

A.B.A (Tony) Brink Collection

On Engineering Geology

B26

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Short biography of Dr A.B.A. Brink

"Anthony Berrangé Antill Brink was born in 1927 in Pretoria. He completed his high school career at the Christian Brothers College and commenced his studies at the University of Pretoria, where he received his B.Sc. degree in Geology in 1948. His career commenced in 1949 at the National Building Research Institute (NBRI), a division of the CSIR, before moving to the UK for two years. From 1953, back in South Africa, he spent the next 50 years maintaining a balance between working as a private consultant and lecturing at a number of South Africa universities. Throughout, he maintained an active research interest and a steady stream of publications."

He received numerous awards and honours from 1979 to 2003 and was awarded a Doctorate in Engineering D.Ing. (honoris causa) by the Rand Afrikaans University (RAU) in recognition of his contribution to the profession of Civil Engineering.

Source: Spine of a dragon: contributions on ABA Brink (1927-2003), South Africa's pioneer of engineering geology compiled and edited by Johannes Haarhoff, 2006.

Collection summary:

Collection title: A.B.A (Tony) Brink Collection on Engineering Geology

Collection Number (Identifier): B26

Creator (Compiler, author): Dr A.B.A (Tony) Brink unless otherwise indicated

Language: English and Afrikaans

Dates: 1950 to 2003

Physical description /extent:

The bulk of the donation consists of engineering books and chapters from books; theses, newspaper clippings, correspondence, journal articles, miscellaneous materials, reports and conference proceedings.

There are also certificates, maps, photographs, artifacts and approximately 16002 slides. (Numbers on red stickers not taken into account).

The slides were scanned and an inventory was compiled by the Engineering Department (also available)

Access to collection: No restrictions. In-Library use only. Contact the University of Johannesburg Library: Special Collections at Doornfontein Campus. https://www.uj.ac.za/library/informationsources/special-collections/Pages/default.aspx

Prior arrangements are not necessary before coming to the Library; however, patrons from out of town are encouraged to communicate with the Library in advance of their visits to ascertain availability of materials.

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Acquisition information (provenance): The collection was donated to the Rand Afrikaans University (RAU) during 2004 & 2006 by Prof. Johannes Haarhoff.

Historical note: In 2005 RAU merged with VISTA University in Soweto and the Technikon Witwatersrand of Johannesburg to become the University of Johannesburg (UJ.)

Preferred citation: UJSC (University of Johannesburg Special Collections) B26 plus Folder name

Compiler of inventory: Kathy Brookes. Updated by Mrs Riette Zaaiman February 2018.

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1	Books - withdrawn and added to SBV3 collection Most books also available at Kingsway Libr	rary Level 4 for lending
1.1	Books written by A.B.A Brink	
1.1.1	Brink, A. B. A. 1974. Alphabetical list of farms in the Province of Transvaal. Pretoria: Surveyor-General's Office.	SBV3 636.01 SOUT (big book)
1.1.2	Brink, A. B. A. 1979. Engineering geology of Southern Africa: Volume 1, The first 2000 million years of geological time. Pretoria : Building Publications.	SBV3 624.1510 968 BRIN
1.1.3	Brink, A. B. A. 1981. Engineering geology of Southern Africa. Volume 2, Rocks of 2000 to 300 million years in age. Pretoria : Building Publications.	SBV3 624.1510 968 BRIN
1.1.4	Brink, A. B. A. 1983. Engineering geology of Southern Africa. Volume 3, The Karoo Sequence. Pretoria : Building Publications.	SBV3 624.1510 968 BRIN
1.1.5	Brink, A. B. A. 1985. Engineering geology of Southern Africa. Volume 4, Post-Gondwana deposits. Pretoria : Building Publications.	SBV3 624 1510 968 BRIN
1.1.6	A bound volume of the published books & papers of ABA Brink 1953 - 2003 (added later to collection)	SBV3 624.151 BRIN (big book)
1.2	Books by A.B.A Brink with other authors	
1.2.1	Brink, A. B. A & Partridge, T. C. 1963. Soil for South African students by South African students. Department of Geology, University of Witwatersrand, Johannesburg, South Africa.	SBV3 552.5089 BRIN
1.2.2	Brink, A. B. A, Partridge, T. C. & Williams, A. A. B. 1983. Soil survey for engineering. New York, USA : Oxford University Press.	SBV3 624.1517 BRIN
1.2.3	Brink, A.B.A & Partridge, T. C & Williams, A.A.B. 1982. Soil survey for engineering. Oxford : Claredon Press.	DFC 624.1517 BRI
1.3	Books by other authors	
1.3.1	Legget, R. F. 1973. Cities and geology. New York: McGraw-Hill.	SBV3 624.151 LEGG
1.3.2	Legget, R. F & Karrow, P. F. 1983. Handbook of geology in civil engineering. New York: Mc Graw-Hill.	SBV3 624.151 LEGG
1.3.3	Legget, R. F & Hatheway, A. W. 1988. Geology and engineering. New York: McGraw-Hill.	SBV3 624.15 LEGG
1.3.4	Haarhoff, Johannes (ed). 2006. Spine of a Dragon: contributes on ABA Brink 1927-2008: SA's pioneer of Engineering geology. (Added later to collection; not part of original donation.)	SBV3 624.151 BRIN HAAR

