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NWANEDI-LUPHBPHB

Environmental Impact Study: Phase 2

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ARCHADOLOGICAL SURVEY

Frans Roodt

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NWANEDI - LUPHEPHE ENVIRONMENTAL IMPACT STUDY: PHASE

ARCHAEOLOGICAL SURVEY

NIRODICTION

The Law

of this impact assessment must be sent to the NMC. site or material without a permit from the National Monuments Council (NMC). A copy is an offence to destroy damage, alter, remove from its original site, or excavate any such palaeontological, archaeological and historical sites and material older than 50 years. It National Monuments Act (Act No. 28 of 1969, as amended) protects

natural and man-made environment, and this includes archaeological sites respectively. These reports will evaluate the impact such development may have on the environment of activities identified and prohibited in terms of Sections 21 and 22 through the IEM procedure for the drawing up of reports on the impact on the In addition, the Environment Conservation Act (Act No. 73 of 1989) makes provision

Archaeological Remains

such as erosion and animal burrowing, as well as by man-made disturbances such as of such remains, normally as a result of exposure through the activities of natural agents The discovery of archaeological remains is to a large degree dependent on the visibility roads, mechanical excavations and plowing activities

as animal bones, seeds, charcoal and pollen. archaeological site. The remains are found in the form of artifacts, which are objects A place where the material remains of past societies are discovered, is known as an features like graves; human skeletal remains; and ecofacts, non-man-made objects such made by people, for example stone and metal tools or pottery; structures like huts.

as well as middens and burnt hut debris. Pottery traditions and styles are acknowledged as diagnostic criteria for the identification of groups and cultures and are therefore a handy tool for the archaeologist. Iron Age sites are easily identified by the remains of material such as pottery and stone

METHOD OF INVESTIGATION

1. Reconnaissance

photographed. Sensitive areas or sites are marked on the 1:50 000 map. coordinates of archaeologically significant finds and features and small finds were speaker that was employed as guide and interpreter. investigated by foot. Local villagers were interviewed with the assistance of a Venda certain areas on the plain where archaeological remains could be expected was Reconnaissance by vehicle and by foot. Each hill on the proposed route as well as A GPS was used to record the

2. Literature

and south east of the mountain, from which comparisons could be drawn. the region north west of the Zoutpansberg, the mountain itself as well as the region south No published material was found of the survey area. Published sources however exist of

LOCATED ARCHAEOLOGICAL SITES

Zwigodini (location of balancing reservoir) ordinates: S22° 31' 45" E30° 35' 59"

Coordinates: S22° 31' 45"

spindle walling settlement deposits. The southern foot of the hill also contains archaeological remains. features such as three, possibly four, circular stone floors (plate 1), a banded iron stone An archaeological site was found on the hill top. whorl (plate forming terraces (plate 3), which was probably mined in pre-colonial times (plate 5) was also found and numerous fragments of pottery Excavations The site consists of a number of will certainly 2), collapsed stone (plate 4).reveal more

separate traditions namely Moloko (13th - 15th century Sotho-Tswana) and Khami (15th The pottery 16th century Zimbabwe [Shona]). is fragmented, but nevertheless could tentatively be identified as This is a historically significant site and may not be

Significance: High

northern side of the hill and that the pipeline be routed accordingly. Recommendation: That the reservoirs be placed on an unobtrusive place on the

