

**PHASE 1 ARCHAEOLOGICAL HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED
DEVELOPMENT OF THE REMAINDER OF ERF 328, JEFFREY'S BAY.**

Prepared for: Integrated Environmental Management Unit

36 River Road

Walmer

Port Elizabeth

6070

Compiled by: Dr Johan Binneman

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June 2006

**PHASE I ARCHAEOLOGICAL HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED
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Dr Johan Binneman
Department of Archaeology
Albany Museum
Grahamstown
6139

PROPOSAL

The original proposal was to do a survey of possible archaeological heritage sites on the remainder of Erf 328, in Jeffrey's Bay; to establish the range and importance of the heritage sites, the potential impact of the development and to make recommendations to minimize possible damage to these sites.

**INVESTIGATION
Archaeological survey**

The surveyed area consisted of a small piece of land situated partly between the narrow gauge railway line and the old national road. The proposed area for development comprised of a hill slope covered mainly by fynbos vegetation and grass, and was investigated on foot. No other archaeological material was found. It is highly unlikely that any archaeological or historical material would be located during development, but archaeological sites and material may be exposed after the top soil is removed. See appendix for a list of possible archaeological sites that maybe found in the area.

Community consultation

Consultation with the Gamat kwa KhoiSan First Nation, was conducted with Mr K. Reichert as required by the National Heritage Resources Act No. 25 of 1999, Section 38(3e). Mr K. Reichert will communicate their recommendations to the Integrated Environmental Management Unit.

CULTURAL SENSITIVITY OF THE AREA

The proposed area for development is of very low cultural sensitivity and development may proceed.

RECOMMENDATIONS

1. In the unlikely event that any concentrations of archaeological material are uncovered during further development of the site, it should be reported to the nearest archaeologist and/or the South African Heritage Resources Agency immediately so that a systematic and professional investigation can be undertaken. Sufficient time should be allowed to remove/collect such material.
2. Construction managers/foremen should be informed before construction starts on the possible types of heritage sites and cultural material they may encounter and the procedures to follow when they find sites.

BRIEF ARCHAEOLOGICAL BACKGROUND

The Jeffrey's Bay coastline between the Kabeljous and Kromme River Mouths once housed thousands of archaeological sites, including the remains of the indigenous people (Rudner 1968). Most of these sites have disappeared due to the development while others were covered by dune sand and vegetation (Binneman 2001, 2005).

The most common archaeological sites are shell middens (relatively large piles of marine shell) found usually concentrated opposite rocky coasts, but also along sandy beaches if there was a large enough source of white mussel (people refer to these as 'strandloper middens'). These were campsites of San hunter-gatherers, Khoi herders and KhoiSan peoples who lived along the immediate coast (up to 5 km) and collected marine foods. Mixed with the shell are other food remains, cultural material and often human remains are found in the middens. In general middens date from the past 8 000 years. Also associated with middens are large stone floors which were probably used as cooking platforms.

Other archaeological sites may consist of concentrations of stone artefact and/or bone remains. Some of the stone tools may date back to 100 000 years old, and the fossil bone occurrences along the coast may also date this old. These fossil remains represent large bovids and other animals of which many are extinct today. In the gravel terraces and on the hill tops of the area large stone tools from the Earlier Stone Age can be found dating to some 1 million years old (Laidler 1947).

GENERAL REMARKS

It must be emphasised that the conclusions and recommendations expressed in this archaeological heritage sensitivity investigation are based on the visibility of archaeological sites/material and may not therefore, reflect the true state of affairs. Many sites may be covered by soil and vegetation and will only be located once this has been removed. In the event of such finds being uncovered, (during any phase of construction work), archaeologists must be informed immediately so that they can investigate the importance of the sites and excavate or collect material before it is destroyed. The onus is on the developer to ensure that this agreement is honoured in accordance with the National Heritage Act No. 25 of 1999.

It must also be clear that Phasel Specialist Reports (Archaeological Impact Assessments - AIA) will be assessed by the relevant heritage resources authority. The final decision rests with the heritage resources authority, which should give a permit or a formal letter of permission for the destruction of any cultural sites.

