



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

ENVIRONMENTAL AUTHORISATION

ENVIRONMENTAL AUTHORISATION IN TERMS OF REGULATION 24 OF THE NATIONAL ENVIRONMENTAL
MANAGEMENT ACT OF 1998: ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014

IN RESPECT OF

THE PROPOSED EXPLORATION OF HYDROCARBONS ON VARIOUS FARMS WITHIN THE DISTRICT
MUNICIPALITIES OF LEJWELEPUTSWA AND FEZILE DABI, FREE STATE PROVINCE

APPLICATION DETAILS

Application Reference Number	12/3/315
Holder of Environmental Authorisation	Motuoane Energy (Pty) Ltd
Location of the Activity	Various farms in the District Municipalities of Lejweleputswa and Fezile Dabi, Free State Province
Size of the application area	149 377 ha

This authorization does not negate the holder of the authorisation, responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the proposed activity.

DECISION ON ENVIRONMENTAL AUTHORISATION

The Department is satisfied, on the basis of the information made available to it, and subject to compliance with the conditions of this Environmental Authorisation and the requirements of the Environmental Impact Report, that the applicant should be authorized to undertake the proposed activities as specified below.

ACTIVITIES AUTHORISED

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the Environmental Impact Assessment Regulations, 2014 ("EIA Regulations") the Department hereby grants environmental authorisation to **Motuoane Energy (Pty) Ltd** to undertake activities specified in Section 3 below and as described in the Environmental Impact Report and Environmental Management Programme (EIR&EMPR).

The granting of this authorisation is subject to compliance with conditions specified under section 5 below.

1. DETAILS OF THE HOLDER OF THIS ENVIRONMENTAL AUTHORISATION

Motuoane Energy (Pty) Ltd
38 Fouche Terrace
Morninghill
Bedfordview
2007

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2. DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

Environmental Impact Management Services (Pty) Ltd
Block 5 Fernridge Office Park
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Ferndale
Randburg

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3. LIST OF ACTIVITIES AUTHORISED

The following activities as listed under EIA Regulations, 2014: Government Notice No. R 984 of 04 December 2014 are authorised:

Activity Number:	12
Applicable Regulation:	EIA Regulations, 2014: GNR 985
Listed Activity:	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>(a) In Free State Province (i) within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the application of such a list, within an area that has been identified as a critically endangered in the National Spatial Biodiversity Assessment; (ii) within critical biodiversity areas identified in bioregional plans; (iii) within the littoral active zone or 100 metres inland from high water mark of the sea or estuarine functional zone, whichever distance is greater, excluding where such removal will occur behind the development setback line or even in urban areas; or (iv)</p>

on land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning.

Activity Number: 18
Applicable Regulation: EIA Regulations, 2014: GNR 984
Listed Activity: Any activity including the operation of that activity which requires an exploration right as contemplated in section 79 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including associated infrastructure, structures and earthworks.

Activity Number: 27
Applicable Regulation: EIA Regulations, 2014: GNR 983
Listed Activity: The clearance of an area of 1 hectare or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for – (i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan.

The holder of this authorisation is authorized to conduct the following activities within the area described under section 4:

3.1 Non-invasive exploration activities:

3.1.1 Background data collection and data management which entails:

Identification of existing boreholes, and where emitting boreholes are identified, gas pressure and flow rate will be measure, samples collected and analysed; analysis of existing geological data, magnetic data and cores; and consultation with directly affected landowners in preparation for invasive exploration activities.

3.1.2 Geological and geophysical logging which entails:

Analysis of core samples for the presence of hydrocarbons as well as the determination of the physical properties of the rocks; and integration of geological logging and surface structures data into maps.

3.2 Invasive exploration activities

3.2.1 Geotechnical and soil sampling:

Soil sampling which entails the removal of small sections of the soil profile using a soil augur which is 75 mm in diameter, at depths of between 15 and 30 centimetres on average. The duration of the sampling will be short term, i.e. it may take days to weeks to complete.

3.2.2 Diamond core drilling:

Drilling of up to 3 wells; the first of the 3 wells will be drilled in the vicinity of the existing blower in the area of interest in order to obtain more data on the geology and potential hydrocarbons. The drilling of the two wells, including their locations will depend on the results of the first well. The surface footprint of each well pad is approximately 30m x 30m in extent and the total footprint area for all 3 sites will be 0.27 ha.

4. LOCATION AND DESCRIPTION OF THE APPLICATION AREA

The proposed exploration area covers various farms and farm portions near Hennenman town in the Free State Province, extending north, from approximately Theunissen, north east towards Kroonstad and east of Virginia and Hennenman. The said farms and farm portions are within the District Municipalities of Lejweleputswa and Fezile Dabi (see appendix 2 concerning the affected farm properties). The application area is approximately 149 377 hectares in extent.

5. CONDITIONS OF THE ENVIRONMENTAL AUTHORISATION

5.1 SCOPE OF AUTHORISATION

5.1.1 The holder is authorised to undertake the following exploration activities as outlined in the EIR:

5.1.1.1 Non-invasive operations: Background data collection and data management and geological and geophysical logging,

5.1.1.2 Geochemical and soil sampling, and

5.1.1.3 Drilling of up to 3 diamond core wells.

5.1.2 The authorised activities must only be carried within the application area specified under section 4 above and appendices 2 and 3.

- 5.1.3 The holder of this environmental authorisation (hereafter referred to as the Holder) is responsible for ensuring compliance with the conditions of this environmental authorisation, and recommendations made in the Environmental Impact Assessment and Environmental Management Programme Report (EIR/EMPR) dated 30th of January 2017.
- 5.1.4 Any person(s) acting on behalf of the holder, inclusive of contractor(s), subcontractor(s), consultant, and employee are also subject to the conditions of this authorisation. This condition however does not exonerate the holder from its accountability and responsibility to ensure compliance with the conditions of this environmental authorisation.
- 5.1.5 Any changes to, or deviations from, and amendments to the proposed activities, conditions of this authorisation, and recommendations in the EIR/EMPR must be approved, in writing, by the Department before such changes, deviations or amendments are effected. The Department reserves the right to request the submission of information deemed necessary to assess and evaluate the significance and impacts of such changes, deviations and amendments before such changes, deviations and amendments are authorised or not. Any changes, deviations and amendments may be subject to the provisions of Chapter 5 of the EIA Regulations, 2014 pertaining to the amendments of the environmental authorisation and EMPR.
- 5.1.6 This environmental authorisation does not absolve the holder from complying with any other statutory obligations that may be applicable to the proposed activities.
- 5.1.7 The holder of this authorisation must apply for an amendment of this authorisation in the case of a change of ownership or transfer rights and obligation.

5.2 NOTIFICATION AND APPEAL OF AUTHORISATION

- 5.2.1 The holder must, in writing, within fourteen (14) days of the date of this authorisation, notify all registered interested and affected parties (I&APs) of the outcome of the application.
- 5.2.2 The notification contemplated above must, amongst other issues:
- 5.2.2.1 Stipulate the date of the decision, and the date of issue of the environmental authorisation.
 - 5.2.2.2 Provide reasons for the decision, included in Appendix 1 of this environmental authorisation.

- 5.2.2.3 Inform registered I&APs of the appeals procedure provided for in terms of the National Environmental Management Act, 1998: National Appeals Regulations (GNR 993 of 08 December 2014).
- 5.2.2.4 Draw the attention of the I&APs to the manner in which they may access the decision, including obtaining the copy of the authorisation.

5.3 COMMENCEMENT OF THE ACTIVITY(S)

- 5.3.1 This authorisation will only be effective in the event that an application for exploration right is granted in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002). None of the activities listed in this EA and authorised activities may therefore commence without an exploration right.
- 5.3.2 The authorised activities shall not commence within 20 days of the date of this authorisation, pending potential lodgement of appeal(s).
- 5.3.3 Where an appeal is lodged against the decision by any party, the environmental authorisation or any provision or condition of the environmental authorisation will be suspended in accordance with section 43(7) of the National Environmental Management Act, 1998; and as such you may not commence with any activity, unless authorised in writing by the competent authority and/or the decision on the appeal has been taken.
- 5.3.4 A thirty (30) day written notice must be given to the Petroleum Agency SA prior to the commencement of any of the authorised exploration activities.
- 5.3.5 The authorised activities must commence within a period of 3 years from the date of issue of this authorisation. If commencement of the authorised activities does not occur within the said period, the authorisation lapses. Where the holder still intends undertaking the authorised activity(s), a new application for authorisation in terms of the EIA Regulations, 2014 must be obtained.
- 5.3.6 Any requests for extension of the commencement date of this authorisation should be lodged with the competent authority before the expiry of the environmental authorisation in accordance with amendments to Regulation 28 (1) of EIA Regulations, 2014.

5.4 MANAGEMENT, MONITORING AND AUDITING OF OPERATIONS INCLUDING REPORTING REQUIREMENTS

MANAGEMENT OF THE ACTIVITY

- 5.4.1 The Environmental Management Programme (EMPR) submitted with the Environmental Impact Assessment Report (EIR) is hereby approved. It is hence mandatory for the holder to implement all recommendations and management measures stipulated in the EMPR throughout all the phases of the proposed exploration activities.
- 5.4.2 Any non-compliance with the EMPR constitutes non-compliance with this environmental authorisation, and any non-compliance with this authorisation may result in its suspension and may render the holder guilty of an offence in terms of section 49A of NEMA and may, if convicted, be liable for penalties contemplated in section 49B (1) of NEMA.
- 5.4.3 Should there be changes in the operation and management of the authorised activities, the EMPR must be amended to accommodate those changes and submitted to the competent authority for approval before implementation takes place.
- 5.4.4 The holder of the authorisation must implement necessary measures to ensure that operators, contractors and subcontractors have full awareness of the recommendations on the EMPR before commencing with any authorised activity.
- 5.4.5 The EMPR must be included in all contractual documentation entered thereto between the holder and contractor(s).
- 5.4.6 A copy of the EMPR must be kept on site at all times.
- 5.4.7 The holder must, before the commencement of the authorised activities, appoint an independent and experienced Environmental Control Officer (ECO) who will ensure that the conditions of this authorisation and provisions of the EMPR are implemented and adhered to.
- 5.4.8 The holder of this authorisation must submit weekly and monthly environmental monitoring reports during drilling operations and any other planned invasive activities on site. Furthermore, the holder is required to submit an environmental audit report annually which must be carried out by an independent and qualified environmental assessment practitioner and such must evaluate compliance with the conditions of this EA and provisions of the EMPR, in line with Appendix 7 of the EIA Regulations, 2014.
- 5.4.9 The holder of this authorisation must keep all records relating to monitoring and auditing and make them available for inspection to any relevant and competent authority in respect of this development.

