



Archaetnos Culture & Cultural
Resource Consultants
BK 98 09854/23

**A DESKTOP HERITAGE ASSESSMENT STUDY FOR
A PROSPECTING RIGHTS APPLICATION ON VARIOUS FARMS
SOUTHWEST OF ALLDAYS, LEPHALALE MAGISTERIAL DISTRICT, LIMPOPO
PROVINCE**

For:

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REPORT: AE1187

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SUMMARY

Archaetnos cc was requested by MSA Geoservices (Pty) Ltd trading as The MSA Group to conduct a scoping level desktop heritage assessment for a Prospecting Right Application (PRA) southwest of Alldays in the Lephalale Magisterial District of the Limpopo Province. The area where potential mining will be undertaken is located on Zandvliet 251 MR, Nooitgedacht 253 MR, Moddergat 281 MR and Welgelegen 299 MR. The aims of the study were to determine if there are any possible archaeological and historical sites, and features in the area that need be taken into consideration when prospecting work commences and that could be potentially impacted upon by future mining operations.

Various sources were consulted for the desktop study. There are some known heritage resources in the larger geographical area, while no sites are known to occur within the boundaries of the prospecting area. It is however envisaged that a number of previously unknown sites might exist here.

A number of recommendations are put forward at the end of this report. If these are implemented, from a Cultural Heritage point of view, there would be no objection to the proposed mining exploration.

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1. INTRODUCTION

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Various sources were consulted for the desktop study. There are some known heritage resources in the larger geographical area, while no sites are known to occur within the boundaries of the prospecting area. It is however envisaged that a number of previously unknown sites might exist here.

2. TERMS OF REFERENCE

The Terms of Reference for the study were to:

1. to conduct a scoping level desktop heritage assessment in order to determine the possible existence of the archaeological and historical (cultural heritage) sites and features in the area where mining prospecting is proposed to take place, and which could be impacted on by future mining operations

3. LEGISLATIVE REQUIREMENTS

Aspects concerning the conservation of cultural resources are dealt with mainly in two acts. These are the National Heritage Resources Act (Act 25 of 1999) and the National Environmental Management Act (Act 107 of 1998).

3.1 The National Heritage Resources Act

According to the above-mentioned act the following is protected as cultural heritage resources:

- a. Archaeological artifacts, structures and sites older than 100 years
- b. Ethnographic art objects (e.g. prehistoric rock art) and ethnography
- c. Objects of decorative and visual arts
- d. Military objects, structures and sites older than 75 years
- e. Historical objects, structures and sites older than 60 years
- f. Proclaimed heritage sites
- g. Grave yards and graves older than 60 years
- h. Meteorites and fossils
- i. Objects, structures and sites of scientific or technological value.

The national estate (**see Appendix D**) includes the following:

- a. Places, buildings, structures and equipment of cultural significance
- b. Places to which oral traditions are attached or which are associated with living heritage

- c. Historical settlements and townscapes
- d. Landscapes and features of cultural significance
- e. Geological sites of scientific or cultural importance
- f. Sites of Archaeological and palaeontological importance
- g. Graves and burial grounds
- h. Sites of significance relating to the history of slavery
- i. Movable objects (e.g. archaeological, palaeontological, meteorites, geological specimens, military, ethnographic, books etc.)

A Heritage Impact Assessment (HIA) is the process to be followed in order to determine whether any heritage resources are located within the area to be developed as well as the possible impact of the proposed development thereon. An Archaeological Impact Assessment (AIA) only looks at archaeological resources. An HIA must be done under the following circumstances:

- a. The construction of a linear development (road, wall, power line, canal etc.) exceeding 300m in length
- b. The construction of a bridge or similar structure exceeding 50m in length
- c. Any development or other activity that will change the character of a site and exceed 5 000m² or involve three or more existing erven or subdivisions thereof
- d. Re-zoning of a site exceeding 10 000 m²
- e. Any other category provided for in the regulations of SAHRA or a provincial heritage authority

Structures

Section 34 (1) of the mentioned act states that no person may demolish any structure or part thereof which is older than 60 years without a permit issued by the relevant provincial heritage resources authority.