REFERENCES

- Binneman, J.N.F.** 2001. An introduction to a Later Stone Age coastal research project along the south-eastern Cape coast. *Southern African Field Archaeology* 10:75-87.
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- Butzer, K.W. & Helgren, D.M.** 1972. Late Cainozoic evolution of the Cape coast between Knysna and Cape St Francis. *Quaternary Research* 2:143-169.
- Laidler, P.W.** 1947. The evolution of Middle Palaeolithic technique at Geelhoutboom, near Kareedouw, in the southern Cape. *Transactions of the Royal Society of South Africa* 31:283-313.
- Rudner, J.** 1968. Strandloper pottery from South and South West Africa. *Annals of the South African Museum* 49:441-663.

APPENDIX: IDENTIFICATION OF ARCHAEOLOGICAL FEATURES AND MATERIAL FROM COASTAL AREAS: guidelines and procedures for developers

1. Shell middens

Shell middens can be defined as an accumulation of marine shell deposited by human agents rather than the result of marine activity. The shells are concentrated in a specific locality above the high-water mark and frequently contain stone tools, pottery, bone and occasionally also human remains. Shell middens may be of various sizes and depths, but an accumulation which exceeds 1 m² in extent, should be reported to an archaeologist.

2. Human Skeletal material

Human remains, whether the complete remains of an individual buried during the past, or scattered human remains resulting from disturbance of the grave, should be reported. In general the remains are buried in a flexed position on their sides, but are also found buried in a sitting position with a flat stone capping and developers are requested to be on the alert for this.

3. Fossil bone

Fossil bones may be found embedded in calccrete deposits at the site. Any concentrations of bones, whether fossilized or not, should be reported.

4. Stone artefacts

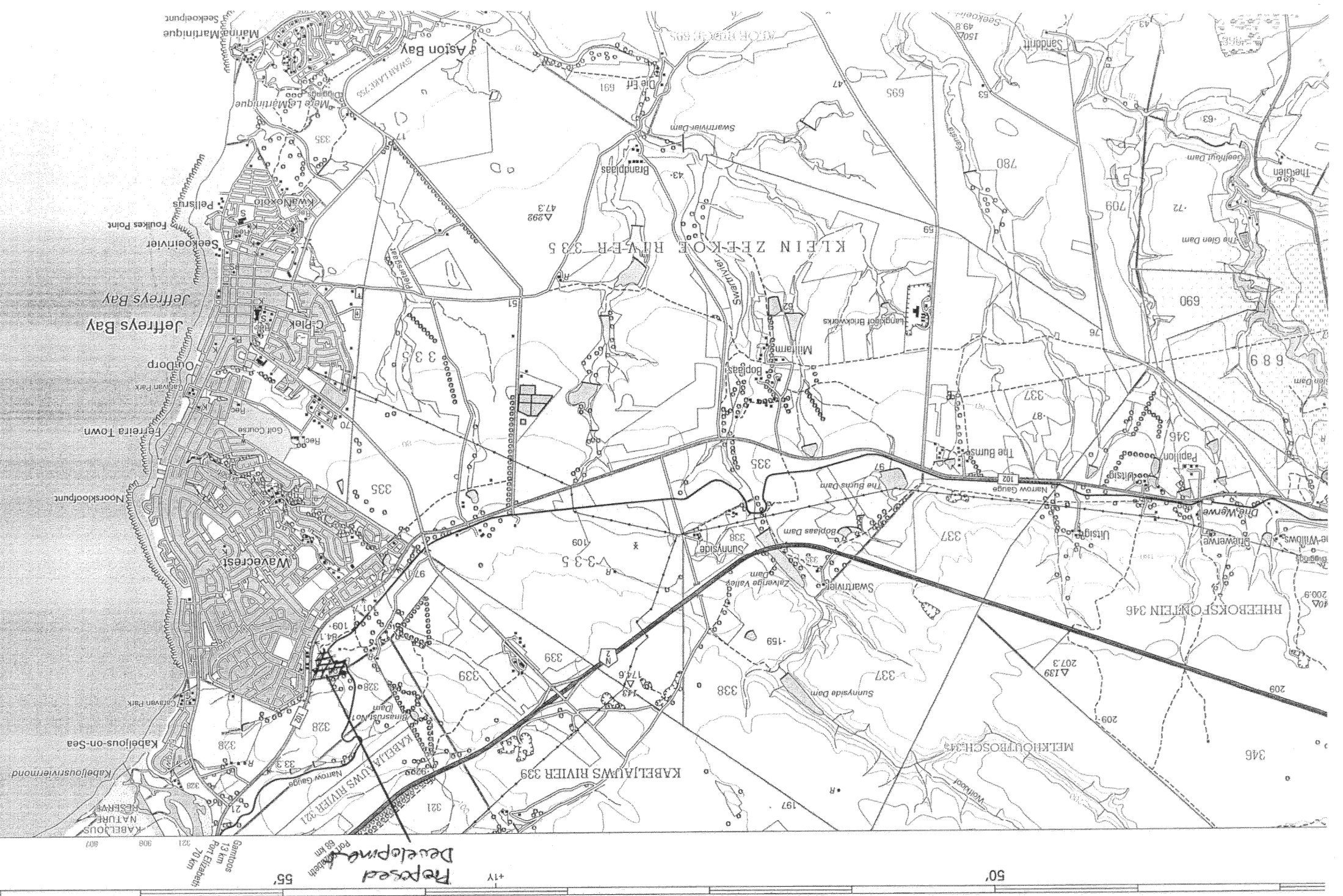
These are difficult for the layman to identify. However, large accumulations of flaked stones which do not appear to have been distributed naturally, should be reported. If the stone tools are associated with bone remains, development should be halted immediately and archaeologists notified.