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2	Theses		
2.1	Brink, A. B. A. 1977. On the significance of stratigraphy in the prediction of the engineering behaviour of soils and rocks in Southern Africa. Pretoria : University of Pretoria (Doctoral theses).	SBV3 624.151 BR (big book)	RIN
2.2	De Beer, J. H. 1965. A detailed geological and soil map of the Johannesburg city area. Johannesburg : University of the Witwatersrand (M.Sc. theses).	Missing from UJ Spec Find at Wits: Cullen th DEB/QE 324 DEBc.2	
2.3	Pienaar, L. F. 1971. The relationship between surface features and subsidences in the dolomite of the far West Rand, volumes 1 & 2 . Johannesburg : University of the Witwatersrand. (M.Sc. theses).	SBV3 552.58 PIE (big books)	N
3	Chapters in Books	file 01	BOX 1
3.1	Brink, A. B. A. 1962. Recording soil profiles : the systematic description and interpretation of unconsolidated strata. Appendix 7 (In: Mason, R ed. Prehistory of the Transvaal: a record of human activity. Johannesburg: Witwatersrand University Press).	B26-01-01-01 3 copies	1
3.2	Brink, A. B. A. Rock formation and geology of South Africa. Chapter 3, pp. 31 – 54.	B26-01-01-02	
3.3	Brink, A. B. A, Martini, J & Partridge, T. C. Geology and geomorphology. Theme II, pp. 29 – 40.	B26-01-01-03	
4	Newspaper clippings (some sources could not be identified) PERSONAL - FAMILY	file 02	BOX 1
4.1	De Aar: Vandag na 270 miljoen jaar.	B26-01-02-01	
4.2	Hunger strike 'not due to prison conditions'. R.D.M. May 16, 1960 (copy & original).	B26-01-02-02	
4.3	Protest marches in Pretoria. The Star. May 19, 1960 (copy & original)	B26-01-02-03	
4.4	Release them was their silent plea. R.D.M. May 19. 1960 (copy & original)	B26-01-02-04a	
4.5	Pressmen held with Pretoria jail pickets. May 1960. (copy only).	B26-01-02-04b	1
4.6	Your servant may be a spy. R.D.M (copy & original).	B26-01-02-05	1
4.7	Pressmen held outside jail. May 20, 1960 (copy & original).	B26-01-02-06a	
4.8	Says hunger strike is genuine. May 20. 1960 (copy & original).	B26-01-02-06b	
4.9	Families of Pretoria detainees have had regular relief. Pretoria News. July 23, 1960 (copy & original).	B26-01-02-07	
4.10	Why imply that all who stay are 'traitors'. R.D.M. June 15 (copy & original).	B26-01-02-08	

