

9 February 2012

South African Heritage Resources Agency
111 Harrington Street
PO Box 4637
8000 Cape Town

HERITAGE STATEMENT: ERGO MINING PROSPECTING LICENCE APPLICATION

Dear Madam/Sir,

On behalf of our client, Ergo Mining, please find attached a copy of a Cultural Resources Pre-assessment submitted as a Heritage Statement to the South African Heritage Resources in terms of Section 38 of the National Heritage Resources Act, 25 of 1999.

Relevant project details have been included in the attached Background Information Document (BID).

Please note that the Environmental Management Plan (EMP) will be submitted to the Department of Minerals and Energy on 29 February 2012.

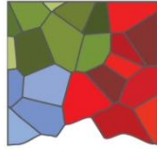
We look forward to receiving your comments and recommendations.

Regards,



Johan Nel

Unit manager: CRM



DIGBY WELLS
ENVIRONMENTAL

**HERITAGE STATEMENT
FOR
ERGO MINING PROSPECTING APPLICATION**

ERGO MINING (PTY) LTD

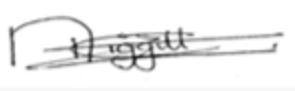

FEBRUARY 2012

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Name	Responsibility	Signature	Date
Natasha Higgitt <i>Archaeologist</i>	Specialist		February 2012
Johan Nel <i>Unit Manager: CRM</i>	1 st Review		February 2012

This report is provided solely for the purposes set out in it and may not, in whole or in part, be used for any other purpose without DWA's prior written consent.



EXECUTIVE SUMMARY

A scoping heritage study was undertaken and presented in this Heritage Statement to comply with the Environmental Management Plan undertaken by Digby Wells Environmental on behalf of Ergo Mining. A prospecting Right application has been submitted by Ergo Mining in terms of Section 16 and Regulation 7 (1) of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA). Ergo Mining proposes to prospect for gold, uranium, nickel, silver and all associated minerals including stone. The proposed prospecting will take place on the following slimes dams:

- Slimes Dam 6L16: Remaining Extent of the farm Grootvaly 124 IR;
- Slimes Dam 6L17: Portion 21 of the farm Grootvaly 124 IR;
- Slimes Dam 6L17A: Portion 13 of the farm Grootvaly 124 IR; and
- Slimes Dam 6L14: Portion 192 of Geduld 123 IR and Portion 6 of Grootvaly 124 IR.

These are referred to collectively as the *Grootvaly/Geduld Slimes Dams*.

The Heritage Statement was compiled using information obtained through a desktop study, archival and database surveys, cartographic and satellite imagery surveys, relevant baseline reports and a site visit.

Due to the nature of the proposed project no impacts on any heritage resources are envisaged. The prospecting will entail taking *manual auger samples* (i.e. hand drilling) and possible trenching. All these activities will take place on the respective slimes dams. No heavy machinery or infrastructure will be used or constructed

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GLOSSARY

AIA	Archaeological Impact Assessment
ASAPA	Association of South African Professional Archaeologists
CRM	Cultural Resources Management
CRP	Cultural Resources Pre-Assessment
EMP	Environmental Management Plan
HIA	Heritage Impact Assessment
Heritage Statement	A brief, preliminary heritage study that should include description of the affected environment landscape; the location, manner and reason that heritage resources may be impacted on; potential or expected impacts on sites in general; and a ranking of severity of impacts on heritage resources.
MSA	Middle Stone Age- ±250 000 -20 000 BP. Stone tools such as blades and points, and other artefacts include shell beads, pendants and the use of ochre.
SAHRA	South Africa Heritage Resources Agency

1 INTRODUCTION

Ergo Mining has appointed Digby Wells Environmental (Digby Wells) as an independent environmental consultant to undertake the prospecting application, public consultation process and compile an Environmental Management Plan (EMP) for the proposed prospecting activities. This Heritage Statement serves to form part of the EMP.

1.1 Project Description

Ergo Mining (Pty) Limited (Ergo Mining) has submitted an application for a Prospecting Right in terms of Section 16 and Regulation 7 (1) of the Mineral and Petroleum Resources Development Act, 2002 (Act No.: 28 of 2002) (MPRDA). The application was acknowledged by the Department of Minerals and Resources (DMR), Gauteng on 16 November 2011. Ergo Mining proposes to prospect for gold, uranium, nickel, silver and all associated minerals including stone in respect of the following slimes dams 6/L16, 6/L17, 6/L17A AND 6/L14 slimes dams on the farms Grootvaly 124 IR and Geduld 123 IR (See Plan 1 to **Error! Reference source not found.**).

