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THE MIDRAND HERITAGE PROJECT


THE BOULDERS SHOPPING CENTRE ARCHEOLOGY EXCAVATION 1997



PROFILE OF EXCAVATION


THE BOULDERS SHOPPING CENTRE
ExCAVATION

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$\qquad$ $>$

TO BOULDERS SHOPPING CENTRE
FIG 2



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archaeologists to improve upon the preliminary sketch I set out as follows: of the Midrand heritage from the past. The excavation results challenge future The Boulders Shopping Centre excavation therefore provides a preliminary outline Hartebeespoort Dam (fig 1). Wonderboompoort and Cave of Hearths, and an Iron Age site: Tafelkop south o Centre, together with less well dated data from two Stone Age sites: dated Stone Age sites mainly within a 100 km radius of the Boulders Shopping with well-dated data from no less than eighteen Iron Age and two carbon isotope I decided to make 'most probable identifications' of the data based on comparisons
 the purpose of the Boulders Shopping Centre excavation was to get data for public scientific data would not attempt to unravel such a mixture of materials. However occupation layers could not be identified. Normally, archaeologists in search of Succeeding occupants had disturbed traces of earlier occupation so that intact for washing, marking and analysis (fig 4). stone artifasts, potsherds, bones, glass, metal and teeth were placed in plastic bags took six days. All deposit was passed through a 4 mm mesh sieve. Hundreds of Excavation of the $6 \times 4$ meter trenches to bedrock at approximate depth of 1 meter

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 association. Director of the National Culture History Museum provided the necessary museum National Monuments Council granted a permit for the excavation, and Dr Udo Küsel, measuring a total of $6 \times 4$ meters on the north west side of the Tor (fig 2-4). The employed two assistants to work with me on the excavation of two trenches and generously offered to pay the costs. So in June 1997 the Midrand Council concealed among the boulders. The management asked me to investigate the site The shopping centre management felt that Midrand heritage data might be huge boulders known as a 'Tor' and enclosed in the Boulders Shopping Centre.A few kilometers east of Glenferness the granite formation is exposed in a pile of
then owned by the Hindmarch's but now the property of Midrand Council (fig. 1). hunters and Iron Age farmers in Glenferness Cave. The cave is on Wildrocke farm,
 among beautiful granite boulders on the Jukskei River known to pre-colonial Midrand environmental-cultural site known as Glenferness Cave. The cave is set Dirk Bouwer and Pierre Nel came to see me to talk about the preservation of a

## SUMMARY OF POSSIBLE BOULDERS HERITAGE SEQUENCE

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people lived at Boulders hundreds of years ago.
Pottery found at Boulders is similar to Tswana pottery, suggesting that Tswana Oakhurst.
Boulders stone tool collection receives the same name as the Garden Route cave human life dating between about 10000 and 5000 BP (before the present). The
 1938. This Garden Route cave gave its name to a particular kind of stone too excavated by John Goodwin in the Oakhurst Cave near George in the Cape in sites. For example, some of the Boulders stone tools resemble stone tools Archaeologists sometimes find similar stone tool collections at widely separated - eldoed e6y uol
If they suggest a farming economy supported by metal production, they represent taken to represent Stone Age people. a hunter gatherer way of life dated earlier than the production of metals, they are artifacts left at living places in similar environments. If the tools or artifacts suggest animals or plants, or with tools described in historical records, or with similar tools or Archaeologists find the remains and identify them by comparing them with living left remains of all three things at their living places, such as the Boulders. tools or artifacts. They used these to secure or process meat and plant food. They From the earliest times, about 4 million years ago, people have survived by making

## HOW ARCHAEOLOGISTS RECONSTRUCT THE PAST

long before we came. They will be there long after we have left (figs 29-30).



