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PREPARED FOR:
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AFRICA FOR DOUGLAS COLLIERY IN THE MPUMALANGA PROVINCE OF SOUTH A HERITAGE IMPACT ASSESSMENT (HIA) STUDY FOR THE EMP AMENDMENT

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## **EXECUTIVE SUMMARY**

Mpumalanga Province of South Africa Resources Act (Act 25 of 1999) was done for the EMP amendment for Douglas Colliery in the A Heritage Impact Assessment (HIA) study as required in terms of the National Heritage

the Douglas Colliery Mining Area: a Historical House (HH01); six Informal Graveyard (GY01 to remains dating from the Relatively Recent Past have been determined using various criteria been tabulated (Tables coordinates of the graveyards and the remains dating from the Relatively Recent Past have a number of closed mine shafts. These resources have been mapped (Figure 1) while the GY06), remains (sites) dating from the Relatively Recent Past (Site RRP01 to Site RRP09) and (Table 2) The HIA study revealed the presence of the following types and ranges of heritage resources winy Qο 2 The levels of significance of the Historical House <u>හ</u> ට -

regulations and administrative procedures regulate this activity. necessary permits for the exhumation and relocation of the graveyards. Various laws, provincial affected by future mining activities must be relocated to accommodate expanding mining The graveyards can be considered to be of outstanding significance. Graveyards that will be This (Phase II) work must be done by forensic archaeologists who will acquire all the

However, stored in SAHRA's databank (register) for future use in research projects investigation's aim will be to document the house prior to its destruction. This information will be investigation as required by the National Heritage Resources Act (Act No 25 on the Eastern Highveld. It is recommended that this structure be subjected to Outstanding examples of similar (colonial) sandstone farm homesteads exist near Middelburg The Historical House (HH01) can be considered significant with regard to various criteria this structure is dilapidated and can not be restored to its former of 1999). a Phase grandeur

their destruction is required The remains (sites) dating from the Relatively Recent Past (Site RRP01 to Site RRP09) can not to be of outstanding significance and can be demolished. However, a permit for

the Mineral Petroleum Resources Development Act [Act No 28 of 2002]). as laid down by mine legislation (e.g. the Mine Health and Safety Act [Act No 29 of 1996] and venture can only be undertaken taking into consideration regulations such as health and safety museum to which other displays of abandoned equipment, etc. can be added. However, such a are used to main coal. The coal mine can over time be developed into an open-air mine decades) appear to be 'ancient' when compared with current opencast drag line operations that mining technology make some of these shafts (which only date from the last two/three mining history which is only equalled by coal mines in Kwa Zulu/Natal. A rapid changing coal consider preserving one of the impressive mine shafts in order to reflect its remarkable coal mining more than a century ago. It is the oldest colliery on the Eastern Highveld and may The closed mine shafts qualify as part of the national estate. Douglas Colliery started with coal

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### 1 INTRODUCTION

Wolvekrans 17IS, Kleinkopje 15IS, Steenkoolspruit 18IS and Van Dyksdrift 19IS in the Eastern Highveld in the Mpumalanga Province of South Africa. This document contains the report on the results of a Heritage Impact Assessment study done for the amendment for Douglas Colliery on the farms

(outlined in the National Heritage Resources Act) occur in this region (see Box 1). ranges of heritage resources that qualify as part of South Africa's 'national estate' record of the heritage of most groups living in South Africa today. Various types and remains dating from the pre-historical and from the historical (or colonial) periods of South Africa. Eastern Highveld as a whole has a Pre-historical and historical remains in the Eastern Highveld present a rich archaeological heritage comprised of

#### NATIONAL HERITAGE RESOURCES ACT (ACT NO 25 OF 1999) 1: TYPES AND RANGES OF HERITAGE RESOURCES D. OUTLINED Z II.

heritage resources that qualify as part of the national estate, namely: The National Heritage Resources Act (Act No 25 of 1999, Sec 3) outlines the following types and ranges of

- (a) places, buildings structures and equipment of cultural significance
- 99999 places to which oral traditions are attached or which are associated with living heritage
  - historical settlements and townscapes;
  - landscapes and natural features of cultural significance;
  - geological sites of scientific or cultural importance;
  - archaeological and paleontological sites
- graves and burial grounds including-
- ancestral graves;
- (ii) royal graves and graves of traditional leaders
- (iii) graves of victims of conflict
- (iv) graves of individuals designated by the Minister by notice in the Gazette
- (v) historical graves and cemeteries; and
- (vi) other human remains which are not covered by in terms of the Human Tissue Act, 1983 (Act No 65 of 1983)
- sites of significance relating to the history of slavery in South Africa;
- $\equiv$ moveable objects, including -
- objects and material, meteorites and rare geological specimens; (i) objects recovered from the soil or waters of South Africa, including archaeological and paleontological
- (ii) objects to which oral traditions are attached or which are associated with living heritage
- (iii) ethnographic art and objects;
- (v) objects of decorative or fine art,
- (vi) objects of scientific or technological interest; and
- sound recordings, excluding those that are public records as defined in section 1(xiv) of the National (vii) books, records, documents, photographs, positives and negatives, graphic, film or video material or Archives of South Africa Act, 1996 (Act No 43 of 1996).

objects to qualify as 'part of the national estate if they have cultural significance or other special value ...'. These criteria are the following: The National Heritage Resources Act (Act No 25 of 1999, Sec 3) also distinguishes nine criteria for places and

- its importance in the community, or pattern of South Africa's history;
- (C) (D) (a) its possession of uncommon, rare or endangered aspects of South Africa's natural or cultural heritage;
- its potential to yield information that will contribute to an understanding of South Africa's natural or cultural
- 0 cultural places or objects; its importance in demonstrating the principal characteristics of a particular class of South Africa's natural or
- (P) its importance in exhibiting particular aesthetic characteristics valued by a community or cultural group;
- ( its importance in demonstrating a high degree of creative or technical achievement at a particular period,
- <u>(9)</u> its strong or special association with a particular community or cultural group for social, cultural or spiritual
- (1) history of South Africa its strong or special association with the life or work of a person, group or organisation of importance in the
- sites of significance relating to the history of slavery in South Africa

## 2 AIMS WITH THIS REPORT

aims of the HIA study were: Heritage Impact Assessment (HIA) study of the Douglas Colliery Mining Area. The and Pulles, Howard and De Lange therefore commissioned the author to undertake a may be affected, damaged or destroyed by the new mining activities. Douglas Colliery Area in order to Consequently, Douglas Colliery requires knowledge of the presence, relevance and the mining activities the mine's EMP has in the Mpumalanga Province of South Africa. As Douglas Colliery intends to expand its Douglas Kleinkopje 15IS, Steenkoolspruit 18IS and Van Dyksdrift 19IS to the south of Witbank Colliery's Colliery Miming of any heritage resources that may occur in the take pro-active measures with regard to any heritage resources that Area activities may <u>a</u> be ð confined to be amended. Heritage resources in the endangered <u></u> by new farms Wolvekrans Douglas mining activities. Colliery Mining

