taken to ensure that the archaeological sites will not be damaged, or that they have been adequately recorded and sampled.

If this chain of action is followed, we stand a chance of saving something of our archaeological heritage for future generations and of avoiding conflict between developers and cultural conservationists. The National Monuments Council must ensure that the historical and cultural heritage of all South Africans is protected. Careful planning can minimise the impact of archaeological surveys on development projects by selecting options that cause the least amount of inconvenience and delay.

ADDENDUM 2

EXTRACTS FROM THE NATIONAL MONUMENTS ACT (NO 28 OF 1969, AS AMENDED IN 1986) THAT ARE RELEVANT TO ARCHAEOLOGICAL SITES

- 12(2A) No person shall destroy, damage, excavate, alter, remove from its original site or export from the Republic -
- (a) any meteorite or fossil; or
 - (b) any drawing or painting on stone or a petroglyph known or commonly believed to have been executed by Bushmen; or
 - (c) any drawing or painting on stone or a petroglyph known or commonly believed to have been executed by any other people who inhabited or visited the Republic before the settlement of the Europeans at the Cape; or
 - (d) any implement, ornament or structure known or commonly believed to have been made, used or erected by people referred to in paragraphs (b) and (c); or
 - (e) the anthropological or archaeological contents of graves, caves, rock shelters, middens, shell mounds or other sites used by such people; or
 - (f) any other historical site*, archaeological or palaeontological finds, material or object,

except under the authority of and in accordance with a permit issued under this section.

[* An "historical site" is defined as "any identifiable building or part thereof, marker, milestone, gravestone, landmark or tell older than 50 years."]

ADDENDUM 3

Report on Workshop on Standards for the Assessment of Significance and Research Priorities for Contract Archaeology

SA3 (Southern African Association of Archaeologists) Biennial Conference
University of Venda, 10 July 1998

*Janette Deacon
National Monuments Council*

Opportunities for archaeological contract work will expand in southern Africa in the next few years. To make the best of the opportunities, medium-term (3-5 year) research and heritage conservation priorities need to be established as a matter of urgency in consultation with CRM practitioners, provincial and national heritage agencies and research archaeologists. The following factors are relevant.

1. In South Africa, the Department of Environmental Affairs and Tourism published on 5 September 1997 its long-awaited List of Activities which may have a substantial detrimental effect on the environment and the regulations regarding activities identified under Section 21(1) of the Environment Conservation Act (No. 73 of 1989). These effectively make environmental impact assessments compulsory for the listed activities.
2. The National Heritage Bill, designed to replace the National Monuments Act in South Africa, came before the Cabinet and Parliament in 1998. It could become law from 1 April 1999. Amongst other innovations, it makes impact assessments compulsory where historical, archaeological and palaeontological sites are affected by development but are not protected by other legislation.
3. In neighbouring African countries, the tempo of contract work is also rising as new legislation and requirements of the World Bank are implemented.

It seems widely accepted that CRM practitioners do mitigation to rescue the research potential of a site which would otherwise be lost. The following kinds of sites were identified as being worthy of mitigation:

Stone Age / Hunter Gatherer

- | | |
|---|---|
| <ul style="list-style-type: none">• any open air site with bone or other organic material;• any cave or rock shelter with deposit;• rock paintings and rock engravings (record context as well as images);• quarry sites with possibilities for core re-fitting;• long sequence sites;• coastal and inland shell middens;• any sites with Howiesons Poort, Stillbay or Robberg artefacts;• human remains or burials;• fish traps;• placement of Earlier Stone Age sites in the | <ul style="list-style-type: none">landscape - are they associated with river valleys, water sources or quarries?• evidence for modernity in Middle Stone Age sites;• sites with evidence for interaction between Stone Age and Iron Age or colonial people;• Later Stone Age sites with Bambata pottery;• pastoral sites, especially in the Eastern Cape;• caches of ostrich eggshells or other items;• hunting blinds;• evidence for exploitation of raw material sources such as haematite or specularite. |
|---|---|

Iron Age / Agriculturist

- Sites that will help to clarify the ceramic sequence of the Early Iron Age in the northern and eastern regions of southern Africa;
- any Bambata settlement;
- Early Iron Age sites with evidence for structures or long term occupation;
- sites with evidence for political or social hierarchies;
- evidence of the organization of metal production;
- burials with evidence for social differentiation, health and nutrition;
- evidence for trade within and outside of the Zimbabwe culture area;
- sites in areas that are under-researched to build up the culture-historical sequence;
- special-purpose sites such as rainmaking, circumcision, mining, furnaces, cattle posts vs living sites, salt making;
- Blackburn and Moor Park sites in KwaZulu-Natal;
- well preserved early Moloko sites with middens for evidence of diet and subsistence or stone walling;
- any Zimbabwe-style stone walling should be mapped in sufficient detail to estimate factors such as population size and grain-bin variability;
- evidence for contemporary cultural interaction, for example between Khami and Moloko;
- sites with architectural styles and information on materials used for housing, even in the recent past;
- evidence for the introduction of maize, either direct or in the style of grindstones used;
- sites with botanical remains of cultigens;
- information on the distribution, size and characteristics of dolly-holes for gold mining;
- evidence for textiles or weaving in addition to spindle whorls;
- evidence for games and contextual information relating to them;
- figurine caches and spatial relationships to settlements;
- check stone outcrops near stonewalled sites for engravings.

Historical / Colonial

- sites connected with whaling and sealing;
- ships or ship/boat structures on land;
- shipwreck survivor camps;
- sites in the interior with nineteenth century ceramics (RESUNACT is preparing guidelines for identification);
- single occupation sites in urban environments with deposits such as wells, cisterns and depressions;
- 17th century or early 18th century sites in Cape Town;
- sites that are connected with national and international slave trade routes;
- LSA sites with metal items such as brass buttons;
- documentary and archival searches should be done before going into the field;
- sites that could inform on the effects of military forces on indigenous local populations;
- the symbolic significance of textiles, beads and other items imported by traders;
- sites with oral traditions of sacred significance - oral histories increase significance and are therefore relevant to archaeology;
- historical graves need sensitive removal during mitigation and this is often best done in collaboration between archaeologists and funeral specialists.