5. Stone features and platforms

They come in different forms and sizes, but are easy to identify. The most common are an accumulation of roughly circular fire cracked stones tightly spaced and filled in with charcoal and marine shell. They are usually 1-2 metres in diameter and may represent cooking platform for shell fish. Others may resemble circular single row cobble stone markers. These are different sizes and may be the remains of wind breaks or cooking shelters.

6. Historical artefacts or features

These are easy to identified and include foundations of buildings or other construction features and items from domestic and military activities.



Proposed

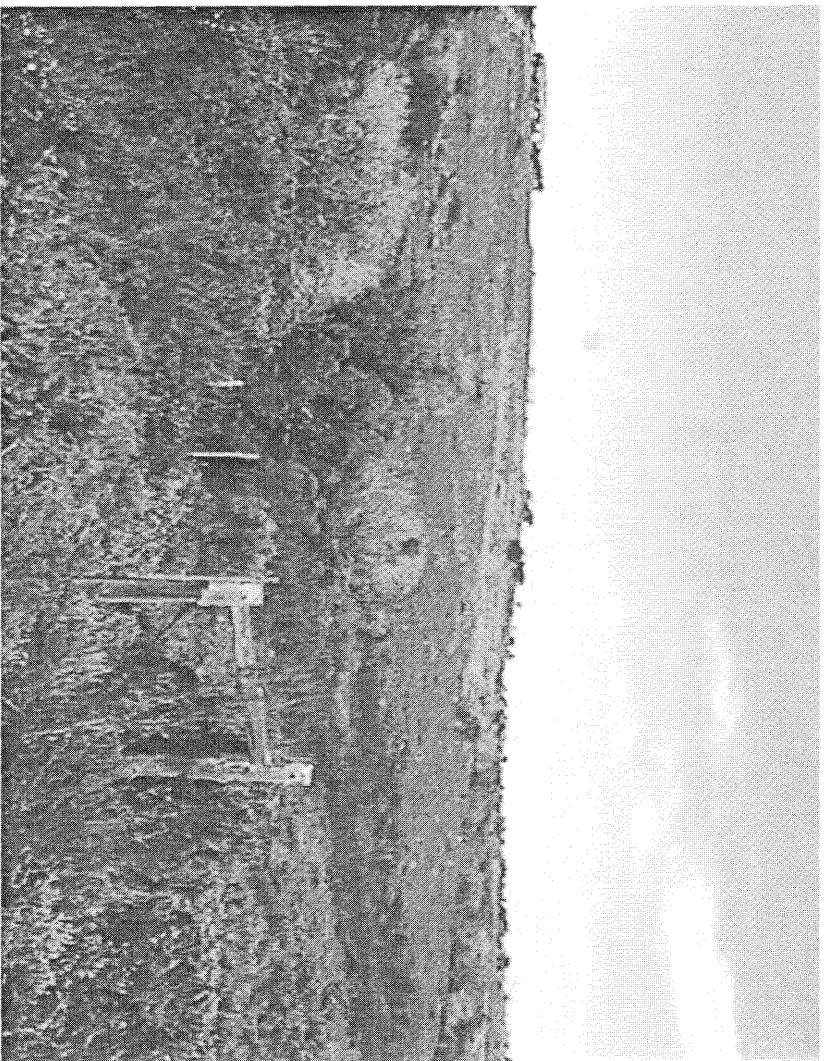
Developed

Garraus 13 km
Port Elizabeth 70 km

55

+1Y

50





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KHOISAN FIRST NATION
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10 JULY 2006

CEN
Integrated Environmental Management Unit
Rivierweg 36
Walmer
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6070

Dear Dr. Cohen,

ENVIRONMENTAL IMPACT STUDY : REMAINDER OF ERF 328, JEFFREYSBAY

We refer to our previous correspondence in the above regard.

We have studied the archaeological report submitted by Dr. Binneman, and we agree with his recommendations.

Thank you for the opportunity to take part in the process.

Regards

CHIEF M. WILLIAMS
GAMTKWA TRIBE

**LETTER OF RECOMMENDATION FOR THE EXEMPTION OF A FULL PHASE 1
ARCHAEOLOGICAL HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED
DEVELOPMENT OF A PORTION OF THE FARM MENTORSKRAAL NO. 336, JEFFREY'S
BAY.**

Prepared for: Gertenbach Ecological Consultations

P. O. Box 963

Jeffreys Bay

6330

Compiled by: Dr Johan Binneman

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Albany Museum

