

**First phase archaeological and cultural heritage assessment of the proposed Rooitop development of portion 46 of the farm 272. Orania. Northern Cape Province.**



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**TABLE OF CONTENTS**

EXECUTIVE SUMMARY

1.	INTRODUCTION .....	4.
2.	STUDY METHODOLOGY .....	4.
3.	LOCALITIES (ANNEXURES A, B) .....	4.
4.	RECORDED FINDINGS .....	4-5.
5.	ASSESSMENT OF IMPACT .....	5.
6.	MITIGATION .....	5.
7.	RECOMMENDATION .....	5.
8.	REFERENCES .....	6-7.
9.	ANNEXURES .....	8-21.
	ANNEXURE A: STUDY AREA PORTION 46 ITO AERIAL PHOTOS OF 2017	
	ANNEXURE B: PORTION 46 ON 1:50 000 TOPOGRAPHICAL MAP SERIES	
	ANNEXURE C: VEGETATION OF THE STUDY AREA	
	ANNEXURE D: ARCHAEOLOGICAL FINDINGS ITO TOPOGRHY	
	ANNEXURE E: PHOTOS OF ARCHAEOLOGICAL FINDINGS	
	ANNEXURE F: DECLARATION .....	22.

## **EXECUTIVE SUMMARY**

Rooitop Ontwikkelings Orania (Pty)Ltd intends developing a residential area on portion 46 of farm 272 located east of Orania.

The aim of the study is to determine the localities of archaeological, historical and other cultural remains in relation to the proposed developments and to assess the impact of the developments on it.

The local importance of prehistoric engravings in the footprint area, is sufficient to recommend that part of the area be retained as a heritage site. The Stone Age artifacts found were not in context and is of low significance.

It is recommended that the proposed development proceed.

## **1. INTRODUCTION**

Rooitop Ontwikkeling Orania (Pty)Ltd intends the developing of a residential area on portion 46 of farm 272. A heritage impact study is required and Shangoni Management Services (Pty)Ltd was contracted. This report is done in terms of the National heritage Resources Act (Act 25 of 1999) and will be part of the EIA.

## **2. STUDY METHODOLOGY**

The area (27.25ha) was investigated on foot over a 3 day period. Observations and finds were plotted on maps (GIS format) (decimal degrees) by GPS and recorded on camera.

Note was taken of previous archaeological studies in Orania by Opperman (2012, 2013a, 2013b, 2016, 2017, 2021)

## **3. LOCALITIES (ANNEXURES A,B)**

The area for the Rooitop development lies east of Orania and north of the “servitude” dirt road that passes through Orania.

The vegetation is Xhariep Karroid Grassland and Northern Upper Karroo (Eysel 2022) with trees and shrubs.

Dolerite rocks occur in outcrops and ridges with an east west orientation.

## **4. RECORDED FINDINGS**

A total of 16 engravings, graffiti and prehistoric stone artifacts were recorded. Because of age and patination some engravings especially fine line ones, became difficult to see and photograph. They are described as unidentified.

The following finds are on the Area map:

1. Engraving. Fine line scratches
2. Engraving. Antelope
3. Engraving. Unidentified
4. Engraving. Unidentified

5. Graffiti
- 6a. Engraving. Unidentified
- 6b. Engraving. Unidentified
7. Engraving. Scratched lines
8. Graffiti
9. Engraving. Ostrich
10. Engraving. Fine line ostrich Patinated
11. Engraving. Unidentified
12. Middle Stone Age artefact
13. Middle Stone Age artefact
14. Engraving. Fine line scratches
15. Water place
16. Scratches patinated

## **5. ASSESMENT OF IMPACT**

Prehistoric engravings, graffiti and Stone Age artifacts were found. Residential development will negatively influence the engravings.

## **6. MITIGATION**

A conservation plan must be drawn up for the protection of the archaeological heritage materials in footprint area portion 46.

## **7. RECOMMENDATION**

I recommend that, depending on the findings of other specialists, the proposed developments may proceed. The construction process should be monitored for the appearance of archaeological remains not observed during this study.

## 8. REFERENCES

Eysel, A. 2022. Residential Development of portion 46. Terrestrial Vegetation report and Sensitive plant species habitat assessment.

Opperman, H. 2012. First phase archaeological and cultural heritage assessment of the proposed residential development on portions 14 and 3 of the farm Vluytjeskraal 149, District: Hopetown, Province: Northern Cape.

