

PARYS - SASOLBURG VEILING GPS: S26°51.025' E027°40.409'



**22 MEI 2025, 11:00**

*Produkstieveiling*

Meyerskraal | Sasolburg

**AANBOD**

**240** Uitstekende Bonsmaras

Bulle: **20** SP Bulle van AG Bonsmara

Vroulike diere: **220**



# **BAIE WELKOM BY DIE VOORSPOED BONSMARA VEILING VAN 2025**



AMPTELIKE VEILINGSKATALOGUS VIR / OFFICIAL AUCTION CATALOGUE FOR

# VOORSPOED BONSMARA GROEP

Veilingsdatum / Auction Date:  
**22 May 2025**

Data soos op / Data as on:  
**22 April 2025**



## SALES UNDER AUSPICES OF BONSMARA SA

Bonsmara stud breeding is subject to the stipulations of the Livestock Improvement Act and conforms to the standards of Bonsmara SA. The Society therefore has the right to implement certain controls to ensure the accuracy of information regarding Parentage, Performance and Estimated Breeding Values.

Information regarding Parentage, Performance and Estimated Breeding Values of animals, as supplied by the breeder, have been verified and compared to the official database of LOGIX BEEF. Bonsmara SA therefore, confirms the accuracy of such information.

To the knowledge of the Society these controls have been carried out accurately. However, the Society does not take any responsibility for incorrect information through printing errors or incorrect information provided by the breeder.

Animals on such sales have been visually screened by Inspectors of Bonsmara SA and comply with the Bonsmara Minimum Breed Standards as stipulated by the Society.

### **The Society DOES NOT have any control over:**

- Immunization and health status of animals
- Pregnancy status of cows and heifers
- Suitability of a bull for breeding
- Fertility status as well as venereal diseases and
- Commercial animals

Since the above is not classified as information regarding Parentage, Performance and Estimated Breeding Values, it DOES NOT fall within the jurisdiction of the meaning "Under the Auspices of Bonsmara SA".



## VEILINGS ONDER BESKERMING VAN BONSMARA SA

Bonsmara stoetteling wat onderhewig is aan die bepalings van die Veeverbeteringswet, vind plaas onder die vaandel van Bonsmara SA. Daarom behou die Genootskap hom die reg voor om kontroles volgens bepaalde prosedures uit te oefen ten opsigte van Ouerskap inligting, Prestasiedata en Beraamde Teelwaardes.

Ouerskap inligting, Prestasiedata en Beraamde Teelwaardes soos deur die teler voorsien vir die doel van hierdie katalogus, is gekontroleer en vergelyk met die amptelike databasis soos gehou deur LOGIX BEEF. Bonsmara SA bevestig dus die korrektheid van sodanige inligting.

Alhoewel die kontroles na die beste wete van die Genootskap gedoen is, kan die Genootskap egter nie verantwoordelik gehou word vir foutiewe inligting as gevolg van drukkersfoute of verkeerde inligting deur die telers verskaf nie.

Diere wat op hierdie veilings aangebied word, is onderwerp aan 'n proses van visuele inspeksie deur Keurders van Bonsmara SA en voldoen aan die Bonsmara Minimum Rasstandaarde soos bepaal deur die Genootskap.

### **Die Genootskap het egter GEEN beheer oor:**

- Immunisering en gesondheidstatus van diere
- Dragtigheidstatus van koeie en verse
- Teelgeskiktheid van bulle
- Vrugbaarheidstatus, asook geslagsiektes en
- Kommersiële diere nie.

Aangesien bogenoemde nie val onder die bedoeling met Ouerskap inligting, Prestasiedata en Beraamde Teelwaardes nie, sorteer dit NIE onder die jurisdiksie van die bedoeling "Onder beskerming van Bonsmara SA" nie.





