

**APPLICATION FORM
NOTIFICATION OF INTENT TO DEVELOP (NID)
SECTION 38 (1) AND SECTION 38 (8)**

Heritage Western Cape Reference No:

To be completed by the applicant

Completion of this form is required by Heritage Western Cape for the initiation of all impact assessment processes under Section 38 (1) & (8) of the National Heritage Resources Act (NHRA)

As per Section 38 (1) (e) of the NHRA, submission of the NID must be initiated at the earliest stage of development. Should the development trigger any other legislation, practitioners may submit the NID without formal submission to other statutory bodies in order to comply with the NHRA.

This form is to be read in conjunction with the HWC Notification of Intent to Develop, Heritage Impact Assessment, (Pre-Application) Basic Assessment Reports, Scoping Reports and Environmental Impact Assessments, Guidelines for Submission to HWC

Whilst it is not a requirement, it may expedite processes and in particular avoid calls for additional information if certain of the information required in this form is provided by a heritage specialist/s with the necessary qualifications, skills and experience. All sections of the form must be completed in order to deem the application to be complete.

Making an incorrect statement or providing incorrect information may result in all or part of the application having to be reconsidered by HWC in the future, or submission of a new application.

The following information is to be included upon submission to HWC:

1. Proof of payment with correct reference number
2. Completed and signed application form – the application form must be completed in full in order to be considered
3. Power of Attorney
4. Locality Map
5. Images of the site and its context
6. Additional information pertaining to the heritage of the site

Application and associated documentation to be emailed to ceoheritage@westerncape.gov.za

A. APPLICABILITY OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NEMA)

Department of Environmental Affairs Development Planning (Western Cape); Department of Mineral Resources (National); Department of Environmental Affairs (National);
Reference Number (if applicable):

Please tick the applicable section:

This application is made in terms of Section 38(8) of the NHRA and an application under NEMA has been made to the following authority: Department of Mineral Resources (DMR)

This development will not require a NEMA application.

B. BASIC DETAILS**PROPERTY DETAILS:**

Name of property: Rhenosterkop	
Street address or location (eg: off R44): Off N1	
Erffarm number/s: Rem of Rhenosterkop 155	Coordinates: S 32° 14' 27.3" E 22° 52' 53.8" (A logical centre point. Format based on WGS84.)
Town or District: Beaufort West	Municipality: Beaufort West
Extent of property: 4243.7 ha	Current use: small stock and wild game grazing
Predominant land use/s of surrounding properties: small stock and wild game grazing	

REGISTERED OWNER OF PROPERTY:

Name and Surname: <i>Adriaan De Waal Nijssen</i>		
Address: <i>Rhenosterkop 150191 Beaufort West 6970</i>		
Telephone: <i>07214821012</i>	Cell: <i>0827893337</i>	E-mail: <i>Rhenosterkop5ca@gmail.com</i>
APPLICANT/ AUTHORISED AGENT: <i>0721482012</i>		
Name and Surname:		
Address:		
Telephone:	Cell:	E-mail:

By the submission of this form and all material submitted in support of this notification (ie: 'the material'), all applicant parties acknowledge that they are aware that the material and/or parts thereof will be put to the following uses and consent to such use being made: filing as a public record; presentations to committees, etc; inclusion in databases; inclusion on and downloading from websites; distribution to committee members and other stakeholders and any other use required in terms of powers, functions, duties and responsibilities allocated to Heritage Western Cape under the terms of the National Heritage Resources Act. Should restrictions on such use apply or if it is not possible to copy or lift information from any part of the digital version of the material, the material will be returned unprocessed. All sections of the form have been completed.

Signature of Owner:

Date:

Should the owner not be able to sign, the applicants/ agents must attach copy of power of attorney to this form.

Signature of Applicant/ Authorised Agent:

Date:

Applicants/ agents must attach copy of power of attorney to this form.