5.4.10 All documentation e.g. audit/monitoring/compliance and notifications, must be submitted to the designated Agency in terms of this authorisation.

5.5 SPECIFIC CONDITIONS

5.5.1 The holder of the EA or the appointed ECO must, within 30 days prior to the commencement of the authorised exploration activities, distribute notifications to all affected land owners informing them of the operational plans. The said notification must include amongst other issues the following:

5.5.1.1 Site establishment, commencement date, including duration of the proposed activities;

5.5.1.2 Sketch plan showing the operational area(s);

5.5.1.3 Details of the ECO; and

5.5.1.4 Procedure to lodge complaints and any environmental issues arising from the operations.

5.5.2 The holder of the EA must ensure that any potential impact on the environment is avoided, minimized and prevented. In this regard, all mitigation measures specified in the EIR and EMPR aimed at protecting environmentally sensitive areas, surface and groundwater resources and surrounding communities during the undertaking of the proposed exploration activities must be implemented. Failure thereof may constitute non-compliance and an offence, and may result in the implementation of necessary enforcement measures provided for under the NEMA.

5.5.3 The holder of this authorisation must obtain land use and access agreements prior to the commencement of the proposed activities. Furthermore, in order to avoid conflict of interests with the current land-use activities, the applicant must consult on an ongoing basis with the affected surface landowners and keep them informed of the project development.

5.5.4 Contamination of soil, surface and groundwater shall be prevented at all times; in this regard, proper containment measures must be implemented onsite at all times. Furthermore, hazardous and general wastes materials must be disposed of at licensed landfill sites.

5.5.5 Surface and groundwater monitoring programmes submitted with the EIR must be implemented during and post exploration drilling operations.

- 5.5.6 Emergency incidents must be addressed and reported to the Petroleum Agency SA in accordance with section 30 of NEMA. In addition, the holder is required to notify the Petroleum Agency SA within 24 hours of the occurrence of an emergency incident.
- 5.5.7 Surface and groundwater, ecology, air quality and noise, wetlands and aquatic ecology and waste management programme must be implemented during and post exploration drilling operations.
- 5.5.8 The holder of the authorisation must annually assess the environmental liabilities of the operations and submit a financial provision review report in terms of the requirements of section 24P of NEMA and Regulations Pertaining to the Financial Provisions for Prospecting, Exploration, Mining or Production Operations (GN R 1147 of 20 November 2015).
- 5.5.9 The holder of this authorisation must undertake a formal wetland delineation within the proposed drilling locations in order to properly determine the boundaries of wetlands, channels and riparian areas prior to the commencement of drilling operations.
- 5.5.10 Drilling fluids and muds to be used must strictly be biodegradable and water-based. The holder is required to submit Material Safety Data Sheets for drilling fluids at least 60 days before drilling commences.
- 5.5.11 Wastewater produced during drilling operations must be stored in above ground storage containers or tanks, and must be disposed appropriately at completion of the drilling operations.
- 5.5.12 Sites with poor vegetation cover and disturbed by agricultural and mining activities shall be selected as target sites for drilling activities in order to minimize vegetation and habitat loss.
- 5.5.13 The finalization of drilling positions must be selected in conjunction and with the recommendations of a qualified Heritage Assessment Practitioner, Geohydrologist and Ecologist.
- 5.5.14 Buffer zones recommended in the EMPr for the protection of heritage sites, archeological sites and environmentally sensitive areas must be adhered to during drilling operations.
- 5.5.15 The holder is required to undertake progressive rehabilitation during operations. In this regard, plugging of boreholes must be done in accordance with the Regulations for Petroleum Exploration and Production, 2015.
- 5.5.16 All recommended mitigation measures included in the EIR/EMPR dated 30 January 2017 are deemed to be the conditions of the EA and must therefore be adhered to.

5.6 GENERAL

- 5.6.1 A copy of the EA and the EMPR must be kept onsite to ensure appropriate implementation of the mitigation measures.
- 5.6.2 The Department shall not be responsible for any damages or losses suffered by the holder in an instance where the operation is temporarily stopped for reasons of non-compliance with the conditions as set out herein.
- 5.6.3 In view of the above, and having taken into consideration environmental management principles as set out in section 2 of NEMA, and information presented in the EIR and EMPR, and subject to compliance with conditions of the EA and recommendations of the EMPR, the Department is satisfied that the proposed activities will not be in conflict with the objectives of the Integrated Environmental Management set out in Chapter 5 of NEMA and will not result in any detrimental risks to the environment and public. The EA is accordingly granted.



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SEIPATI SILVIA DHLAMINI

ACTING DEPUTY DIRECTOR-GENERAL: MINERAL REGULATION

DATE OF THE EA: 21/09/2017

APPENDIX 1

REASONS FOR DECISION

1. Information considered in making the decision

All the information presented to the Petroleum Agency SA was taken into account in reaching the decision. The information considered include amongst others -

- 1.1 The provisions of Chapter 5 of the NEMA which relates to the Integrated Environmental Management and section 2 NEMA principles, the EIA Regulations, 2014 and other relevant NEMA regulations and guidelines.
- 1.2 The Scoping report dated 15 August 2016.
- 1.3 The information contained in the EIR dated 30 January 2017.
- 1.4 The Environmental Management Programme (EMPR) submitted with the EIR.
- 1.5 The results of the Public Participation Process submitted with EIR dated 30 January 2017 which highlighted issues, objections and concerns raised by various I&APs and responses by the EAP.
- 1.6 Comments received from various State Departments i.e. Department of Rural Development and Land Reform, and Department of Water and Sanitation, and State Organs i.e. Transnet, Eskom, South African Heritage Resource Agency, and South African National Roads Agency Limited included in the EIR/EMPR dated 30 January 2017.
- 1.7 Specialist reports namely:
 - Ecology and Wetlands by David Hoare Consulting cc dated 01 November 2016;
 - Geohydrology by Exigo dated 31 October 2016; and
 - Heritage by Professional Grave Solution (Pty) Ltd dated 13 November 2016.

2. Submission and Consideration of the Scoping Report

In line with Regulation 21(1) of the EIA Regulations, 2014, the applicant submitted a scoping report within 44 days from the date of receipt of the application for environmental authorisation i.e. on the 15 August 2016. The scoping report was considered and evaluated in accordance with the requirements of Regulations 21 and 22, and appendix 2 of the EIA Regulations, 2014, and was duly accepted (with conditions) on the 22 September 2016 based on the following:

- 2.1 The scoping report was subjected to a public consultation process for a 30 days period and incorporated comments received from interested and affected parties, the competent authority

(Petroleum Agency SA in this regard), state departments administering laws relating matters affecting the environment and organs of states.

2.2 In addition, the public consultation process carried out adhered to the requirements of Regulations 41 and 44 of the EIA Regulations. In this regard, interested and affected parties were notified of the application through various means such as onsite notices, newspaper advertisements, and correspondences (letters/emails).

2.3 The scoping report contained information set out in Appendix 2 of the EIA Regulations and in this regard, relevant policies and legislation were identified; the need and desirability of the proposed project motivated and asserted, alternatives identified, environmental attributes associated with the proposed activity(s) identified and assessed, impacts and risks identified and assessed and suitable mitigation measures proposed; and key issues to be addressed in EIA phase identified.

3. Submission of the Environmental Impact Assessment Report (EIR) and Environmental Management Programme (EMPR)

3.1 Regulation 23(1) (a) and (b) requires the applicant to submit:

- (a) an environmental impact report (EIR) inclusive of any specialist reports, and an EMPR within 106 days, which must have been subjected to a public consultation process of at least 30 days and reflects incorporation of comments received;
- (b) a notification in writing that the EIR and an EMPR will be submitted within 156 of the acceptance of the scoping report by the competent authority.

3.2 The EIR, inclusive of specialist reports, and an EMPR were received by the Petroleum Agency SA within the prescribed submission date i.e. the 30 January 2017. The said reports were subjected to a public consultation process of 30 days and included comments received from interested and affected parties.

4. Consideration of the EIR and EMPR

Regulation 18 requires the competent authority to take into consideration section 24(O) and 24(4) of the Act when considering the application for EA, the need for desirability of undertaking the proposed activity, any guideline published in terms of section 24J of the Act. Regulation 23(3) further provides that the EIR must contain all information set out in Appendix 3 and must address the requirements as determined in the regulations pertaining to the financial provisions for rehabilitation, closure and post closure of

operations; and Regulation 23(4) requires the EMPR to contain all information set out in Appendix 4 of the EIA Regulations.