bottles dated 1932 and 'Hubbly Bubbly' bottles from the 1960s, as well as left late $19^{\text {th }}$ century earthenware jars, glass marble-neck bottles, 'Suncrush'
 found on some of the Boulders pottery (figs 17-25). the approximately AD 1700 pottery made in this area; this fine rim incision is Olifantsfontein area. Fine diagonal external rim incision is another attribute of the many $A D$ 350-1600 Iron Age sites excavated in the Boulders-Rooiberg-
 artifacts made after about AD 1600 in the Gauteng - Northern Province smelting site which is dated to about AD 1700. One of the time-specific Boulders by the sixth group resembles pottery from the nearby Lonehill iron
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Fig. 1. Hide Scraper

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 preliminary report on archaeological research near Lake Zuai tools and prehistoric materials. direct relationship can be established between the contemporary stone of the cultural or linguistic affiliation of the hide worker. No
 and dumped into a pit 10-50 meters from the habitation area. tage, and waste are carefully saved in baskets or other suitable containers

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 known as 'Traditions'. So the Boulders Iron Age people were associated with a
 Кцпиәр! sis!! Boulders cannot, in the scientific sense be labeled 'Batswana' although they can be based on the material remains left at the sites. So the Iron Age people who lived at
 because there is no historical proof of the languages people spoke at archaeological Archaeologists don't use linguistic labels like Setswana for archaeological records were present at the sites. әب! fo रем деп!u! have been found. Similarity in artifact shapes at the Boulders and other sites within the artifact drawings to show the sites nearest the Boulders where dated artifacts understand how the Boulders story has been put together, I have added labels to similar ways of life, cultives or traditions at the different sites. To assist the reader to So groups of similar artifacts from different sites represent the former presence of



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 The red mineral concretions found at Boulders (figs 13-14) may have been stone flakes (Gallagher 1977) (fig 5). flakes (figs 11-12) and the Central Ethiopian 1970s leather workers trimmed
 Gallagher and housed in the Addis Ababa Museum. I can confirm the close able to inspect some of the leather workers' stone tools collected by Jim leather workers (Mucta, Moliso and Mafaed) (Gallagher 1977). In 1995 I was cow hide." Jim Gallagher was even able to record the personal names of the handle - usually four scrapers were used up in the preparation of a single shaped the blanks into oval scrapers and inserted them into a wooden transported (the blanks) to the home of the hide worker. The hide worker 'Fakis" "mined obsidian with digging sticks shaped (it) into blanks and Central Ethiopia in the 1970 s, found that a group of "leather tanners" called 1970 s (figs 5 and 6). Jim Gallagher, an archaeologist working in South Ethiopian leather workers' stone and glass tools still in use in Ethiopia in the Many of the Boulders stone artifacts (figs 10 and 11) closely resemble
explained by finding similar things in daily use by pre-industrial people. Some of the
Boulders artifacts closely resemble artifacts still being made by pre-industrial or
farming or hunting people in Africa, such as the following:
 are known as 'cores'. These are thick rocks that were edge-struck with a hammer-

like a cuboid
Chipped stones about the size of a billiard ball, either irregular in shape or shaped

Stone artifacts probably used as general purpose tools
Stone tools identified in this paper as utilised and trimmed flakes, and waste flakes meat
Stone artifacts probably used for cutting, shaping or preparing wood, skin or following applications of the Boulders stone artifacts: reproductions of Stone Age tools. These unsatisfactory speculations suggest the
 saw Ethiopian leather workers using obsidian flakes to prepare leather. The other observation made by an American anthropologist, Jim Gallagher. Jim Gallagher hunter gatherers using ștone tools. The African data is virtually limited to a 1970's tools. One source is found in the very limited historical record of observations of There are two possible sources of speculation on the functions of Stone Age stone