Opperman, H. 2013a. First phase archeological and cultural heritage assessment of the proposed residential development next to and on portions of plots 52 and 38, Orania, District: Hopetown, Province: Northern Cape.

Opperman, H. 2013b. First phase archaeological and cultural heritage assessment of the proposed residential development on plot A100, Orania, District: Hopetown, Province: Northern Cape.

Opperman, H. 2016a. First phase archaeological and cultural heritage assessment of the proposed residential development of an Eco estate on a portion of the remainder of the farm Vluytjeskraal 149 Orania, District: Hopetown, Province: Northern Cape.

Opperman, H. 2016b. a Tale set in stone. Published and printed in South Africa.

Opperman, H. 2017a. First phase archaeological and cultural heritage assessment of the proposed development of an industrial Area on the remainder of portion 6 of the farm Vluytjeskraal 149, Orania, Northern Cape Province.

Opperman H. 2017b. First phase archaeological and cultural heritage assessment of the proposed development of Karoosig. A residential area on the remainder of portion 8 of the farm Vluytjeskraal 149, Orania, Northern Cape Province.

Opperman H. 2017c. First phase archaeological and cultural heritage assessment of the proposed development of Kleingeluk – Oos. A residential area on the remainder of portion 8 of the farm Vluytjeskraal 149, Orania, Northern Cape Province.

Opperman H. 2017d. First phase archaeological and cultural heritage assessment of the proposed development of the University on portion 8 of the farm Vluytjeskraal 149, Orania, Northern Cape Province.

Opperman H. 2021. First phase archaeological and cultural heritage assessment of the proposed development of 10 areas on portion 3 of the farm Vluytjeskraal 149, Orania, Northern Cape Province.