- Slimes Dam 6L16: Remaining Extent of the farm Grootvaly 124 IR;
- Slimes Dam 6L17: Portion 21 of the farm Grootvaly 124 IR;
- Slimes Dam 6L17A: Portion 13 of the farm Grootvaly 124 IR; and
- Slimes Dam 6L14: Portion 192 of Geduld 123 IR and Portion 6 of Grootvaly 124 IR.

For purposes of this application, the above slimes dams will be collectively referred to as the Grootvaly/Geduld Slimes Dams.

Prospecting activities will be undertaken over a period of 3 years. Ergo Mining will apply both invasive and non-invasive methods for their prospecting activities¹. The prospecting activities will be conducted according to four phases of which only one phases estimated at 12 months will be invasive. This will include reconnaissance mapping, trenching, chip sampling and auger drilling will be undertaken during this phase.

1.2 Project Setting

The Grootvaly/Geduld Slimes Dams are located approximately 7 kilometres north east from the town of Springs within the Ekurhuleni Metropolitan Municipality in the Gauteng Province.


Province	Map sheet	Town	Farm Names	Co-ordinates
Gauteng	2628AB Benoni; 2628AD Springs; 2628BA Delmas; 2628BC Endicott;	Springs	Grootvaly 124IR; Geduld 123IR	Mid-point of project area: S26.2328/E28.48694

¹ Invasive methods are activities that result in land disturbances and could include such techniques such as auger or diamond drilling and sampling. Non-invasive methods are methods that do not cause disturbances to the land and include desktop research, land survey, computer modelling, and aeromagnetic survey.

Ergo Mining (Pty) Ltd Prospecting Right Application

Regional Topographical Map

Legend

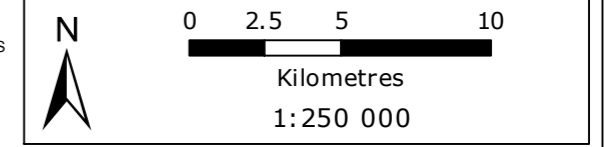
 Grootvaly/Geduld Slimes Dams

Map Sheets:
2528 Pretoria
2628 East Rand



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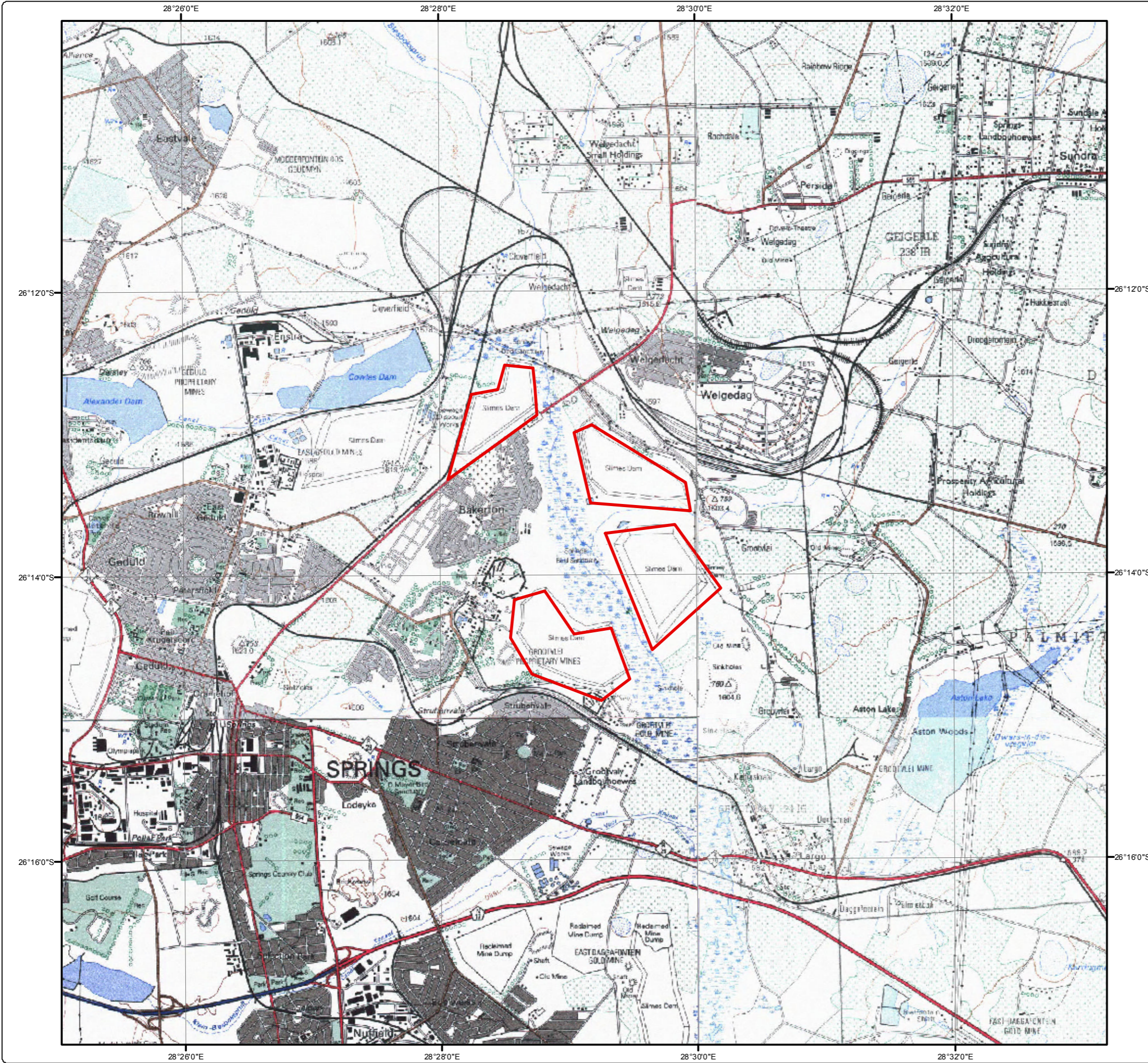
Projection : Transverse Mercator Ref # : scc.DRD088.201201.033
Datum : Hartbeesthoek 1994 Revision Number : 1
Central Meridian : 29°E Date : 13/01/2012