## TOOLS THEY MADE?

WHAT DID STONE AGE PEOPLE AT BOULDERS DO WITH THE STONE following the Oori Tradition are found at the Boulders
the Late Iron Age about AD1600. Traces of both Middle and Late Iron Age people In about AD1300 the Middle Iron Age began in the Boulders area, developing into
Mapulanga and southwards on the coast to Transkei, dated from AD350 - 600 . Boulders area, but was limited to the Magaliesberg Valley and northwards, and to Iron Age technology. Early Iron Age technology apparently did not reach the and Late Iron Age technology. Other archaeologists identify only Early and Late replaced by Iron Age technology, also subdivided. I use a division into Early, Middle
 making material. This technology is identified as a Stone Age technology, divided in
 Technology means 'method of adapting to the environment'. Man's earliest Archaeologists use technology as a major key to past human development, jukskei-Crocodile-Limpopo River, the main river draining the ancient Batswana Tradition is named after the Oori River, which is the ancient Tswana name for the Traditions are named after places where the main sites are found. The Oori


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 used by Boulders people is lydianite or diabase which is found in or near a diabase layers in the granite at Boulders Shopping Centre. The next most common rock way. Vein quartz lumps can also be used as hammers. Vein quartz is found in thin a hard glassy material which makes a good knife if struck off the core in the right The most common rock used by Boulders Late Stone Age people was vein quartz of the stone artifacts from Boulders are dated BP5000-10 000 (Late Stone Age), All the Boulders stone artifacts are in rocks found within 100 km of Boulders. Most
to the south of Pretoria on which UNISA is built. s above the ridge head soils overlying the Midrand granite. The other two are ferruginous quartzite these are ferricrete concretions which were probably found in the gully or donga Four pieces of iron-rich rock or concretion were found in the Boulders dig. Two of body painting, pottery surface decoration and painting leather clothing and bags Both Stone and Iron Age people used iron-rich rocks for making a red paint used in There were five lower grindstone surfaces in the big granite outcrops above the dig lower grindstones. Two granite upper grindstones were found in the Boulders dig, the dyke south of Boulders Shopping Centre, or granite was used for upper and and a lower. Both were made from compact, dense rock such as diabase found in based on farming. Stone and Iron Age people used grindstones in pairs, an upper way of life was based on hunting and collecting wild foods and Iron Age life was made for grinding and hammering were identical in shape, although the Stone Age Iron and Stone Age people used stone for grinding and hammering. The tools they people knew how to make iron and used iron instead of stone for cutting tools. Both hammering. Stone Age people used stone for these operations, but Iron Age Both Stone and Iron Age people needed tools for cutting, chopping, scraping and

Ferruginous rocks were used to produce a reddish stain as a cosmetic. Colouring matter
years ago. They are still being made and used for preparing food and cosmetics. accurately interpreted. They were first produced in Africa tens of thousands of әq ueo чэ! Stone artifacts used as upper and lower grindstones a hammer-like tool on the opposite edge tools were held in contact with the worked material, then driven into it by a tap from robust chipped edges on opposite sides of the tool. The shape suggests that these Late Stone Age artifacts often include roughly rectangular flakes that have thick Stone artifacts used for specialised purposes, possibly as chisels
 lan Burger－Reconstructions of Boulders people，page Andy Brown－Animal remains from Boulders excavation，page
Johan Geyer－Isotope dating of Boulders，page ．．．．．．．．
$\forall \perp \forall G$ Syヨa7nog NO SLyOdヨy LSI7VIVヨdS chert pieces in these patches known as＂Tillite＂and carried them to their home base
in the Boulders． Stone Age hunters may have spotted both the reddish and grey felsite pieces and
chert pieces in these patches known as＂Tillite＂and carried them to their home base Dwyka ice have been found near Kempton Park，south－east of Boulders．Alert south several hundred million years ago．Patches of rock debris carried by the Boulders area by the Dwyka lce Sheet which moved across Africa from north to as the Rooiberg Felsite，north of Bronkhorstspruit may have been carried into the west of Alberton or Ongeluk lava from Eastern Pretoria．The volcanic felsite known near Pretoria or fine grained lava from the Ventersdorp rocks in the Klipriviersberg few artifacts were made from iron－rich quartzite found in the Timeball Hill rocks in or chert fragments from the Centurion－Sterkfontein－Zuurbekom－Alberton dolomites．A lydianite or diabase from the dyke south of the Boulders，and possibly also carried in their Boulders camps where they made the artifacts．They did the same with the pieces of these rocks，then carried the stripped pieces ten or twenty kilometers to shale between East and West Rand，stripped the weathered crust off portable Stone Age people actually went to outcrops of the Witwatersrand quartzite and volcanic rock outcropping north of Bronkhorstspruit．I guess that the Boulders A few of the Boulders stone artifacts are in pale grey and pink to red felsite，a