- ð remains Area and if so, to determine the nature, the extent and the significance of these establish whether any heritage resources do occur in the Douglas Colliery Mining
- 0 ð determine whether such remains will be affected by mining activities; and
- development activities on such remains evaluate What appropriate actions could be taken to reduce the impact of the

### 3 METHODOLOGY

data bases spokespersons, Z study was a survey of literature and the consulting of archaeological (heritage) conducted Ś means of fieldwork, information derived from

#### 3.1 Fieldwork

selected areas were subjected to a survey on foot Douglas Colliery Mining Area was subjected to a survey with a vehicle while

graveyards in the Douglas Colliery Mining Area provided important information which helped with the identification of the majority of **Employees from Douglas** Colliery and a spokesperson living on Kleinkopje 15IS

of experience gained from earlier fieldwork in the broader area Bibliography'). The possible presence as well as the types and ranges of heritage surroundings of the study area and is therefore not totally unacquainted with the resources in the study area are therefore to a certain extent predictable on the basis broader author of this area in which the development is report has also done ယ few HIA studies planned (see Part 8, E TO immediate

using various criteria (Figure 1; Tables 1 & 2). 를 하 GPS instrument. These features were also mapped and their significance determined coordinates for the various types and ranges of heritage were determined with a

## 3.2 Databases and literature survey

South African Heritage Resources Agency (SAHRA) and the National Cultural History Information derived from databases kept and maintained at institutions such as the

been identified in the broader study area Museum in Pretoria was consulted to determine whether any heritage resources have

Mining Area (see Parts 4 & 8) A survey of literature relating to the cultural and historical context of the resources SPA and sensitive remains that may occur in or near the Douglas also undertaken in order to contextualise any possible heritage Douglas Colliery

## 3.3 Assumptions and limitations

earth and may only be exposed once development (such as mining) commences missed during surveys (observations), others may occur below the surface of the unexpected places. It must also be kept in mind that surveys may not detect all heritage resources in any given study area. While certain remains may simply be It must be made aware that heritage resources at times appear in the most

## 3.4 Some remarks on terminology

survey of heritage resources as outlined in the National Heritage Resources Act (Act I RO No 25 of 1999) (See Box 1). Heritage Impact Assessment (HIA) referred to in the title of this report includes a

outstanding contribution to the cultures, traditions and lifestyles of the people or groups industrial features may also be part of heritage resources, as places that have made an intangible products that are the result of the human mind. Natural, technological or of people of South Africa resources (cultural resources) include all human-made phenomena 

or any written language developed in a particular area or region of the world. The The term 'pre-historical' refers to the time before any historical documents were written

appearance or use of 'modern' Western writing brought to Witbank by the first Colonists who settled in this area after c. 1840 Reference number: DMI-ENV-REP-20040510-000564-Rev00 Storica period and remains refer, for Ħ Witbank area, ð the first

age and may, in the near future, qualify as heritage resources not necessarily older than sixty years and therefore may not qualify as archaeological or historical remains. term 'relatively recent past' refers to the 20th century. Remains from this period Some of these remains, however, may be close to sixty years of

square floors may occur together on the same site square floor plans (a historical feature) may serve as a guideline. However, circular and distinction possible, these criteria are not always present, or, when they are present, they are remains from the relatively recent past. Although certain criteria may help to make this Ω, not always possible, not always clear enough to interpret with great accuracy. Criteria such remains pur based on observations alone, to distinguish clearly between historical remains, 0 between historical remains

graveyards are exhumed and relocated regard to their ancestors. These values have to be recognised and honoured whenever be important as different cultural groups may uphold different traditions and values with graveyards that were used by colonists and by indigenous people. date from the recent past and do not have head stones that are older than sixty years other sacred places. Graves in particular are not necessarily heritage resources if they as well as ideologically significant features such as holy mountains, initiation sites or The distinction between 'formal' and 'informal' graves in most instances also refers to The term 'sensitive remains' is sometimes used to distinguish graves and cemeteries This distinction may

years ago) Age (150 000 years to 40 000 years ago) and the Late Stone Age (40 000 years to 200 Earlier Stone term 3 South Africa Stone Age Age refers T well into the historical period. million years to the prehistoric past, although Late Stone Age peoples to 150 000 thousand years The Stone ago) the Middle }ge <u>₩</u> divided Stone

century and can therefore include the historical period term 'Late Iron Age' refers to the period between the 17th century and the 19th

surface, which may date from the pre-historical, historical or the relatively recent past. Mining heritage sites refer to old, abandoned mining activities, underground or on the

where Douglas Colliery wants to focus its development activities (refer to plan) The term 'study area', 'project area' or 'Douglas Colliery Mining Area' refers to the area

presence of all possible types of heritage resources in any given area. Phase I studies refer to surveys using various sources of data in order to establish the

the input of specialists and requires the co-operation and approval of SAHRA exhumation of bodies and the relocation of graveyards, etc. Phase II work may require archaeological sites or shipwrecks; extended excavations of archaeological sites; the documenting of rock art, engraving or historical sites and dwellings; the sampling of mapping, excavating and sometimes laboratory work. Phase II work may include the Phase II studies include in-depth cultural heritage studies such as archaeological

## 4 THE STUDY AREA

#### A. Tocation

Dyksdrift [1:50 000]; 2628 East Rand [1: 250 000]) (Figure 1). Municipality in the East Vaal District of Mpumalanga. Douglas Colliery is located to the west of Road Steenkoolspruit 18IS and Van Dyksdrift 19IS to the south of Witbank in the Emalahleni Douglas River Colliery runs along the western perimeter of Douglas 544 running from Witbank in the north to Kinross in the south. Ø situated on the farms Wolvekraal 17IS, Colliery (2629AB Kleinkopje 70

these With some Te agricultural fields and opencast mining activities. Few trees occur in the study study area is spread out over an undulating piece of land that is largely covered trees were planted by the first colonists who settled in the area the majority of which are blue gum trees and wattles. instances be associated with old farm homesteads (and graveyards) as some of Blue gum trees may in

## 4.2 Contextual background

possible that the following types of heritage resources may exist in the Douglas Colliery Mining Area, namely Resources Act (see Box 1) together with previous research and literature reviews it is Considering the types and ranges of heritage resources listed in the National Heritage

- . Stone tools that date from any of the Stone Age periods
- Tistorical remains (colonists) in the area associated with the establishment of the earliest farmers
- . Mining remains that can be associated with the earliest coal mining activities in the area

single graves or with cemeteries Remains farmers and their co-workers. These residential remains may be associated with dating from the more recent past such as homesteads occupied by

Mining Area The following brief historical overview will help to contextualise the Douglas Colliery