A structure means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith.

Alter means any action affecting the structure, appearance or physical properties of a place or object, whether by way of structural or other works, by painting, plastering or the decoration or any other means.

Archaeology, palaeontology and meteorites

Section 35(4) of this act deals with archaeology, palaeontology and meteorites. The act states that no person may, without a permit issued by the responsible heritage resources authority (national or provincial):

- a. destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or any meteorite;
- b. destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any meteorite;
- c. trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object, or any meteorite; or

- d. bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment that assists in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such equipment for the recovery of meteorites.
- e. alter or demolish any structure or part of a structure which is older than 60 years as protected.

The above mentioned may only be disturbed or moved by an archaeologist, after receiving a permit from the South African Heritage Resources Agency (SAHRA). In order to demolish such a site or structure, a destruction permit from SAHRA will also be needed.

Human remains

Graves and burial grounds are divided into the following:

- a. ancestral graves
- b. royal graves and graves of traditional leaders
- c. graves of victims of conflict
- d. graves designated by the Minister
- e. historical graves and cemeteries
- f. human remains

In terms of Section 36(3) of the National Heritage Resources Act, no person may, without a permit issued by the relevant heritage resources authority:

- a. destroy, damage, alter, exhume or remove from its original position of otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- b. destroy, damage, alter, exhume or remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- c. bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation, or any equipment which assists in the detection or recovery of metals.

Human remains that are less than 60 years old are subject to provisions of the Human Tissue Act (Act 65 of 1983) and to local regulations. Exhumation of graves must conform to the standards set out in the **Ordinance on Excavations (Ordinance no. 12 of 1980)** (replacing the old Transvaal Ordinance no. 7 of 1925).

Permission must also be gained from the descendants (where known), the National Department of Health, Provincial Department of Health, Premier of the Province and local police. Furthermore, permission must also be gained from the various landowners (i.e. where the graves are located and where they are to be relocated) before exhumation can take place.

Human remains can only be handled by a registered undertaker or an institution declared under the **Human Tissues Act (Act 65 of 1983 as amended)**.

Unidentified/unknown graves are also handled as older than 60 until proven otherwise.

3.2 The National Environmental Management Act

This act states that a survey and evaluation of cultural resources must be done in areas where development projects, that will change the face of the environment, will be undertaken. The impact of the development on these resources should be determined and proposals for the mitigation thereof are made.

Environmental management should also take the cultural and social needs of people into account. Any disturbance of landscapes and sites that constitute the nation's cultural heritage should be avoided as far as possible and where this is not possible the disturbance should be minimized and remedied.

4. METHODOLOGY

4.1 Survey of literature

A survey of literature was undertaken in order to obtain background archaeological and historical information regarding the area. Sources consulted in this regard are indicated in the bibliography.

4.2 Field survey

No field survey was conducted in this instance.

5. DESCRIPTION OF THE AREA

MSA, as independent environmental consultants, was appointed to undertake the authorization processes for proposed prospecting activities in the Lephalale Magisterial District, in an area located southwest of Alldays in the Limpopo Province. The R572 is located north of the area, while the Mogalakwena River lies directly south of it (with a portion of the farm Welgelegen 299 MR on the banks of the river). Four farms are located within the boundaries of the prospecting area, namely Zandvliet 251, Nooitgedacht 253, Moddergat 281 and Welgelegen 299 MR.

Taking the proposed activities and the project study area into consideration, various potential environmental impacts have been identified, including impacts on cultural heritage resources. An Environmental Management Plan (EMP) will be drafted to take precautionary measures to prevent and to minimize negative impacts on the Environmental and Cultural Heritage resources. This will include management and mitigation measures for any identified potential impacts.