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4.11	Ex-Liberal chief may enter politics in Australia. The Star, Johannesburg, July 18, 1961 (copy & original).	B26-01-02-09	
4.12	Treated his solitary confinement as a 'retreat'. Southern Cross. May 18, 1960 (copy & part of original).	B26-01-02-10	
4.13	To Mr. Brink Australia look wonderful (copy & original).	B26-01-02-11a	1
4.14	Not fed on communist propaganda. May 20, 1960 (copy & original).	B26-01-02-11b	
4.15	La Gratitude. Cape Times. Nov 26/21 (copy & original).	B26-01-02-11c	
5	Correspondence		1
5.1	Letter from A.E Johnson to A.B.A Brink, 06 September 1983. Comments on Engineering Geology of Southern Africa, vol 3 errors and A.B.A Brink reply.	B26-01-02-12	
5.2	Correspondence between A.B.A. Brink & J.F. Wolmarans re photographs of sinkholes in the Wonderfonteinspruit valley at Venterspost, 23 December 1981 and 5 January 1982.	B26-01-02-13	1
5.3	Correspondence between A.B.A. Brink & J.E.J. Martini re photographs of the Wonderfontein Cave	B26-01-02-14	
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6.1	Articles written by A.B.A Brink		
6.1.1	Brink, A. B. A. May 1950. The engineering geology of the Vereeniging area. <i>National Building Research Institute, Bulletin</i> 4.	B26-01-03-01	
6.1.2	Brink, A. B. A. September 1950. Foundations on expansive clays: Report on the stratigraphic profile of a test-pit at St. Helena Gold Mine, OFS <i>National Building Research Institute, Bulletin,</i> 5, pp.1 - 7.	B26-01-03-02	1
6.1.3	Brink, A. B. A. 1955. The genesis and distribution of expansive soil types in South Africa. <i>The Transactions of the South African Institute of Civil Engineers, vol.</i> 5 no 9 & 12, pp.267 – 437.	B26-01-03-03	
6.1.4	Brink, A. B. A. 1962. Airphoto interpretation applied to soil engineering mapping in South Africa. Reprinted from Photo-Interpretation Delft 1962. [<i>International Archives of Photogrammetry,</i> vol. 14, pp. 498 – 506.]	B26-01-03-04	
6.1.5	Brink, A. B. A. 1966. Sinkholes in the Transvaal Dolomites. SAFUES, vol.1, no. 5, pp. 31 – 44.	B26-01-03-05	

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6.1	continued: Articles written by A.B.A Brink		1
6.1.6	Brink, A. B. A. 1994. Development on the PWV's Dolomite? <i>Civil Engineering</i> vol. 64 no.1 - 5, pp. 15.	B26-01-03-06	
6.1.7	Brink, A. B. A. June 1999. Geology of Gauteng. <i>Trees in South Africa</i> , vol.48 parts 1–4, pp. 24 – 34.	B26-01-03-07	
6.1.8	Brink, A. B. A. 1999. A tribute to Desmond Cawood Biggs. <i>Trees in South Africa</i> , vol.48 parts 1–4, p.51.	B26-01-03-08	1
6.1.9	Brink, A. B. A. The record of life in the strata of Southern Africa.	B26-01-03-09	
6.1.10	Brink, A. B. A. [1953] The role of the geologist and the geophysicist in civil engineering. (2 copies)	B26-01-03-09	
6.2	Articles by A.B.A Brink with other authors		
6.2.1	Brink, A. B. A, Jennings, J. E & Quinlan, J. F. 1969. Catastrophic sinkholes in an urban area of South Africa; origin and detection of development. <i>The NSS (National Speleological Society) Bulletin</i> , vol. 31 no. 2, pp. 48. Abstract only.	B26-01-04-01	1
6.2.2	Brink, A. B. A. Jennings, J. E & Williams, A. B. A. 1973. Revised guide to soil profiling for civil engineering purposes in Southern Africa. <i>The Civil Engineer in South Africa: Transactions of the South African Institution of Civil Engineers</i> , vol. 5 no.1, pp. 3 – 13. Reference only	B26-01-04-02	1
6.2.3	Brink, A. B. A & Kantey, B. A. December 1952. Laboratory criteria for the recognition of expansive soils. <i>National Building Research Institute, Bulletin</i> , vol. 9, pp. 25 – 28.	B26-01-04-03	1
6.2.4	Brink, A. B. A, Knight, K & Mason, R.J. 1959. Archaeology : Pleistocene climatic significance of Calcretes and Ferricretes. <i>Nature</i> , vol. 184 (Jul – Dec), pp. 568.	B26-01-04-04	1
6.2.5	Brink, A.B.A, Mallows, E.W.N and Partridge, T.C. 1973. Morphological classification and mapping as a basis for development planning. <i>South African Geological Journal</i> , vol. 55 no.1, pp. 69 - 80.	B26-01-04-05	1
6.2.6	Brink, A. B. A, Mathews, G. B and Partridge, T. C. 1970. Airphoto interpretation in Terrain evaluation. <i>Photo Interpretation,</i> vol. 5 no. 3 – 4, Sept - Oct 1970, pp. 15 - 23.	B26-01-04-06	