 Witwatersrand quartzite and shale which outcrops between the East and West Rand

Midrand，by providing inclined surfaces for rapid run－off rainfalf，leading to active Midrand may have destroyed most traces of prehistoric camping or settlement in caused by the damming effect of the boulders．The gentle hillslope environments of 1997 excavation may be due to impeded drainage or reduced surface water flow Preservation of the many hundreds of artifacts，bones and teeth found in the June Age people used some of their pottery for cooking＇mabele＇porridge． dating from about AD1300 onwards．Therefore it is possible that the Boulders Iron
 were found in the deposit，but these could date anywhere from about 50000 B．P




 Klipriviersberg home base，only the smaller，more portable vessels being carried to than $27,5 \mathrm{~cm}$ in rim diameter，suggesting that the larger vessels were left at the village．None of the 10 reconstructable pots，jars or bowls from Boulders are more idea of Boulders a an Iron Age cattle－sheep－goat station rather than a permanent The probable sizes of the Iron Age pots and bowls from Boulders may support the

villages．The Boulders cattle station herders had their permanent homes in these Klipriviersberg，a day＇s walk to the South West，where there were dozens of Tswana to find．The most probable home base for the Boulders Iron Age people was in the lived in thatched stick shelters between the Boulders which have left no trace for us The Tswana Iron Age sheep，goat，cattle herders who lived at Boulders，may have
lived in thatched stick shelters between the Boulders which have left no trace for us
walls of the Boulders．
 Age＇occupation of Boulders．The huge granite rocks of the Boulders stopped Iron Age hunters＇prey because this is the most probable date of the＇Middle Iron Age hunters＇prey，but the blesbok dated to between 368 and 678 B．P．is definitely animal species identified by Andy Brown（ $p . . . .$. ）at Boulders may be Late Stone herded sheep，goats and cattle but also hunted wild animals．Some of the sixteen
 bulk of Stone Age food．A spring of water certainly drained out at the lowest point o
 years．These grasslands attracted the grazing animals that Stone Age Boulders the first place．The grasslands surrounding Boulders have been there for millions o environment outside the Boulders to attract people to seek shelter in the Boulders in upon two things－preservation of the artifacts，and a fruitful or favorable Discovery of ancient artifacts made by early Midrand people at Boulders depends
I attempted to decide whether the Boulders bones and teeth were modern, Iron Age
or Stone Age in date. There are no extinct animal remains among the 16 species of
animal represented in the bones and teeth analysed by Andy Brown. The only
method I could use to make a probability estimate of the dating of the bones and
teeth was to separate the obviously modern bones on the basis of butcher saw cut
bones. The butcher saw cut bones all had a white colour and represented
domesticated animals. Bones that were broken rather than cut with a machine saw,
had a darker, grey colour. Bones from wild animals such as wildebeest are grey in
colour.

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Possibly goats
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species: :
Andy Brown found that the Boulders bones and teeth represent the following
precisely dated and related to associated artifacts. Boulders have the same problem, however. The different species cannot be species to the Melville Cave animal sample of 15 species. Both Melville Cave and first recorded here. The Boulders animal sample includes 16 species, similar in around the corner from Boulders, including the glorious Roan Antelope which was about the beautiful African animals in all their variety in the Magaliesberg valley just until modern farmers settled there. As recently as 1835 Cornwallis Harris wrote There is little doubt that huge herds of animals milled around in the Boulders region