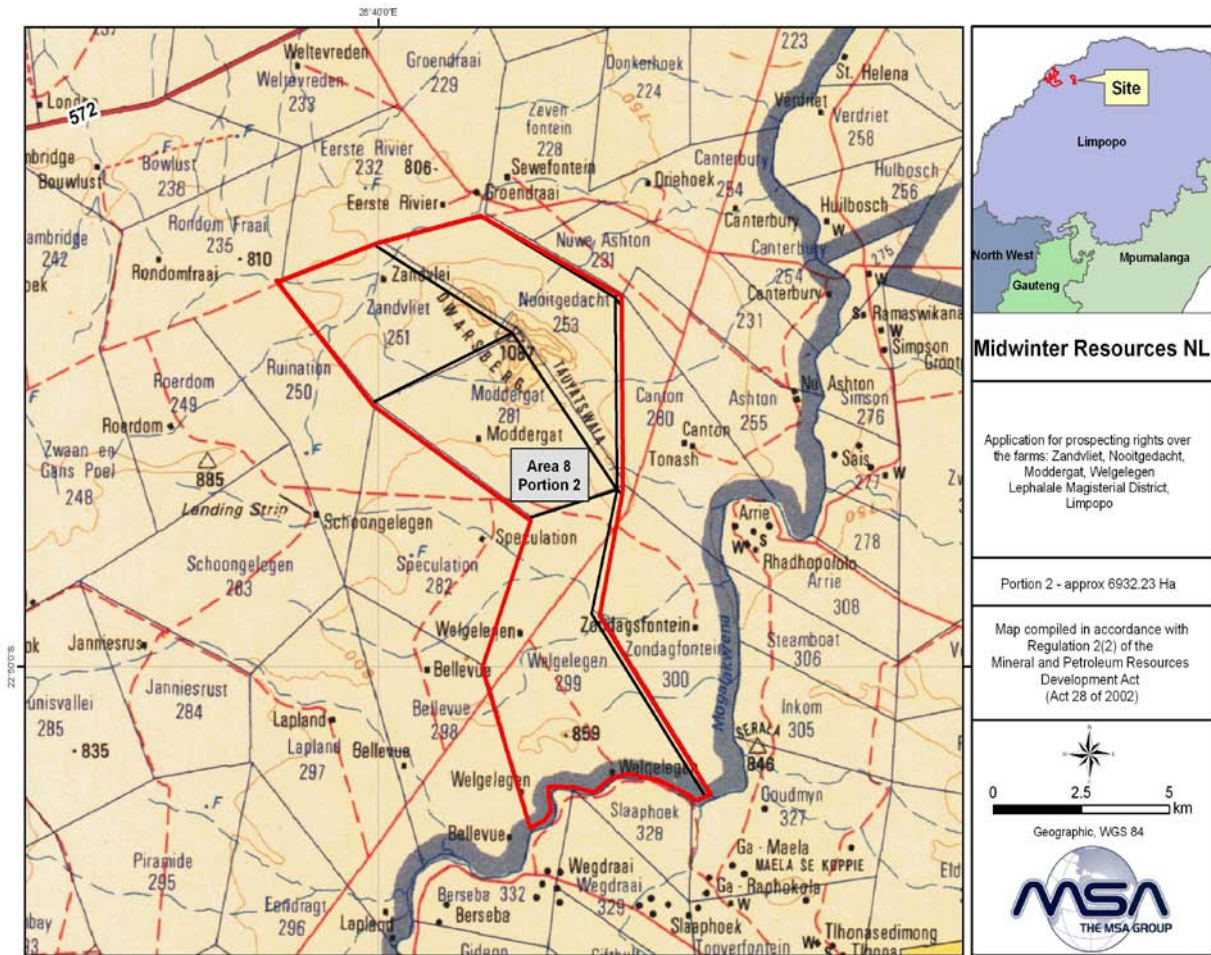


Figure 1: Location of area (Map courtesy of client).

6. DISCUSSION

The first step in this desktop study was to look at existing maps (1:50 000 topographic maps and aerial images (Google Earth) of the study area in order to see if any possible heritage resources could be identified from these sources.

From the 1:50 000 topographic maps (2228DA Usutu and 2228DC Wegdraai – all dating to 1999) a few agricultural (ploughed) fields, farming related structures (farmsteads and farm laborer structures?) and other buildings can be identified, specifically on Moddergat, Zandvliet and Welgelegen. This does indicate that some cultural heritage resources could be present in the area, although the significance and ages of these will not be known without a detailed heritage impact assessment. The presence of graves (associated with the European farmsteads and farm laborer structures) are therefore a very distinct possibility, although none are indicated on the topographic maps.