### 4.2.1 Stone Age sites

Stone and therefore under different climatic conditions in South Africa chronologically or which may have existed roughly simultaneous in different regions ago and the Late Middle Stone Age refers to the time period from 250 000 years ago to 22 000 years the surface or as part of deposits in caves and rock shelters. The Stone Age is divided Stone Age covers the period from 2.5 million years ago to 250 000 years Age sites are usually associated with stone artefacts usually found scattered on Early Stone Age, the Middle Stone 'ages' Stone Age is the period 22 000 years ago to 2 000 years ago. Each 9 divided into different 'cultural' Age and the Late Stone periods, which may Age. 궁 The

crop up even where the presence of humans in the past was not remotely expected Stone Age sites can partly be attributed to a lack of archaeological surveys done in this any of the different periods identified for the Stone Age. This little information about focussed has not revealed the presence of significant numbers of Stone Age sites from Heritage surveys done in the wider study area where Douglas Colliery's activities are Q, South Africa. Stone Age sites are numerous all over South Africa and tend to

## 4.2.2 Late Iron Age remains

last quarter of the 18th century and the first three decades of the 19th century. These Numerous pre-difagane and difagane wars took place in the Bankeveld during the

Wars Witbank, although the locations of these settlements have not yet been pointed out by research Mzilikazi Bankeveld may have had settlements in the ð where several settlement complexes # Te displacement of large numbers Mzilikazi's Ndebele caused Eastern Bankeveld, between Pretoria and 3 ins. chaos region although it is of Tswana and havoc. clans in the T T possible Central

## 4.2.3 Tistorical remains

SEM outcrop of whitish established in 1903 on a farm known as Swartbos which belonged to Jacob Taljaard on the surface or in the beds of streams. A stage post for wagons close to a large Europeans who came to the area observed the abundance of coal, which is evident came into Modern towns closest to Douglas Colliery include Witbank and Middelburg. Witbank being as the railway line between Pretoria and Lourenzo Marques which 1894 passed close stones <u>a</u> Shifte on the to where ridge') gave Witbank is the town its name. located today. The Witbank

Middelburg's name is derived from the fact that the Transvaal Republic established the town midway between Pretoria and Lydenburg previous Transvaal. The town was established on the farms of Klipfontein and Keerom Middelburg is one of the oldest towns that were established by the Voortrekkers in the Ħ Danks 9 the Klein Olifants River in 1859. S generally accepted

was moved to the farm Sterkfontein. Here, a town was established and named Nasaret The Republic after the siege of Pretoria during the Second Anglo Boer War (Nazareth). STOICE MOICE However, the name did not appeal to the local community and its original reinstated. Middelburg temporary for Middelburg's location was not well accepted by the inhabitants and served as the seat of Ħ Fansvaal

transported to Richards Bay from where it is exported all over the world. The 20th Today Middelburg and Witbank are important centres where coal S and

coal mining, light and heavy industries as well as steel and vanadium operations century also saw the introduction of large-scale irrigation and dry land farming on the Eastern Highweld. Today the economic activities of the area include diamond and

## 4.2.4 A coal mining heritage

stone and bone) to smelt iron and copper in clay furnaces 1880AD) when metal workers used charcoal, iron and copper ores and fluxes (quartzite earliest use <u>್</u>ಗ coal (charcoal) in South Africa was during the Iron Age (300-

interior of South Africa was in the mid-1830 when coal was mined in Kwa Zulu/Natal. Stellenbosch in the Cape Province in 1699. 916 Said ರ have discovered 8<u>a</u> The first reported discovery of coal in the \$ Trench 工。與

diamonds in 1867 and gold on the Witwatersrand in 1886, coal mining only satisfied a opened in Molteno. The explorer, Thomas Baines mentioned that farmers worked coal the coal trade started in Dundee when a certain Pieter Smith charged ten shillings very small domestic demand deposits load of coal dug by the buyer from a coal outcrop in a stream. In 1864 a coal mine was The first exploitation for coal was probably in Kwa Zulu/Natal as documentary evidence to a wagon load of coal brought to Pietermaritzburg to be sold in the neighbourhood of Bethal (Transvaal) in 1868. Until the discovery of in 1842. In 1860

this time coal mining also has started in Vereeniging. The Natal Collieries importance operating in the Middelburg-Witbank district, also supplying the gold mining industry. At coal fields, which is now largely worked out. By 1899, at least four colliers were mining industry around Johannesburg came the exploitation of the Boksburg-Spring the Natal Government Railways With the discovery of gold in the Southern Transvaal and the development of the by the need to an alternative for imported Welsh anthracite used

to be 121 billion tonnes. The largest consumers of coal are Sasol, Iscor and Eskom. Witbank-Springs, Natal and Vereeniging. The total in situ reserves today are calculated 9,5million tonnes. By 1920 the output of all operating colliers in South Africa attained an annual figure of Total in-situ reserves were estimated to be 23 billion tonnes in

during this year. shareholders in 1903. Douglas Colliery was launched in 1973 when Witbank Colliery Investment Company (Rand Mines). The export of Low Ash Coal also commenced (also known as the No. 2 Seam) two years later. The first dividends were paid to Transvaal Republic in 1896. Coal mining operations began in the Witbank Main Seam Douglas Colliery emerged from the Witbank Colliery which was founded in the former OUT. Ħ former Douglas Colliery from the Transvaal pue Delagoa

Historical House, remains dating from the Relatively Recent Past and closed mine discovered in the Douglas Colliery Mining Area include Informal Graveyards, a Mpumalanga Province of South Africa. The most important heritage 15<u>1</u>5, Figure 1. The Douglas Colliery Mining Area on the farms Wolvekrans 17IS, Kleinkopje Steenkoolspruit 18IS and Van Dyksdrift 19IS in the Eastern Highveld in the resources

## Ø١ THE HERITAGE IMPACT ASSESSMENT STUDY (HIA)

1999). These resources are now listed and discussed heritage resources as outlined in the National Heritage Resources Act (Act No 25 of The survey of the Douglas Colliery Mining Area revealed several types and ranges of

# Types and ranges of heritage resources discovered

include Area on the farms Kleinkopje 15IS, Steenkoolspruit 18IS and Van Dyksdrift 19IS The types and ranges of heritage resources discovered in the Douglas Colliery Mining

- One historical house (farm homesteads) with an outbuilding
- older than sixty years Six Informal Graveyard which may be historical as some of the graves may be
- Remains dating from the relatively recent past
- Closed mine shafts.