Somerset Street

Grahamstown 6139

June 2006

**LETTER OF RECOMMENDATION FOR EXEMPTION OF A FULL PHASE 1 ARCHAEOLOGICAL
HERITAGE IMPACT ASSESSMENT**

The proposed development of a petrol station on a portion of the farm Mentorskraal No. 336, Jeffrey's Bay, is exempted from a full Phase 1 archaeological heritage impact assessment. It is believed that it is unlikely that any archaeological heritage remains will be found on the property previously used for agricultural purposes. Disturbances were also caused by the construction of the N1 national road and access roads.

GENERAL REMARKS AND CONDITIONS

It must be emphasised that this letter of recommendation for exemption of a full Phase 1 archaeological heritage impact assessment is based on the visibility of archaeological sites/material and may not therefore, reflect the true state of affairs. Sites and material may be covered by soil and vegetation and will only be located once this has been removed. In the unlikely event of such finds being uncovered, (during any phase of construction work), archaeologists must be informed immediately so that they can investigate the importance of the sites and excavate or collect material before it is destroyed (see attached list of possible archaeological sites and material). The onus is on the developer to ensure that this agreement is honoured in accordance with the National Heritage Act No. 25 of 1999.

It must also be clear that this letter of recommendation for exemption of a full Phase 1 archaeological heritage impact assessment will be assessed by the relevant heritage resources authority. The final decision rests with the heritage resources authority, which should give a permit or a formal letter of permission for the destruction of any cultural sites.