It is clear that some portions of the area has been disturbed in the recent past through small scale agricultural and residential activities. If any sites, features or objects of cultural heritage significance did exist here in the past, it could have been disturbed or destroyed to some extent in these areas. However, traces of their existence could still be identified when a physical assessment of the area is undertaken.

A short, general, background to archaeology is given in the following section, after which the archaeology and history of the area for which the prospecting rights application has been made (and its broader geographical context) will be discussed. **It must be mentioned that archaeologically speaking the specific study area is not that well known or researched, and that a physical survey in the area will have to be undertaken in order to determine if any sites of significance does exist here that might be impacted on potentially by any proposed activities.**

6.1 Stone Age

The Stone Age is the period in human history when lithic (stone) material was mainly used to produce tools (Coertze & Coertze 1996: 293). In South Africa the Stone Age can be divided in three periods. It is however important to note that dates are relative and only provide a broad framework for interpretation. The division for the Stone Age according to Korsman & Meyer (1999: 93-94) is as follows:

Early Stone Age (ESA) 2 million – 150 000 years ago
Middle Stone Age (MSA) 150 000 – 30 000 years ago
Late Stone Age (LSA) 40 000 years ago – 1850 - A.D.

No Stone Age sites (including rock art) are known to occur in the area. The closest known Stone Age sites (LSA) are located east of the Mogalakwena River at Blouberg (Berg 1999: 4), while rock art sites are known south and east of the study area (Berg 1999: 5).

Although no known Stone Age and rock art sites seemingly occur in the study area, it is envisaged that some might be recorded here during a physical survey of the area, especially on the banks of the Mogalakwena River and in other streams and riverbeds, while caves/shelters might occur on the Dwarsberg mountain range found in the northern section of the study area.

6.2 Iron Age

The Iron Age is the name given to the period of human history when metal was mainly used to produce artifacts (Coertze & Coertze 1996: 346). In South Africa it can be divided in two separate phases according to Van der Ryst & Meyer (1999: 96-98), namely:

Early Iron Age (EIA) 200 – 1000 A.D.
Late Iron Age (LIA) 1000 – 1850 A.D.

Huffman (2007: xiii) however indicates that a Middle Iron Age should be included. His dates, which now seem to be widely accepted in archaeological circles, are:

Early Iron Age (EIA) 250 – 900 A.D.
Middle Iron Age (MIA) 900 – 1300 A.D.
Late Iron Age (LIA) 1300 – 1840 A.D.

According to Berg there are no known EIA sites in the study area (1999: 6), while the closest LIA sites occur along the Lephalala River west of the study area (p.7). EIA and LIA sites do however occur in the Blouberg/Makgabeng area. Once again, it is possibly an indication of a

lack of research in the area rather than a lack in the existence of these types of sites in the study area. A physical survey in the area could reveal sites next to the Mogalakwena River and other streams, while the hills in the area also need to be scrutinized for stone walled sites,

Tom Huffman's research work shows that EIA, MIA and LIA sites, features or material could occur in the area. This will include the Happy Rest facies of the Kalundu Tradition dating to between AD500 and AD750 (Huffman 2007: 219); the Diamant facies of the same tradition dating to between AD750 and AD1000 (p.223); the Eiland facies of AD1000-AD1300 (p.227) and finally the Letsibogo facies of the Urewe Tradition that dates to around AD1500 to AD1700 (p.187).

6.3 Historical Age

The historical age started with the first recorded oral histories in the area. It includes the moving into the area of people that were able to read and write. The first Europeans to move through this area was the group of Cowan & Donovan in 1808 (Bergh 1999: 12) followed by other travelers such as Hume (1825) and De Buys in 1821 and 1825 (Bergh 1999: 12; 13).

Many historical sites could be present in the area, and only a physical survey of the area will be able to confirm this. Sites would include farmsteads, farm labour structures, graves and graveyards and other features of historical significance.