30 also mapped (refer to Figure 1). Relatively Recent Past have been determined with a GPS instrument. These sites were coordinates of the Informal Graves, Historical House and the remains from the

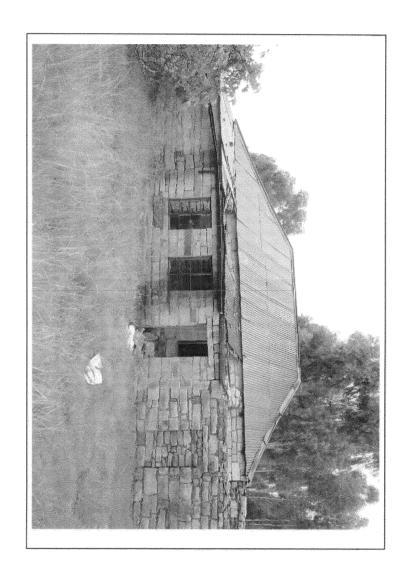
D descriptions of these resources The heritage resources have been designated a code and number to simplify the broad description of these resources illustrated with photographs is now provided

## 5.1.1 Historical houses and outbuildings

Kleinkopje 15IS. This homestead and outbuilding date from the turn of the 19th century A historical house (farm homesteads) with an outbuilding was discovered on the farm

recently discovered on the eastern fringes of the coal fields near Middelburg on the Eastern Highveld by the first colonists. Several of these farm homesteads were and represent one of a number of pioneers (Colonial) dwellings that were established

structures that were inferior in quality as the majority have disintegrated during the last of the Olifants River. These farm homesteads were covered with pitch corrugated zink sandstone was probably quarried from sandstone outcrops that occur near the banks Sometimes These pioneer dwellings were square structures that were built with sandstone blocks (Figure 2). Outbuildings mainly consisted of a shed and other secondary ferricrete blocks S O O O used in conjunction sandstone.



resembled the structure above before it fell into ruins when they arrived in the Eastern Bankeveld during the second half of the 20th near Middelburg. These dwellings were the first to be established by Colonists Ņ The remains of the Historical House (HH01) on Kleinkopje probably Þ historical house (farm homestead) OUTSIDE the Douglas Colliery

Historical House 01 (HH01)

the northern bank of the Olifants River in a clump of blue gum trees. residents of the house looked down on the southern meandering course of the river. area on the farm Kleinkopje 15IS. This historical house and an outbuilding is situated in the northern part of the mining The house and outbuilding is located on a slope on From here the

Kleinkopje (Figure 4). outbuilding such as a rondavel. Only the foundations of both structures are visible from sandstone farm homestead was build with sandstone blocks and is associated with a circular 3). The sandstone that was used as building material was probably quarried dykes such as the one near the banks of the Olifants River on

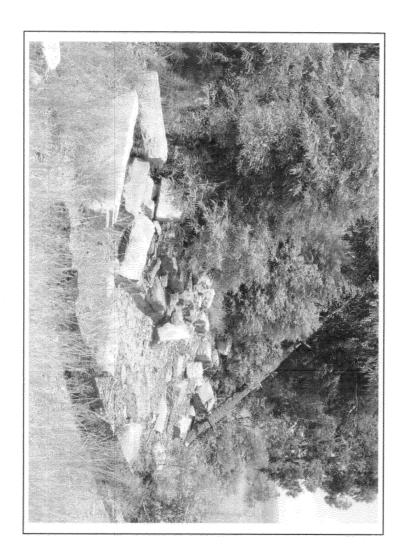


Figure 15IS. The house is in ruins and only the foundation has remained intact. sandstone blocks near the banks of the Olifants River on the farm Kleinkopje دې The remains of the historical farm homestead that was builds with

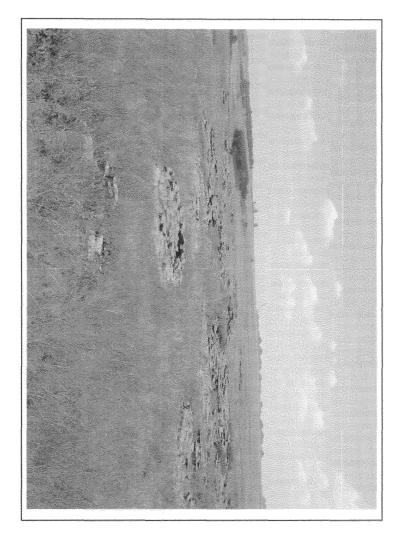


Figure River. sandstone outcrop occurs on Kleinkopje 15IS, close to the banks of the Olifants building material for early pioneer dwellings in the 4- Sandstone outcrops from where sandstone could have been mined for Hastern Bankeveld.

#### 5.1.2 Graveyards

to this farm's border with Steenkoolspruit 18IS (GY02) (Figure 1). remaining five graveyards are located on Kleinkopje 15IS, one of which is located close currently located in the midst of mining activities (GY01, on Steenkoolspruit 18IS). The Six informal graveyards were found in the Douglas Mining Area. Only one graveyard is

graveyards that were identified (Figure 1; Table 1). graves, especially those in GY01 which contains the majority of graves in the Douglas graves were not counted as a tall grass cover prevented identifying all possible It is estimated that more than 100 individuals were buried in the

Graveyard 01 (GY01)

surfaces in the graveyard (Figures 5 & 6). deceased and the time of their burials. A large number of graves have no headstones graves. Most of the graves are covered with stones but only a few have headstones. or any other markings of any kind and their presence can only be assumed by uneven Some of these headstones may have inscriptions of some kind identifying the Steenkoolspruit 15IS. It is fenced in and may contain as many as eighty to one hundred Graveyard 2 (GY01) ζō. located 3 the midst 으 activities 9

graveyard would qualify as a historical cemetery (Figures 5 & 6). the graves wider area were buried from a certain time in the past. There is little doubt that some of Graveyard 01 must have served as a central cemetery where people who lived in in this cemetery are older than sixty years which would mean that this

initially by farmers, and later by various coal mines that arose in the area graveyard was used by black families who lived in the area and who were employed the relatively recent past in the Douglas Mining Area it must be assumed that the families were buried in the graveyard. Graveyard 01 is still being visited by relatives of the deceased. It is clear that various Considering the numbers of sites that date from

Inscriptions on a few of the head stones of the graves read as follow

'Jesaya Ngwenya Uskone Mhlaka

'Johnson Skante Geb 1914 Oorl 1995-2-23

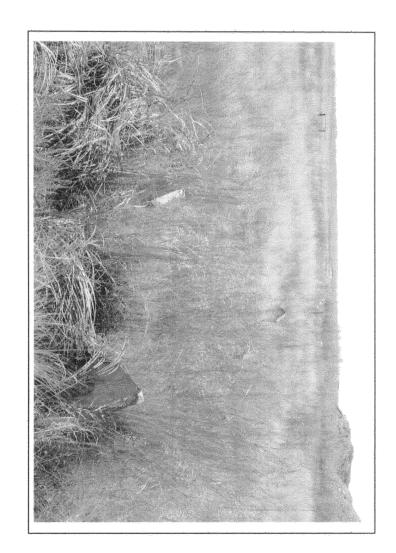
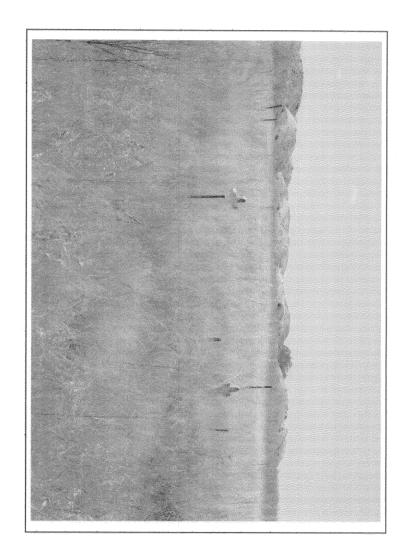


Figure prevented establishing the number of graves in the cemetery. Douglas Mining Area (above). This graveyard is fenced-in. A thick grass cover 5- Informal Graveyard 01 (GY01) in the midst of mining activities in the



the encroaching mining activities in the background (above). majority are covered with stones while an unknown number are unmarked. Note Figure 6-Only a limited number Ō, graves in GY01 have head stones. The

'Themba Amos Ngwenya Uhambe Hlaka'

'In memory of Emily Died 31st May 1973 R.I.P.