The EIR and EMPR were assessed taking into consideration the aforementioned requirements, and the key significant issues that resulted in the Department's decision are set out as follows:

- 4.1 In terms of the need and desirability of the project, where proposed exploration activities become successful, long term benefits would include promotion of access to other sources of energy, contribution to South Africa's energy needs and thus energy security.
- 4.2 The public consultation process undertaken by the EAP which includes notifying and registering interested and affected parties, advertising the proposed project, subjecting Scoping and EIR reports to a 30 day commenting period, consulting with various states departments and organs of states, and addressing comments received from all interested and affected parties was in line with the requirements of EIA Regulations, 2014 and related guidelines.
- 4.3 The Environmental Impact Assessment process as prescribed by the EIA Regulations, 2014 was adhered to by the EAP and this includes identification and assessment of the applicability of relevant legislation, guidelines and policies. The undertaken process is deemed satisfactory.
- 4.4 The environmental attributes associated with the proposed activities were clearly identified; and the potential impacts on biophysical, cultural/heritage and socio-economic environment were identified and assessed.
- 4.5 The mitigation measures to address all identified environmental impacts during all phases of the proposed exploration activities were recommended and aligned with identified impacts.
- 4.7 The profile and details of the EAP with respect to the qualifications and experience in environmental impact assessments and related projects has given confidence in the EAP's ability and competence to carry out the EIA process.
- 4.8 Three (3) alternatives were identified as follows:
 - a. Alternative 1: "No Go Alternative", which implies that no exploration activities will take place and that the environment remains unchanged and unaltered;
 - b. Alternative 2: "Maximum Exploration Extent", which places emphasis on exploration activities with less restrictive mitigation measures to be implemented to protect the environment, thus allowing for unrestricted exploration; and
 - c. Alternative 3: "Sensitivity Planning Approach", which put emphasis on protection of natural resources and use of stringent mitigation measures to minimise identified adverse impacts. The alternative in question will use sensitivity planning approach and thereby utilizes the consolidated

sensitivity map as a planning tool in order to avoid impacting on sensitive environmental features.
This is a preferred and acceptable alternative for the proposed exploration activities.

4.9 The EIR dated 30 January 2017 identified all legislation and guidelines that have been considered in the preparation of the EIR.

5. Key Findings

Careful consideration of information and factors listed in sections 1 and 2 above have thus resulted in the following conclusions:

5.1 All fundamental and procedural requirements prescribed in the applicable legislation have been satisfied.

5.2 The identification and assessment of potential impacts of the activity, including cumulative impacts, was adequately undertaken, and the proposed mitigation and management measures are aligned with potential impacts. Furthermore, the majority of the potential impacts associated with the planned exploration activities would be of low significance post mitigation. The impacts will be short term and localized.

5.3 The total footprint area of disturbance will be localized and on a small scale as only 0.27 ha of the total area of 149 377 ha will be disturbed.

5.4 The public consultation process undertaken by the EAP adhered to the minimum requirements as prescribed under Chapter 6 'Public Participation' of the EIA Regulations, 2014 and related guidelines. The following were the key findings:

5.4.1 All objections and concerns related to the proposed activities were satisfactorily addressed by the EAP and in addition, mitigation measures to address all potential impacts have been included in the EMPR. It is thus our view that the EAP has complied with the requirements as outlined in Chapter 6 of the EIA Regulations, 2014.

5.4.2 Objections and concerns related to future activities, i.e. the potential impact on water resources with respect to quality and quantity due to the use of hydraulic fracturing method and associated activities. The EAP tried to provide clarity that the application in question does not include unconventional exploration techniques but it is for conventional exploration to obtain core samples.

5.5 No deviations requested from certain requirements of Regulation 41 of Government Notice No. R. 982 were received by the Department.

5.6 The findings of the site visit:

- The site visit was undertaken on 21 April 2017 and it focused on the farms where potential drilling of exploration wells will be undertaken, including farm Nooitgedatch RE/245 where the first borehole will be drilled.
- The area targeted for drilling the first well is already disturbed by agricultural activities i.e. crop farming and lives stock grazing.

6. Conclusion

In view of the above, and having taken into consideration environmental management principles as set out in section 2 of NEMA, and information presented in the EIR and EMPR, and subject to compliance with conditions of the EA and recommendations of the EMPR, the Department is satisfied that the proposed activities will not be in conflict with the objectives of the Integrated Environmental Management set out in Chapter 5 of NEMA and will not result in any detrimental risks to the environment and public. The environmental authorisation is accordingly granted.



SEIPATI SILVIA DHLAMINI

ACTING DEPUTY DIRECTOR-GENERAL: MINERAL REGULATION

DATE OF THE EA: 21/09/2017

APPENDIX 2

AFFECTED FARM PROPERTIES

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
KROONSTAD	ZEELAND	8	0	WINBURG	PIETER'S GIFT	1890	0
KROONSTAD	BEUKESKUIL	9	0	WINBURG	PIETER'S GIFT	1890	1
KROONSTAD	BEUKESKUIL	9	2	WINBURG	PIETER'S GIFT	1890	2
KROONSTAD	BEUKESKUIL	9	3	WINBURG	PIETER'S GIFT	1890	3
KROONSTAD	GELUK	14	1	WINBURG	KLIPFONTEIN	1925	0
KROONSTAD	GELUK	14	2	WINBURG	KLIPFONTEIN	1925	1
KROONSTAD	COWIE SIDING	35	0	WINBURG	ZAMBOKLAAGTE	1927	0
KROONSTAD	NOOITGEDACHT	39	1	WINBURG	EUREKA	2101	0
KROONSTAD	NOOITGEDACHT	39	3	WINBURG	LARYNA	2243	0
KROONSTAD	NOOITGEDACHT	39	4	WINBURG	LARYNA	2243	1
KROONSTAD	NOOITGEDACHT	39	5	WINBURG	LENA	2252	0
KROONSTAD	OSHOEK	47	0	WINBURG	DE PLAISANTE	2278	0
KROONSTAD	OSHOEK	47	1	WINBURG	BLOEMHOF	2354	0
KROONSTAD	OSHOEK	47	2	WINBURG	ROSA	2361	0
KROONSTAD	GENEVERPUT	57	0	KROONSTAD	BOSCHPLAAT	330	3
KROONSTAD	GENEVERPUT	57	1	KROONSTAD	BOSCHPLAAT	330	4
KROONSTAD	GENEVERPUT	57	2	KROONSTAD	MARTHINUS RUST	333	0
KROONSTAD	VICTORIA SPRUIT	71	0	KROONSTAD	CIJFERGAT	345	0
KROONSTAD	MORGENROOD	72	0	KROONSTAD	KLEIN-ROODEKOP	404	0
KROONSTAD	LA PORTE VASE	77	0	KROONSTAD	CLONGOWNA	500	0
KROONSTAD	ZAMENLOOP	79	0	KROONSTAD	CLONGOWNA	500	1
KROONSTAD	ZAMENLOOP	79	1	KROONSTAD	GROOTKUIL	526	0
KROONSTAD	HOLFONTEIN	88	0	KROONSTAD	BAASKOP	547	0
KROONSTAD	HOLFONTEIN	88	1	KROONSTAD	BAASKOP	547	1
KROONSTAD	WELVERDIEND	92	0	KROONSTAD	IRENE	548	0
KROONSTAD	WELVERDIEND	92	1	KROONSTAD	IRENE	548	1
KROONSTAD	WELVERDIEND	92	2	KROONSTAD	MERIBA	582	0
KROONSTAD	WELVERDIEND	92	3	KROONSTAD	KROONSPRUIT	588	0
KROONSTAD	WELVERDIEND	92	4	KROONSTAD	KROONSPRUIT	588	1
KROONSTAD	WELVERDIEND	92	5	KROONSTAD	KROONSPRUIT	588	2
KROONSTAD	PLATBERG	119	0	KROONSTAD	BOSCHJESSPRUIT	589	0
KROONSTAD	SMALDEEL	202	0	KROONSTAD	ZUURKLOOF	592	0
KROONSTAD	SMALDEEL	202	1	KROONSTAD	ZUURKLOOF	592	1
KROONSTAD	PATTERSON'S NURSERY	221	0	KROONSTAD	ZUURKLOOF	592	2
KROONSTAD	GOLIATHSKRAAL-NOORT	224	0	KROONSTAD	MIERKATFONTEIN	601	0
KROONSTAD	BLOEMENTUIN	238	0	KROONSTAD	RONDAVEL	627	0
KROONSTAD	BOTHA'S RUST	276	0	KROONSTAD	RONDAVEL	627	1
KROONSTAD	BOTHA'S RUST	276	1	KROONSTAD	SCHEVENINGEN	636	0
KROONSTAD	KRANSSPRUITORD	292	0	KROONSTAD	SCHEVENINGEN	636	1
KROONSTAD	KRANSSPRUITORD	292	1	KROONSTAD	LEEUWSPRUIT	659	0
KROONSTAD	KRANSSPRUITORD	292	2	KROONSTAD	LEEUWSPRUIT WEST	666	0
KROONSTAD	KRANSSPRUITORD	292	3	KROONSTAD	LEEUWSPRUIT WEST	666	2
KROONSTAD	KRANSSPRUITORD	292	4	KROONSTAD	LEEUWSPRUIT WEST	666	3
KROONSTAD	KRANSSPRUITORD	292	5	KROONSTAD	AVONDSOON	698	0
KROONSTAD	KRANSSPRUITORD	292	6	KROONSTAD	FONTEIN	706	0
KROONSTAD	KRANSSPRUITORD	292	7	KROONSTAD	FONTEIN	706	1
KROONSTAD	KRANSSPRUITORD	292	8	KROONSTAD	LUSTHOF	707	0
KROONSTAD	ROODEKOP	309	0	KROONSTAD	LUSTHOF	707	2
KROONSTAD	SLANGFONTEIN	310	0	KROONSTAD	LUSTHOF	707	6
KROONSTAD	SLANGFONTEIN	310	1	KROONSTAD	LUSTHOF	707	9
KROONSTAD	VOGELSTRUIS-FONTEIN	311	0	KROONSTAD	LUSTHOF	707	10
KROONSTAD	VOGELSTRUIS-FONTEIN	311	1	KROONSTAD	MAASDORP	725	0
KROONSTAD	VOGELSTRUIS-FONTEIN	311	2	KROONSTAD	BRAKLAAGTE	737	0
KROONSTAD	WOLVEKOP	314	0	KROONSTAD	BRAKLAAGTE	737	1
KROONSTAD	BRAKFONTEIN	315	0	KROONSTAD	BRAKLAAGTE	737	2
KROONSTAD	BRAKFONTEIN	315	1	KROONSTAD	BRAKLAAGTE	737	3
KROONSTAD	ONGEGUND	321	0	KROONSTAD	KRANSSPRUIT ZUID	811	0
KROONSTAD	TOCHGEKREGEN	323	0	KROONSTAD	KRANSSPRUIT ZUID	811	1
KROONSTAD	BOSCHPLAAT	330	0	KROONSTAD	SCHOOL SITE	815	0
KROONSTAD	BOSCHPLAAT	330	1	KROONSTAD	SCHOOL SITE	815	1
KROONSTAD	BOSCHPLAAT	330	2	KROONSTAD	SCHOOL SITE	815	2
KROONSTAD	WILGEBOOM	900	2	KROONSTAD	PYDNA	828	0
KROONSTAD	ROSEBANK	903	0	KROONSTAD	PYDNA	828	1
KROONSTAD	ROSEBANK	903	1	KROONSTAD	TREBIA	830	0
KROONSTAD	ROSEBANK	903	2	KROONSTAD	BRAKPUT	832	0
KROONSTAD	OLIFANTSHOEK	904	0	KROONSTAD	BRAKPUT	832	1