C. DEVELOPMENT DETAILS:

Please indicate below which of the following Sections of the National Heritage Resources Act, or other legislation has triggered the need for notification of intent to develop.	
<input type="checkbox"/>	S38(1)(a) Construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier over 300m in length.
<input type="checkbox"/>	S38(1)(b) Construction of a bridge or similar structure exceeding 50m in length.
<input type="checkbox"/>	S38(1)(d) Rezoning of a site exceeding 10 000m ² in extent.
	<p>S38(1)(c) Any development or activity that will change the character of a site -</p> <p><input type="checkbox"/> (i) exceeding 5 000m² in extent;</p> <p><input type="checkbox"/> (ii) involving three or more existing erven or subdivisions thereof;</p> <p><input type="checkbox"/> (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years.</p> <p>If you have checked any of the three boxes above, describe how the proposed development will change the character of the site:</p>
	<p>Other triggers, eg: in terms of other legislation, (ie: National Environment Management Act, etc.) Please set out details:</p> <p>X Under NEMA the proposed quarry must be assessed via a Basic Assessment process</p>
<p>If an impact assessment process has also been / will be initiated in terms of other legislation please provide the following information:</p> <p>Authority / government department (ie: consenting authority) to which information has been /will be submitted for final decision: Department of Mineral Resources (DMR)</p> <p>Present phase at which the process with that authority stands: application phase</p>	
<p>Provide a <u>full</u> description of the nature and extent of the proposed development or activity including its potential impacts:</p> <p>Otter Mist Trading 1057 (Pty) Ltd (hereafter referred to as the applicant) applied for a mining permit for the mining of dolomite, 5 ha on a portion of the remaining portion of the Farm Rhenosterkop nr 115, Beaufort West District, Western Cape Province</p> <p>The proposed mining footprint will be 5 ha and will be developed over an undisturbed area of the farm. The mining method will make use of drilling and blasting in order to loosen the hard rock; the material will then be loaded and hauled to the crushing plant where it will be screened to various sized stockpiles. The dolerite will be stockpiled until it is</p>	

transported from site using tipper trucks. All mining related activities will be contained within the approved mining permit boundaries.

Otter Mist Trading 1057 (Pty) Ltd, intends to win material from the area for at least 2 years with a possible extension of another 3 years. The dolerite to be removed from the quarry will be used for local construction and building projects in the vicinity. The proposed quarry will therefore contribute to the upgrading / maintenance of road infrastructure and building contracts in and around the Beaufort West area.

The mining activities will consist out of the following:

- Stripping and stockpiling of topsoil;
- Drilling
- Blasting;
- Excavating;
- Crushing;
- Stockpiling and transporting;
- Sloping and landscaping upon closure of the site; and
- Replacing the topsoil and vegetation of the disturbed area.

The mining site will contain the following:

- Drilling equipment;
- Excavating equipment;
- Earth moving equipment;
- Static crushing and screening plants.
- Access Roads;
- Site Office (Containers);
- Site vehicles;
- Parking area for visitors and site vehicles;
- Vehicle service area;
- Wash bay;
- Workshop (Containers);
- Salvage Yard;
- Bunded diesel and oil storage facilities;
- Generator on bunded area;
- Ablution Facilities (Chemical Toilets);
- Weigh Bridge; and
- Demarcated general and hazardous waste area.

The proposed project will not require any additional electricity connections, as power will be supplied, when needed, by generators. All diesel storage will be below the threshold as mentioned in the EIA regulations of the National Environmental Management Act, 1998 (Act No 107 of 1998) as amended 2017.

Access to the proposed mining area will be via the N1, making use of the existing internal/haul roads to access the mining area. Haul roads will be extended as the open cast mining progress and will be rehabilitated as part of the final reinstatement of the area. Trucks delivering the materials to the destinations will take the N1 national route.

The proposed access road intersects with more than 2 drainage lines which necessitates a water use license application in terms of Section 21 of the NWA, 1998. A Risk Matrix Assessment will be compiled.

Any water required for the implementation of the project will be bought and transported to the site.

Estimated value cost of the project in South African Rands:

R _____

D. ANTICIPATED IMPACTS ON HERITAGE RESOURCES

Section 3 of the National Heritage Resources Act sets out the following categories of heritage resource as forming part of the national estate. Please indicate the known presence of any of these by checking the box alongside and then providing a description of each occurrence, including nature, location, size, type

Failure to provide sufficient detail or to anticipate the likely presence of heritage resources on the site may lead to a request for more detailed specialist information.

Provide a short history of the site and its environs (Include sources where available):

Few CRM surveys have occurred close by with the most relevant being for a quarry access road immediately over the N1 from Rhenosterkop and the widening of the N1 through Courlandskloof just to the northeast (Orton 2010; the quarry itself has apparently been surveyed and permitted but no documentation of this is known and none could be sourced from the developer at the time of the road application), and a second quarry just further north (Gibble 2020).