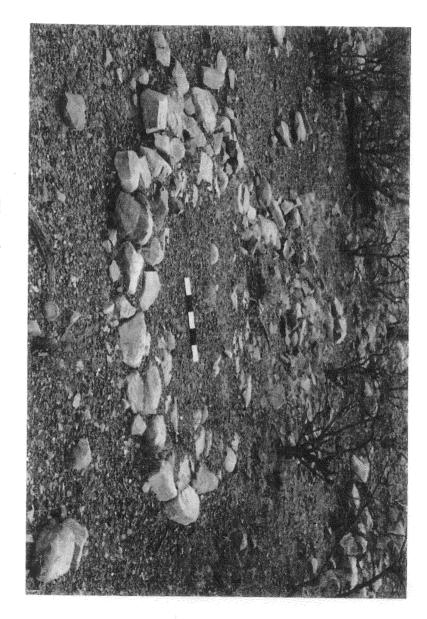


Plate I. Circular Stone Floors



Vate 2. Banded Iron Stone Outcrop



Plate 3. Collapsed Stone-walling

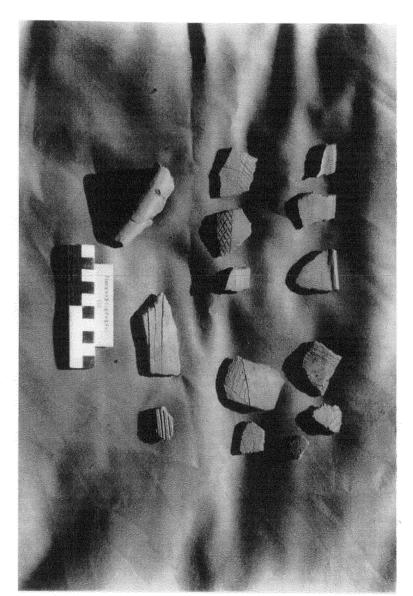


Plate 4. Pottery Fragments

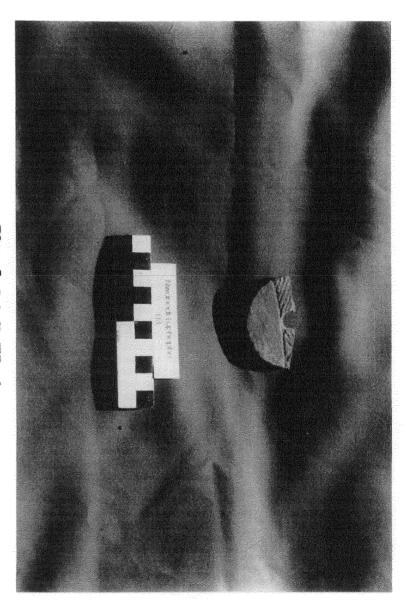


Plate 5. Spindle Whorl

2. Mbodi 1 & II (reservoir)

Coordinates: S22° 32' 46.3 E30° 42' 50.4"

An archaeological site was found on the plateau of the hill where natural terracing occurs (plate 6). This site produced pottery as well as slag (plate 7) from metalworking activities. The pottery (plate 8) is classed as Khami (15th - 17th century) and Letaba (Venda) traditions.

Significance: High.

hill. Recommendation: That the reservoir be placed at the furthermost eastern side of the

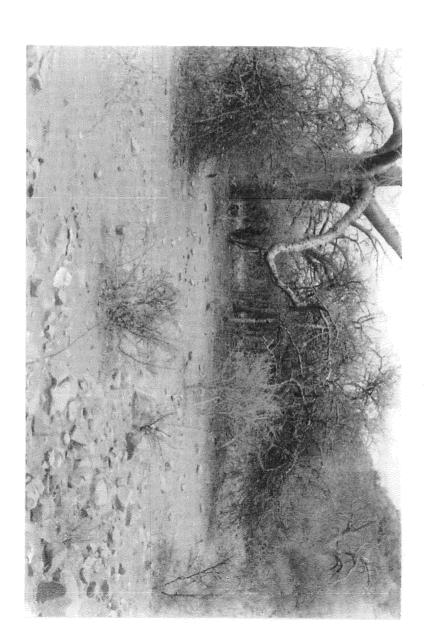


Plate 6. General View of Hill Top

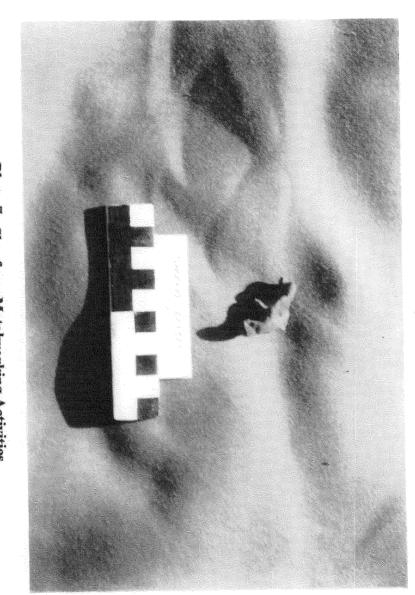


Plate 7. Slag from Metalworking Activities

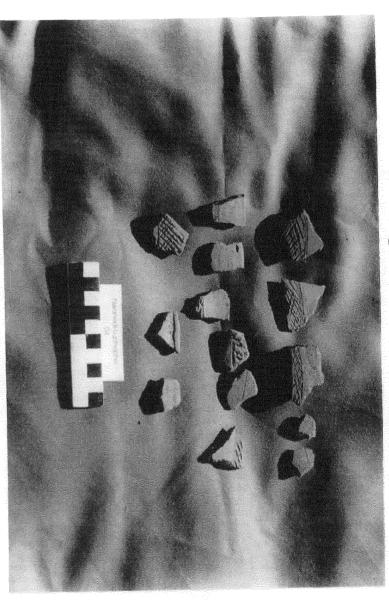


Plate 8. Pottery Fragments

3. Gwakawani

Coordinates: S22° 33' 55.4" E30° 47' 35.5"