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
KROONSTAD	OLIFANTSHOEK	904	1	KROONSTAD	BRAKPUT	832	2
KROONSTAD	OLIFANTSHOEK	904	2	KROONSTAD	DELOS	883	0
KROONSTAD	OLIFANTSHOEK	904	3	KROONSTAD	DELOS	883	1
KROONSTAD	OLIFANTSHOEK	904	4	KROONSTAD	DELOS	883	2
KROONSTAD	OLIFANTSHOEK	904	5	KROONSTAD	PLANTATION EAST	891	0
KROONSTAD	OLIFANTSHOEK	904	8	KROONSTAD	PLANTATION WEST	892	0
KROONSTAD	OLIFANTSHOEK	904	9	KROONSTAD	LERNA	894	0
KROONSTAD	OLIFANTSHOEK	904	10	KROONSTAD	WILGEBOOM	900	0
KROONSTAD	OLIFANTSHOEK	904	11	KROONSTAD	WILGEBOOM	900	1
KROONSTAD	PATRIJSDRAAI	906	1	KROONSTAD	HIGHLANDS	1154	0
KROONSTAD	ZOETSPRUIT	908	0	KROONSTAD	HIGHLANDS	1154	1
KROONSTAD	KLEINTJE	909	0	KROONSTAD	ROCKET	1155	0
KROONSTAD	ARBITER	932	0	KROONSTAD	GEDULD	1156	0
KROONSTAD	MOOIDRAAI	953	0	KROONSTAD	GEDULD	1156	1
KROONSTAD	BALLAST GAT	960	0	KROONSTAD	GEDULD	1156	2
KROONSTAD	BLOEMPLAATS	967	0	KROONSTAD	MOED	1157	0
KROONSTAD	PLATELAYER'S COTTAGE	980	0	KROONSTAD	MOED	1157	1
KROONSTAD	ENEVA SPOORWISSELIN	985	0	KROONSTAD	MOED	1157	2
KROONSTAD	ENEVA SPOORWISSELIN	985	1	KROONSTAD	MOED	1157	3
KROONSTAD	ENEVA SPOORWISSELIN	985	2	KROONSTAD	ANNEX	1158	0
KROONSTAD	SCHORPIOEN	991	0	KROONSTAD	ANNEX	1158	1
KROONSTAD	SCHORPIOEN	991	1	KROONSTAD	WONDERBOOM	1182	0
KROONSTAD	RUSTBANK	992	0	KROONSTAD	BOSCHRAND SIDING	1196	0
KROONSTAD	RUSTBANK	992	1	KROONSTAD	ZWART-KOPJE	1205	0
KROONSTAD	TWEEDOORNS	993	0	KROONSTAD	ZWART-KOPJE	1205	2
KROONSTAD	TWEEDOORNS	993	1	KROONSTAD	MIDDLESLOPE	1327	0
KROONSTAD	POMPOENLAAGTE	994	0	KROONSTAD	ARBITRATIE	1341	0
KROONSTAD	POMPOENLAAGTE	994	1	KROONSTAD	ARBITRATIE	1341	3
KROONSTAD	AFDEELING	995	0	KROONSTAD	ARBITRATIE	1341	4
KROONSTAD	SCHORPIOEN	999	0	KROONSTAD	ARBITRATIE	1341	5
KROONSTAD	SCHORPIOEN	999	1	KROONSTAD	ARBITRATIE	1341	6
KROONSTAD	HOOFDRECHTER KOTZE	1000	0	KROONSTAD	ERFDEEL	1381	0
KROONSTAD	PLATELAYERS COTTAGE	1047	0	KROONSTAD	WATERLOO	1383	0
KROONSTAD	ERFDEEL	1049	0	KROONSTAD	RONDAVEL-NOORD	1475	0
KROONSTAD	ONVERWACHT	1066	0	KROONSTAD	EERSTE GELUK	1595	0
KROONSTAD	SPES BONA	1099	0	KROONSTAD	FRANCINA	1597	0
KROONSTAD	SPES BONA	1099	1	KROONSTAD	FRANCINA	1597	1
KROONSTAD	WONDERBOOM	1100	0	KROONSTAD	FRANCINA	1597	2
KROONSTAD	WACHTPLAATS	1101	0	KROONSTAD	FRANCINA	1597	3
KROONSTAD	WACHTPLAATS	1101	1	KROONSTAD	STEENBOKPAN	1598	0
KROONSTAD	KOMMETJE DAM	1102	0	KROONSTAD	STEENBOKPAN	1598	1
KROONSTAD	KOMMETJE DAM	1102	1	KROONSTAD	RETIEF	1641	0
KROONSTAD	WILGENHOF	1103	0	KROONSTAD	RETIEF	1641	1
KROONSTAD	UITVAL	1104	0	KROONSTAD	RETIEF	1641	2
KROONSTAD	GOEDGEKEURD	1105	0	KROONSTAD	RETIEF	1641	3
KROONSTAD	MIDDELBULT	1106	0	KROONSTAD	RETIEF	1641	4
KROONSTAD	VLAKSPUIT	1120	0	KROONSTAD	RETIEF	1641	5
KROONSTAD	VLAKSPUIT	1120	1	KROONSTAD	RETIEF	1641	6
KROONSTAD	MOOIDAM	1122	0	KROONSTAD	ERFDEEL	1642	0
KROONSTAD	GROOTSPRUIT	1123	0	KROONSTAD	ERFDEEL	1642	1
KROONSTAD	RIETGAT	1124	1	KROONSTAD	ERFDEEL	1642	2
KROONSTAD	WESSELIA	1132	0	KROONSTAD	ERFDEEL	1642	3
KROONSTAD	WESSELIA	1132	1	KROONSTAD	ERFDEEL	1642	4
KROONSTAD	WESSELIA	1132	2	KROONSTAD	ERFDEEL	1642	5
KROONSTAD	DANKBAAR	1150	0	KROONSTAD	ERFDEEL	1642	6
KROONSTAD	VLAKDAM	1152	0	KROONSTAD	TIERBERG	1643	0
KROONSTAD	GESUKKEL	1153	0	KROONSTAD	TIERBERG	1643	1
KROONSTAD	GESUKKEL	1153	1	KROONSTAD	TIERBERG	1643	2
KROONSTAD	MAUBEUGE	1716	0	KROONSTAD	TIERBERG	1643	3
KROONSTAD	MAUBEUGE	1716	1	KROONSTAD	DYSSSELSDRIFT	1644	0
KROONSTAD	AMIENS	1717	0	KROONSTAD	BLOEMHOEK	1645	0
KROONSTAD	OSTEND	1719	0	KROONSTAD	BLOEMHOEK	1645	1
KROONSTAD	OSTEND	1719	1	KROONSTAD	ESTHER	1646	0
KROONSTAD	YPRES	1720	0	KROONSTAD	ESTHER	1646	1
KROONSTAD	SPES BONA	1724	0	KROONSTAD	MOLTKE	1647	0
KROONSTAD	SPES BONA	1724	1	KROONSTAD	MOLTKE	1647	1