Ergo Mining (Pty) Ltd Prospecting Right Application Topographical Map

Legend

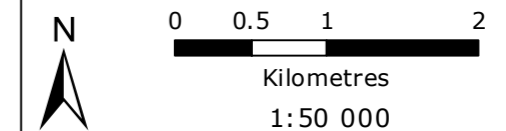
 Grootvaly/Geduld Slimes Dams



Map Sheets:
2628 AB Benoni
2628 AD Springs
2628 BA Delmas
2628 BC Endicott



Projection : Transverse Mercator Ref # : scc.DRD088.201201.034
Datum : Hartbeesthoek 1994 Revision Number : 1
Central Meridian : 29°E Date : 13/01/2012



2 PROBLEM STATEMENT

Ergo Mining has applied for a Prospecting Right (refer to Project Description above). This proposed project has the potential to impact protected heritage resources such as:

- Archaeological sites, features and material older than 100 years;
- Structures or parts of the built environment older than 60 years; and
- Historic landscapes, intangible and living heritage.

3 METHODOLOGY

A Heritage Statement is a primary means wherewith cultural resources in the project area are identified.

The desktop study included:

- A literature review of published and unpublished research;
- Baseline studies drawn from AIA or HIA studies previously done in the region;
- Archival & database research;
- A review of all maps of the area, including modern maps, satellite imagery and aerial photography;
- Brief site visit.

4 BACKGROUND

4.1 Historical Context

The history of South African gold mining and the city of Johannesburg are so closely intertwined. Before the 1880s, the area on which the city now stands was open farm land, until the discovery of gold on the farm Langlaagte in 1886. Within a few years, the establishment of Johannesburg as an official town and recognition from the government of the Zuid Afrikaanse Republiek (ZAR) was required.

The mining industry in Johannesburg quickly became a large scale operation, with the declaration on the 7th of December 1887 of the Chamber of Mines. This included representatives from mines including Aurora, Balmoral, City and Suburban, Crown Reef, Driefontein, Eclipse, Geldenhuis Estate, George Goch, Langlaagte Block B, Langlaagte Estate, Langlaagte Western, Luipaard's Vlei, Nigel, Odessa, Randfontein, Riet Vlei, Robinson, Stanhope Geldenhuis, Transvaal Montana, White Reef and Witwatersrand (Chamber of Mines 2008). The modern chamber still in effect today was instituted on the 5th of October 1889 (Lang 1986).

The mine of Grootvlei Proprietary Mines Limited itself is one of the last remaining mining operations on the East Rand. Mining peaked in the East Rand in the 1950's, and by the 1990's, the majority of mining operations on the East Rand had shut down (Lea, Waygood & Duthie 2003).

Prior to the establishment of the Grootvlei mine, its surrounds played witness to some historical episodes. The first of these was as a result of the Vereeniging Riots and the 1938 amendment to the Urban Areas Act of 1923 to compel local authorities to establish municipal monopolies over beer, or to permit domestic brewing. This created an atmosphere of conflict between municipalities and the residents of black urban locations, including Payneville near to the mine (Bonner 1988). It may be interesting to note that Hugh Masakela, the prominent musician, lived in Payneville from 1945 to 1947 (Raditlhalo 2009).

4.2 Baseline Report Survey

The SAHRA database was consulted and the following information was gathered:

Van Schalkwyk, J. 2011. Heritage Impact Assessment for the proposed expansion of the Welgedacht Water Care Works, Ekurhuleni Local Municipality, Gauteng Province.