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6.2	continued: Articles written by A.B.A Brink with other authors		1
6.2.7	Brink, A. B. A & Partridge, T. C. December 1965. Transvaal Karst: Some considerations of development and morphology, with special reference to sinkholes and subsidences on the Far West Rand. <i>The South African Geographical Journal</i> , vol. 49, pp. 21 – 38.	B26-01-04-07	1
6.2.8	Brink, A. B. A, Partridge, T. C and Wood, C. K. 1993. Priorities for Urban Expansion within the PWV Metropolitan Region: The Primary of Geotechnical Constraints. <i>The South African Geographical Journal</i> , vol. 75 no.1, pp. 9 – 13.	B26-01-04-08	1
6.2.9	Brink, A. B. A, Stoch, E. J, Swart, C. J. U & Van Jaarveld, C. F. 2003. The lower Wonderfontein Spruit: an expose. <i>Environmental Geology</i> , vol. 43, pp. 635 – 653.	B26-01-04-09	1
6.2.10	Brink, A. B. A & Kantey, B. A. Collapsible grain structure in Residual granite soils in Southern Africa.	B26-01-04-10	1
6.2.11	Brink, A. B. A & Morgan, D. J. T. The far West Rand dolomites. pp. 1 – 20.	B26-01-04-11	
6.3	Articles written by other authors		1
6.3.1	Allen, W & Crawhall, J. S. 1937. Shaft sinking in dolomite at Venterspost. <i>Journal of the Chemical, Metallurgical and Mining Society of South Africa.</i>	B26-01-05-01	1
6.3.2	Jennings, J. E. B. 1954. Housing for the urban Bantu – a problem in whole engineering. <i>The South African Institution of Civil Engineers</i> , pp. 165 – 190.	B26-01-05-02	1
6.3.3	Jennings, J. E. B. 1954. Housing for the urban Bantu – a problem in whole engineering. <i>The South African Institution of Civil Engineers</i> , pp. 369 – 384.	B26-01-05-03	1
6.3.4	Malan, B. D and Cooke, H. B. S. March 1962. The contribution of C. Van Riet Lowe to prehistory in Southern Africa. <i>South African Archaeological Society Bulletin</i> , vol. 17 no. 65, pp. 37 – 84.	B26-01-05-04	1
6.3.5	Manton, W. I. 1965. The orientation and origin of shatter cones in the Vredefort ring. <i>Annals of the New York Academy of Sciences</i> , vol. 123, pp. 1017 – 1049. See also 8.5.4	B26-01-05-05	