part still intact is the section where the pipeline will pass through. namely Eiland (11th - 13th century), Moloko (13th - 15th century), and Khami (15th grinding stones. ploughed pipeline An archaeological site was located next to the road that will be intersected by the 17th century). The site extends up the slope to an elevated flattened area which has been Cultural remains found include pottery, metalworking slag, hut debris and This site has been degraded to a large extent and it seems that the only Three different pottery traditions (plate 9) were tentatively identified

be of significance in understanding the pre-colonial history of the region. Because of the interaction and overlapping between the different traditions, this site may

Significance: High

standard excavation must be commissioned by the developer. record the deposit when the trench is excavated. Should a significant deposit be found, a Recommendation: It is recommended that the archaeologist be allowed time to inspect and This site must be mitigated with the aim of a possible Phase 2

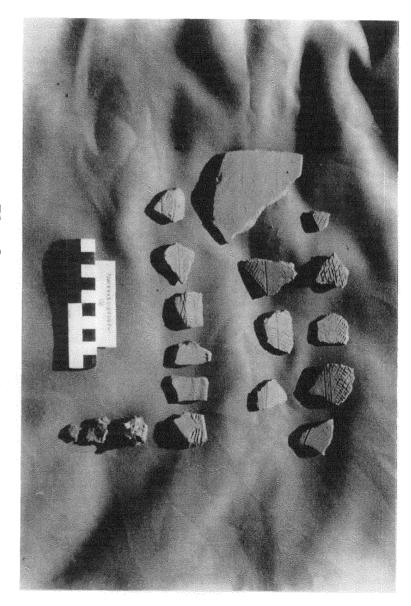


Plate 9. Pottery Fragments

4. Mokovhawabale (reservoir)

archaeological remains have been found, these remains are insignificant. This particular hill top has been extensively eroded, and although traces of.

Significance: Low.

Recommendation: That the reservoir be placed at the western side of the hill top

5. Tshivongweni (reservoir and pipeline)

Coordinates: S22° 34' 08.6" E30° 35' 21"

represents a commoner settlement of the Khami (Zimbabwe) culture. Cultural remains consist of pottery, middens and hut debris. The pottery tradition (plate 10) found here is Khami (15th - 17th century). This site is significant as it probably An archaeological site was located immediately west of the Tshivongweni Township.

Significance: High

be damaged. Recommendation: That this site be avoided during construction of the pipeline and not

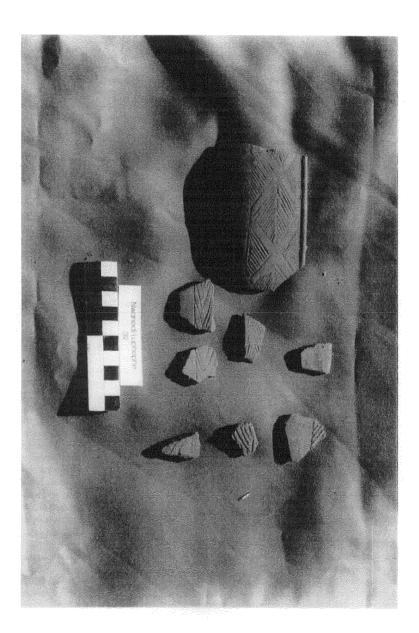


Plate 10. Pottery Fragments

Coordinates: S22° 33' 57.3" E30° 35' 17.5"

charcoal sample was taken from one of the ash deposits and delivered to the CSIR for process of being eroded. C14 dating (plate 11). The pottery (plate 12) has both Khami and Letaba characteristics. An archaeological site was found on the southern slope of Tshivongweni hill. It is in the The site contains dung and ash deposits, and pottery.

of the reservoir, but action should nevertheless be taken not to disturb it. Recommendation: This site is probably higher up the slope than the proposed location