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
KROONSTAD	SPES BONA	1724	2	KROONSTAD	MULTATULI	1648	0
KROONSTAD	GOOD HOPE	1736	0	KROONSTAD	MULTATULI	1648	1
KROONSTAD	GOOD HOPE	1736	1	KROONSTAD	MOOILAAGTE	1665	0
KROONSTAD	CORK	1779	0	KROONSTAD	VOORNIET	1671	0
KROONSTAD	ANTRIM	1780	0	KROONSTAD	FAIRVIEW	1681	0
KROONSTAD	ANTRIM	1780	4	KROONSTAD	MOOIDEEL	1683	0
KROONSTAD	BOOMPLAATS	1810	0	KROONSTAD	ONVERWACHT	2294	0
KROONSTAD	ANNEX	1811	0	KROONSTAD	ONVERWACHT	2294	1
KROONSTAD	STEYNSRUST	1812	0	KROONSTAD	NOOITGEDACHT	2295	0
KROONSTAD	ONTEVREDE	1813	0	KROONSTAD	BOTHASRUS	2317	1
KROONSTAD	WESSELSRUST	1816	0	KROONSTAD	UITKOMS	2397	0
KROONSTAD	ZAAIPLAATS	1817	0	KROONSTAD	BURGER	2398	0
KROONSTAD	SALIE	1837	0	KROONSTAD	NELLIE'S RUST	2400	0
KROONSTAD	SALIE	1837	1	KROONSTAD	UITZICHT	2408	3
KROONSTAD	WANGANELLA	1849	0	KROONSTAD	UITHOEK	2411	0
KROONSTAD	UITKIJK	1850	0	KROONSTAD	POORLEGGERS WONIN	2427	0
KROONSTAD	UITKIJK	1850	1	KROONSTAD	AANGEHEG	2428	0
KROONSTAD	ERFPACHT	1852	0	KROONSTAD	AANGEHEG	2428	1
KROONSTAD	ERFPACHT	1852	1	KROONSTAD	AANGEHEG	2428	2
KROONSTAD	SPIRO	1900	0	KROONSTAD	HOLFFONTEIN SIDING	2429	0
KROONSTAD	GOEDEHOOP	1948	0	KROONSTAD	RUST OORD	2431	0
KROONSTAD	OOSTBLOEM	1980	0	KROONSTAD	SENTIMENT	2432	0
KROONSTAD	WESTBLOEM	1981	0	KROONSTAD	SENTIMENT	2432	1
KROONSTAD	GOUDRAND	2042	0	KROONSTAD	HERINNERING	2433	0
KROONSTAD	GOUDRAND	2042	1	KROONSTAD	HERINNERING	2433	1
KROONSTAD	KLEINHANSRUST	2043	0	KROONSTAD	HERINNERING	2433	2
KROONSTAD	KLEINHANSRUST	2043	1	KROONSTAD	VREDE	2434	0
KROONSTAD	EENSGEVONDEN	2044	0	KROONSTAD	VREDE	2434	1
KROONSTAD	DAVIDSFONTEIN	2045	0	KROONSTAD	WONDERWATER	2435	0
KROONSTAD	ISTEVREDE	2046	0	KROONSTAD	WONDERWATER	2435	1
KROONSTAD	ISTEVREDE	2046	1	KROONSTAD	CUPIDO	2437	0
KROONSTAD	VADERSDEEL	2047	0	KROONSTAD	HOOGVELD	2439	0
KROONSTAD	KLEIN GELUK	2088	0	KROONSTAD	HOOGVELD	2439	1
KROONSTAD	KAALPAN	2115	0	KROONSTAD	HOOGVELD	2439	2
KROONSTAD	KAALPAN	2115	2	KROONSTAD	HOOGVELD	2439	3
KROONSTAD	GRACE	2116	0	KROONSTAD	HOOGVELD	2439	4
KROONSTAD	MIDDELPUNT	2133	0	KROONSTAD	HOOGVELD	2439	5
KROONSTAD	LUSTVLEI	2136	0	KROONSTAD	EENDOORN	2440	0
KROONSTAD	ALWYNSRUST	2137	0	KROONSTAD	BRAKVLEI OOST	2441	0
KROONSTAD	BELLE VUE	2196	0	KROONSTAD	BRAKVLEI	2442	0
KROONSTAD	BELLE VUE	2196	1	KROONSTAD	MOOIPLAATS	2443	0
KROONSTAD	BELLE VUE	2196	2	KROONSTAD	WELKOM	2444	0
KROONSTAD	LB	2197	0	KROONSTAD	LEKKERLEVEN	2445	0
KROONSTAD	LB	2197	1	KROONSTAD	JOHANNESRUST	2446	0
KROONSTAD	ALBERTHA	2198	0	KROONSTAD	JOHANNESRUST	2446	1
KROONSTAD	ALBERTHA	2198	1	KROONSTAD	RONDEBULT	2447	0
KROONSTAD	HERMANUS	2224	0	KROONSTAD	RONDEBULT	2447	1
KROONSTAD	AI-AI	2226	0	KROONSTAD	GROENKOL	2448	0
KROONSTAD	FEATHERSTONE SIDING	2261	0	KROONSTAD	JOHANNASRUST	2449	0
KROONSTAD	GREENLANDS	2265	0	KROONSTAD	RIETSPRUIT	2450	0
KROONSTAD	GREENLANDS	2265	1	KROONSTAD	RIETSPRUIT	2450	1
KROONSTAD	GREENLANDS	2266	0	KROONSTAD	DEELWATER	2451	0
KROONSTAD	THORNLANDS	2287	0	KROONSTAD	TURFFONTEIN	2452	0
KROONSTAD	GOEIE HOOP	2289	0	KROONSTAD	TURFFONTEIN	2452	2
KROONSTAD	EXCELSIOR	2293	0	KROONSTAD	AANSLUITING	2453	0
KROONSTAD	ELANDSRAND	2466	7	KROONSTAD	ZAAIPLAATS	2454	0
KROONSTAD	ELANDSRAND	2466	8	KROONSTAD	ENKELPAN	2455	0
KROONSTAD	ELANDSRAND	2466	9	KROONSTAD	VERDIEN	2456	0
KROONSTAD	ELANDSRAND	2466	10	KROONSTAD	VERDIEN	2456	1
KROONSTAD	ELANDSRAND	2466	11	KROONSTAD	RIETFFONTEIN	2457	0
KROONSTAD	ELANDSRAND	2466	12	KROONSTAD	RIETFFONTEIN	2457	1
KROONSTAD	MIDDELPLAAS	2471	0	KROONSTAD	RIETFFONTEIN	2457	2
KROONSTAD	MIDDELPLAAS	2471	1	KROONSTAD	PALMIETKUIL	2458	0
KROONSTAD	MIDDELPLAAS	2471	4	KROONSTAD	WELTEVREDE	2459	0
KROONSTAD	MIDDELPLAAS	2471	5	KROONSTAD	ELANDSRAND	2466	0
KROONSTAD	GOLIATHSKRAAL	2472	0	KROONSTAD	ELANDSRAND	2466	2

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
KROONSTAD	DORINGHOEK	2478	0	KROONSTAD	ELANDSRAND	2466	3
KROONSTAD	DORINGHOEK	2478	1	KROONSTAD	ELANDSRAND	2466	4
KROONSTAD	DORINGHOEK	2478	3	KROONSTAD	ELANDSRAND	2466	6
KROONSTAD	DORINGHOEK	2478	4	ODENDAALSRUS	MORGEN RUST	24	4
KROONSTAD	ROOIKOPJES	2481	0	ODENDAALSRUS	MORGEN RUST	24	6
KROONSTAD	ROOIKOPJES	2481	1	ODENDAALSRUS	MORGEN RUST	24	7
KROONSTAD	ROOIKOPJES	2481	3	ODENDAALSRUS	MORGEN RUST	24	9
KROONSTAD	ROOIKOPJES	2481	4	ODENDAALSRUS	STILLEWONING	34	0
KROONSTAD	ROOIKOPJES	2481	5	ODENDAALSRUS	STILLEWONING	34	1
KROONSTAD	ROOIKOPJES	2481	6	ODENDAALSRUS	LEEUWKUIL	41	0
KROONSTAD	ROOIKOPJES	2481	7	ODENDAALSRUS	EENSGEVONDEN	44	0
KROONSTAD	GOOD HOPE	2493	0	ODENDAALSRUS	EENSGEVONDEN	44	1
KROONSTAD	MIDDELSPRUIT	2495	0	ODENDAALSRUS	EENSGEVONDEN	44	2
KROONSTAD	MIDDELSPRUIT	2495	1	ODENDAALSRUS	DE RUST	49	0
KROONSTAD	EBENHAZER	2501	0	ODENDAALSRUS	DE RUST	49	1
KROONSTAD	MOOI TOEKOMS	2514	0	ODENDAALSRUS	LANGKUIL	66	1
KROONSTAD	MOOI TOEKOMS	2514	1	ODENDAALSRUS	MOOIVLAKTE	106	0
KROONSTAD	TOWERWATER	2515	0	ODENDAALSRUS	MOOIVLAKTE	106	1
KROONSTAD	TOWERWATER	2515	1	ODENDAALSRUS	NIEUWJAARBOSCH	113	0
KROONSTAD	VLEISSENTRAAL	2518	0	ODENDAALSRUS	NIEUWJAARBOSCH	113	1
KROONSTAD	VLEISSENTRAAL	2518	1	ODENDAALSRUS	PETRA	157	0
KROONSTAD	VLEISSENTRAAL	2518	2	ODENDAALSRUS	LUSTHOF	158	0
KROONSTAD	VLEISSENTRAAL	2518	3	ODENDAALSRUS	WELTEVREDEN	171	0
KROONSTAD	VLEISSENTRAAL	2518	4	ODENDAALSRUS	SCHOTLANDORD	178	0
KROONSTAD	WELGELEGEN	2541	0	ODENDAALSRUS	BLIJDSCHAP	218	0
KROONSTAD	DANKBAARHEID	2548	0	ODENDAALSRUS	NOOITGEDACHT	245	0
KROONSTAD	UTRECHT	2556	0	ODENDAALSRUS	NOOITGEDACHT	245	1
KROONSTAD	STAINER'S RUST	2557	0	ODENDAALSRUS	GROOTSPRUIT	252	0
KROONSTAD	KROMHOEK	2561	0	ODENDAALSRUS	HARMONIA	282	0
KROONSTAD	KROMHOEK	2561	1	ODENDAALSRUS	PIETERSDEEL	284	0
KROONSTAD	OSLAAGTE	2564	0	ODENDAALSRUS	PIETERSDEEL	284	1
KROONSTAD	TEMESVAR	2565	0	ODENDAALSRUS	ENKELDOORN	314	0
KROONSTAD	GOLIATHSKRAAL-NOORD	2571	0	ODENDAALSRUS	BLYDSCHAP	318	0
KROONSTAD	L'ESPERANCE	2590	0	ODENDAALSRUS	ONGEGUND	321	0
KROONSTAD	GOLIATHSKRAAL	2591	0	ODENDAALSRUS	ONGEGUND	321	1
ODENDAALSRUS	PARADIJS	23	0	ODENDAALSRUS	ANAS	327	0
ODENDAALSRUS	PARADIJS	23	1	ODENDAALSRUS	ERFENIS	328	0
ODENDAALSRUS	PARADIJS	23	2	ODENDAALSRUS	ALBERTINA	339	0
ODENDAALSRUS	PARADIJS	23	3	ODENDAALSRUS	EENZAAM	352	0
ODENDAALSRUS	PARADIJS	23	4	ODENDAALSRUS	EENZAAM	352	1
ODENDAALSRUS	PARADIJS	23	6	ODENDAALSRUS	EENZAAM	352	2
ODENDAALSRUS	PARADIJS	23	7	ODENDAALSRUS	EENZAAM	352	3
ODENDAALSRUS	PARADIJS	23	8	ODENDAALSRUS	ONVERWACHT	355	0
ODENDAALSRUS	PARADIJS	23	9	ODENDAALSRUS	MELKKRAAL	458	0
ODENDAALSRUS	PARADIJS	23	10	ODENDAALSRUS	MELKKRAAL	458	4
ODENDAALSRUS	PARADIJS	23	11	ODENDAALSRUS	LUKHANYISO	459	17
ODENDAALSRUS	PARADIJS	23	12	ODENDAALSRUS	LUKHANYISO	459	18
ODENDAALSRUS	PARADIJS	23	15	ODENDAALSRUS	LUKHANYISO	459	19
ODENDAALSRUS	MORGEN RUST	24	0	ODENDAALSRUS	LUKHANYISO	459	20
ODENDAALSRUS	MORGEN RUST	24	1	ODENDAALSRUS	LUKHANYISO	459	21
ODENDAALSRUS	MORGEN RUST	24	2	THEUNISSEN	WOLVGATEN	15	0
ODENDAALSRUS	MORGEN RUST	24	3	THEUNISSEN	EMMAUS	18	1
THEUNISSEN	TEVREDE	210	0	THEUNISSEN	BADFONTEIN	35	0
THEUNISSEN	BOSRAND	228	0	THEUNISSEN	AFRIKANER OORD	80	0
THEUNISSEN	LOUTER BRONNEN	250	2	THEUNISSEN	AFRIKANER OORD	80	1
THEUNISSEN	KARREEBOOMS VALLEI	258	1	THEUNISSEN	AFRIKANER OORD	80	2
THEUNISSEN	KARREEBOOMS VALLEI	258	2	THEUNISSEN	AFRIKANER OORD	80	3
THEUNISSEN	KARREEBOOMS VALLEI	258	4	THEUNISSEN	AFRIKANER OORD	80	4
THEUNISSEN	DE POORTJE	259	1	THEUNISSEN	AFRIKANER OORD	80	5
THEUNISSEN	DE BAD	288	0	THEUNISSEN	AFRIKANER OORD	80	6
THEUNISSEN	SPES BONA	290	0	THEUNISSEN	OSSFONTEIN	111	0
THEUNISSEN	SPES BONA	290	1	THEUNISSEN	KLIPRUG	116	0
THEUNISSEN	SPES BONA	290	2	THEUNISSEN	KLIPRUG	116	1
THEUNISSEN	DAGBREEK	306	0	THEUNISSEN	TWEEFONTEIN	141	0
THEUNISSEN	BERLIN	319	0	THEUNISSEN	HELMINA	161	0
THEUNISSEN	MEYER'S HOF	337	0	THEUNISSEN	GOEDE MOED	162	0