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6.3	continued Articles written by other authors		
6.3.6	Partridge, T. C. 1964. A middle Stone Age and Iron Age site at Waterval, North West of Johannesburg. <i>South African Archaeological Bulletin, vol.</i> XIX no.76 Part IV, December, pp. 102 – 110.	B26-01-05-06	1
6.3.7	Book review: Engineering Geology of Southern Africa, vol 3: The Karoo Sequence by A.B.A. Brink March 1984. Geological Society of South Africa. Quarterly News Bulletin, vol. 28 no.1, pp. 57-58.	B26-01-05-07	1
6.3.8	Professional News. 1978. Congratulations to Dr Brink for obtaining his doctorate. <i>Public works and transport</i> , pp 20-23.	B26-01-05-08	1
6.3.9	Haarhoff, J and Korf, L. July 2008. Tony Brink: Baanbreker van Suid-Afrikaanse Ingenieursgeologie. <i>Civil Engineering</i> , p 2-7 NOTE: Afrikaans article (shortened). Added to collection at a later stage.	B26-01-05-09	1
6.3.10	Haarhoff, Johannes & Korf, Lindie. Junie 2007. A.B.A. Brink: Baanbreker van Suid-Afrikaanse Ingenieursgeologie. Die Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie, 26 (2): 139-150 NOTE: Afrikaans article. Typed version. Added to collection at a later stage.	B26-01-05-10	1
6.3.11	Book review written by A.B.A. Brink: <i>Bespreking van "Die onstaan van Panne in Suid-Afrika" deur O.R. van Eeden.</i> TEGNIKON Jaargang VIII Julie 1955, Deel II, p.235. Article included in the same publication on p. 206-214 NOTE: Afrikaans article and review.	B26-01-05-11	1
7	Miscellaneous material		Box 1
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7.1.2	Article published in <i>SAICE AND PROFESSIONAL NEWS</i> , December 2000. Photograph of Tony Brink & Ross Parry-Davis at the Heritage Day Tribute to Thomas Bain	B26-01-06-02	
7.2 7.2.1	Notes Notebook with hand-written notes on Soil Mechanics: based on lecturers given by Dr Karl Terzaghi, February 1936, 160 pages.	B26-02-01	Box 2
7.2.2	Notebook with hand-written notes on Soil Mechanics, with typed notes: written by J.E Jennings: Graduate House M.I.T, Cambridge in the Civil Engineering class lectured by Prof. G Gilboy. October 1937, 249 pages.	B26-02-02	
7.2.3	Notebook with notes on different aspects of Geomorphology (e.g. wind, ground water, landscape development, dams, mass western, swell), 1969.	B26-02-03	

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8.1	Reports an	nd proceedings of II African Regional Conference on Soil Mechanics and Foundation, Engineering. Lourenço Marques: 26 th October - 1 st November 1959	File 07	Box 3
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	<u>Paper 17:</u>	Stabilization of an Aeolian Sand By C.P. van der Merwe	B26-03-07-0412	
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	By G.D. Wall (Central Roads Laboratory) <u>Paper 32:</u> Roads Constructed on Embankments through Areas with Clayey Soils to Great Depths By Gustavo Constantino da Natividade	B26-03-07-0426	
8.2	Reports & Proceedings by A.B.A. Brink/ Brink and others	File 08	Box 3
8.2.1	Brink, A. B. A. 1964. Symposium on Soil Engineering Mapping convened by the Division of Soil Mechanics and Foundation Engineering of the South African Institution of Civil Engineers. Hartebeespoort Dam, Transvaal: 9-12 September 1964.	B26-03-08-01	
8.2.2	Brink, A. B. A & Williams, A. A. B. 1964. Soil engineering mapping for roads in South Africa. Pretoria: CSIR. Research Report 227, pp.1 – 30.	B26-03-08-02	
8.2.3	Brink, A. B. A, et al. 1965. Sinkholes and subsidence in the Transvaal Dolomite of South Africa. (In: Proceedings on Soil Mechanics. International Conference (6 th : 1965: Canada). Canada; pp. 51 – 54).	B26-03-08-03	
8.2.4	Brink, A. B. A. 1967. Terrain Evaluation. (In: Africa on Soil Mechanics & Foundation Engineering. Regional Conference (4 th : 1967: Cape Town). Cape Town: pp. 1-4).	B26-03-08-04	3
8.2.5	Brink, A. B. A, et al. 1989. Appropriate methods of engineering geological evaluation for rapid urbanization in developing countries. (In: International Geological Congress (28 th : 1989: Washington). Washington, DC, 11 pages).	B26-03-08-05	
8.2.6	Brink, A. B. A. 1991. Geology of Southern Africa. (In: Geotechnics in the Africa environment: proceedings on the tenth Regional Conference for Africa on Soil Mechanics & Foundation Engineering and the third International Conference on Tropical & Residual Soils, Maseru, 23 – 27 September 1991). Rotterdam: Balkema. pp. 459-465.	B26-03-08-06	