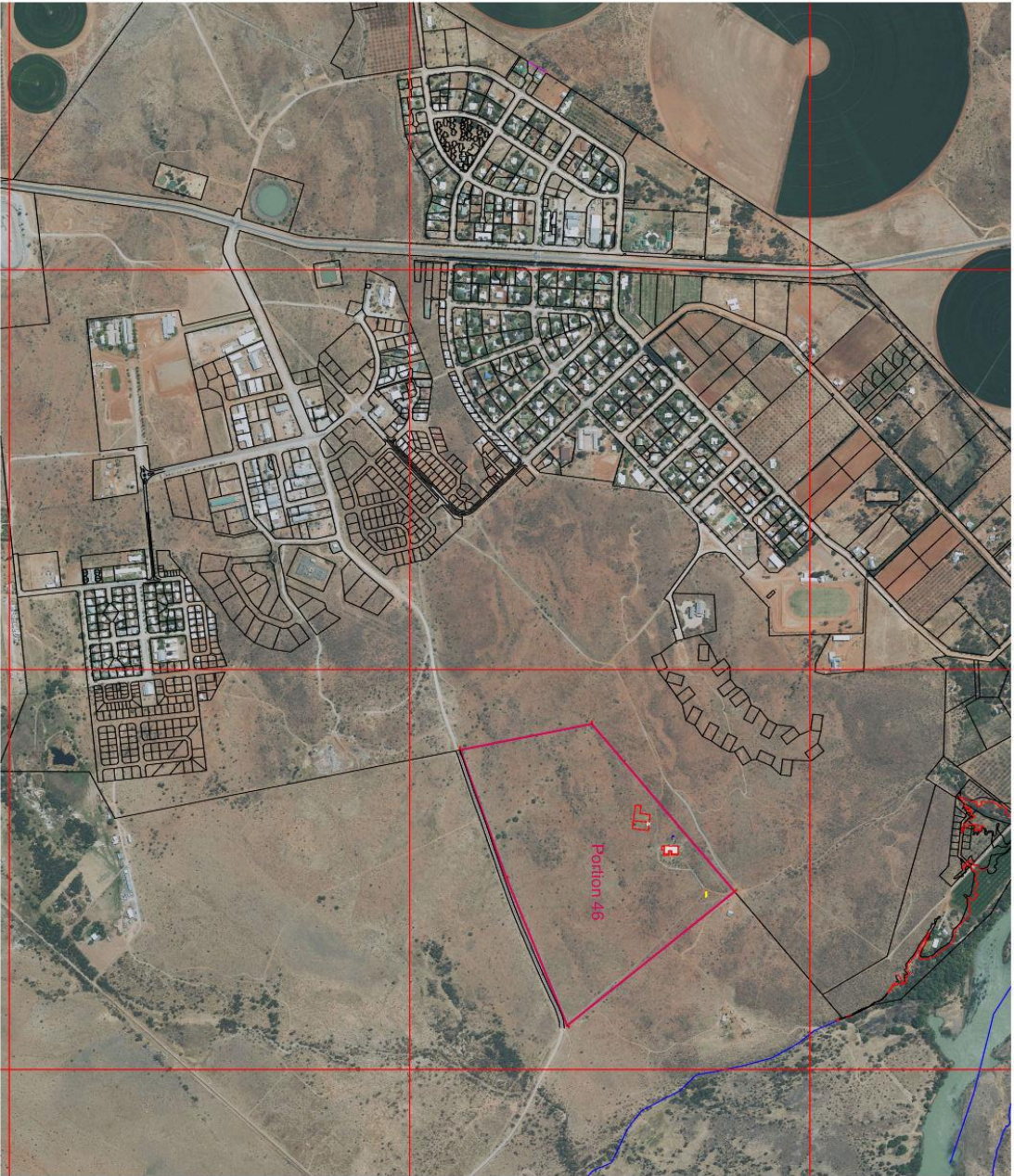
# **ANNEXURES**



ANNEXURE A

STUDY AREA: PORTION 46 ito AERIAL PHOTOS OF 2017

Annexure A



**LEGEND:**  
 Study area outline

Aerial Photos Dates:  
 29/2/2017, 03/04/2017, 08/09/2017

**STUDY AREA:**  
 Portion 46 = 27.25ha

Total Development Area = 27.25ha



Scale 1:10 000

Datum: Hartbeespoort '94  
 Spheroid: WGS84  
 Projection: UTM  
 Aerial photos are 0.5m contours; Ortho Rectified

22 June 2022  
 Annexure A: Study Area



STUDY AREA: PORTION 46 ON 1:50 000 TOPOGRAPHICAL MAP SERIES

Annexure B



<p><b>LEGEND:</b></p> <p>□ Study area outline</p> <p>1:50 000 Topographical Map Series: 2824CD</p> <p><b>STUDY AREA:</b> Portion 46 = 27 25ha</p> <p>Total Development Area = 27 25ha</p>	<p>Scale 1:10 000</p> <p>Datum: Habeshabok 94 Spheroid: WGS84 Projection: Transverse Mercator on WGS25 Azial photo and 0.5m contours: Orona Doprenad</p> <p>22 June 2022</p> <p>Annexure B: Study Area 1:50k Topo</p>
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ANNEXURE C



