APPENDIX I

FOR GYPSUM INDUSTRIES IN RESPECT OF PROPOSED MINING AT ON THE FARMS ZEERUST AND SPRINGBOKSPOOR ARCHAEOLOGICAL IMPACT ASSESSMENT KRAANKUIL

PHASE I SURVEY: SPECIALIST INPUT

INTRODUCTION

Background to the project and this report is provided above.

west of Kimberley; and at Florisbad, to the north east, by Clarke, Kuman and Henderson (Clarke recently by Beaumont (eg. Beaumont & Morris 1990), based mainly on river-bank and pan sites stratigraphic relationships amongst local Pleistocene assemblages have been reassessed most 1985; Kuman and Clarke 1986; Henderson in prep.). Earlier, Middle and Later Stone Ages through Pleistocene and Holocene times. Typological and stone age sites (eg. The Northern Cape is renowned in the annals of South African archaeology for its wealth of Goodwin and van Riet Lowe 1929). These represent expressions of the

SETTING

they were on the occasion of our visit overlying Ecca shales. These sediments become waterlogged after good seasonal rains, as indeed The proposed mining area is within a large shallow pan system consisting of Cenozoic sediments

ARCHAEOLOGICAL OBSERVATIONS: 21 JANUARY 1997

preserved there The proposed mining area was traversed on foot to gauge the nature of archaeological traces

Stone Age (MSA). platforms and convergent dorsal scars. Lateral retouch occurs on some of the points noted this), mainly of estimated Pleistocene age. These included triangular flakes with facetted striking stone artefacts (at no point more than I artefact per square metre, and usually much less than Most of the surface areas we crossed were found to be veneered by a low to very low density of Typologically these artefacts, made on hornfels (lydiantite), are characteristic of the Middle

Prospecting pits, together with aardvark and porcupine burrows, afforded us the opportunity to

low densities within the pan sediment. assess sub-surface densities in the shallow soil. Our observations indicated the same low to Very

No bone or shell was noted

SIGNIFICANCE

western Free State. Material noted during our survey may derive from the pan margin banks and the margins of palaeo-lakes, swamps or pools, in the eastern part of this province and The stone age material found is similar to that to be found at comparable locales such as river

hearths. The site provides clues concerning the regional cultural succession. Henderson in prep.). At one of the MSA sites there bone is preserved, as also evidence of prevailed, a spring eye was the focus of human activities (Clarke 1985; Kuman & Clarke 1986; At Florisbad, in the western Free State, a site where exceptional preserving conditions have

lake and MSA occurrences might be in the region of 120 000 years BP (i.e. O-18 Stage 5e). here (Butzer et al. 1973) are problematic (Butzer 1983), and a more likely age for the palaeoelusive. Late Pleistocene radiocarbon dates initially given for sediments associated with MSA documented, and at some sites mixing of assemblages noted. Sealed primary MSA sites proved "Alexanders fontein Variant" of the MSA (Goodwin & van Riet Lowe 1929), subsequently reassessed by Butzer et al. (1973; 1983). Acheulean and Later Stone Age assemblages were also At Alexanders fontein/Maurits fontein outside Kimberley, J.H. Power collected the so-called

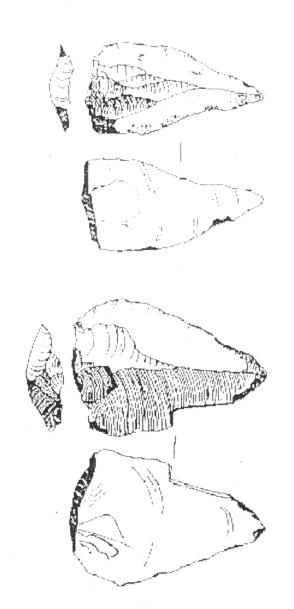
associated with calcified silts reckoned to have been deposited during O-18 Stage 5e, 120 000 years BP (Beaumont 1990). including Post-Howieson's Poort MSA and MSA1, and with classic Mossel Bay type points Sites along the Vaal River at Nooitgedacht give an indication of the regional succession

eg. in primary context and with associated bone, are thus of vital significance remains relatively poor at the regional scale. Sites of higher density and superior preservation Typological and stratigraphic resolution of MSA assemblages, based as yet on just a few sites.

RECOMNENDATIONS

artefact spreads are of limited research value. occasional Later Stone Age flakes, and their very low density means that as an assemblage these likely secondary derivation, possible mixing of more than one episode of MSA, and of representative of the kinds of archaeological materials found at other sites in the region. Their The artefacts thinly veneered across the "floor" at the proposed Kraankuil mining site are

would not be significant The impact of the proposed Kraankuil mining project on the archaeological resources of the area



Middle Stone Age artefacts from Kuman & Clarke's (1986: Fig 6) excavations at Florisbad, comparable to some of the material found during this survey.

REFERENCES

1990. Guide to archaeological sites in the Northern Cape. Kimberley: McGregor Museum. Beaumont, P.B. 1990. Pniel 6 (The Bend) [and other articles]. In Beaumont, P.B. & Morris, U

Southern Hemisphere, University of the Witwatersrand, 1983. change in southern Africa. International Symposium on Late Cainozoic Palaeoclimates in the SASQUA Summary Contributions: Workshop W1: Evidence for Late Quaternary climatic Butzer, K.W. 1983. Early Upper Pleistocene (undated) deposits at Alexandersfontein.