## ANIMAL AND PEDIGREE INFORMATION

**LOT 1** 1 **THE RED CATTLE FARM** 2

3

DEF 100066 P

4 ABC 150029 4  
2015-02-03 5  
SP 6

Parentage Sire Dam

DNA ✓

Genomic ✓

7 DEF 050022

8 GHI 070076 HH(c)  
AGE/CALV. 14/10  
AVG. WU/CALV. 92/10  
ICP 395

9

10 JKL 000077 P

11 ABC 080011  
AGE/CALV. 13/9  
AVG. WU/CALV. 105/9  
ICP 417

12 MNO 030002  
AGE/CALV. 19/10  
AVG. WU/CALV. 109/10  
ICP 407

- Lot Number
- Owner of the animal
- Herd's logo (if available)
- Animal Identification Number
- Birth date
- Herd book section - NFR / PEN / F0 / A / B / SP
- Four (4) generation pedigree
- Genomic testing - it is indicated with the **GT** logo
- Polled Status - the status will only be printed for animals that have been tested
- Parentage Verification - a green tick (✓) indicates that the sire and/or dam has been verified via either microsatellite (DNA), or Genomic testing
- QR Code - This code can be scanned with a smartphone or tablet. It redirects to the animal's information on [www.SABeefBulls.com](http://www.SABeefBulls.com) where all information for the animal is available.
- Dam information
  - Age and Number of Calvings
  - Average Wean Index and Number of Calves Weaned
  - Intercalving Period

## MYOSTATIN STATUS

The animal's status, if tested for myostatin variants, is indicated as follows:

- Not Tested
- 0 - Normal
- 1 - Heterozygous / Carrier of Double-Muscling gene
- 2 - Homozygous / Double-Muscling

## LOGIX SELECTION VALUES

| Calving Ease Value | Weaner Calf Value | Fertility Value | Maintenance Value | Cow Value | Growth Value | Carcass Value |
|--------------------|-------------------|-----------------|-------------------|-----------|--------------|---------------|
| 109                | 98                | 111             | 99                | 101       | 98           | 103           |
| 1                  | 2                 | 3               | 4                 | 5         | 6            | 7             |



### 2 L♀ GIX Weaner Calf Value Selection for heavy weaners

Measurements: Weaning weight, Birth weight, and Mature weight  
EBVs: Wean direct & maternal, Birth direct & maternal, Mature weight



### 6 L♀ GIX Growth Value Selection for efficient growers on veld and in feedlot

Measurements: Phase C and D Growth test traits  
EBVs: Weaning weight, End weight, ADG and Intake



### 7 L♀ GIX Carcass Value Selection for higher meat yields on a carcass

Measurements: Phase C and D Growth test traits, RTU scanning traits  
EBVs: End weight, Eye Muscle Area and Fat

## HOW TO USE SELECTION VALUES

Sub-values could also be compatible with your selection goal. Don't select only on the Cow Value

### AVERAGE ANIMALS (NO GROWTH EXTREMES)

- Selection Values 90 to 110
  - Cow Value & Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

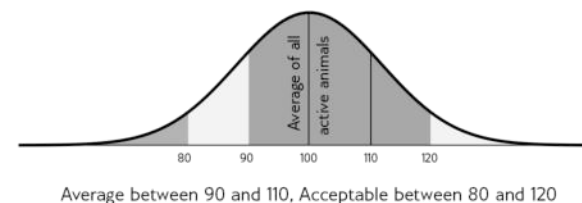
### GROWERS (GOOD ENVIRONMENT)

- Weaner Calf / Growth Value > 110
  - Cow Value & Fertility Value average to high
- Growers are heavier at birth (lower Calving Ease Value), and heavier at maturity (lower Maintenance Value).

### LOW-MAINTENANCE ANIMALS (HARSH ENVIRONMENT)

- Maintenance Value > 110
  - Cow Value & Fertility Value average to high
- Lighter cows have a lower maintenance (higher Maintenance Value).