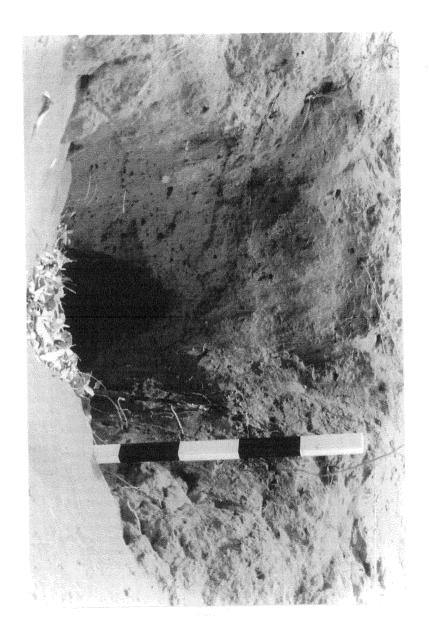


Plate II. Ash Deposit

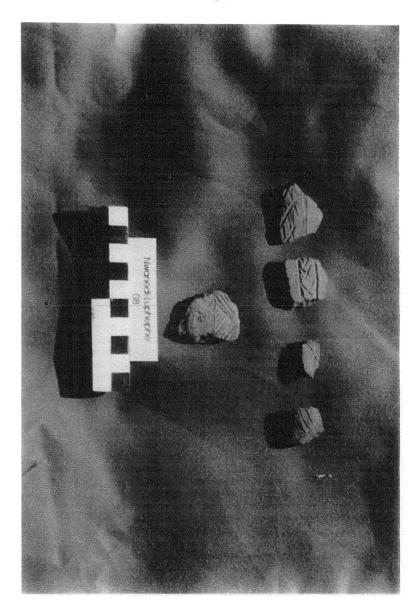


Plate 12. Pottery Fragments

SITE 3

Coordinates: S22° 33' 50" E30° 35' 19.5"

recently to The plateau of Tshivongweni hill contains archaeological remains dating from relatively recommended that it not be disturbed. pre-colonial times Although not on route, it is recorded here and

6. Tshirunzi (reservoir)

Coordinates: S22° 34' 58.9" E30° 39' 56.7"

remains, the site is not regarded as significant. The proposed reservoir is located on the plateau (plate 13) where a few potsherds were The pottery (plate 14) has Khami characteristics but due to the low density of

Significance: Low.

Recommendation: That the reservoir be placed on the eastern side of the hill.

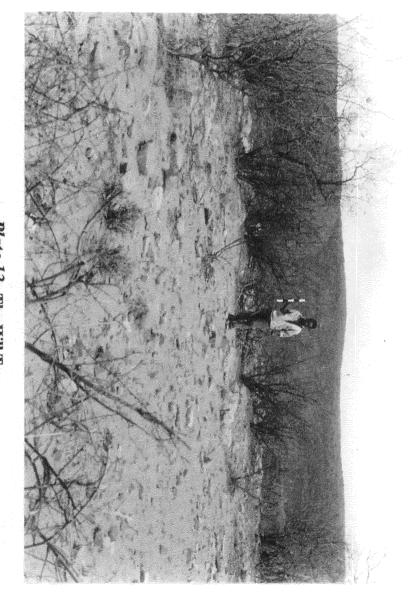


Plate 13. The Hill Top

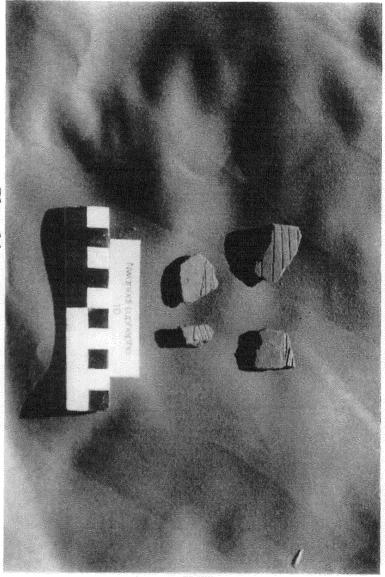


Plate 14. Pottery Fragments

7. Shakadza (reservoir)

Coordinates: S22° 37' 21.4" E30° 33' 38" S22° 37' 17" E30° 33' 36.7"

relatively recently to the 15th/16th century. A cattle enclosure could be identified (plate 16) and remains of stone-walling occurs (plate 17). The pottery falls within the Khami An extensive archaeological site is located on the plateau (plate 15) which dates from where the older deposits seem to occur, has been eroded. (15th - 17th century) and Letaba (Venda) traditions (plates 18 & 19) The northern part 16) and remains of stone-walling occurs (plate 17).