Lake, Alexanders fontein, Kimberley, South Africa. Nature 243:328-330. Butzer, K.W., Fock, G.J., Stuckenrath, R. & Zilch, A. 1973. Palaeohydrology of Late Pleistocene

Delson, E. (ed) Ancestors: the hard evidence. New York: Alan R. Liss. Clarke, R.J. 1985. A new reconstruction of the Florisbad cranium, with notes on the site. F

the South African Museum 27:1-289 Goodwin, A.J.H. & van Riet Lowe, C. 1929. The stone age cultures of South Africa. Annals of

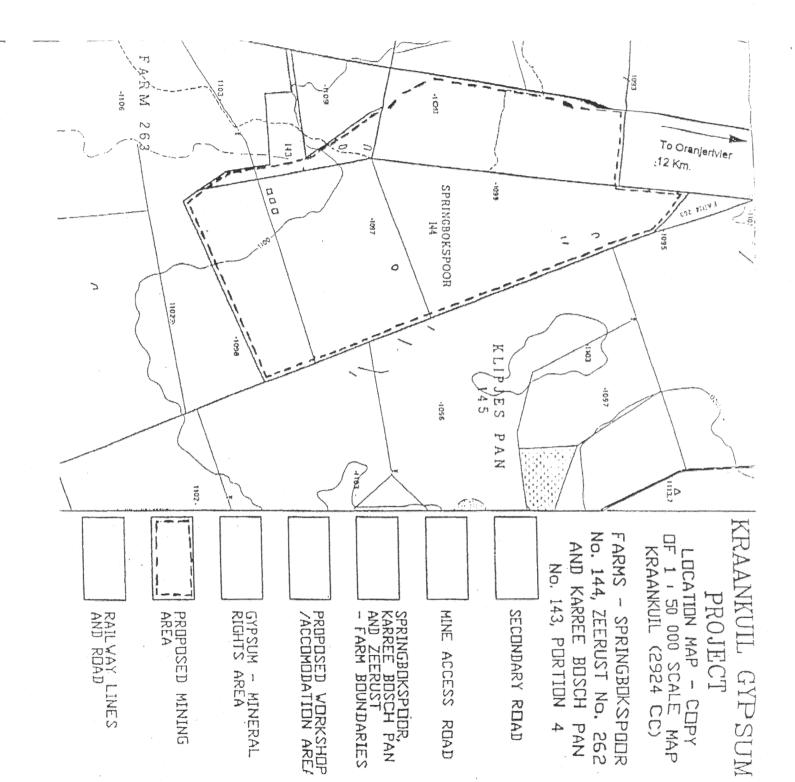
site in South Africa. Geoarchaeology: an International Journal 1(2):103-125 Kuman, K. & Clarke, R.J. 1986. Florisbad: new investigations at a Middle Stone Age hominid

David Morris

Department of Archaeology

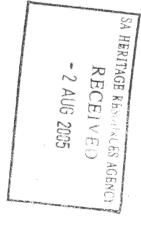
McGregor Museum, P.O. Box 316, Kimberley, 8300.

29 January, 1997



Map indicating the proposed mining area and servitude, Zeerust and Springbokspoor, Kraankuil Gypsum Project.





DEPARTMENT OF MINERALS AND ENERGY REPUBLIC OF SOUTH AFRICA

Private Bag X6093, Kimberley, 8300, Tel: (053) 8300 800, Fax: (053) 8325 631 43 Chapel Street, 1st Floor Standard Bank Building, Kimberley, 8301

From: Directorate: Mineral Development: Northern Cape Date: 26 July 2005

Ref: NC 30/5/1/1/3/2/1/(239) EM

Enquiries: Mr. N.A Tshivhandekano E-mail: aubrey.tshivhandekano@dme.gov.za

The Director
South African Heritage Resources Agency
PO Box 4637
CAPE TOWN
8000

Attention: MARY LEGLIE

APPLICANT: BPB Gypsum Pty Ltd MAGISTERIAL DISTRICT OF HOPETOWN, NORTHERN CAPE REGION SPRINGBOKSPOOR NO 144 AND PORTION 4 OF KAREE BOSCH PAN NO 143 IN THE CONSULTATION IN TERMS OF SECTION 40 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 2002, (ACT 28 OF 2002) FOR THE APPROVAL OF AN ENVIRONMENTAL MANAGEMENT PLAN IN RESPECT OF PORTION 1 OF

applicant, for your comments Attached herewith, please find a copy of an EMP received from the above-mentioned

may have in the case in hand to this office and to the applicant within 60 days as from Department will in that instance proceed with the finalisation thereof. It would be appreciated if you could forward any comments or requirements your Department Department has 26 July 2005 to 23 September 2005, failure of which will lead to the assumption that your no objection(s) or comments with regard to this application and

enquiries with regard to this application. Tshivhandekano of this office to make arrangements for a site inspection or for any other Consultation in this regard has also been initiated with other relevant State Departments. In attempt Ö expedite the consultation process please contact Mr. Aubrey

Your co-operation will be appreciated.

REGIONAL MANAGER: MINERAL DEVELOPMENT