'Betty Simelane Born 1909 Died 28-02-1964 Lala Ngokuthula'

### Graveyard 02 (GY02)

graveyard is primarily associated with the Mnguni family (clan) (Figure 7). manufactured from corrugated zink and one is fitted with a cement head stone. This and Steenkoolspruit 18IS. It is composed of seven graves located in two rows. Three of This informal graveyard is located near the Vlei Shaft at the end of a row of blue gum graves This graveyard is located near the border between the farms Kleinkopje 15IS have granite tomb stones, three are equipped with head stones



contains seven graves. Most of the deceased are members of the Mnguni family. 7- GY02 is located along the end of an avenue of Blue Gum trees.

Tomb stones with inscriptions in GY02 read as follow:

Spokomani Moses Mnguni Died 24 Nov 1982 Rest in peace

Sali Mnguni Died 04-08-1950

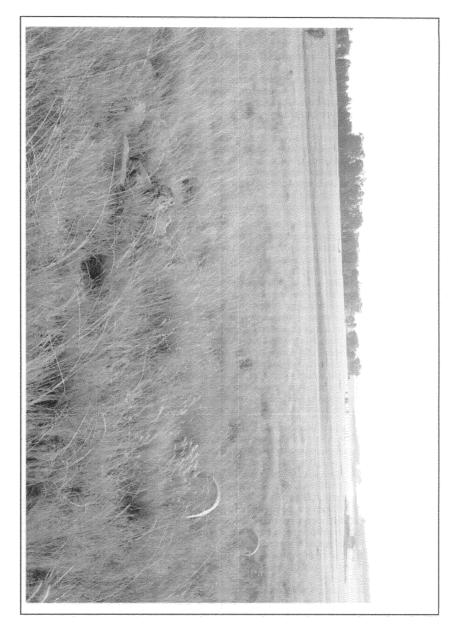
Mnguni Masana

'Kalkoen Mnguni Died 1963'

Graveyard 03 (GY03)

covered with stones (Figure 8). RRP01 on Kleinkopje 15IS and is probably associated with this village. It is composed This informal graveyard is graves, two with cement heads stones with no inscriptions while the third is located approximately hundred and fifty meters from Site

removed out of the cemetery. stones are the edgings of one of the graves that was upgraded but which was never completed. A pile of bricks and cement between the two graves with cement head were merely A fourth heap of stones may be a (fourth) grave although it seems as if these stones collected to be placed on the third grave, a task which was never



three graves, two with head stones with no inscriptions. Figure 8- GY03 is situated near Site RRP01 (above). This informal graveyard has

#### Graveyard 04

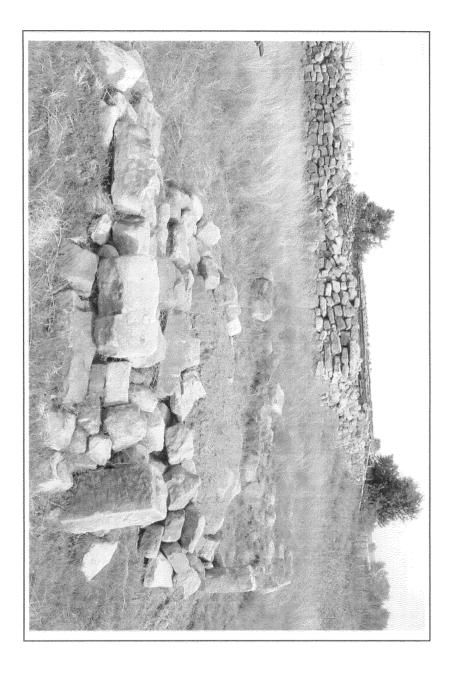
more graves may exist in this bush. the Olifants River. GY04 has been invaded by the wattle bush and it is possible that This graveyard is located on Kleinkopje 15IS in a wattle bush on the northern banks of

At least eight heaps of stones (graves) were counted in the wattle bush.

Graveyard 05

occupied by the Mokwena family on Kleinkopje 15IS. Graveyard 05 is situated next to the wall of a cattle kraal that is part of a village that is

the Wokwena family. homestead on Kleinkopje 15IS. The deceased in the three new graves are known to graves are old and were found by the Mokwena people when they established their Graveyard 05 contains five graves, three of which are new (Figure 9). 7 80



are new. Mokwena family on Kleinkopje 15IS. Three of the five graves in this graveyard Figure 9- Graveyard 05 is located next to the village that is occupied by the

#### Graveyard 06

the Olifants River (Figure 10). Douglas Mining Area on the farm Kleinkopje 15IS. It is situated within the flood line of Graveyard 06 is located near Eskom's power lines in the north-western border of the

stone indicates the position of a fourth Shabangu juvenile that is buried next to the three Shabagu children were buried here next to each other. A small cement head other three This grave site is marked by a large cement headstone with inscriptions indicating that



Figure contain the graves of four children of the Shabangu family. þ GY06 is located near the northern banks of the Olifants River and

children's grave read as follow inscriptions on the single large cement tomb stone that covers TO O Shanbagu

'Elina Shabangu Wavela 10-01-1945 12-12-1947'

'Semson Shabangu Wavela 7-10-1943 12-12-1947'

'Miliyan Shabangu Wavela 22-11-1941'

(This child probably died together with Elma and Semson in a accident on 12-12-

The single small cement headstone bears the following inscription:

'Jheri Shabangu Wabhubha 01-12-1961 (died)'

# 5.1.3 Remains from the Relatively Recent Past

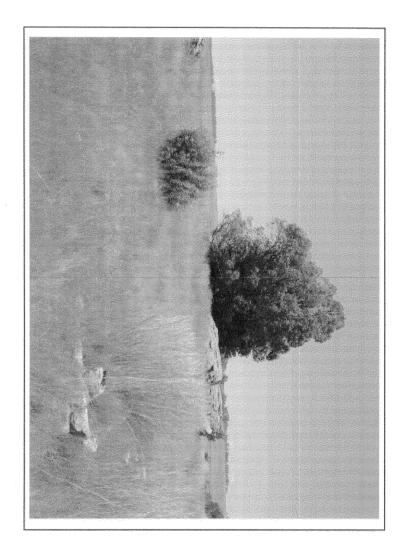
or graveyards may sometimes be associated with these remains remains date from the recent past and have no historical significance. Informal graves presence of invader plants and grasses and mostly from aloes and sisal bush. dwellings (mostly) occupied by families consist of heaps of soil, upright foundation stones, long lines of stones and ruins of perimeters of the Douglas Mining Area (Figure 1; Table 2). These remains mainly Remains from the relatively recent past were observed at various localities within the can sometimes also be established from ecological indicators or mine workers. The presence Such 9 These these

(Figure 1; Table 2): following sites dating from the relatively recent past were observed in the study possible that not all the sites dating from the recent past have been recorded. remains that were observed are listed below and are illustrated with photographs.