## INTERPRETATION OF BREEDING VALUE INDICES AND SELECTION VALUES



## EXPLANATION OF BREEDING VALUES AND SELECTION VALUES

| Traits           |    |                         | Description/Measurement | Goal                                                                                          | General Guidelines        |       |     |        |      |        |
|------------------|----|-------------------------|-------------------------|-----------------------------------------------------------------------------------------------|---------------------------|-------|-----|--------|------|--------|
|                  |    |                         |                         |                                                                                               |                           | <80   | <90 | 90-110 | >110 | >120   |
| Selection Values | 5  | Cow Value               | CV                      | Combination of Calving Ease, Calf Growth, Milk, Maintenance and Fertility Values (Rand-Value) | Profitable Cow            | Loss  |     |        |      | Profit |
|                  | 1  | Calving Ease Value      | CEV                     | Risk for calving problems (calf too heavy) vs calf too small                                  | Average birth weight      | High  |     |        |      | Low    |
|                  |    | Calf Growth Value       | CGrV                    | Calf's genetic ability for pre-weaning growth                                                 | Heavy weaner calf         | Light |     |        |      | Heavy  |
|                  |    | Milk Value              | MlkV                    | Cow's genetic mothering and milking ability                                                   | Enough milk for the calf  | Less  |     |        |      | More   |
|                  | 4  | Maintenance Value       | MntV                    | Maintenance requirements of cow (cow weight and milk)                                         | Low cow maintenance       | High  |     |        |      | * Low  |
|                  | 3  | Fertility Value         | FertV                   | Fertility and retention of cows and heifers                                                   | Fertile cows              | Low   |     |        |      | High   |
|                  | 2  | Weaner Calf Value       | WnCV                    | Combination of calf's weight and cow's milk                                                   | Heavy weaner calves       | Light |     |        |      | Heavy  |
|                  | 6  | Growth Value            | GV                      | Efficient growth on veld and in feedlot (Rand-value)                                          | Profitable growth         | Loss  |     |        |      | Profit |
| Cow & Heifer     | 7  | Carcass Value           | VarCV                   | Meat on carcass (Weight and RTU EBVs)                                                         | More meat on the carcass  | Less  |     |        |      | More   |
|                  |    | Production Value        | PV                      | Combination of Cow- and Growth values (Rand-value)                                            | Profitable animals        | Loss  |     |        |      | Profit |
|                  | 8  | Birth Weight Direct     | BD                      | Birth weight (Calf's genetic ability)                                                         | Average birth weight      | Heavy |     |        |      | Light  |
|                  |    | Birth Weight Maternal   | BM                      | Birth weight (Cow's genetic ability)                                                          | Easy calving              | Heavy |     |        |      | Light  |
|                  | 9  | Weaning Weight Direct   | WD                      | Weaning weight (Calf's genetic ability)                                                       | Heavy weaner calves       | Light |     |        |      | Heavy  |
|                  | 10 | Weaning Weight Maternal | WM                      | Weaning weight (Cow's genetic ability)                                                        | Good mothers              | Poor  |     |        |      | Good   |
| Fertility        | 18 | Mature Cow Weight       | MW                      | Cow weight at weaning of first three calves                                                   | Average mature cow weight | Light |     |        | *    | Heavy  |
|                  |    | Cow-Calf Birth          | CCB                     | EBV Birth Direct / EBV Mature Cow weight                                                      | Average                   | Low   |     |        |      | High   |
|                  |    | Cow-Calf Wean           | CCW                     | EBV Wean Direct / EBV Mature Cow weight                                                       | High calf-cow ratio       | Low   |     |        |      | High   |
|                  | 12 | Heifer Fertility        | HF                      | Age at first calving                                                                          | Fertile heifers           | Less  |     |        |      | More   |
| Growth & Frame   | 13 | Cow Fertility           | CFE                     | First 3 inter-calving periods (ICPs)                                                          | Fertile cows              | Less  |     |        |      | More   |
|                  | 11 | Scrotal Circumference   | SC                      | Scrotal circumference as measured during the growth test                                      | Fertile bulls             | Less  |     |        |      | More   |
|                  | 14 | Longevity               | LG                      | Retention of progeny                                                                          | Acceptable progeny        | Poor  |     |        |      | Good   |
|                  | 15 | Post-Wean Weight        | PWn                     | 12- and 18 month weights                                                                      | Good post-wean growth     | Low   |     |        |      | * High |
|                  | 16 | Average Daily Gain      | ADG                     | Average daily gain                                                                            | Good growth               | Poor  |     |        |      | Good   |
|                  | 17 | Feed Conversion Ratio   | FCR                     | 100g feed intake / g weight gain                                                              | Feed efficiency           | Poor  |     |        |      | Good   |
| Carcass          |    | Final Test Weight       | FW                      | Final weight in the growth test                                                               | Heavy carcass             | Light |     |        | *    | Heavy  |
|                  | 19 | Height                  | H                       | Shoulder height in growth test                                                                | Average height            | Short |     |        |      | Tall   |
|                  | 20 | Length                  | L                       | Length in growth test                                                                         | Longer for more muscle    | Short |     |        |      | Long   |
|                  | 24 | Length-Height Ratio     | LH                      | EBV Length / EBV Height                                                                       | Longer rather than tall   | <1    |     |        |      | >1     |
|                  | 21 | Eye Muscle Area         | EMA                     | RTU measured eye muscle area                                                                  | Bigger steaks             | Small |     |        |      | Big    |
|                  | 22 | Fat Thickness           | Fat                     | RTU measured P8 backfat thickness                                                             | Carcass quality           | Thin  |     |        |      | Thick  |
|                  | 23 | Marbling                | Mar                     | RTU measured % of intra-muscular fat                                                          | Juicy meat                | Low   |     |        |      | High   |
|                  |    | Dressing Percentage     | D%                      | Carcass weight / Live weight                                                                  | High dressing percentage  | Low   |     |        |      | High   |