These projects showed that scatters of LSA and MSA stone artefacts occur in places and rock engravings including both animals and scratching/rubbing occur in the area. Some engravings of high significance occur very close to the Renosterkop Quarry but do not seem to be under threat yet. A stone-walled kraal is also on record north of the N1. Historical structures, artefacts scatters and aspects of the historical nineteenth century Cape Town to Kimberley railway (which broadly follows the N1) were also recorded. The latter include cast iron and stone bridge and also an Anglo-Boer War blockhouse built at the bridge to guard it during the war.

Around Nelspoort, to the northeast of the study area, there are a number of rock engravings and some rock gongs that are quite well-known (Parkington *et al.* 2008).

More broadly, most Karoo farms include historical structures and graves and the kinds of archaeology noted above are expected to be widespread. Rock paintings are also known from the Karoo, but not from anywhere close to the study area.

Please indicate which heritage resources exist on the site and in its environs, describe them and indicate the nature of any impact upon them:

X	<p>Places, buildings, structures and equipment of cultural significance</p> <p>Description of resource: An early 20th century farmhouse occurs on the farm and lies close to the north-western edge of the farm, some 3.5 km from the proposed quarry. It is not adjacent to any of the farm access roads. The house appears relatively unmodified and is in fairly good condition giving it high cultural significance.</p> <p>Description of impact on heritage resource: No impacts expected.</p>
X	<p>Places to which oral traditions are attached or which are associated with living heritage</p> <p>Description of resource: Possible, but unknown. The scratched dolerite rocks may be linked to oral traditions but this cannot be determined.</p> <p>Description of impact on heritage resource: Unknown.</p>

<input type="checkbox"/>	<p>Historical settlements and townscapes</p> <p>Description of resource: n/a</p> <p>Description of impact on heritage resource: n/a</p>
<input checked="" type="checkbox"/>	<p>Landscapes and natural features of cultural significance</p> <p>Description of resource: The Karoo landscape has high aesthetic value and the dolerite hills are especially characteristic of the central Karoo. The N1 can accordingly be considered a scenic route, although another quarry lies just across the N1 to the northwest.</p> <p>Description of impact on heritage resource: A small section of hillside will be quarried away. The site is far from the N1 (4.8 km) and it is highly unlikely that any activity on the site would be visible. Significant visual impacts to the cultural landscape and N1 scenic route are thus not expected.</p>
<input type="checkbox"/>	<p>Geological resources of scientific or cultural importance</p> <p>Description of resource: n/a</p> <p>Description of impact on heritage resource: n/a</p>
<input checked="" type="checkbox"/>	<p>Archaeological resources (Including archaeological sites and material, rock art, battlefields & wrecks):</p> <p>Description of resource: Just one flake, one core and one upper grindstone were seen in the area (only the flake was actually inside the footprint) with all being on the sandy plain in the north-western part of the study area. This aspect of archaeology is thus of no concern. Of more concern, however, are the many scratched rocks seen in the study area. No engraved images were seen though. The meaning of these scratched rocks is unclear. It was noticeable, however, that a number of the rocks had been scratched or rubbed on more than one occasion with the older marks being patinated. This suggests that returning to these stones to refresh the marks may have been important.</p> <p>It is also worth noting that the farmer's wife showed us some proper engravings (scraped) of animals (at least some eland) and some historical marks, including the name of M. Grimbeek accompanied by a date of 1915 and Matt Grimbeek with the date 1916 or 1918. A stylised Nine Men's Morris game board and another large geometric motif was also present. This site is well away from the proposed quarry. We were also shown an extensive scatter of LSA materials occurring alongside the large riverbed in the north-western part of the farm. This, too, is well away from the quarry and farm access roads and will not be affected.</p> <p>Description of impact on heritage resource: These scratched/rubbed dolerite rocks would all be destroyed during mining.</p>
<input type="checkbox"/>	<p>Palaeontological resources (ie: fossils):</p> <p>Description of resource: n/a – the landscape is comprised of dolerite which is non-fossiliferous.</p> <p>Description of impact on heritage resource: n/a</p>
<input type="checkbox"/>	<p>Graves and burial grounds (eg: ancestral graves, graves of victims of conflict, historical graves & cemeteries):</p> <p>Description of Resource: n/a</p>