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
THEUNISSEN	GANGERS COTTAGE	350	0	VENTERSBURG	ROOIHEUVEL	57	0
THEUNISSEN	MADELEINE	380	0	VENTERSBURG	ZANDDRAAI	58	0
THEUNISSEN	DE WETS KRAAL	411	0	VENTERSBURG	PROTEST	63	0
THEUNISSEN	CECILIA	412	0	VENTERSBURG	BOOMPLAATS	68	0
THEUNISSEN	ALTONA	442	0	VENTERSBURG	BOOMPLAATS	68	1
THEUNISSEN	OSSPRUIT	448	0	VENTERSBURG	ESCHOLTZIA	70	0
THEUNISSEN	BRANDHOEK	465	0	VENTERSBURG	BEGINSEL	75	0
THEUNISSEN	POORTJIE	488	0	VENTERSBURG	WAGEENBETJIE	76	0
THEUNISSEN	POORTJIE	488	1	VENTERSBURG	GROENFONTEIN	78	0
THEUNISSEN	POORTJIE	488	2	VENTERSBURG	TURFFONTEIN	80	0
THEUNISSEN	CONSTANTIA	495	0	VENTERSBURG	PLANCIUS	82	0
THEUNISSEN	NOLENS VOLENS	502	0	VENTERSBURG	STEYN'S RUST	83	1
THEUNISSEN	NOLENS VOLENS	502	1	VENTERSBURG	STEYN'S RUST	83	2
THEUNISSEN	HARTEBEEFONTEIN	523	0	VENTERSBURG	STEYNS RUST	89	0
THEUNISSEN	JEPPE	577	0	VENTERSBURG	RONDEBOSCHJE	97	0
THEUNISSEN	MASILO	597	0	VENTERSBURG	TWYFELAAR	99	0
THEUNISSEN	WILGERBOOM KAMP	618	0	VENTERSBURG	TWYFELAAR	99	1
THEUNISSEN	KOPJES KRAAL	619	0	VENTERSBURG	TWEEFONTEIN	101	0
VENTERSBURG	OUDERSGIFT	7	0	VENTERSBURG	MOOIDAM	102	0
VENTERSBURG	BREDELLS RUST	10	1	VENTERSBURG	BAKENPLAATS	107	0
VENTERSBURG	OUDERSGIFT	18	0	VENTERSBURG	ZWALUWKRANS	113	0
VENTERSBURG	WELGELUK	20	0	VENTERSBURG	KOEBERG	120	0
VENTERSBURG	WELGELUK	20	1	VENTERSBURG	EXCELSIOR	122	0
VENTERSBURG	WELGELUK	20	2	VENTERSBURG	EXCELSIOR	122	1
VENTERSBURG	PARMA	24	0	VENTERSBURG	FOURIES DEEL	125	0
VENTERSBURG	MULTA TULI	40	0	VENTERSBURG	FOURIES DEEL	125	2
VENTERSBURG	MULTA TULI	40	1	VENTERSBURG	CORDIER	144	0
VENTERSBURG	PERSEVERO	42	1	VENTERSBURG	SCHOLTZNEK A	145	0
VENTERSBURG	GIBRALTAR	43	0	VENTERSBURG	JOURDAN	147	0
VENTERSBURG	GOURITZ	45	0	VENTERSBURG	BARITON	155	0
VENTERSBURG	SCHOLTZNEK C	47	0	VENTERSBURG	ZAAILAND	156	0
VENTERSBURG	DAMPLAATS	49	0	VENTERSBURG	DANKBAARSFONTEIN	158	0
VENTERSBURG	OLIE	50	0	VENTERSBURG	RETREAT	159	0
VENTERSBURG	OLIE	50	1	VENTERSBURG	LIYNPLAATS	160	0
VENTERSBURG	OLIE	50	2	VENTERSBURG	ELANDSVLEI	161	0
VENTERSBURG	OLIE	50	3	VENTERSBURG	MEMORIAM	164	0
VENTERSBURG	OLIE	50	4	VENTERSBURG	INBREUK	169	0
VENTERSBURG	OLIE	50	5	VENTERSBURG	SCHOLTZNEK B	170	0
VENTERSBURG	EERSTE GELUK	51	0	VENTERSBURG	VAALBANKSKUIL	172	1
VENTERSBURG	EERSTE GELUK	51	1	VENTERSBURG	BOSSCHEN	194	0
VENTERSBURG	EERSTE GELUK	51	2	VENTERSBURG	BIESSIEFONTEIN	196	0
VENTERSBURG	WELGEVONDEN	52	0	VENTERSBURG	BIESSIEFONTEIN	196	1
VENTERSBURG	WELGEVONDEN	52	1	VENTERSBURG	KROMFONTEIN	209	0
VENTERSBURG	WELGEVONDEN	52	2	VENTERSBURG	KROMFONTEIN	209	1
VENTERSBURG	WELGEVONDEN	52	3	VENTERSBURG	KROMFONTEIN	209	8
VENTERSBURG	WELGEVONDEN	52	4	VENTERSBURG	KLEINFONTEIN	210	1
VENTERSBURG	BOOMPLAATS	53	0	VENTERSBURG	STRYDFONTEIN	211	3
VENTERSBURG	BLAAUWBOSCHESKOM	56	0	VENTERSBURG	STRYDFONTEIN	211	4
VENTERSBURG	DE SLANGE RIVIER	233	0	VENTERSBURG	VENTERS KRAAL	212	0
VENTERSBURG	VLAKSPRUIT	234	0	VENTERSBURG	ZANDRIVIERSPOORT	213	0
VENTERSBURG	EXCESLIOR 'A'	243	0	VENTERSBURG	ZANDRIVIERSPOORT	213	2
VENTERSBURG	CORANGAMITE	244	0	VENTERSBURG	ZANDRIVIERSPOORT	213	3
VENTERSBURG	DUIKERBOS	246	0	VENTERSBURG	ELANDSFONTEIN	214	0
VENTERSBURG	WONDER HEUVEL	250	0	VENTERSBURG	BAS KOP	215	0
VENTERSBURG	PALESTINA	252	0	VENTERSBURG	BLOMSKRAAL	216	0
VENTERSBURG	PICNIC BOSCH	257	0	VENTERSBURG	JUNCTIONDRIFT	217	0
VENTERSBURG	IONA	258	0	VENTERSBURG	JUNCTIONDRIFT	217	1
VENTERSBURG	EENDRACHT	259	0	VENTERSBURG	JUNCTIONDRIFT	217	2
VENTERSBURG	EENDRACHT	259	1	VENTERSBURG	JUNCTIONDRIFT	217	3
VENTERSBURG	MARIENDAL	260	0	VENTERSBURG	LANG KUIL	225	0
VENTERSBURG	MARIENDAL	260	1	VENTERSBURG	LANG KUIL	225	1
VENTERSBURG	LIDDLESDALE	263	0	VENTERSBURG	LA ROCLETTE	231	0
VENTERSBURG	LIDDLESDALE	263	2	VENTERSBURG	ERFENIS	405	0
VENTERSBURG	TOPFONTEIN	275	0	VENTERSBURG	EDEN	406	0
VENTERSBURG	MERIBA	278	0	VENTERSBURG	LELIEVLEI	407	0
VENTERSBURG	KLEIN INBREUK	279	0	VENTERSBURG	DRIEHOEK	411	0