\* Determined by own selection goal

### GENETIC VALUES - BUILDING BLOCKS

| Calf and Mother |           |           | Fertility    |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|--------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scrot. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 99              | 99        | 90        | 97           | 75           | 92        | 85      | 100              | 94  | 93  | 92            | 123    | 110    | 104     | 100 | 79  |
| 8               | 9         | 10        | 11           | 12           | 13        | 14      | 15               | 16  | 17  | 18            | 19     | 20     | 21      | 22  | 23  |

The Logix Selection Values are compiled of specific genetic building blocks, as indicated in the selection value descriptions on the previous page. These genetic building blocks are indicated in the catalogue by their Breeding Value Indices.

### PHENOTYPIC VALUES

| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH   |
|------------|------------|------------|-----------|-----------|---------|------|
| 109        | 104        | 105        | 122       | 117       | 327     | 1.22 |
|            |            |            | 16        | 17        | 11      | 24   |

- Wean, 365D, 540D, ADG and FCR Indices - phenotypic index obtained within the animal's contemporary group
- Scrotum - adjusted scrotal circumference, in mm, as measured during the growth test
- Length-Height Ratio (LH) - the animal's length / height ratio as measured during the growth test

## BULLS

**LOT 1** ARTHUR DE VILLIERS & SEUN

AG 220515  
2022-10-24  
SP

Parentage Sire Dam  
DNA ✓  
Genomic

MMJ 030204

MMJ 000319  
AGE/CALV. 12/6  
AVG. Wt/CALV. 106/5

MMJ 990225  
AGE/CALV. 5/3  
AVG. Wt/CALV. 101/3  
ICP 382

AG 070742  
AGE/CALV. 14/11  
AVG. Wt/CALV. 101/11

GJN 160334  
AGE/CALV. 8/5  
AVG. Wt/CALV. 96/5  
ICP 383

GJN 080155  
AGE/CALV. 12/10  
AVG. Wt/CALV. 99/10  
ICP 369

AG 960059  
MMJ 940186  
AGE/CALV. 12/6  
AVG. Wt/CALV. 106/5

MMJ 960190  
MMJ 950188  
AGE/CALV. 9/7  
AVG. Wt/CALV. 90/7

AG 080719  
AGE/CALV. 14/11  
AVG. Wt/CALV. 101/11

GJN 020101  
GJN 040198  
AGE/CALV. 9/8  
AVG. Wt/CALV. 101/7

|                    |                   |                 |                   |           |              |               |
|--------------------|-------------------|-----------------|-------------------|-----------|--------------|---------------|
| Calving Ease Value | Weaner Calf Value | Fertility Value | Maintenance Value | Cow Value | Growth Value | Carcass Value |
| 93                 | 92                | 92              | 107               | 89        | 96           | 90            |