#### Site RRP01

12). majority of the structures in this village had square ground plan forms (Figures 11 & which at least one has a square foundation that was build with stone. It seems as if the sandstone. It is associated with GY03. The site comprises of a number of structures of This site is located on Kleinkopje 15IS, close to massive rocks and outcrops of

a small village with a number of houses that date from the recent past other refuse are associated with these remains. It seems as if site RRP01 consisted of No archaeological material such as pottery, ceramics, middens, corrugated zink or



tributary of the Olifants River. Figure 11- Site RRP01 is located near a number of large sandstone rocks near a

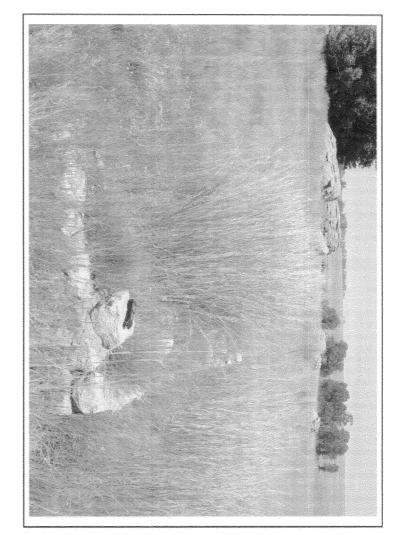
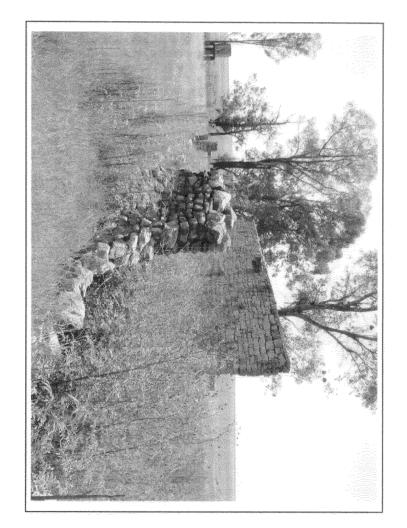


Figure structure with a square foundation (above). Ņ The remains of dwellings 3 S RRP01 consist of at least one

#### Site RRP02

13). complex is located on Kleinkopje 15IS, next to a tributary of the Olifants River (Figure were build with clay bricks, stones and cement and are relatively modern. This village kraal, a soil dam and a stand for a water tank. This site consists of a number of ruins which include at least two residences, a cattle The structures in this village complex

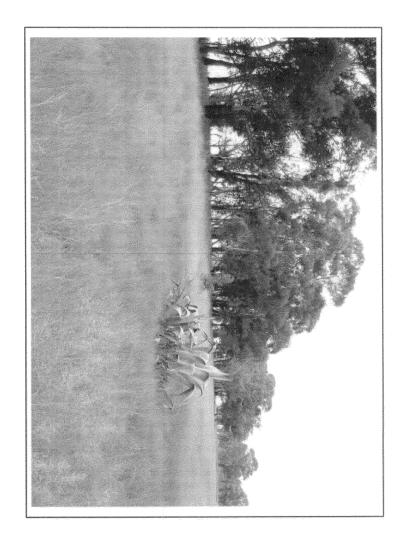


kraal is part of Site RRP02 (above). Figure 13- Ruins of a village complex which include two residences and a cattle

#### Site RRP03

square foundation (Figure 14). area is deforested. The site is also marked by a single sisal plant standing close to the merely consists of a square mud foundation of a single structure while the surrounding This site is located on Kleinkopje 15IS close to an avenue with blue gum trees. The site

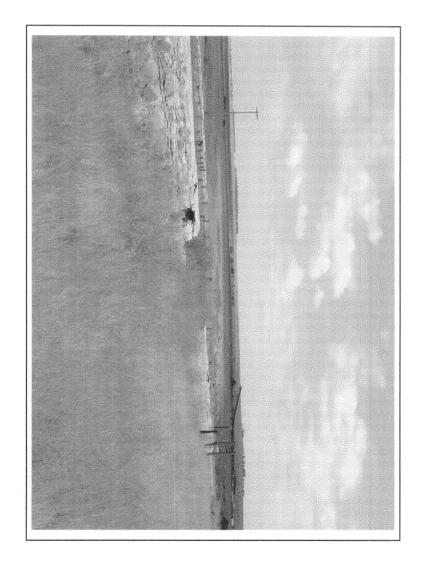
with blue gum trees structures. It is associated with Graveyard 03 that is located near the end of the avenue RRP03 was probably comprised of ω small hamlet with a limited number of



more recent past. sisal plant (above). A small family group may have lived on this spot during the Figure 14- Site RRP01 consists of a single square raised mud foundation and a

### Site RRP04

Figure 15). large cattle kraal that was built with stone and cement and a square dwelling build with Site RRP04 is located on Steenkoolspruit and consists of two structures, namely a These structures are still intact and were abandoned in the more recent past



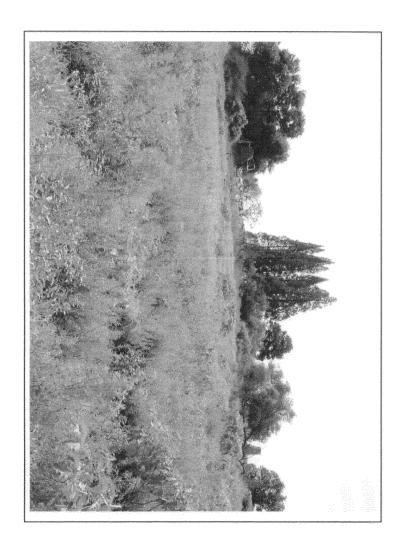
dwelling. cement (above). The second structure in this site consists of a square mud Figure 15- Site RRP04 includes a large cattle kraal that was built with stone and

### Site RRP05

visible near this site any longer. haul road running into the open cast mining area. No remains of any dwellings are RRP05 is only marked by sisal bushes in an avenue with blue gum trees next to a

#### Site RRP06

have been demolished. It seems as if the two houses date from the recent past (Figure Site RRP06 consists of the ruins of at least two dwellings on Steenkoolspruit 18IS that



pine and other exotic trees are still marking this site (above). bulk of Site RRP05 (above). This former farm homestead is now in ruins. A few Figure 16- The ruins of two houses that date from the recent past comprise the

### Site RRP07

**で** dwellings as they were building with red clay bricks and cement. These structures are sisal bushes located along an avenue with blue gum trees. The site is also covered with several consists RRP07 is located next to a haul road on Steenkoolspruit 18IS (Figure 17). It of the ruins of two or more structures. These structures were probably



dense cover of vegetation hides these remains (above). RRP07). These dwellings are located along an avenue with blue gum trees. A Figure 17- Remains Q, possible dwellings that date from the recent past (Site

### Site RRP08

soil. This site is probably part of several homesteads that used to exist on Kleinkopje 15IS, close to the northern bank of the Olifants River (Figure 18). site consists of the remains of stone walls and stone heaps as well as heaps of