DATING AND INTERPRETATION OF THE BOULDERS ANIMAL REMAINS 1987. Magaliesberg caves. The reader will find Lyn Wadley's reconstructions in Wadley people related to the Late Stone Age people at Boulders lived in these Jubilee Cave, Cave James and other sites in the Magaliesberg area. Stone Age the Boulders Late Stone Age people. Wadley's work is based on her excavations of Lyn Wadley has written an imaginative reconstruction of Late Stone Age hunters'
seasonal changes in behaviour in the Magaliesberg area which may well apply to described in this report. Boulders the huge rock surfaces may have reduced the erosive power of surface destruction of delicate materials left on open site camping places. But inside the
 The larger quantities of domestic animal bone represented in the Boulders sample Thus the small quantities of wild animal bone at Boulders could be explained by
Boulders people eating crushed bone. (compare P Borcherd's San record of bone eating on the Orange River in 1801) Hunter gatherers and probably Iron Age people as well probably ate crushed bone such as sheep) or animals that could be sheep or cattle shaft. The best represented in terms of quantities are definitely domestic animals
 The final point to consider in the Boulders bone sample is the uneven registration of 500010000 BC range. any of these could relate to Boulders Late Stone Age hunting in the approximate duiker, rhebok, kudu, springhare, dassie and warthog in the Boulders species list, too recent to relate to the Late Stone Age. Since there are wildebeest, hartebeest wild animal bone, but the only definite wild animal bone dated, the blesbok bone, is occupation is represented by hundreds of artifacts and should also be registered in occupations of Boulders, or to the Late Stone Age occupation. The Late Stone Age date, but the wild animal bones could relate to either of the two Iron Age The machine saw cut bones and bones representing a donkey are clearly modern in
date between AD1229 and AD1729, which could overlap with the blesbok date A burned grey bone fragment was C14 isotope dated to $471 \pm 250 \mathrm{BP}$, supporting a therefore probably killed by a Middle Iron Age hunter AD1510 $\pm 90$, suggesting a date between AD1120 and 1600. The blesbok was pue OZLF OtZLC甘 of petep S! чग!
 indicating it could date to either 368 BP or 678 BP (AD1580 or 1420) or somewhere Two of the grey bones were submitted to Professor B. Verhagen and Johan Geyer
for isotope dating. Part of a blesbok bone was C14 isotope dated to $523 \pm 155$ BP,
Syヨa7nog $\perp \forall$ S $10 \forall \unlhd \perp Y \forall \exists ⿹ \forall \exists N O \perp S$
Probably Early Stone Age (compare with Wonderboompoort and Cave of Hearths)
(Mason 1962, Mason 1988)
Probably Middle Stone Age (compare with Cave of Hearths Mason 1962)

1. Three heavy flakes, sandstone, water worn, also one in diabase.
2. Rough long flake in reddish sandstone.
Three heavy flakes, sandstone, water worn, also one in diabase. Primrose Ridge Middle Stone Age, and biacially trimmed stone artifact. Two weathered diabase flakes and two small trimmed sandstone flakes. Short thick faceted platform flake, steep edge trimmed, cortex back, like
3. Long narrow flake, both edge trimmed, like Cave of Hearths Middle Stone
Age - water worn diabase.
4. Thick heavy piece with steep trimming on two sides. Heavily weathered with Three thick plain flakes, one heavy, diabase. Sampson-1974
Probably Late Stone Age Early Oakhurst (compare C G Sampson Lockshoek 4. Core-like flat sandstone piece with flakes removed.