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3424BB HUMANSDORP

HOOGTES IN METER

1 : 50 000 SUD-AFRICA

Proposed Development



24° 45' 34° 00'

50'

+2X

Car St Francis 27km +377X

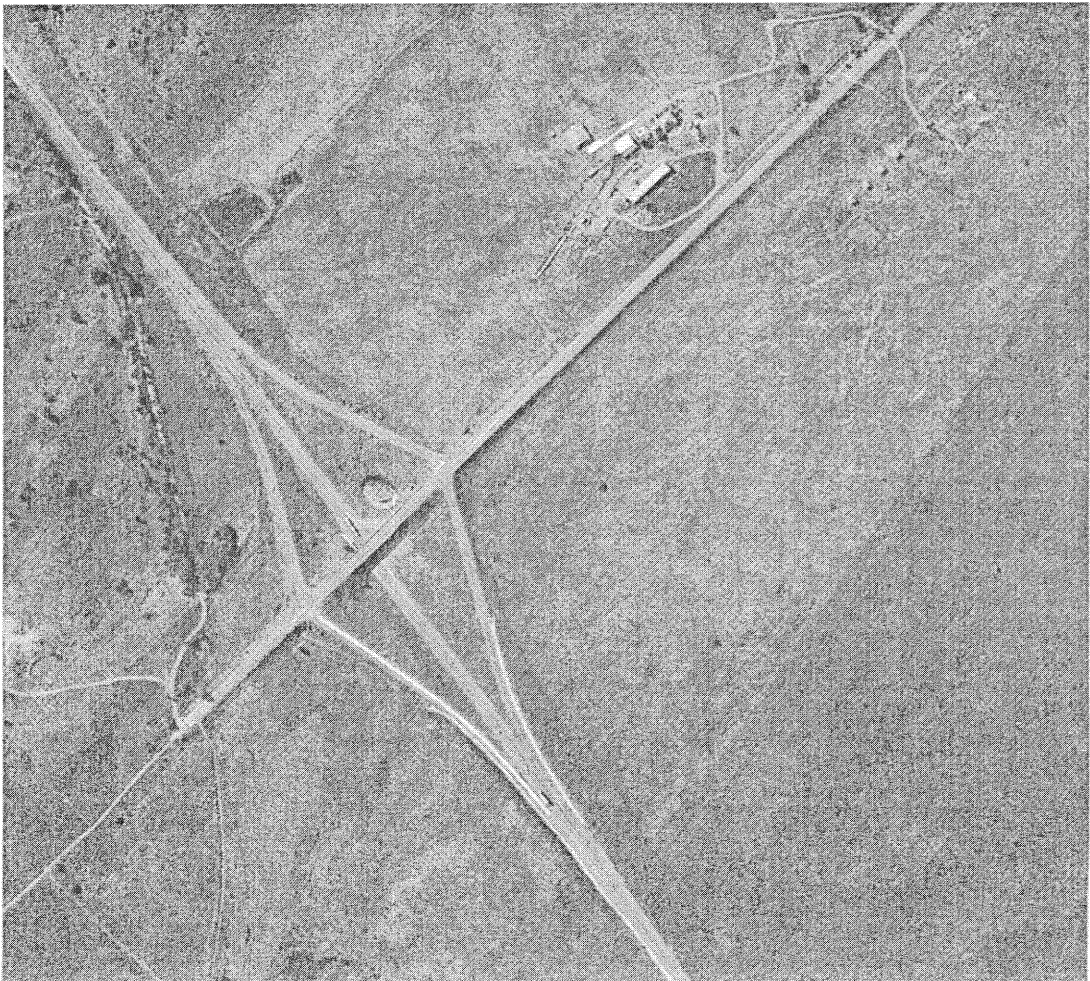
Kayana 178km

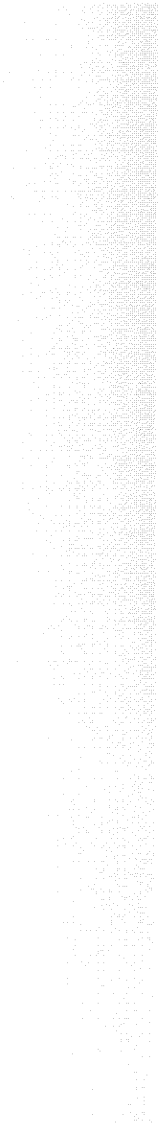
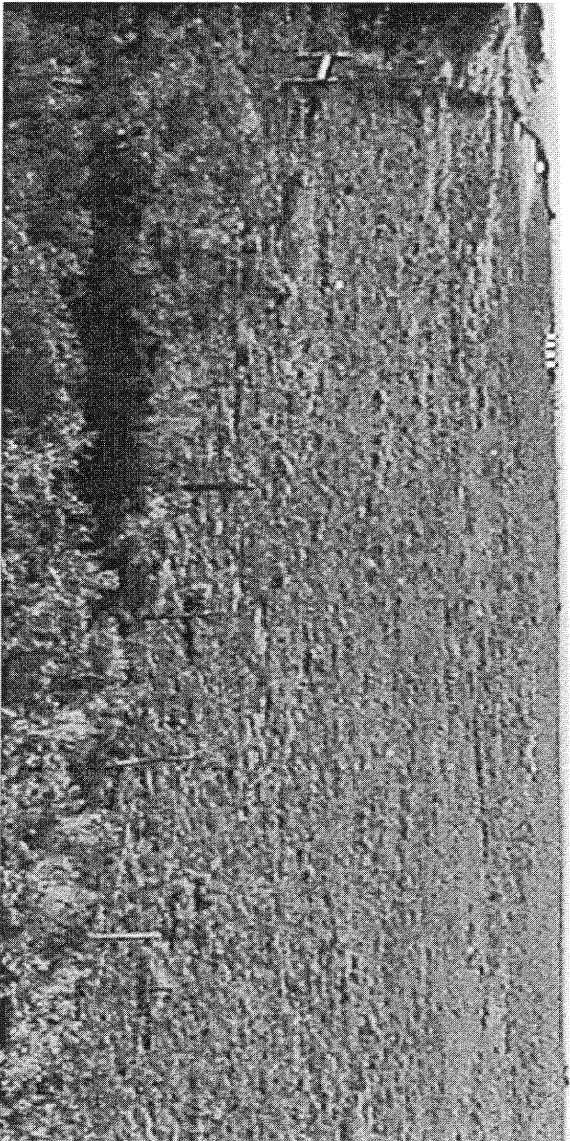
Kristofel 5km