- The farm Geduld was bought by President Paul Kruger from a Pretoria businessman Albert Broderick in 1886, after which he sold it to Messrs. Goertz and Co for a "large sum" of money (Praagh 1906).
- There are a number of old mining houses within the general area which could be of historical value, although none are affected by the proposed prospecting activity.

4.3 Archival and database Survey

An Archival study of the National Archives was completed. The following information was uncovered:

- There has been a large amount of construction and disturbances within and around the project area. Examples of this include road widening and construction of the roads in the area that occurred between 1932-1942 including roads adjacent to the project area (TPB, 1080, TA3/8359; TPB, 1080, TA5/8359; TPB, 1080, TA12/8359). A stone quarry was established on the farm Geduld 24 in 1915 (MMB, 245, MCK997/15).
- Blueprints of a house to be built on Geduld 24 were uncovered. This dwelling comprised of a four roomed wood and iron cottage and was built in 1915. This is similar to the old mining houses that can be seen in the area (MMB, 245, MCK880/15) (See Figure 1).

A study of the University of the Witwatersrand Archaeological Site Database was conducted and the following information was identified:

- A total of 19 sites were identified on the maps 2628AB Benoni; 2628AD Springs; 2628BA Delmas and 2628BC Endicott;

-
- These sites include 11 Stone Age sites, of which six are Middle Stone Age sites;
 - The remaining eight sites are historical sites which include mine shafts, graves, dwellings, foundations and a mining complex;
 - None of the above sites are within the prospecting project area (See table in Appendix A).

A study of the South African Genealogical database was completed and the following information was uncovered:

- The Palmietkuil Military Cemetery is approximately 2 km south-east of the project area.

The SAHRA Inventory of Registered Heritage Sites was examined and the following was identified:

- Springs Central Fire Station- Registered Provincial Heritage Site

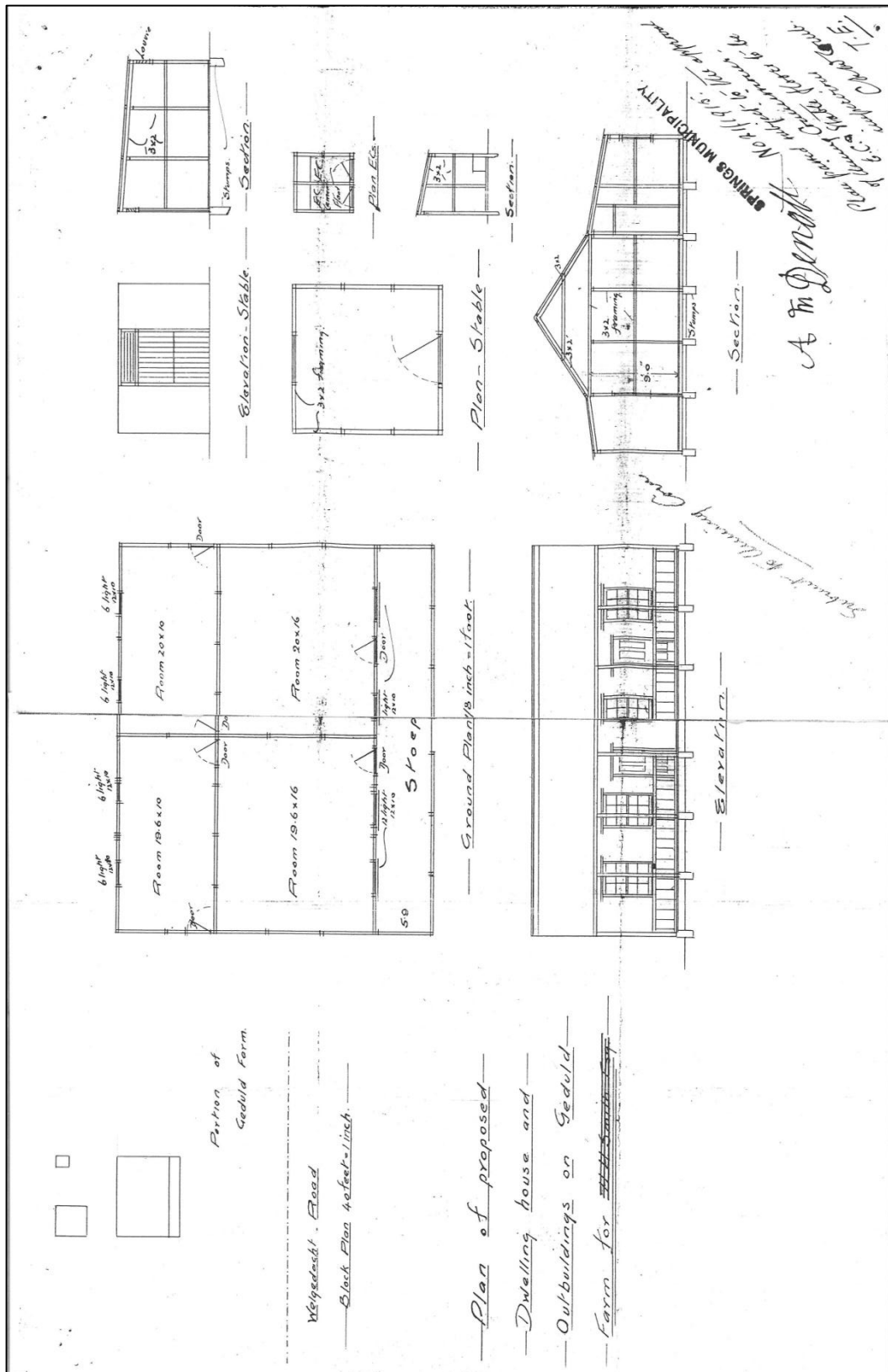


Figure 1: Blueprints of dwelling constructed on Geduld 24 in 1915.

5 CARTOGRAPHIC SURVEY

A review of cartographic records of the project area was undertaken. No significant archaeological or historical structures could be identified on the satellite imagery.

6 FINDINGS

In general, no significant heritage resources were observed or identified in the project area that will be impacted on. Historic structure such as early mine and farm residence are known to exist in the general area, but will not be impacted by the proposed prospecting.

It is important to note the following:

- This Heritage Statement has been drafted in part as MRPDA requirements in terms of a *Prospecting Right* application only;
- Prospecting activities will be confined the top surfaces of the slimes dams, and will employ manual auger sampling and trenching;
- No *reclamation* will take place, thus the slimes dams and all associated infrastructure will remain intact for the duration of the prospecting period.

7 CONCLUSION

The Heritage Statement did not identify any heritage resources in the immediate project areas that will be adversely impacted due the proposed prospecting activities. Results did indicate that various types of heritage resources exist in the general vicinity (such as areas associated with Struggle history). Such resources will not be affected by the current proposed project.

It is requested that Ergo Mining is exempted from undertaking Heritage Impact Assessments (HIA) in respect of the Prospecting Right application on the slimes dams. Heritage Impact Assessments will however need to be completed in terms of any other activity that may affect heritage resources; this will include reclamation of the slimes dams.

8 REFERENCES

Published References

- BONNER, P.1988. *'Desirable or Undersirable Sotho Women? Liquor, Prostitution and the Migration of Sotho Women to the Rand, 1920-1945.* African Studies Seminar Paper. University of the Witwatersrand: Johannesburg.
- LANG, J 1986 "*Bullion Johannesburg: Men, Mines and the Challenge of Conflict*" Johnathan Ball Publishing, Johannesburg.
- LEA, I; WAYGOOD, C AND DUTHIE, A. 2003. *Water management strategies to reduce longterm liabilities at Grootvlei gold mine.* 8th International Congress on Mine Water & the Environment, Johannesburg, South Africa.
- NIEFTAGODIEN, N. 2002. *The role of local authorities in the implementation of urban apartheid on the East Rand in the 1950s.* Wits Interdisciplinary Research Seminar. University of the Witwatersrand: Johannesburg.
- PRAAGH, L. V. 1906. The Transvaal and its mines. Praagh & Lloyd: London.
- RADITLHALO, S. 2009. The Self-Invention of Hugh Masekela. *Journal of Literary Studies* 25(1): 34-52.
- RICHARDSON, P AND VAN HELTEN, J. 1984. The Development of the South African Gold-Mining Industry, 1895-1918. *The Economic History Review* 37(3): 319-340.
- SMILLIE, S 2011 "Experts work on mystery Skeletons" In *The Star (Online Edition)* URL: <http://www.iol.co.za/the-star/experts-work-on-mystery-skeletons-1.1107290>

Unpublished References consulted

- VAN SCHALKWYK, J. Heritage Impact Assessment for the proposed expansion of the Welgedacht Water Care Works, Ekurhuleni Local Municipality, Gauteng Province.