7. CONCLUSIONS AND RECOMMENDATIONS

Based on the desktop heritage assessment undertaken for this development (a Prospecting Rights Application), it is clear that the area has not been studied archaeologically and historically in much detail, although more is known about the cultural heritage of the wider geographical area and the cultural heritage of the development area has to be interpreted within this context. Without a physical site assessment the presence or absence of Stone Age and Iron Age sites, features or objects can not be determined, but it is possible that these might be present. Similarly, the age and significance of any historical structures and features also needs to be determined. It is clear from the topographical maps of the area that these exist. The presence of graves is always a distinct possibility when farmsteads and laborer structures are present. Sometime the graves are unmarked or only low, stone packed features.

In the light of the above the following recommendations are made:

- 1. that all graves and other cultural heritage resources should be avoided at all costs during the prospecting and any other studies, and that a buffer zone of at least 100m should be placed around these should these be encountered. If any sites are identified then these should be reported to a heritage specialist (archaeologist) for investigation**
- 2. that a full Phase 1 Heritage Impact Assessment for the area be undertaken before full-scale mining activities commence in the area**

Finally, it should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts are always a distinct possibility. Care should

therefore be taken during any development activities that if any of these are accidentally discovered, a qualified archaeologist be called in to investigate.

8. REFERENCES

Locality map provided by MSA.

1:50 000 Topographic Map series: 2228DA Usutu and 2228DC Wegdraai – both dating to 1999

Bergh, J.S. (red.). 1999. **Geskiedenisatlas van Suid-Afrika. Die vier noordelike provinsies.** Pretoria: J.L. van Schaik.

Coertze, P.J. & Coertze, R.D. 1996. **Verklarende vakwoordeboek vir Antropologie en Argeologie.** Pretoria: R.D. Coertze.

Huffman, T.N. 2007. **Handbook to the Iron Age: The Archaeology of Pre-Colonial Farming Societies in Southern Africa.** Scottsville: University of KwaZulu-Natal Press.

Knudson, S.J. 1978. **Culture in retrospect.** Chicago: Rand McNally College Publishing Company.

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Republic of South Africa. 1999. **National Heritage Resources Act (No 25 of 1999).** Pretoria: the Government Printer.

Republic of South Africa. 1998. **National Environmental Management Act (no 107 of 1998).** Pretoria: The Government Printer.

Van der Ryst, M.M. & Meyer, A. 1999. Die Ystertydperk. Bergh, J.S. (ed.). **Geskiedenisatlas van Suid-Afrika. Die vier noordelike provinsies.** Pretoria: J.L. van Schaik.

APPENDIX A

Definition of terms:

Site: A large place with extensive structures and related cultural objects. It can also be a large assemblage of cultural artifacts, found on a single location.

Structure: A permanent building found in isolation or which forms a site in conjunction with other structures.

Feature: A coincidental find of movable cultural objects.

Object: Artifact (cultural object).

(Also see Knudson 1978: 20).

APPENDIX B

Cultural significance:

- Low A cultural object being found out of context, not being part of a site or without any related feature/structure in its surroundings.

- Medium Any site, structure or feature being regarded less important due to a number of factors, such as date and frequency. Also any important object found out of context.

- High Any site, structure or feature regarded as important because of its age or uniqueness. Graves are always categorized as of a high importance. Also any important object found within a specific context.

APPENDIX C

Heritage significance:

- Grade I Heritage resources with exceptional qualities to the extent that they are of national significance
- Grade II Heritage resources with qualities giving it provincial or regional importance although it may form part of the national estate
- Grade III Other heritage resources of local importance and therefore worthy of conservation

APPENDIX D

Protection of heritage resources:

- Formal protection

National heritage sites and Provincial heritage sites – grade I and II

Protected areas - an area surrounding a heritage site

Provisional protection – for a maximum period of two years

Heritage registers – listing grades II and III

Heritage areas – areas with more than one heritage site included

Heritage objects – e.g. archaeological, palaeontological, meteorites, geological specimens,
visual art, military, numismatic, books, etc.

- General protection

Objects protected by the laws of foreign states

Structures – older than 60 years

Archaeology, palaeontology and meteorites

Burial grounds and graves

Public monuments and memorials