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 92              | 91        | 111       | 107        | 98           | 97        | 96      | 95               | 95  | 95  | 91            | 88     | 76     | 105     | 117 | 104 |

|            |            |            |           |           |         |    |
|------------|------------|------------|-----------|-----------|---------|----|
| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
| 92         | 98         | 101        | -         | -         | -       | -  |

|           |            |
|-----------|------------|
| Myostatin |            |
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

**LOT 2** ARTHUR DE VILLIERS & SEUN

AG 220065  
2022-07-03  
SP

Parentage Sire Dam  
DNA ✓ ✓  
Genomic

AG 190008

AG 140090  
AGE/CALV. 15/9  
AVG. Wt/CALV. 100/8

AG 120137  
AGE/CALV. 12/9  
AVG. Wt/CALV. 103/8  
ICP 404

AG 120225

AG 190173  
AGE/CALV. 5/4  
AVG. Wt/CALV. 108/3  
ICP 404

AG 160406  
AGE/CALV. 8/5  
AVG. Wt/CALV. 106/5  
ICP 409

AG 090751  
AGE/CALV. 12/10  
AVG. Wt/CALV. 102/10

AG 060411  
GZV 080200  
AGE/CALV. 12/10  
AVG. Wt/CALV. 102/10

LAR 060034  
AG 040141  
AGE/CALV. 15/12  
AVG. Wt/CALV. 102/12

AG 090751  
AGE/CALV. 15/11

AG 090206  
AGE/CALV. 15/11

|                    |                   |                 |                   |           |              |               |
|--------------------|-------------------|-----------------|-------------------|-----------|--------------|---------------|
| Calving Ease Value | Weaner Calf Value | Fertility Value | Maintenance Value | Cow Value | Growth Value | Carcass Value |
| 93                 | 123               | 78              | 82                | 104       | 105          | 119           |

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 89              | 123       | 101       | 104        | 75           | 84        | 104     | 119              | 103 | 89  | 120           | 111    | 115    | 104     | 102 | 109 |

|            |            |            |           |           |         |    |
|------------|------------|------------|-----------|-----------|---------|----|
| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
| 119        | 112        | 101        | -         | -         | -       | -  |

|           |            |
|-----------|------------|
| Myostatin |            |
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

**LOT 3** ARTHUR DE VILLIERS & SEUN

AG 220306  
2022-10-03  
SP

Parentage Sire Dam  
DNA ✓ ✓  
Genomic

AG 190169 HH(c)

LAR 150116  
AGE/CALV. 13/10  
AVG. Wt/CALV. 100/10

AG 160874  
AGE/CALV. 8/6  
AVG. Wt/CALV. 100/5  
ICP 388

SYF 120100

AG 150717  
AGE/CALV. 9/7  
AVG. Wt/CALV. 105/6  
ICP 352

AG 090105  
AGE/CALV. 15/11  
AVG. Wt/CALV. 102/9  
ICP 438

WAT 110394  
LAR 110119  
AGE/CALV. 13/10  
AVG. Wt/CALV. 100/10

AG 100438  
AG 130708  
AGE/CALV. 9/8  
AVG. Wt/CALV. 99/8

ADV 070154  
SYF 070176  
AGE/CALV. 11/9  
AVG. Wt/CALV. 97/9

HJB 050052  
AG 040339  
AGE/CALV. 6/3  
AVG. Wt/CALV. 104/3

|                    |                   |                 |                   |           |              |               |
|--------------------|-------------------|-----------------|-------------------|-----------|--------------|---------------|
| Calving Ease Value | Weaner Calf Value | Fertility Value | Maintenance Value | Cow Value | Growth Value | Carcass Value |
| 89                 | 91                | 106             | 97                | 94        | 94           | 96            |

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 92              | 100       | 97        | 96         | 92           | 102       | 120     | 102              | 92  | 94  | 102           | 95     | 94     | 100     | 95  | 95  |

|            |            |            |           |           |         |    |
|------------|------------|------------|-----------|-----------|---------|----|
| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
| 99         | 100        | 102        | -         | -         | -       | -  |

|           |            |
|-----------|------------|
| Myostatin |            |
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## BULLE