APPENDIX A

TABLE OF RESULTS

Map No.	Site No.	Site Name	Farm name	Period	Industry/ Culture	Site Type	Co-ordinates	
2628	AB 1	Van Heerden	Rynfield Agri Holdings	MSA		Open	S26.127	E28.33694
2628	AB 2	Site 1		Historic		Mine Shaft	S26.224583	E28.3355083
2628	AB 3	Site 2		Historic		Graves	S26.228	E28.342861
2628	AB 4	Site 3		Historic		Farmhouse	S26.230527	E28.3452
2628	AB 5	Site 4		Historic		Stone Foundation	S26.221	E28.327527
2628	AD 1	Witpoort		Stone Age			S26.268	E28.363
2628	AD 2	Witpoort 2	Witpoortje 117	Historic	European	Cemetery		
2628	AD 3	Sally	Witpoortje 117	Historic		Mining Complex		
2628	AD 4	Witpoort 3	Witpoortje 117	MSA				
2628	AD 5	Dairy		Historic	European	House		
2628	AD 6	Withok	Withok 131	MSA				
2628	AD 7	Site 1	Witpoortje 117	MSA		Fercrete Layer	S26.2824	E28.3117
2628	AD 8	Site 2	Witpoortje 117	Stone Age		Fercrete Layer	S26.2854	E28.3012
2628	AD 9	Site 3	Witpoortje 117	MSA		Edge of Fercrete	S26.290083	E28.30016
2628	AD 10	Site 4	Witpoortje 117	Stone Age		Pan	S26.2857	E28.298472
2628	AD 11	Site 5	Witpoortje 117	Historic		Mine Shaft	S26.28694	E28.308
2628	AD 12	Site 6	Witpoortje 117	MSA		Quarry	S26.286	E28.31638
2628	BA 1	Delmas E246		Stone Age				
2628	BC 1	Springs E183		Stone Age				

APPENDIX B

CV OF SPECIALISTS

JOHAN NEL

Mr. Johan Nel

Archaeologist

Unit Manager: Cultural Resources Management

Social Sciences Department

Digby Wells Environmental

1 EDUCATION

- 2001 BA Anthropology & Archaeology, University of Pretoria
- 2002 BA Honours Archaeology, University of Pretoria (UP) (2002)
- Current MA Archaeology

2 EMPLOYMENT

- 2010 – present: Archaeologist and CRM specialist, Digby Wells Environmental
- 2005 – 2010: Co-owner and manager of Archaic Heritage Project Management, Cultural Heritage Resources Management consultancy company;
- 2004 – 2005: Resident, professional archaeologist, Rock Art Mapping Project based at Didima / Cathedral Peak, Ukhahlamba-Drakensberg World Heritage Site, Department of Geomatics, University of KwaZulu-Natal;
- 2003 – 2004: Freelance, professional archaeologist;
- 2002 – 2003: Special Assistant, Physical Anthropology Unit, Department of Anatomy, University of Pretoria;
- 2000 – 2002: Technical Assistant, Physical Anthropology Unit, Department of Anatomy, University of Pretoria;
- 1999 – 2000: Assistant in Mapungubwe Project, Department of Anthropology and Archaeology, University of Pretoria;
- 1998 - 1999: Volunteer at National Cultural History Museum, Pretoria, Writer for BAT ('By About Town) arts section in Perdeby, official University of Pretoria student newspaper.

3 EXPERIENCE

PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENTS:

- Above Ground Storage Tanks survey, SASOL Oil (Pty) Ltd, Free State Province, South Africa
- Access road establishment , AGES-SA, Tzaneen, South Africa
- Boikarabelo Railway Link, Resgen South Africa, Steenbokpan, South Africa
- Conversion of prospecting rights to mining rights, Georock Environmental, Musina, South Africa
- Galaxy Gold Agnes Mine, Barberton, South Africa
- HCI Khusela Palesa Extension, Bronkhorstspuit, South Africa
- Kennedy's Vale township establishment, AGES-SA, Steelpoort, South Africa
- Koidu Diamond Mine, Koidu Holdings, Koidu, Sierra Leone
- Lonmin Platinum Mine water pipeline survey, AGES-SA, Lebowakgomo, South Africa
- Mining right application, DERA Environmental, Hekpoort, South Africa
- Mogalakwena water pipeline survey, AGES-SA, Limpopo Province, South Africa
- Nzoro Hydropower Station, Environmental and Social Impact Assessment, DRC
- Randgold Kibali Gold Project, Environmental and Social Impact Assessment, Kibali, Democratic Republic of the Congo
- Randwater Vlakfontein-Mamelodi water pipeline survey, Archaeology Africa cc, Gauteng, South Africa
- Residential and commercial development, GO Enviroscience, Schoemanskloof, South Africa
- Temo Coal, Limpopo, South Africa
- Transnet Freight Line survey, Eastern Cape and Northern Cape, ERM, South Africa
- Van Reenen Eco-Agri Development Project, GO Enviroscience, South Africa
- Platreef Platinum Mine, Ivanhoe Nickel & Platinum, Mokopane, South Africa

MITIGATION PROJECTS:

- Mitigation of Iron Age archaeological sites: Kibali Gold Project, DRC
- Mitigation of Iron Age metalworking site: Koidu Diamond Mine, Sierra Leone
- Mitigation of Iron Age sites: Boikarabelo Coal Mine, South Africa
- Exploratory test excavations of alleged mass burial site: Rustenburg, Bigen Africa Consulting Engineers, South Africa
- Mitigation of Old Johannesburg Fort: Johannesburg Development Agency (JDA), South