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8.2	(continued) Reports and proceedings by A.B.A. Brink/Brink & others	File 08	Box 3
8.2.7	Brink, A. B. A & Partridge, T. C. (ed.) 1965. Proceedings of the 2 nd Symposium on Soil Engineering Mapping and Data Storage convened by the Division of Soil Mechanics and Foundation Engineering of the South African Institution of Civil Engineers. Magaliesberg, Transvaal: 12-15 December 1965. 55 p	B26-03-08-07	3
8.2.8	Brink, A. B. A & Williams, A. A. B. 1977. The description and interpretation of the soil profile for engineering purposes and mapping. (In: Proceedings. Soil Science Society of Southern Africa (7 th : Conference,1977: Pretoria). pp 13-23).	B26-03-08-08	5
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	Afrikaans. Dorpstigting en ander ontwikkeling in gebiede waar dolomiet voorkom. B.T. Roelofsz	B26-03-09-022	
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8.4.2	Correspondence, programme and personal notes on a Seminar on the Evaluation of Dolomitic Areas, University of Pretoria: 24 May 1985. Afrikaans. The purpose is stated as an opportunity to add material to be used for the proposed <i>Guidelines for Development on Dolomite</i> by the Joint Sub Committee of the Geotechnical Division of SAICE and SAIEG.	B26-04-09-09	4
8.4.3	Programme of the Seminar on the Engineering Geological Evaluation of Sites on Dolomite, University of Pretoria, 7 September 1987.	B26-04-09-10	4
8.4.4	Letter from the Sub Committee: Guidelines for Development on dolomite. Invite to a forum for discussion on standardization of reporting requirements, evaluation parameters and terminology on the 3 rd of February 1989. Attached: The perspective of the Geological Survey on the establishment of the Geological Unit for Applied Studies on Dolomite.	B26-04-09-11	4
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8.5.2	Brink, Tony. Man - The ultimate invader of planet earth. Archimedes 33:2, May 1991. p26-31	B26-04-10-02	
8.5.3 8.5.3.1	Grant, K. 1968. Proceedings of the Study Tour and Symposium on Terrain Evaluation for Engineering Included: MAPS of AUSTRALIA Boulia [Map]. Scale 1:250,000. Australia. 1968. 1 map : col. ; 70 x 56 cm. (Refer to this map as: SF 54-10:	B26-04-10-03	4
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8.5.3.8	Mount ISA [Map]. Scale 1:250,000. Australia: Crown. 1968. 1 map : col. ; 70 x 65 cm. (Refer to this map as: SF 54-1: edition 1 Series R 502).		
8.5.3.9	Mackunda, Queensland, Australia [Map]. Grant, K. Terrain patterns, Scale 1:250,000. Soil Mechanics Section. CSIRO. 1968. 1 map : col. ; 80 x 56 cm.		4
8.5.4	Hargraves, R. B. 1961. Shatter cones in the rocks of the Vredefort ring. Proceedings of the Geological Society of South Africa, vol. LXIV, pp. 147 – 161.	B26-04-10-04	4
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8.5.7	A Classification System for Terrain: Descriptions of two land systems in Swaziland (MEXE No 1024). England: Military Engineering Experimental Establishment May 1967. Including Air photographs 048 & 049; 173 & 174	B26-04-10-07	4
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