	Description of Impact on Heritage Resource: n/a
X	<p>Other human remains:</p> <p>Description of resource: There is always a chance that unmarked human burials could occur in sandy areas suitable for excavation by hand. However, with the dearth of archaeology on site, burials are deemed extremely unlikely to occur.</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Sites of significance relating to the history of slavery in South Africa:</p> <p>Description of resource: n/a</p> <p>Description of impact on heritage resource: n/a</p>
<input type="checkbox"/>	<p>Other heritage resources:</p> <p>Description of resource: n/a</p> <p>Description of impact on heritage resource: n/a</p>
<p>Describe elements in the environs of the site that could be deemed to be heritage resources: Description of impacts on heritage resources in the environs of the site:</p> <p>As above</p>	

Summary of anticipated impacts on heritage resources:

The only impact anticipated is to LSA scratched engravings on the dolerite rocks of the study area. While these "motifs" are poorly understood and might have once had significance beyond that which we might understand, they are also very common. A photographic record has been made of those in the study area and further work on this small sample is unlikely to accomplish anything further.

E. ILLUSTRATIVE MATERIAL:

Attach to this form a minimum A4 sized locality plan showing the boundaries of the area affected by the proposed development, its environs, property boundaries and a scale. The plan must be of a scale and size that is appropriate to creating a clear understanding of the development.

Attach also other relevant graphic material such as maps, site plans, satellite photographs and photographs of the site and the heritage resources on it and in its environs. These are essential to the processing of this notification.

Please provide all graphic material on paper of appropriate size and on CD/ USB in JPEG format. It is essential that graphic material be annotated via titles on the photographs, map names and numbers, names of files and/or provision of a numbered list describing what is visible in each image.

F. RECOMMENDATION

In your opinion do you believe that a heritage impact assessment is required? Yes No

Recommendation made by:

Name: Dr Jayson Orton

Capacity: Archaeologist and heritage consultant

PLEASE NOTE: No Heritage Impact Assessment should be submitted with this form or conducted until Heritage Western Cape has expressed its opinion on the need for such and the nature thereof.

G. INFORMATION TO BE PROVIDED AND STUDIES TO BE CONDUCTED AS PART OF THE HERITAGE IMPACT ASSESSMENT (HIA)

If it is recommended that an HIA is required, please complete this section of the form.