Africa

- Site monitoring and watching brief: Department of Foreign Affairs Head Office, Imbumba-Aganang Design & Construction Joint Venture, South Africa

GRAVE RELOCATION

- Du Preezhoek-Gautrain Construction, Bombela JV, Pretoria, South Africa
- Elawini Lifestyle Estate social consultation, PGS (Pty) Ltd, Nelspruit, South Africa;
- Motaganeng social consultation, PGS (Pty) Ltd Burgersfort, South Africa
- Randgold Kibali Mine, Relocation Action Plan, Kibali, DRC
- Repatriation of Mapungubwe National Park and World Heritage Site, DEAT, South Africa
- Smoky Hills Platinum Mine social consultation, PGS (Pty) Ltd Maandagshoek South Africa
- Southstock Colliery, Doves Funerals, Witbank, South Africa
- Tygervallei. D Georgiades East Farm (Pty) Ltd, Pretoria, South Africa
- Willowbrook Ext. 22, Ruimsig Manor cc, Ruimsig, South Africa
- Zondagskraal social consultation, PGS (Pty) Ltd, Ogies, South Africa
- Zonkezizwe Gautrain, PGS, (Pty) Ltd, Midrand, South Africa

OTHER HERITAGE ASSESSMENTS AND REVIEWS:

- Heritage Scoping Report on historical landscape and buildings in Port Elizabeth: ERM South Africa
- Heritage Statement and Cultural Resources Pre-assessment scoping report on Platreef Platinum Mine, Mokopane: Platreef Ltd
- Heritage Statement and Scoping Report on five proposed Photo Voltaic Solar Power farms, Northern Cape and Western Cape: Orlight SA
- Land claim research Badenhorst family vs Makokwe family regarding Makokskraal, Van Staden, Vorster & Nysschen Attorneys, Ventersdorp South Africa
- Research report on Cultural Symbols, Ministry for Intelligence Services, Pretoria, South Africa
- Research report on the location of the remains of kings Mampuru I and Nyabela, National Department of Arts and Culture, Pretoria, South Africa
- Review of Archaeological Assessment: Resources Generation, Coal Mine Project in the Waterberg area, Limpopo Province
- Review of CRM study and compilation of Impact Assessment report, Zod Gold Mine, Armenia

ACADEMIC FIELDWORK

Five seasons hosted: survey, mapping and excavation historic / Late Farmer Community sites on farms Bivack 14 MR and Eerstekrans 16 MR for personal MA research, Department of Anthropology and Archaeology, UP.

Ten projects / seasons attended as Teaching Assistant / Member of Staff

Eight projects / field seasons attended on invitation as undergraduate and graduate student

4 PROFESSIONAL AFFILIATIONS

- Association of Southern African Professional Archaeologists (ASAPA): Professional Member
- ASAPA Cultural Resources Management (CRM) section: Accredited member
- International Association of Impact Assessors (South Africa)
- Society for Africanist Archaeologists (SAFA)

5 PUBLICATIONS

Nel, J & Tiley, S. 2004. The Archaeology of Mapungubwe: a World Heritage Site in the Central Limpopo Valley, Republic of South Africa. *Archaeology World Report*, (1) United Kingdom p.14-22.

Nel, J. 2001. 2001. Cycles of Initiation in Traditional South African Cultures. *South African Encyclopaedia (MWEB)*.

Nel, J. 2001. Social Consultation: Networking Human Remains and a Social Consultation Case Study. Research poster presentations at the Bi-annual Conference (SA3) Association of Southern African Professional Archaeologists: National Museum, Cape Town.

Nel, J. 2002. Collections policy for the WG de Haas Anatomy museum and associated Collections. Unpublished. Department of Anatomy, School of Medicine: University of Pretoria.

Nel, J. 2004. Research and design of exhibition for Eloff Belting and Equipment CC for the Institute of Quarrying 35th Conference and Exhibition on 24 – 27 March 2004.

Nel, J. 2004. Ritual and Symbolism in Archaeology, Does it exist? Research paper presented at the Bi-annual Conference (SA3) Association of Southern African Professional Archaeologists: Kimberley

Nel, J. 2007. The Railway Code: Gautrain, NZASM and Heritage. Public lecture for the South African Archaeological Society, Transvaal Branch: Roedean School, Parktown.

Nel, J. 2009. Un-archaeologically speaking: the use, abuse and misuse of archaeology in popular culture. *The Digging Stick*. April 2009. 26(1): 11-13: Johannesburg: The South African Archaeological Society.

Nel, J. 2011. 'Gods, Graves and Scholars' returning Mapungubwe human remains to their resting place.' In: *Mapungubwe Remembered*. University of Pretoria commemorative publication: Johannesburg: Chris van Rensburg Publishers.