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Stone Age and Iron Age
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> "Early Oakhurst" "Later Oakhurst" but not microlithic
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2. Middle Stone Age artifacts

1. Early Stone Age artifacts Total 3
SUMMARY OF QUANTITIES - ARTIFACTS, BONES AND TEETH FROM THE
BOULDERS JUNE 1997 EXCAVATION
SUMMARY OF QUANTITIES - ARTIFACTS, BONES AND TEETH FROM THE
BOULDERS JUNE 1997 EXCAVATION
Total 8
Total 4
Total 1767

Total 358
Total 9
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Stone Age stone artifacts
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| 1. Early Stone Age artifacts | Total 3 |  |
| :--- | :--- | :--- |
| 2. Middle Stone Age artifacts | Total 8 |  |
| 3. "Later Oakhurst" but not microlithic | Total 1767 |  |
|  | "Early Oakhurst" <br> 4. Stone artifacts common to Middle, Late | Total 4 |
|  | Stone Age and Iron Age | Total 9 | (1)




1. Material: Utilised Quartz fragments 308
Utilised Diabase fragments 2
Utilised Sandstone fragments 15
Diabase pieces not utilised 121
Sandstone pieces not utilised 29
Chert pieces not utilised 31

## ARTIFACTS COMMON TO STONE AGE HUNTER GATHERERS AND IRON AGE FARMERS AT BOULDERS .

Upper and lower grindstones and ferruginous concretions used for red colouring were first used by African peoples about 50000 years ago. African people today are still using these materials. I found grindstones and colouring matter in the Boulders excavation but could not associate them with any one of the three or four prehistoric Boulders inhabitants who lived there after about 50000 BC .

1. Material: Upper grindstones

Granite 3
Sandstone 3
Diabase 3
Diabase coated with red paint 1

1. Material: Lower grindstones

These are located in a group of five on a large granite boulder and one by itself on a smaller granite boulder, just upslope of the excavation trench.

Upper and lower grindstones were used in pairs for a wide variety of purposes. Prehistoric and recent people used them for preparing wild or cultivated plant food, for grinding the spongy inside of bones to make an edible paste, and for powdering hard ferruginous concretions known as ferricrete (from swampy soil) or iron ore (from hard rock). The red powder was mixed with fat and used to colour the skin or leather clothes or pottery surfaces (Rudner 1982).

Ferruginous rocks
Four pieces were found. Two are ferricrete concretions (from swampy soil exposed in dongas) and two are ferruginous quartzite carried in from the Timeball Hill rocks, south of Pretoria. One upper grindstone still has reddish stain from grinding these materials (fig. 13-14).
These sites have single line interior incision bowls like some Boulders bowls
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bumish in narrow bands on the vessel shoulder．
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 assemblage may be a mixture of both Midde and Late iron Age pottery
assemblages．Smoking pipes were found at Olifantspoort $20 / 71$ ．Bruma $30 / 81$ and Middle Iron Age（before AD1600）in affinity．Therefore the Boulders pottery AD1600）sites in the Boulders region．Some of the Boulders pottery attributes are Smoking pipes，probably for dagga，are recorded only at Late Iron Age（after
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Incised and dentate
Incised internal

Dentate
Decoration Technique
Total body sherds decorated
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Shapes inferred from rims：
Total rims with part of profile
BOULDERS POTTERY ANALYSIS
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$\omega$
The general similarity between the Boulders pottery and recent Tswana pottery
suggests Tswana occupation of the Boulders.
occupations of Boulders, one before circa AD1600 and the other after AD1600.
Therefore, the Boulders pottery assemblages probably reflect two separate Iron Age
at Ifafi, Roberts Farm and Olifantspoort 29/72 internal incision bowls relate to Middle Iron Age assemblages dated before AD1600 nearby Bruma 30/81 and Klipriviersberg 5/65 (dated after AD1600). The Boulders
The Boulders smoking pipe relates to late Iron Age assemblages (AD1600-1800) at
as Olifantspoort 20/71, Platberg or Kaditshwene.
Boulders pottery has little or no similarity with the more remote assemblages such

Boulders pottery has some similarities with Klipriviersberg 5/65, Suikerbosrand
OTHER POTTERY ASSEMBLAGES
BOULDERS POTTERY ANALYSI

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HERITAGE
CONCLUSION - THE VITAL CONTRIBUTION THE BOULDERS
SHOPPING CENTRE HAS MADE TO THE MIDRAND CULTURAL