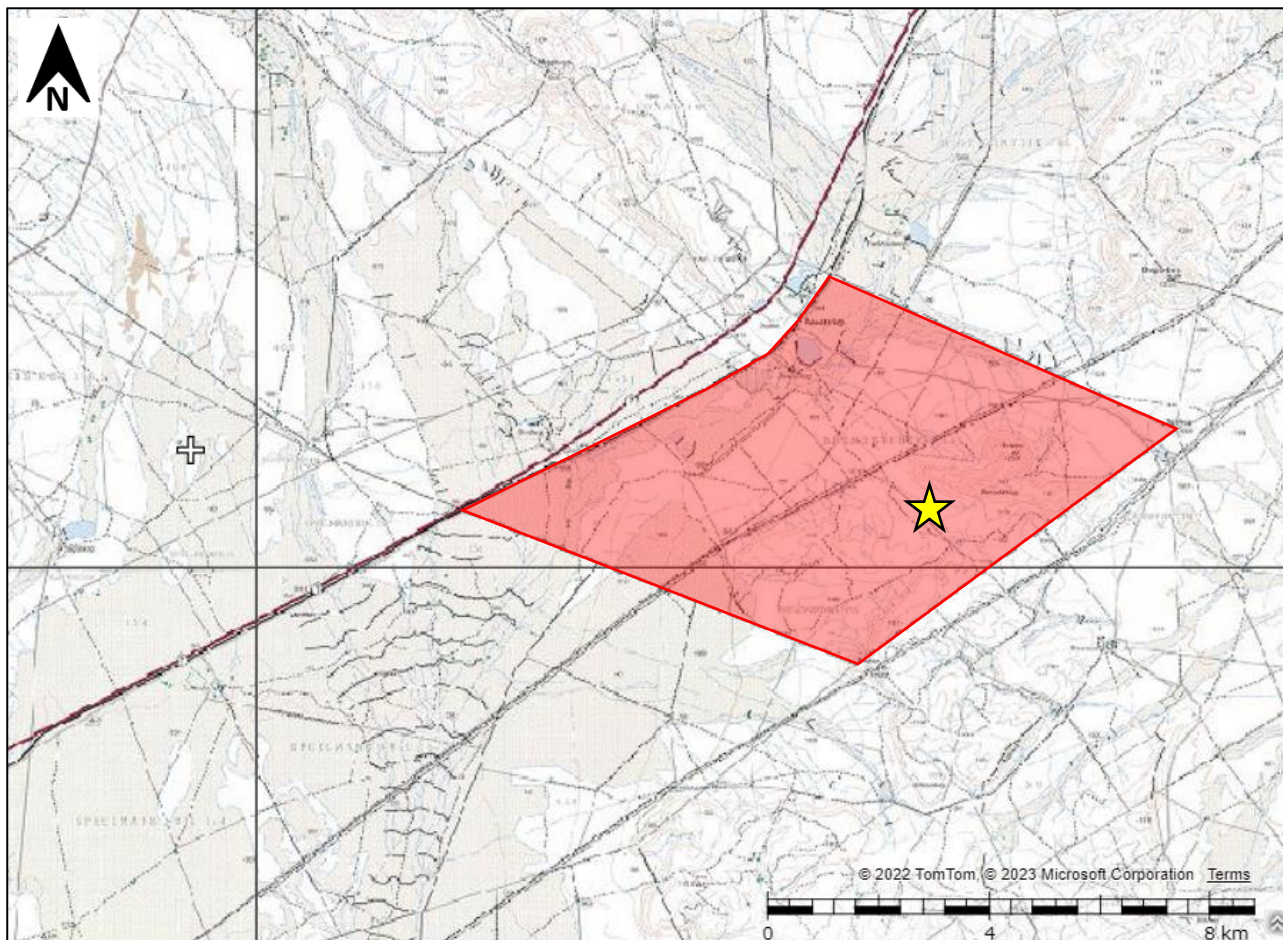
DETAILS OF STUDIES TO BE CONDUCTED IN THE INTENDED HIA

In addition to the requirements set out in Section 38(3) of the NHRA, indicate envisaged studies:

<input type="checkbox"/>	Heritage resource-related guidelines and policies.
<input type="checkbox"/>	Local authority planning and other laws and policies.
<input type="checkbox"/>	Details of parties, communities, etc. to be consulted.
<input type="checkbox"/>	Specialist studies, eg: archaeology, palaeontology, architecture, townscape, visual impact, etc. Provide details:
<input type="checkbox"/>	Other. Provide details:

PLEASE NOTE: Any further studies which Heritage Western Cape requires should be submitted must be in the form of a single, consolidated report with a single set of recommendations. Specialist studies must be incorporated in full, either as chapters of the report, or as annexures thereto.
Please refer to the *Guidelines for Heritage Impact Assessments required in terms of Section 38 of the National Heritage Resources Act (Act 25 of 1999)*

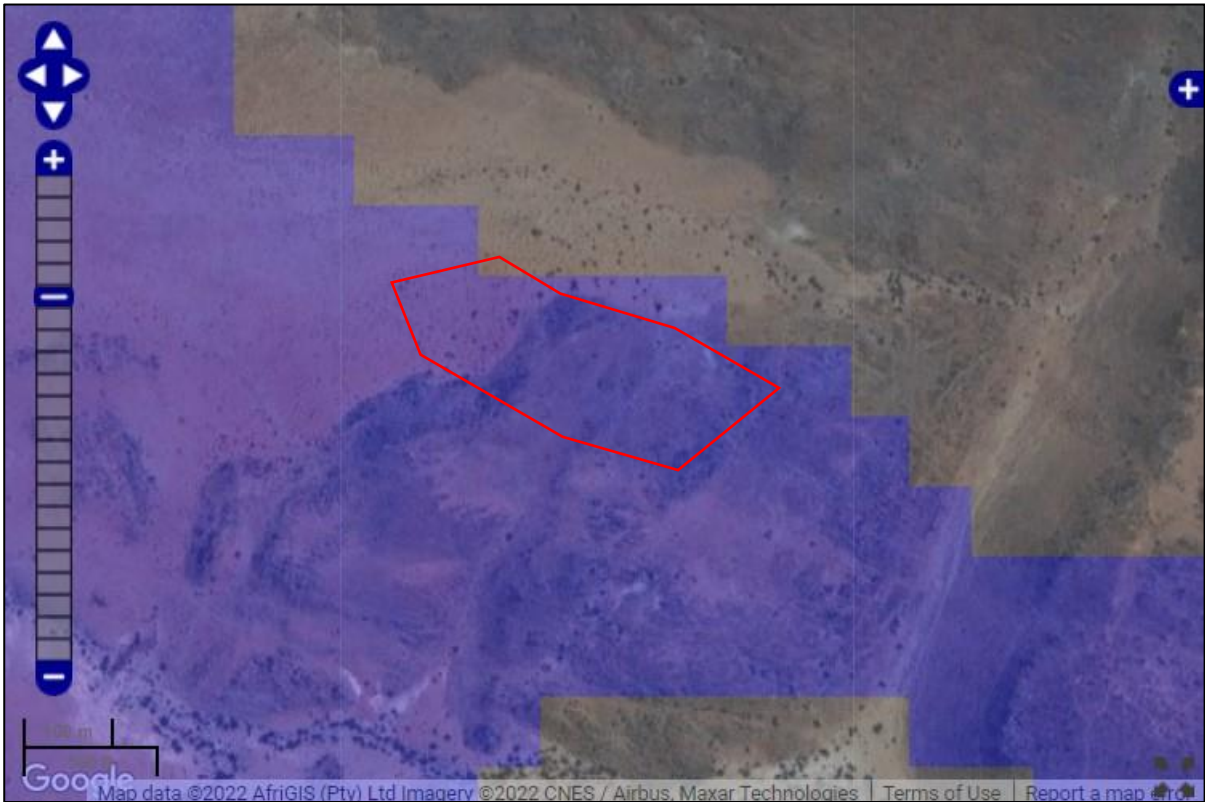
NID supporting document: proposed dolerite quarry on Remainder of Rhenosterkop 155, Beaufort West