DIGBY WELLS
ENVIRONMENTAL

NATASHA HIGGITT

Ms Natasha Higgitt

Archaeology Intern

Social Sciences Department

Digby Wells Environmental

1 EDUCATION

- University of Pretoria
- BA Degree (2008)
- Archaeology Honours (2009)
- Title of Dissertation- Pass the Salt: An Archaeological analysis of lithics and ceramics from Salt Pan Ledge, Soutpansberg, for evidence of salt working and interaction.

2 EMPLOYMENT

July 2011 to Present: Archaeology Intern at Digby Wells Environmental

April 2011 to June 2011: Lab assistant at the Albany Museum Archaeology Department

April 2010 to March 2011: Intern at the Archaeology Department, Albany Museum under the Department of Sports, Recreation, Arts and Culture, Eastern Cape Government, South Africa (DSRAC)

3 PROJECT EXPERIENCE

- Rescue excavation at St Francis Bay (shell midden burial)
- Rescue excavation at Wolwefontein (skeleton in donga)
- Recorded two rock art sites at Blaauwbosch Private Game Reserve, Eastern Cape
- Attended a 2 week excavation/study tour in the Friuli Region in Italy, organised by the Società Friulana di Archeologia, sponsored by Ente Friuli nel Mondo, and excavated a 12th century medieval castle
- Attended a 2 week excavation in Limpopo, Waterpoort Archaeological Project organised by Xander Antonites (Yale PhD Candidate)
- UP Archaeology Fieldschool at Bivack, Limpopo (Survey and Excavation) (15 days)
- UP Archaeology Fieldtrip at De Witteberg, Mpumulanga (Rock Art recording) (1 day)
- UP Archaeology Fieldschool at Machete, Limpopo (Fieldschool administrator, Excavation and base station recording and mapping) (16 days)

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Directors: AR Wilke, CD Wells, LF Koeslag, PD Tanner (British)*, AJ Reynolds (Chairman) (British)*, GE Trusler (C.E.O)
*Non-Executive

- UP Archaeology Fieldschool at Bivack, Limpopo and Ratho, Limpopo (Survey and excavation) (15 days)
- UP Geography Fieldschool at Injisuthi, Drakensberg (Weathering Analysis on Rock face with rock art) (2 days)
- UP Archaeology Fieldschool at Hillbrow, Gauteng (Phase 2 CRM Style Excavation) (7 days)
- UP Archaeology Fieldschool at Ratho, Limpopo (Excavation and Survey) (15 days)

CRM (Contract work)

- Notice of Intent to Develop and Cultural Resources Pre-Assessment for Orlight SA (PTY) Ltd Solar PV Project. 2012. (Digby Wells Environmental)
- Agricultural Survey for Platreef ESIA, Mokopane, Limpopo. 2011. (Digby Wells Environmental)
- Cultural Resources Pre-Assessment for the Proposed Sylvania Everest North Mining Development in Mpumalanga, near Lydenburg. 2011. (Digby Wells Environmental)
- Phase 2 Mitigation of Archaeological sites at Boikarabelo Coal Mine, Steenbokpan, Limpopo. 2011. (Digby Wells Environmental)
- Cultural Resources Pre-Assessment for Proposed Platinum Mine Prospecting in Mpumalanga, near Bethal for Anglo Platinum. 2011. (Digby Wells Environmental)
- Cultural Resources Pre-Assessment for proposed Platinum Mine at Mokopane, Limpopo for Ivanhoe Platinum. 2011. (Digby Wells Environmental)
- Phase 1 AIA Mixed-use housing Development, Kwanobuhle, Extension 11, Uitenhage, Eastern Cape. 2011.
- Phase 1 AIA Centane to Qholora and Kei River mouth road upgrade survey, Mnquma Municipality, Eastern Cape. 2011. (SRK Consulting)
- Phase 1 AIA Clidet Data Cable survey, Western Cape, Northern Cape, Free State and Eastern Cape. 2011. (SRK Consulting)
- Phase 1 AIA Karoo Renewable Energy Facility, Victoria West, Northern Cape. 2011. (Savannah Environmental)
- Phase 1 AIA Windfarm survey in Hamburg, Eastern Cape. 2010. (Savannah Environmental)
- Phase 1 AIA Windfarm survey in Molteno, Eastern Cape. 2010. (Savannah Environmental)
- Phase 1 AIA Housing Development at Motherwell, P.E. 2010. (SRK Consulting)
- Phase 1 AIA Sand quarry survey in Paterson, Eastern Cape. 2010. (SRK Consulting)
- Phase 1 AIA Quarry Survey at Victoria West. 2010. (Acer [Africa] Environmental Management Consultants)
- Phase 1 AIA Quarry Survey at Port Elizabeth. 2010. (E.P Brickfields)



4 PROFESSIONAL AFFILIATIONS

Association of Southern African Professional Archaeologists (ASAPA): Professional member

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