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
VENTERSBURG	RUSTGEVONDEN	285	0	VENTERSBURG	SMALDEEL	414	0
VENTERSBURG	NELSRUST	291	1	VENTERSBURG	ARMOED SPRUIT	416	0
VENTERSBURG	KALKFONTEIN	294	0	VENTERSBURG	VEELGEPRAAT	417	0
VENTERSBURG	RANDJESFONTEIN	297	0	VENTERSBURG	LEEUEWKUIL	428	0
VENTERSBURG	VENTERS PAALMYN	298	0	VENTERSBURG	ROEDOLF	429	0
VENTERSBURG	VENTERS HOEK	300	0	VENTERSBURG	GOEDGEGUND	434	0
VENTERSBURG	LANGVERWACHT	302	0	VENTERSBURG	GOEDGEGUND	434	1
VENTERSBURG	LANGVERWACHT	302	1	VENTERSBURG	GOEDGEGUND	434	2
VENTERSBURG	LANGVERWACHT	302	2	VENTERSBURG	GOEDGEGUND	434	3
VENTERSBURG	LANGVERWACHT	302	3	VENTERSBURG	GOEDGEGUND	434	4
VENTERSBURG	DI DRAAI	306	0	VENTERSBURG	UITVLUCHT	440	0
VENTERSBURG	WATERVAL	310	0	VENTERSBURG	BLOEMHOEK	441	0
VENTERSBURG	KLIPFONTEIN	313	0	VENTERSBURG	COORIEJONG	444	0
VENTERSBURG	KLIPFONTEIN	313	1	VENTERSBURG	SANS SOUCI	445	0
VENTERSBURG	SCHURVEDRAAI	314	0	VENTERSBURG	VENTERSKROON A	446	0
VENTERSBURG	ROODEKRAAL	315	0	VENTERSBURG	VENTERSKROON A	446	1
VENTERSBURG	GEMEENSCHAP	318	0	VENTERSBURG	EDEN	447	0
VENTERSBURG	UITZOEK	320	0	VENTERSBURG	ONGEGUNDE VRYHEID	450	0
VENTERSBURG	VADERDEEL	321	0	VENTERSBURG	PRAATJES	462	0
VENTERSBURG	MOEDERSERF	322	0	VENTERSBURG	STEYNSDEEL	463	0
VENTERSBURG	DAMLEEGTE	323	0	VENTERSBURG	DAMPLAATS WEST	464	0
VENTERSBURG	SCHAAPDRAAI	333	0	VENTERSBURG	DAMPLAATS WEST	464	1
VENTERSBURG	VENTERSDEEL	334	1	VENTERSBURG	AROMA	468	0
VENTERSBURG	CHRISTIANS RUHE	350	0	VENTERSBURG	HAMBURG	473	0
VENTERSBURG	CHRISTIANS RUHE	350	1	VENTERSBURG	KLIPKRAAL	474	0
VENTERSBURG	VENTERSBURG DORPSGRON	354	0	VENTERSBURG	KROMSPRUIT	476	0
VENTERSBURG	VENTERSBURG DORPSGRON	354	20	VENTERSBURG	ANNIES VELDEN	478	0
VENTERSBURG	JAPIE	355	0	VENTERSBURG	MARITZ	481	0
VENTERSBURG	DE BARRACKS	356	0	VENTERSBURG	VENTERSDAL	483	0
VENTERSBURG	BOSKOP - WEST	360	0	VENTERSBURG	GROOTDAM	484	0
VENTERSBURG	WELTEVREDEN	362	0	VENTERSBURG	DE SPRUIT	486	0
VENTERSBURG	WELTEVREDEN	362	1	VENTERSBURG	WASCHBANK	488	0
VENTERSBURG	FOURIESPOORT	365	0	VENTERSBURG	SPES BONA	493	0
VENTERSBURG	FOURIESPOORT	365	1	VENTERSBURG	DE LAND	495	0
VENTERSBURG	FOURIESPOORT	365	2	VENTERSBURG	NIEUWE LAND	497	0
VENTERSBURG	KRAANVOGELVLEI	366	2	VENTERSBURG	MANIE	498	0
VENTERSBURG	BEGINSEL	369	0	VENTERSBURG	BEIEREN	500	0
VENTERSBURG	VERGOTTINIS RUST	371	0	VENTERSBURG	VOORSPOED	519	0
VENTERSBURG	FRAAIUITZICHT	374	0	VENTERSBURG	EXCELSIOR	524	0
VENTERSBURG	ZAMENLOOP	377	0	VENTERSBURG	VOORSPOED	527	0
VENTERSBURG	DE POORT	378	0	VENTERSBURG	VOORSPOED	527	1
VENTERSBURG	BAKKIESDRAAI	381	0	VENTERSBURG	HEUVEL	532	0
VENTERSBURG	VREDE	389	0	VENTERSBURG	HEUVEL	532	1
VENTERSBURG	DEELFONTEIN	393	0	VENTERSBURG	HEUVEL	532	2
VENTERSBURG	ONGEGUND	401	0	VENTERSBURG	HERSHAW	536	0
VENTERSBURG	STILLEWONING	580	0	VENTERSBURG	HERSHAW	536	1
VENTERSBURG	WAGENMAKERS VALLE	586	0	VENTERSBURG	HERSHAW	536	2
VENTERSBURG	DIE HOEK	590	0	VENTERSBURG	HERSHAW	536	4
VENTERSBURG	GROOT DEELFONTEIN	595	0	VENTERSBURG	DAMPLAATS	556	0
VENTERSBURG	BURNETT-HOLMES	599	0	VENTERSBURG	DAMPLAATS	556	2
VENTERSBURG	BURNETT-HOLMES	599	1	VENTERSBURG	TWISTNIET	565	0
VENTERSBURG	BURNETT-HOLMES	599	2	VENTERSBURG	TWISTNIET	565	2
VENTERSBURG	BURNETT-HOLMES	599	3	VENTERSBURG	TWISTNIET	565	3
VENTERSBURG	FILISTEA	604	0	VENTERSBURG	TWISTNIET	565	4
VENTERSBURG	GROOTKOP	605	0	VENTERSBURG	TWISTNIET	565	5
VENTERSBURG	WIGGIE	606	0	VENTERSBURG	TWISTNIET	565	6
VENTERSBURG	MERIBA	612	0	VENTERSBURG	MOSSIE	571	0
VENTERSBURG	ONS RUS	617	0	VENTERSBURG	STILLEWONING	580	0
VENTERSBURG	HARD LINES	618	0	VENTERSBURG	STILLEWONING	580	2
VENTERSBURG	VERDIEN	619	0	WINBURG	HIGH FIELD	53	0
VENTERSBURG	LEONARDS DAL	620	0	WINBURG	CYPRESFONTEIN	108	0
VENTERSBURG	KRIEGERS KRAAL	708	0	WINBURG	CYPRESFONTEIN	108	1
VENTERSBURG	KRIEGERS KRAAL	708	1	WINBURG	CYPRESFONTEIN	108	2
VENTERSBURG	LE ROUX	717	1	WINBURG	CYPRESFONTEIN	108	3
VENTERSBURG	MOOIPAN	721	0	WINBURG	CYPRESFONTEIN	108	4
VENTERSBURG	MOOIPAN	721	1	WINBURG	PAARDEKUIL	228	0

Appendix 2 - Approved Farm Properties (ER315)

REG.DIST.	FARM NAME	FARM NO.	PORTION NO.	REG.DIST.	FARM NAME	FARM NO.	PORTION NO.
VENTERSBURG	MOOIPAN	721	2	WINBURG	PALMIET FONTEIN	229	0
VENTERSBURG	MOOIPAN	721	3	WINBURG	PALMIET FONTEIN	229	1
VENTERSBURG	MOOIPAN	721	4	WINBURG	PALMIET FONTEIN	229	2
VENTERSBURG	MOOIPAN	721	5	WINBURG	PALMIET FONTEIN	229	3
VENTERSBURG	TOEVERWATER	726	0	WINBURG	PALMIET FONTEIN	229	4
VENTERSBURG	TOEVERWATER	726	1	WINBURG	PALMIET FONTEIN	229	5
VENTERSBURG	VREDE	736	0	WINBURG	PALMIET FONTEIN	229	6
VENTERSBURG	MOEDERSDEEL	739	0	WINBURG	PALMIET FONTEIN	229	7
VENTERSBURG	DETENTE	744	0	WINBURG	PALMIET FONTEIN	229	8
VENTERSBURG	DETENTE	744	1	WINBURG	PALMIET FONTEIN	229	9
VENTERSBURG	DETENTE	744	2	WINBURG	ROODE KRAAL	248	0
VENTERSBURG	DETENTE	744	3	WINBURG	ROODE KRAAL	248	1
VENTERSBURG	KWESTIE	745	0	WINBURG	ROODE KRAAL	248	2
VENTERSBURG	LEWENSLUS	753	0	WINBURG	ROODE KRAAL	248	3
VENTERSBURG	STILLEWONING	757	0	WINBURG	ROODE KRAAL	248	4
VENTERSBURG	PRINSRUS	763	0	WINBURG	ROODE KRAAL	248	5
VENTERSBURG	PRINSRUS	763	1	WINBURG	ROODE KRAAL	248	6
VENTERSBURG	LE ROUX	766	0	WINBURG	ROODE KRAAL	248	7
VENTERSBURG	BREDELL'S RUST	775	0	WINBURG	LEEUWKUIL	253	0
WINBURG	MAZELSPRUIT	1	0	WINBURG	LEEUWKUIL	253	1
WINBURG	MAZELSPRUIT	1	1	WINBURG	MARAI'S KUS	337	0
WINBURG	MAZELSPRUIT	1	2	WINBURG	HAZOR	381	0
WINBURG	MAZELSPRUIT	1	4	WINBURG	HAZOR	381	1
WINBURG	QUAGGAFONTEIN	3	0	WINBURG	GANGERS COTTAGE	431	0
WINBURG	RIETVALLEI	4	1	WINBURG	SIBERIASFONTEIN	605	0
WINBURG	RIETVALLEI	4	2	WINBURG	SIBERIASFONTEIN	605	1
WINBURG	RIETVALLEI	4	4	WINBURG	WELTEVREDE	629	0
WINBURG	RIETVALLEI	4	5	WINBURG	WELTEVREDE	629	1
WINBURG	RIETVALLEI	4	6	WINBURG	WELTEVREDE	629	2
WINBURG	RIETVALLEI	4	7	WINBURG	LAASTELAG	674	0
WINBURG	RIETVALLEI	4	8	WINBURG	LAASTELAG	674	1
WINBURG	RIETVALLEI	4	9	WINBURG	RICHMOND	722	0
WINBURG	GOOI DIE HOED	5	0	WINBURG	DEELFONTEIN	743	0
WINBURG	GOOI DIE HOED	5	1	WINBURG	MOOIWATER	744	0
WINBURG	GOOI DIE HOED	5	2	WINBURG	VERGEZICHT	762	0
WINBURG	GOOI DIE HOED	5	3	WINBURG	PIETFONTEIN	786	0
WINBURG	PALMIETFONTEIN	7	0	WINBURG	ZOUTFONTEIN	841	0
WINBURG	PALMIETFONTEIN	7	1	WINBURG	ZOUTFONTEIN	841	1
WINBURG	PALMIETFONTEIN	7	2	WINBURG	ZOUTFONTEIN	841	2
WINBURG	KARREEFONTEIN	8	0	WINBURG	KLEINPLAATS	845	0
WINBURG	KARREEFONTEIN	8	1	WINBURG	UITHOEK	847	0
WINBURG	MOOIFONTEIN	49	4	WINBURG	UITHOEK	847	1
WINBURG	AZEKA	1019	1	WINBURG	UITHOEK	847	2
WINBURG	DE BRON	1165	0	WINBURG	UITHOEK	847	3
WINBURG	GELUK	1279	0	WINBURG	UITHOEK	847	4
WINBURG	GELUK	1279	1	WINBURG	UITHOEK	847	5
WINBURG	THE GUMS	1434	0	WINBURG	DELAPORTE	887	0
WINBURG	THE GUMS	1434	1	WINBURG	DOORNNEK	905	0
WINBURG	QUAGGAFONTEIN	1446	0	WINBURG	DOORNNEK	905	1
WINBURG	VAALKOP	1458	0	WINBURG	DOORNNEK	905	2
WINBURG	MIDDLETON	1461	0	WINBURG	DOORNNEK	905	3
WINBURG	LE SOUVENIR	1548	0	WINBURG	GELUKSBURG	940	0
WINBURG	DI BLESBOKKANTOOR	1549	1	WINBURG	GELUKSBURG	940	1
WINBURG	DI BLESBOKKANTOOR	1549	2	WINBURG	VRUCHTENFONTEIN	942	0
WINBURG	DI BLESBOKKANTOOR	1549	3	WINBURG	GROOT SPRUIT	943	0
WINBURG	DI BLESBOKKANTOOR	1549	4	WINBURG	AZEKA	1019	0