Extract from 1:50 000 mapsheet 3222BA showing the location of the property (red shaded polygon) and study area (yellow star).



Aerial view showing the farm boundary (red polygon) and location of the study area (yellow star).



Extract from the SAHRIS Palaeosensitivity map showing the study area to be of low palaeontological sensitivity (blue shading). There must be inaccuracy in the mapping because dolerite is unfossiliferous and thus should be of zero sensitivity. The rating is likely correct for the unconsolidated sediments off the dolerite outcrop.



Survey tracks (white lines) with two finds from elsewhere on the farm (white numbered symbols).



Study area with all finds indicated (white numbered symbols).

Site photos (13 March 2023)



Looking south towards the study area in mid-picture. Photo taken from about 90 m away from the northern edge of the study area.



Looking east from the western edge of the study area. This is on the sandy plain at the foot of the dolerite outcrop.



Looking west from the edge of the dolerite over the western, sandy portion of the study area and showing the access track leading to the site.



Looking west from the eastern end of the study area.



Looking northeast towards the study area showing the landscape context. Photograph taken from about 110 m south of the southern edge of the study area.



Looking southwest through the southern part of the study area showing dolerite outcrops.



Looking west across an area of exposed dolerite bedrock in the central eastern part of the study area.




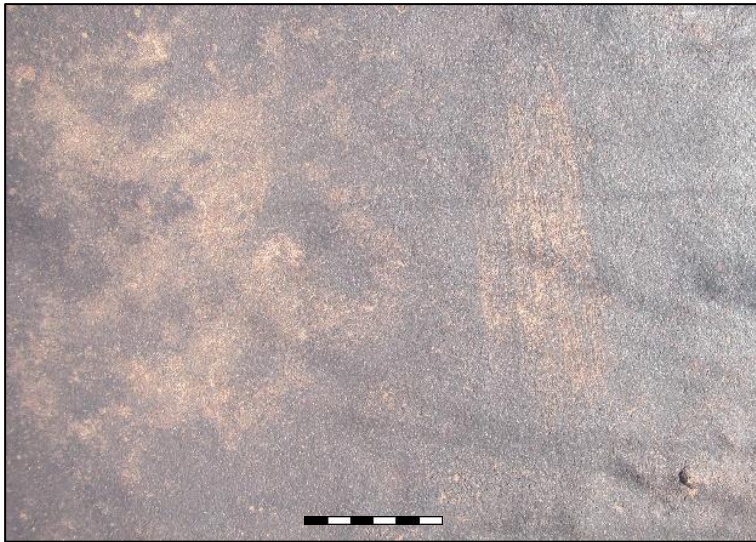
Looking northwest along the access track leading to the study area.



Looking northwest along the access track leading beneath two sets of high voltage powerlines to the study area.