Significance: High

the plateau Recommendations: That the reservoir be placed on the extreme north-western side of

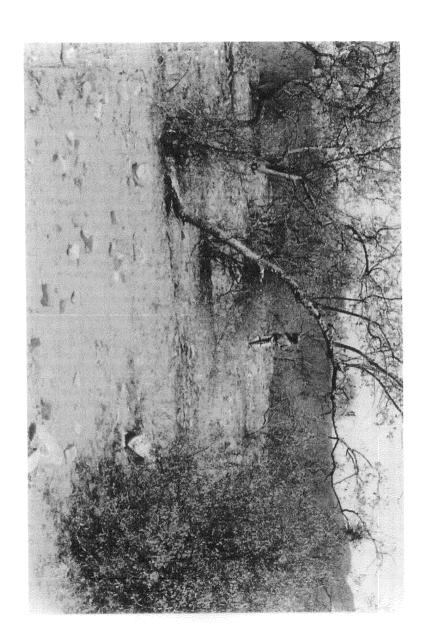


Plate 15. The Hill Top

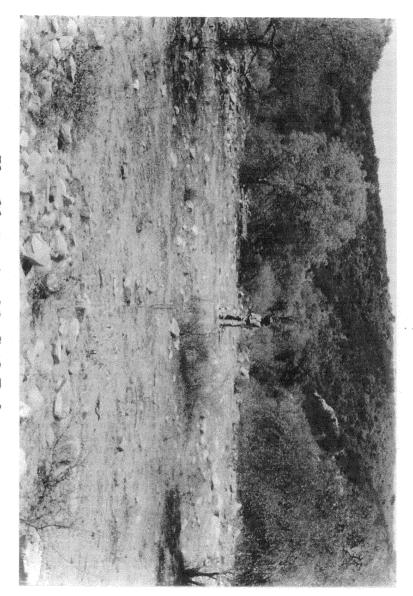


Plate 16. Remains of the Cattle Enclosure

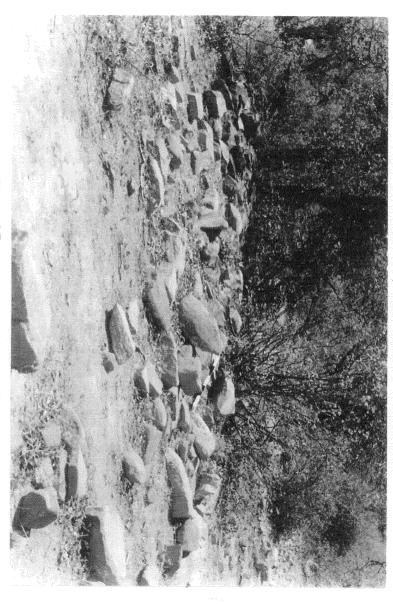


Plate 17. Remains of Stone-walling

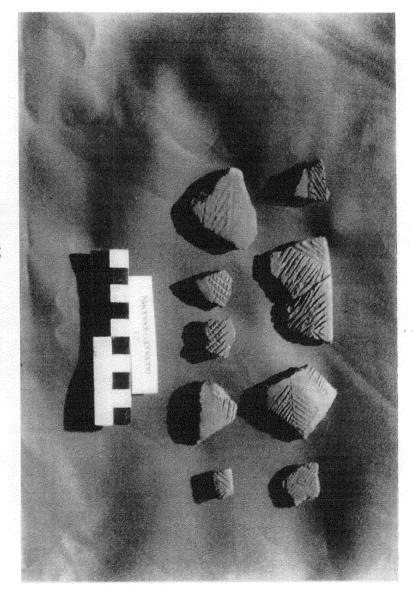


Plate 18. Pottery Fragments

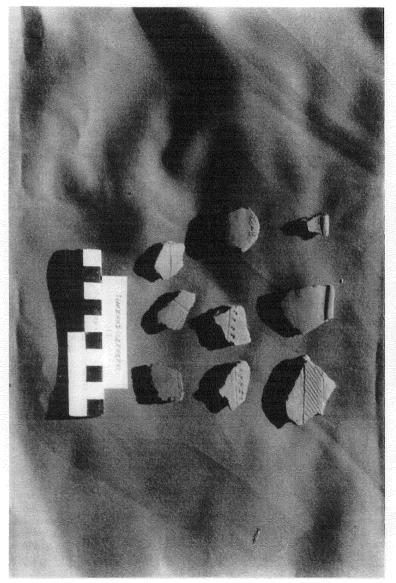


Plate 19. Pottery Fragments

8. Tshokotshoko / Thahari (reservoir & pipeline)

Coordinates: S22° 36' 45.6" E30° 37' 22.3"

within living memory, it should not be damaged, but left as part of the heritage of that The remains of stone-walling (plate 20) is located here and although the ruin was built