CO-ORDINATE LIST - SYSTEM WG27 - UNITS METRES														
POINT	Y	X	POINT	Y	X	POINT	Y	X	POINT	Y	X	POINT	X	
1	-24574.34	3106352.09	51	3565.14	3073942.21	101	-14751.56	3100667.21	151	7278.02	3119916.89	201	31297.92	3147183.18
2	-24574.60	3106224.38	52	2910.81	3074954.47	102	-14652.95	3100888.73	152	7232.24	3120077.71	202	0.00	3147058.17
3	-24576.88	3105116.17	53	2535.22	3074174.95	103	-15379.34	3101216.71	153	7201.24	3120296.15	203	0.00	3126147.12
4	-24579.15	3104007.96	54	-801.80	3077774.89	104	-15448.67	3101389.45	154	7077.12	3120510.27	204	-981.34	3126147.16
5	-24581.43	3102899.75	55	862.74	3080962.41	105	-15509.03	3101380.25	155	7001.71	3120602.40	205	-1962.68	3126147.28
6	-24583.70	3101791.54	56	-1427.78	3081286.37	106	-15825.42	3102209.11	156	6775.86	3123460.95	206	-2944.02	3126147.48
7	-24585.97	3100683.34	57	-3971.14	3082173.32	107	-18677.31	3102262.64	157	9605.67	3123177.75	207	-3925.36	3126147.76
8	-24588.24	3099575.14	58	-4019.68	3082821.49	108	-15707.82	3104837.96	158	9026.85	3123971.21	208	-4906.70	3126148.13
9	-24590.51	3098466.93	59	-4648.36	3083995.72	109	-15347.57	3104329.41	159	8409.62	3124499.79	209	-5888.04	3126148.57
10	-25574.14	3098468.99	60	-4972.01	3083282.29	110	-10944.77	3107175.74	160	8814.63	3125876.54	210	-7540.18	3126149.46
11	-26557.76	3098471.13	61	-6400.36	3085588.50	111	-10583.85	3107214.28	161	10620.93	3127408.29	211	-12623.79	3107893.60
12	-27541.39	3098473.34	62	-6991.35	3085256.37	112	-8664.81	3106188.50	162	12160.62	3129253.62	212	-12333.42	3107830.63
13	-28525.01	3098475.64	63	-7503.16	3086294.77	113	-8164.83	3107651.39	163	11434.83	3129869.02	213	-12298.11	3107776.06
14	-29508.64	3098478.02	64	-9452.75	3085701.32	114	-6534.51	3109230.04	164	10589.00	3130464.16	214	-12113.22	3107701.51
15	-30492.26	3098480.47	65	-8808.84	3086449.57	115	-6274.02	3109229.90	165	8703.44	3132527.09	215	-11933.22	3107581.51
16	-31475.89	3098483.01	66	-8195.77	3087252.42	116	-4165.41	3109689.02	166	10556.99	3132613.74	216	-11960.22	3107565.51
17	-32459.52	3098485.63	67	-8175.12	3087297.00	117	-3361.82	3109907.70	167	9433.27	3139897.70	217	-12007.63	3107551.65
18	-32581.40	3098485.97	68	-8145.18	3087293.24	118	-3361.77	3110093.38	168	9949.04	3140179.82	218	-12010.16	3107499.71
19	-32581.40	3065824.78	69	-8134.76	3087360.56	119	-3385.67	3110112.38	169	12181.47	3137300.67	219	-12358.98	3107516.70
20	-25466.25	3065824.78	70	-8032.61	3087610.53	120	-3419.06	3111110.06	170	12914.92	3136888.65	220	-12391.16	3107450.36
21	-2552.67	3065909.90	71	-7990.39	3087672.62	121	-3283.52	3111682.04	171	16035.51	3138943.27	221	-12380.77	3107444.36
22	-25252.93	3065949.38	72	-7944.30	3087724.51	122	-3069.45	3112585.57	172	16685.28	3137527.37	222	-12420.57	3107375.42
23	-24840.65	3065824.78	73	-7607.21	3088004.22	123	-2471.04	3111888.16	173	18278.87	3137578.09	223	-12348.65	3107331.55
24	-15864.89	3065824.78	74	-7222.21	3088511.63	124	-2063.14	3112754.33	174	18231.77	3138021.67	224	-12535.16	3106824.46
25	-15968.78	3072631.77	75	-7106.05	3088688.47	125	-1861.29	3113352.30	175	18384.42	3138155.25	225	-12579.47	3106840.79
26	16855.93	3072631.77	76	-7156.61	3089724.04	126	-1421.52	3113910.22	176	18613.25	3138281.73	226	-12470.80	3107136.23
27	20886.28	3065824.78	77	-8187.48	3089204.64	127	-2553.08	3115391.14	177	18562.67	3138345.10	227	-12648.10	3107201.45
28	23864.82	3065824.78	78	-8453.88	3088863.90	128	-3180.47	3115178.17	178	18309.30	3138225.51	228	-12689.39	3107089.21
29	23959.42	3065964.28	79	-9022.35	3089323.57	129	-3107.32	3114278.73	179	18159.07	3138238.06	229	-12833.07	3107142.05
30	20921.09	3068907.46	80	-8994.52	3089358.61	130	-3112.64	3114089.82	180	18137.35	3138302.78	230	-13073.59	3106278.32
31	21731.71	3072887.73	81	-9634.71	3090714.30	131	-4393.14	3114149.56	181	18496.95	3138724.38			
32	18106.77	3076517.66	82	-11279.44	3089671.23	132	-3862.12	3117703.03	182	21548.46	3140979.24			
33	17713.52	3076845.60	83	-12671.14	3090682.62	133	-4171.97	3118077.81	183	21616.26	3140908.38			
34	15352.01	3079000.89	84	-14518.55	3089466.00	134	-3528.00	3119480.55	184	21650.65	3140845.91			
35	10328.17	3082052.32	85	-15693.61	3089036.43	135	-2633.53	3117614.36	185	21738.50	3140800.39			
36	10327.48	3082050.08	86	-15716.18	3089353.93	136	-1061.40	3118012.85	186	21908.20	3140830.90			
37	9814.12	3081205.39	87	-15529.92	3091061.95	137	-1026.80	3118542.18	187	21988.31	3140775.64			
38	7812.12	3081199.49	88	-17698.25	3091309.04	138	-1005.93	3118815.35	188	22481.03	3140375.68			
39	7705.81	3078745.21	89	-19127.40	3092246.68	139	-651.95	3119185.83	189	22741.03	3140501.02			
40	7025.25	307672.83	90	-18634.47	3093904.71	140	915.96	3118207.92	190	23873.15	3141781.97			
41	7147.28	307355.57	91	-17678.28	3093976.46	141	960.09	3118141.93	191	24670.62	3141395.87			
42	7873.08	3076494.98	92	-17341.69	3094099.18	142	1809.47	3118673.75	192	26379.60	3142266.60			
43	8951.43	3076029.09	93	-18392.26	3094814.53	143	2097.65	3118365.59	193	25802.84	3143351.78			
44	8219.09	3074683.16	94	-16958.23	3095362.30	144	2344.04	3118098.24	194	26219.78	3143576.53			
45	6230.75	3076483.57	95	-16646.77	3096612.72	145	3626.44	3118058.48	195	25641.66	3144348.90			
46	4982.13	3075913.47	96	-18395.89	3097015.18	146	4471.97	3120904.35	196	28320.75	3145718.08			
47	5050.46	3075691.60	97	-17240.31	3099667.34	147	5958.93	3119974.65	197	28471.85	3145508.40			
48	4301.18	3074647.17	98	-16258.63	3099067.54	148	7263.96	3119691.05	198	28754.91	3146045.24			
49	4561.67	3074216.11	99	-15154.67	3098111.34	149	7413.00	3119634.19	199	30481.75	3144817.43			
50	3711.66	3073593.95	100	-15049.24	3098562.00	150	7374.07	3119887.96	200	30715.78	3145164.56			