Figure significance. Olifants <u>ထု</u> River One 9 of several ruins Kleinkopje 15/5 of dwellings along the northern bank of the These remains 0 6 Tistorica

### Site RRP09

heaps as well as heaps of soil. This site may be one of several homesteads or small This site is similar to Site RRP08 and consists of the remains of stone walls and stone

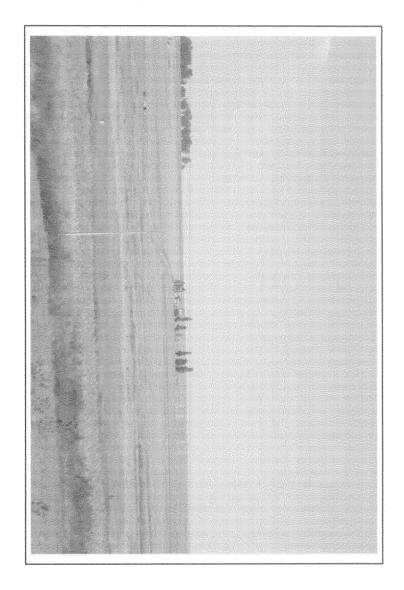
villages that used to exist close to the northern bank of the Olifants River on Kleinkopje (See Figure 18, above).

### 5.1.4 Closed mine shafts

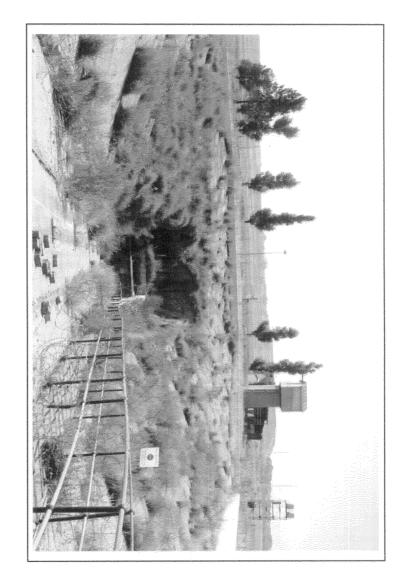
twenty to thirty years. Shaft No 1 dates from the last fifty five years with underground workings intact, were operational at different time periods during Douglas Colliers' existence. Several shafts that are closed occur in the Douglas Mining Area. The construction dates for all these shafts cover the last These shafts, most

of coal mining (1980's) on the Eastern Highveld (Figure 19). Shaft No 12 is an excellent example of a particular coal mine during a particular period (square) borders of the mine, used to be prominent features on the Eastern Highveld mines, some of which were clearly delineated with pine trees planted along the four other buildings were part of the surface infrastructure. production equipment and machines were used to mine the coal seams consist of equipment and features represent a coal mine. A 'traditional' (old) coal mine used to A shaft and its a decline and a vertical shaft running into underground workings where such as associated underground and aboveground infrastructures, buildings plants where 50 coal were processed and stock. The head gear of 'traditional' and surface

pristine condition is still operational and will only be closed in 2006 Shafts with few surface infrastructure mainly consisting of a shaft structure also occur shafts are still in relative good conditions (Shaft No 6, Shaft No 12 and Shaft No 15). Shafts No 8 & 9, 'the Picnic Shaft', Shaft 12, Shaft 15 and the Vlei Shaft. Some of these (Shaft No 1 and Shaft No 6). These shafts have visually little to offer although they may Closed impressive shafts in the Douglas Colliery Mining Area include therefore historically more and elaborate surface infrastructure. significant than the more recent shafts T<sub>e</sub> Shaft No 1, Viei Shaft which Shaft No 6 ζō' 三 3



demarcate the mine's boundaries. The surface infrastructure of this mine has Figure 19- The Shaft No 12 complex seen from afar. Note the pine trees that focus area where coal mining is taking place. been vandalised. It is located near Douglas Colliery's perimeter, outside the main



back of the photographer. can be seen in the background. More elaborate infrastructure also occurs to the Figure 20- The decline shaft of Shaft No 12. Part of the infrastructure of this mine

# 5.2 Possible impact on the heritage resources

may be affected by existing and newly planned mining activities are the following: Heritage resources that were observed in the Douglas Colliery Mining Area which

### 5.2.1 Historical Houses

Historical House 01 (HH01)

### 5.2.2 Graveyards

Graveyards 01 to 06 (GY01 to GY06)

# 5.2.3 Remains from the relatively recent past

Site RRP01 to 09 (RRP01 to RRP09)

## 5.2.4 Closed mine shafts

Shafts No 8 & 9, 'the Picnic Shaft', Shaft 12 and Shaft 15. Closed mine shafts in the Douglas Colliery Mining Area include Shaft No 1, Shaft No 6,

#### (T) 措 MINING AREA SIGNIFICANCE 9 HERITAGE RESOURCES Z Ī DOUGLAS

tabulated (Tables 1 & 2). the remains from the Relatively Recent Past and the Historical House have been resources have been mapped (Figure 1). The coordinates of the Informal Graveyards, Relatively Recent Past (Site RRP01 to Site RRP09) and closed mine shafts. These House The heritage resources that occur in the Douglas Mining Area include a (HH01); Informal Graveyards (GY01 to GY06); remains dating from the Tistorical

# The Historical House and remains from the Relatively Recent Past

(medium significance) and 3 (high significance). as the following (Tables 1 & 2): Relatively Recent Past have been determined by means of various criteria (Table levels of significance of the Historical House and the remains dating accorded to each of these criteria varied This scheme considers criteria such between ٠.... (low significance), from the

Ideological (symbolic) significance

367) symbolic or ideological significance, e.g. cattle kraals that may have been used as significance burial grounds, or stone cairns in initiation schools that symbolise the regiments (of cemeteries category moulded and sites that are venerated would also score high on ideological 9 during significance refers these puberty ceremonies, to sites, structures or features that may have etc. Burial grounds, graves,

Aesthetic significance

aesthetic aspects include architectural style and building features such as stone walls regard, one thinks of the spatial composition and layout of settlements, the stone platforms, the shape and size of enclosures, etc location of settlements on majestic or impressive mountains evident in sites, category of significance structures or features refers ð of historical and pre-historical sites. the beauty, craftsmanship or or kopjes, etc. workmanship spatial n this

Unique (ness)

places structures or features may be scarce and may not be repeated in other sites or at other The uniqueness of sites, structures and features refers to the Tact that such sites,

Cultural historical significance

sites, the uniqueness of sites and the association of sites with peoples (as well as individuals) and with important events in the past affiliation of sites. However, these criteria may include the aesthetics or appearance of The cultural historical significance of sites refers primarily to the age and the cultural

State of preservation

damaged or may still be in a pristine condition. remains, which may of preservation of sites, 9 affected by development activities. structures and features refers to Sites may be the condition of Dady

8

### Research value

derived from these remains, through documentation, excavation or research of these The research value of sites, structures and features refers to the knowledge that can be

community remains. Research has little value if the results are not published to the benefit of the