Significance: Low.

stone wall and that the pipeline should follow a route within a safe distance. Recommendation: That the reservoir not be placed in the immediate vicinity of the

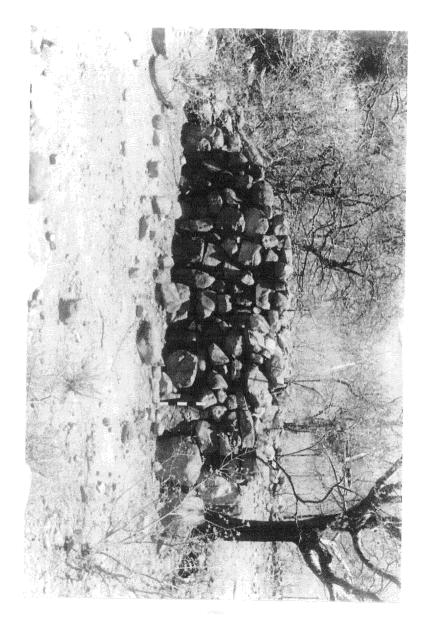


Plate 20. Remains of Stone-walling

9. Tshikotoni (reservoir & pipeline)
A dense concentration of Middel Stone Age material occurs scattered in this area.

Recommendation: The placing of the reservoir and pipeline must be mitigated on site.

CONCLLISION

of the nature and scope of the survey, where one can only surface material, it is likely that earlier Iron Age traditions were not observed due to the regions. Generally, each flat hill top was inhabited during pre-colonial times. Because compare well with what has been described elsewhere for the Zoutpansberg and adjacent they are absent fact that they would occur in the lower levels of the cultural deposits, and not because The so-called Iron Age archaeological profile of the Nwanedi - Luphephe area seems to work with small samples of

and Letaba (modern day Venda). There seems to have been an interaction between and expressions in the area, starting with the Eiland tradition, followed by Moloko, Khami the different pottery styles occuring on the same site overlapping of the different cultural groups during the past millennium, as is reflected in From at least the 11th century then, it appears that there was a sequence of cultural

Similarly, the Stone Age sequence is not represented fully due to the nature and scope of the survey

GENERAL RECOMMENDATION

mitigation has been completed destroy an archaeological site will be given to the developer only if satisfactory provision may have to be made for the costs of a Phase 2 Should circumstances require a disturbance to a site, the impact must be mitigated and route of the feeding main and gravity pipeline where archaeological remains have been identified, on site. The non-disturbance option must be followed wherever possible. It is essential that the archaeologist advise on the exact location of each reservoir and excavation.

REFERENCES

Navorsinge van die Nasionale Museum Bloemfontein. Vol 7, Part 8 Loubser, J. H. N. 1991 The Ethnoarchaeology of Venda-speakers in Southern Africa

Frans Roodt
PIETERSBURG

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October 1997

NWANEDI - LUPHEPHE ENVIRONMENTAL ARCHAEOLOGICAL SURVEY IMPACT ASSESSMENT:

PHASE

EXECUTIVE SUMMARY

Method of investigation

photographs were taken of sites and small finds and included in the report. Reconnaissance by vehicle and by foot. GPS readings were taken of significant sites and

Findings

tradition to recent Venda habitation. Nine (9) sites with significant archaeological remains were located as described in the report. The cultural sequences range from approximately the 11th century Eiland

Conclusion and recommendations

given of each individual site in the report. value of the cultural sequence represented there. A brief description and assessment was range from low to medium and high, based on the condition of the site and the historical It was concluded that the assessment of the significance of the archaeological remains

reservoir at Tshikotoni plans are drawn up. It is recommended that the placing of each reservoir be mitigated on site before final site namely, (1) the pipeline between Gwakawani and Matatani, and (2) the Mitigation for Phase 2 excavations may be required in two

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October 1997