1. Vegetation portion 46

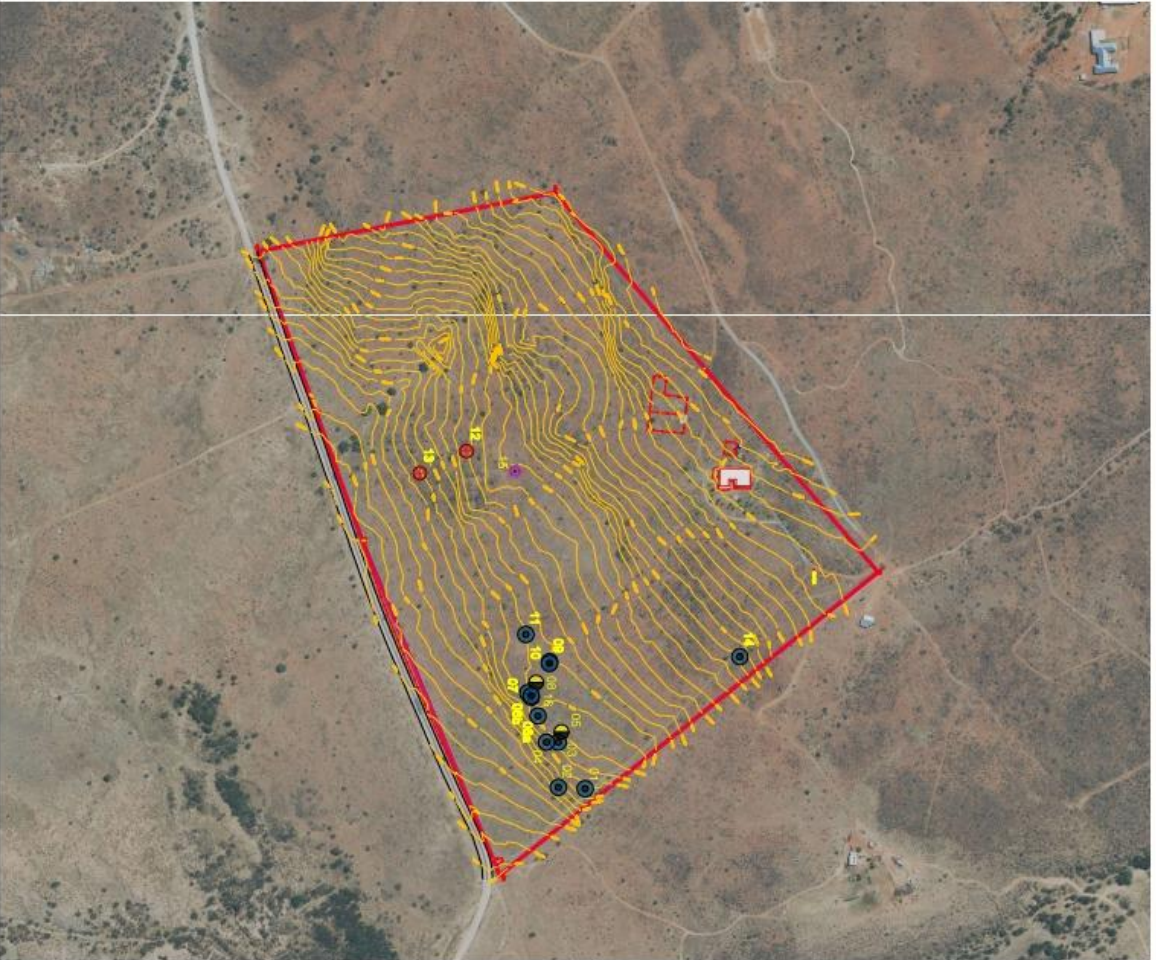


2. Vegetation with dolerite outcrop portion 46



# LOCATION: ARCHAEOLOGICAL FINDINGS ito TOPOGRAPHY at PORTION 46

## Annexure D



PORTION 46

No/ Type	Description
01	Engraving Fineline
02	Engraving Antelope
03	Engraving Unidentified
04	Engraving Unidentified
05	Graffiti Unclaw
06a	Engraving Unidentified
06b	Engraving Unidentified
07	Engraving Scratched lines
08	Graffiti Unclaw
09	Engraving Ostriches
10	Engraving Ostrich
11	Engraving Fine line
12	Stone age MST Artifical
13	Stone age MST Artifical
14	Engraving Fine line
15	Other Feature/Waterpog
16	Engraving Unidentified

**LEGEND:**

- DWA feature / Waterwese-verskynsel
- Engraving / Tekening
- Graffiti
- Other feature / Ander-verskynsel
- Stone Age / Steentydperk
- LSA Artifical Spread
- Study area outline

Contours  
M 0.5m Contours

Aerial Photos Origin:  
 2924CD 03, 04, 08 & 09 2017



Scale 1:10 000

Datum: Hartbeespoek 94  
 Spheroid: WGS84  
 Projection: Transverse Mercator on WGS25  
 Aerial Photo and 0.5m contours: Orlans Dorpsraad

22 June 2022

Annexure D: Archaeology and Topography

ANNEXURE E



1. Engraving. Fine line scratches



2. Engraving antelope





3. Engraving unidentified



4. Engraving. Unidentified



5. Graffiti



6a Engraving. Unidentified





6b Engraving. Unidentified



7. Engraving. Scratched lines





8. Graffiti



9. Engraving. Ostrich



10 .Engraving. Fine line ostrich. Patinated



11. Engraving. Unidentified





12. Middle Stone Age artefact



13. Middle Stone Age artefact



14. Engraving. Fine line scratches



15. Water place



16. Scratches

**ANNEXURE G**

**DECLARATION**

The specialist appointed in terms of the Regulations

I, Hermanus Opperman, declare that

General declaration:

I act as the independent specialist in this application;

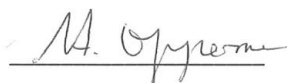
I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favorable to the applicant;

I declare that there are no circumstances that may compromise my objectivity in performing such work. I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity; I will comply with the Act, Regulations and all other applicable legislation;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

All the particulars furnished by me in this form are true and correct; and I realize that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



H Opperman



Date