Finds

Waypoint	Location	Description	Significance Grade
668	S32 14 25.2 E22 52 53.4	Dolerite rock with some pecked marks on it. The pecked patch is about 10x15 cm. 	Very low NCW
669	S32 14 25.5 E22 52 54.4	A dolerite rock with a scratched area and a second rock with a smoothed/ground patch alongside a scratched area. Photograph scales in cm.	Low IIIC

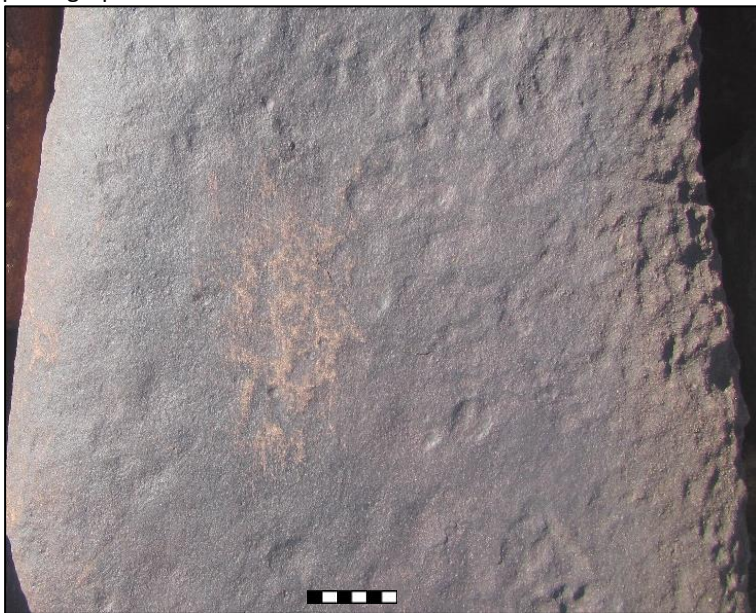


670

S32 14 31.0
E22 52 56.3

A dolerite rock with a scratched and smoothed area. The scratches are patinated and thus much older than the rubbed area. Main photograph scale in cm. Zoomed in section is about 7 cm wide.

Low
IIIC







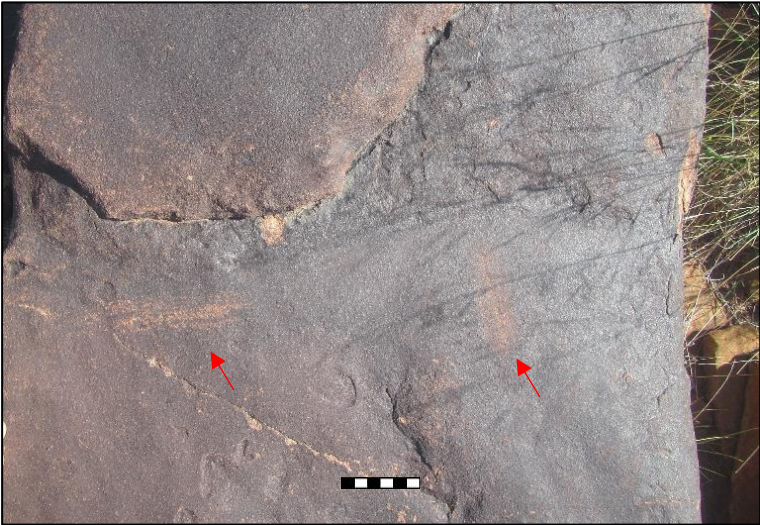
671

S32 14 29.8
E22 52 57.6

Two dolerite rocks with scratched and/or rubbed patches. One of them (the upper photograph below) seems to have older, patinated scratches below the more recent rubbing. The third photograph shows the context of these rocks. Photograph scales in cm.

Low
IIIC



			
672	S32 14 29.1 E22 52 54.2	<p>A dolerite rock with some unpatinated scratched and/or rubbed patches. Photograph scale in cm.</p> 	Very low NCW
673	S32 14 28.8 E22 52 49.5	<p>A dolerite rock with two small relatively unpatinated scratched/rubbed patches. Photograph scale in cm. The larger cracked slab in the second photograph is about 1 m across. The third photograph shows the context of these rocks. Photograph scale in cm.</p> 	Very low NCW



674

S32 14 23.5
E22 52 54.5

A lightly used upper grindstone and a tuff core located on the flat sandy area below the dolerite outcrop and just outside the study area. Photograph scale in cm.