Kristofel 18km

Kristofel 18km

Kristofel 18km



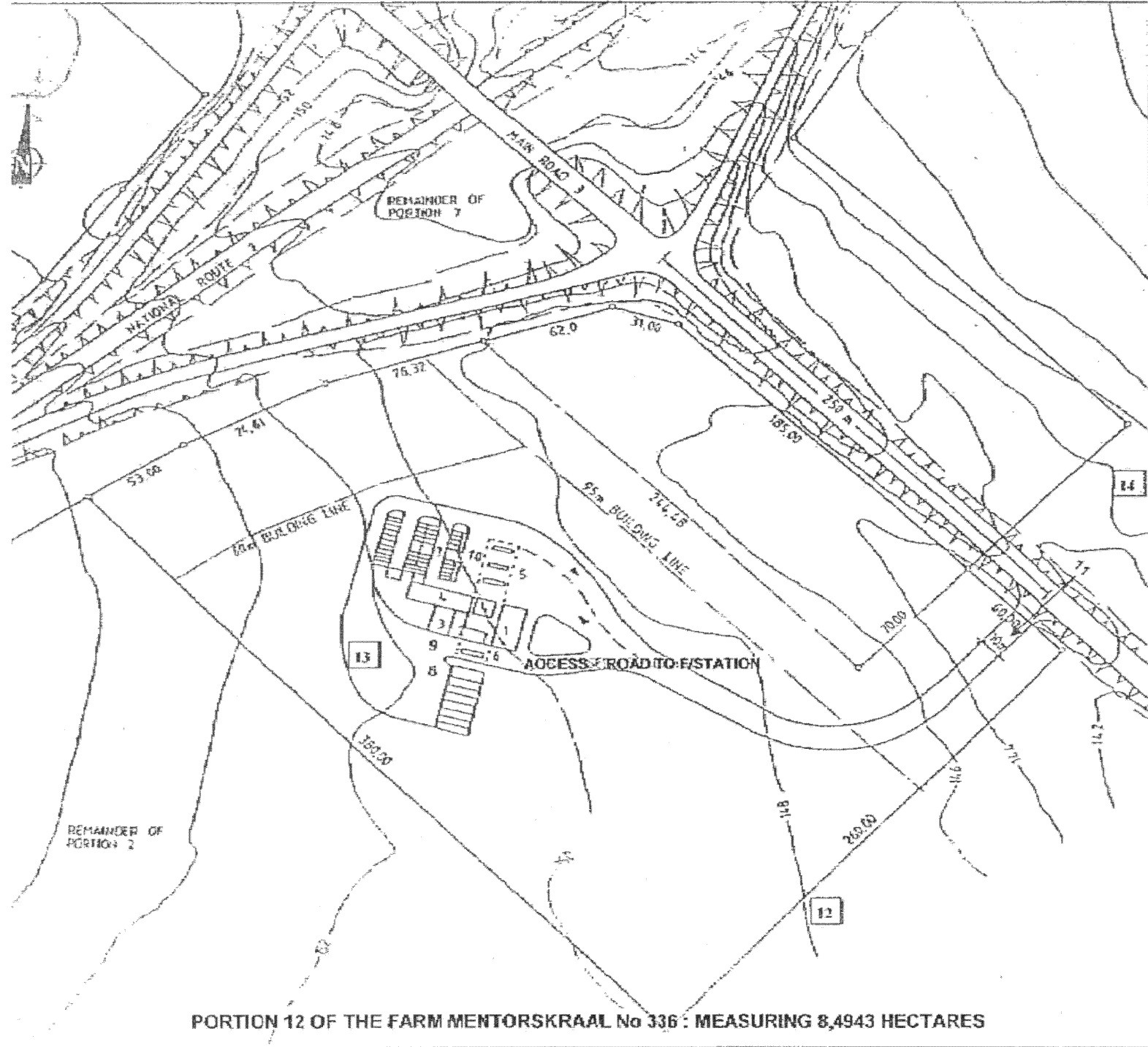


1. RESTAURANT
2. ABLUTIONS
3. STAFF
4. KIOSKS
5. SMALL VEHICLES FUEL
6. TRUCK FUEL
7. COVERED CAR PARK
8. TRUCK PARK
9. UNDER GROUND FUEL TANKS (CAPACITY ± 50 000LT)
10. UNDER GROUND FUEL TANKS (CAPACITY ± 50 000LT)
11. ENTRANCE ROAD
12. EXISTING TRANSFORMER FOR POWER SUPPLY
13. SEWAGE SEPTIC TANK
14. EXISTING STORAGE WATER TANK (20 000CLT) FROM BOREHOLE (20 000GALL. P/H)

NOTES:

1. CONTOUR INTERVAL 2m
2. LAYOUT CONCEPTUAL ONLY—SUBJECT TO AMENDMENT AND FINALIZATION UPON BUILDING PLAN SUBMISSION STAGE.

DR. JOHANN BRUNNENMAN
 EK VERBOD DIE FORTO E-POS
 DETAIL IS OUKER AAN DIE
 KOPER
 TONNIE
 MIELOM (GERTENBACH)



PORTION 12 OF THE FARM MENTORSKRAAL No 336 : MEASURING 8,4943 HECTARES



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10 JULIE 2006

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Geagte Dr. Gertenbach,

OMGEWINGSIMPAKSTUDIE : PLAAS MENTORSKRAAL 336

Ons verwys na ons vorige korrespondensie in bostaande verband.

Besoek is afgeleë by bostaande terrein, en ons het ook insae gehad in die verslag wat uitgereik is deur Dr. Binneman.

Ons is tevrede met sy bevinding, en aanbevelings, en het geen beswaar teen 'n aansoek om vrystelling vir 'n fase 1 Argeologiese Impakstudie nie.

Dankie vir die geleentheid om deel te neem aan die proses.

HOOFMAN M. WILLIAMS
GAMTKWA STAM