# 6.2 The Informal Graveyards

be rated to any criteria as graves are protected by various laws. Informal Graveyards can be considered to be of high significance and need not to

### 6.3 Closed mine shafts

Heritage Resources Act (also see Box 1). These criteria are the following: outlined in Section 3(2)(a) and Section 3(3) (a), (b), (c) and (f) listed in the National closed coal mines qualify as part of the national estate when considering criteria

	3(3)(b)	3(3)(a)	3(2)(a)
Africa's natural or cultural heritage;	its possession of uncommon, rare or endangered aspects of South	its importance in the community, or pattern of South Africa's history;	places, buildings, structures and equipment of cultural significance

	3(3)(c)
South Africa's natural or cultural heritage;	its potential to yield information that will contribute to an understanding of
	~ *

	3(3)(f)
achievement at a particular period;	its importance in demonstrating a high degree of creative or technic
	creative o

mines and the condition of this infrastructure. When applying this criterion it is clear The level of significance of the closed coal mines were merely determined by means single criterion, namely visible surface infrastructure associated with these

shafts. development', heritage education, etc. (National Heritage Resources Act, Sec 5(7)). unequalled with regard to their physical appearance when compared to the other that Shaft No 6 and Shaft No 12 (as well as the operational Vlei Shaft) are These shafts have the potential to contribute to 'social and economic

Graveyard 06	Graveyard 05	Graveyard 04	Graveyard 03	Graveyard 02	Graveyard 01	GRAVEYARDS
26° 04' 59" S;	26° 02' 23" S	26° 02' 48" S	26° 00" 00" S	26º 03' 28" S	26° 01' 11" S	Longitude
29º 16' 34" E	29º 16' 05" E	29º 15' 58" E	29° 00' 00" E	29º 16' 57" E	29º 47' 57" E	Latitude

Table 1. Coordinates for the Graveyards in the Douglas Colliery Mining Area.

	* * * * * * * * * * * * * * * * * * * *		* ****		· ar a	
56° 01' 32" 5; 29° 15' 57" E				with the state of	ě	
Site RRP09	1	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>
Se₀ OS, O6 2: S6₀ 1€. 14 E			denococochiminate			
809RF etic		<u> </u>	<u> </u>	<u>Z</u>	ļ.	
26° 04' 23" S; 29° 17' 11" E	opiness		opin han o room		resistance de la constitución de	woody-relations
Site RRP07		L.	<u> </u>	ζ.	<u> </u>	<u> </u>
50° 04' 32" S; 29° 17' 04" E			veisse woodversta		Georgia de la companio della compani	Tourness of the Control of the Contr
SIR RRP06	<u> </u>	<u>.</u>	L	3	<u> </u>	L
39° 04' 45" S; 29° 16' 65" E	ndergroons and a second a second and a second a second and a second and a second and a second and a second a		ni retro de constituir de cons			98-ede-databases
Site RRP05	<u> </u>	L.	<u> </u>			L
50.04. 28 2: 58. 18. 34 E			namponiponi namponi na			And a
Site RRP04	Į.	4		5	Į.	au de la constante de la const
50° 03' 49" S; 29° 17' 13" E						
Site RRP03	Service Control of the Control of th			7		and the state of t
50° 03' 22" S; 29° 16' 18" E						
Site RRP02	- Application of the Control of the	-	***************************************	2		
Se₀ 03. 03., 8; S9∘ 16. 12., E						
Site RRP01	in the state of th			2	i i i i i i i i i i i i i i i i i i i	•
Se° O2' 13" S; 29° 16' 11" E						
Historical House (HH01)	3	and the state of t	5/3	3	and the state of t	3
RESOURCES		***************************************			:	
43VGIIV33G			elangua e e e e e e e e e e e e e e e e e e e		description of the state of the	10000-
	esignificance	significance	<b>VOORDINGEROOPPOOR</b>	significance	preservation	
<b>35ATIR3H</b>	Ideological/symbol	Aesthetic	SeneupinU	Cultural	to state	Research value
Keterence number: DMI-ENV-REP-20040510-000564-Rev00						

Table 2. Levels of significance of remains (sites) dating from the Relatively Recent Past and for the Historical House discovered in the

Douglas Colliery Mining Area.

Low significance (1);

Medium significance (2); High significance (3)

# 7 CONCLUSION AND RECOMMENDATIONS

Mining 붕 RRP01 to Site RRP09) and abandoned coal mines Graveyards (GY01 HIA study revealed the presence of heritage resources in the These ð neritage GY06), remains resources dating from include a Historical House (HH01); Informal the Relatively Recent Past (Site Douglas

exhumed and relocated. This work must be done by forensic archaeologists significance. These graveyards have to be relocated if expanding mining activities Informal Graveyards (GY01 to GY06) can be to impact on these graveyards. bunde. Ø. recommended that considered ð †he be of outstanding

and administrative procedures regulate this activity. the graves and the relocation of the graveyards. Various laws, provincial regulations The forensic archaeologists will acquire all the necessary permits for the exhumation of

and is required by the National Heritage Resources Act (Sec 38(3)(f)(g)). described in Phase II reports which are incorporated in SAHRA's data banks (registers) investigation before it is being demolished by mining activities. Mitigation measures Middelburg. examples of similar historical farm homesteads exist on the Eastern Highveld closer to Value to criteria The Historical House (HH01) can be considered to be of some significance with regard and uniqueness. However, this structure is severely dilapidated. such as -Ō recommended that this structure ideological/symbolic and cultural historical significance, 90 subjected to Ω research Excellent

not be considered to be of outstanding significance and can be demolished after the necessary permit has been acquired from SAHRA remains dating from the Relatively Recent Past (Site RRP01 to Site RRP09) can

oldest coal mine on the Eastern Highveld of South Africa. It is appropriate that the mine closed mine shafts qualify as part of the national estate. Douglas Colliery is Ħe

social obligations and Billiton's commitment (manifest) to the protection of heritage. the conservation and use of heritage resources for social and economic development, future generations Development Act [Act No 28 of 2002]). Health and regulations appropriate enjoyment, heritage education, etc.. An open-air coal mine museum could be of the closed mine shafts. workers who created this history. This can be achieved by considering preserving one tangible way, perhaps by preserving part of its remarkable heritage for present and promote its role as a global producer of coal and its South African coal mining roots in a such such as health and safety as laid down by mine legislation (e.g. Safety Act [Act No 29 of 1996] and the Mineral Petroleum Resources start for other heritage projects and will contribute to Douglas Colliers' ω and particularly as venture The National Heritage Resources Act (Sec 5(7)) encourages can only a token to the numerous unacknowledged 0 undertaken taking S S consideration 7 a D

heritage resources will occur in the Douglas Colliery Mining Area the Douglas Colliery Mining Area. It is highly unlikely that any other types and ranges of Impact Assessment (HIA) study. However, the same mitigation measures proposed Heritage resources (such Ó if they belong to the same types and ranges that have been discovered in # Te heritage as graves) may have resources that have been discovered been missed during **\\_** apply this S Ö Heritage

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