Very low
NCW



675

S32 14 24.1
E22 52 07.8

We were taken to this site by the farmer's wife. She mentioned that elsewhere there is an engraving of an elephant but was not sure of the exact location. These sites, and the LSA scatter below) are well away from the proposed quarry but are listed here for the record. A dolerite outcrop with several engravings on it. The main slab has a few eland with one of them having a fat line extending from its nose (bleeding? rain?). There is also a stylised Nine Men's Morris gameboard (it has six concentric squares rather than three and is on

High
IIIA




an angled section of rock so it could not have been used to play the game). The name "M. Grimbeek" and a date of 1915 appears in one place and in another is "Matt Grimbeek" with a date of 1916 or 1918. There are also many other recent scratches, including some lettering and a large geometric design. A second rock nearby has a single eland on a near-vertical face.



676

S32 13 05.3
E22 51 39.6

Extensive LSA scatter along the bank of a river. There are many flaked stone artefacts, some grindstones, plenty of pottery, some ostrich

		<p>eggshell and some bones (some burnt). Artefacts have been collected from this site in the past (grindstones, bored stones). Apparently there is a large amount of archaeology along the margins of this river.</p> 	
677	S32 13 04.3 E22 51 10.4	<p>The main farmhouse which looks to date from the early 20th century, perhaps between 1910 and 1930. It is located well away from the proposed quarry.</p> 	High IIIA
410	S32 14 24.8 E22 52 52.8	<p>A dolerite rock with some light peck marks on it. Photograph scale in 1 and 5 cm intervals.</p> 	Very low NCW
411	S32 14 25.2 E22 52 52.4	<p>Three dolerite rocks with scraping, scratching and rubbing on them. One has scrapes that seem to make an indeterminate motif of sorts. Photograph scales in 1 and 5 cm intervals.</p>	



412

S32 14 25.3
E22 52 53.1

A dolerite rock with parallel lines scratched on it. Photograph scale in 1 and 5 cm intervals.



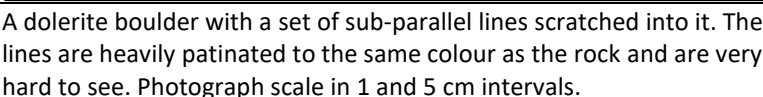
413

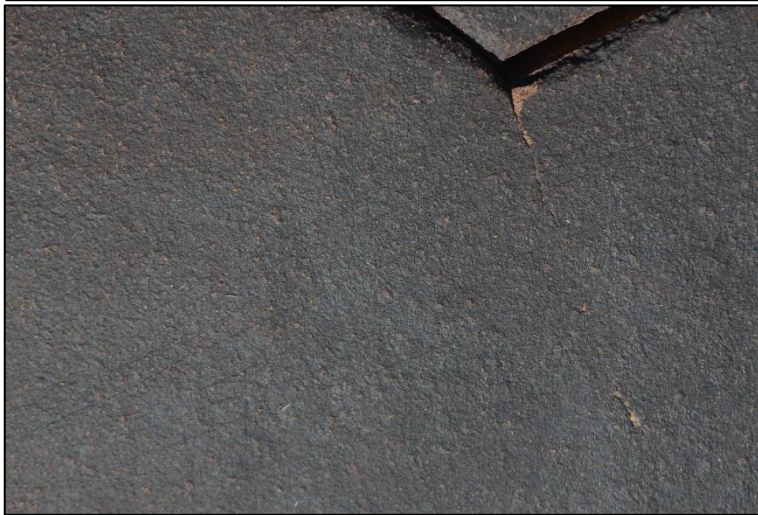
S32 14 26.3
E22 52 52.2

A dolerite rock with a scratched and rubbed area. Photograph scale in 1 and 5 cm intervals.



414	S32 14 26.8 E22 52 51.5	A dolerite rock with some short, heavy scratches on it. Photograph scale in 1 and 5 cm intervals.	
415	S32 14 27.6 E22 52 51.4	A dolerite rock with some scratches on it. There are two phases of scratching with the earlier being heavily patinated and barely visible (they do not show up in the photograph). The fresher scratches are between the two arrows. Photograph scale in 1 and 5 cm intervals.	
416	S32 14 28.2 E22 52 51.0	A dolerite rock with a smoothed/ground patch. Also some small scratches. Photograph scale in 1 and 5 cm intervals.	
417	S32 14 28.1 E22 52 51.1	A dolerite boulder with a set of sub-parallel lines scratched into it. The lines are heavily patinated to the same colour as the rock and are very hard to see. Photograph scale in 1 and 5 cm intervals.	





418

S32 14 28.2
E22 52 51.0

A dolerite rock with a smoothed/ground patch. Photograph scale in 1 and 5 cm intervals.