**LOT 4** ARTHUR DE VILLIERS & SEUN

AG 220550  
2022-10-27  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 180486 HH(c)

AG 160469  
OUD/KALW. 8/7  
GEM. SI/KALW. 99/6  
TKP 367

AG 120225

AG 110394  
OUD/KALW. 13/10  
GEM. SI/KALW. 100/10  
TKP 429

AG 110215

AG 090173  
OUD/KALW. 15/13  
GEM. SI/KALW. 99/11  
TKP 372

LAR 060034

AG 040141  
OUD/KALW. 15/12  
GEM. SI/KALW. 102/12

VV 070012

AG 060446  
OUD/KALW. 13/11  
GEM. SI/KALW. 93/11

VV 070012

AG 020297  
OUD/KALW. 15/9  
GEM. SI/KALW. 108/9

AG 030026

AG 970124  
OUD/KALW. 15/13  
GEM. SI/KALW. 100/13

Geboortegemak Waarde 116

Speenkalf Waarde 106

Vrugbaarheids-waarde 106

Onderhouds-waarde 107

Koeiwaarde 111

Groei-waarde 103

Karkas-waarde 104

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 113            | 102       | 93        | 115          | 106         | 101         | 108    | 105            | 103 | 96  | 91          | 102    | 102    | 108    | 90  | 92  |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 99          | 103         | 95          | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

Q204X 0

NT821 Nie Getoets

F94L Nie Getoets

**LOT 5** ARTHUR DE VILLIERS & SEUN

AG 220357  
2022-10-08  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 190169 HH(c)

AG 160942  
OUD/KALW. 8/5  
GEM. SI/KALW. 97/5  
TKP 433

LAR 150116

AG 160874  
OUD/KALW. 8/6  
GEM. SI/KALW. 100/5  
TKP 388

CEW 110234

AG 090137  
OUD/KALW. 9/5  
GEM. SI/KALW. 96/5  
TKP 387

WAT 110394

LAR 110119  
OUD/KALW. 13/10  
GEM. SI/KALW. 100/10

AG 100438

AG 130708  
OUD/KALW. 9/8  
GEM. SI/KALW. 99/8

CEW 080156

CEW 080220 HH(c)  
OUD/KALW. 10/8  
GEM. SI/KALW. 100/8

HJB 050052

AG 070193  
OUD/KALW. 11/10  
GEM. SI/KALW. 99/10

Geboortegemak Waarde 73

Speenkalf Waarde 95

Vrugbaarheids-waarde 109

Onderhouds-waarde 99

Koeiwaarde 94

Groei-waarde 94

Karkas-waarde 100

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 72             | 108       | 94        | 103          | 97          | 101         | 124    | 109            | 92  | 90  | 100         | 89     | 88     | 109    | 99  | 104 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 95          | 108         | 90          | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

Q204X 0

NT821 Nie Getoets

F94L Nie Getoets

**LOT 6** ARTHUR DE VILLIERS & SEUN

AG 220312  
2022-10-04  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 160862 HH(c)

AG 150702  
OUD/KALW. 9/8  
GEM. SI/KALW. 100/7  
TKP 375

AG 110215

BBN 050035  
OUD/KALW. 16/13  
GEM. SI/KALW. 105/11  
TKP 368

BPJ 080013

AG 130011  
OUD/KALW. 11/9  
GEM. SI/KALW. 97/9  
TKP 386

VV 070012

AG 020297  
OUD/KALW. 15/9  
GEM. SI/KALW. 108/9

JRB 000170

BBN 950153  
OUD/KALW. 13/6  
GEM. SI/KALW. 105/6

BG 020058 Pp(c)

RCO 990248  
OUD/KALW. 21/14  
GEM. SI/KALW. 107/14

CEF 040462 HH(c)

AG 050045  
OUD/KALW. 14/10  
GEM. SI/KALW. 99/10

Geboortegemak Waarde 99

Speenkalf Waarde 114

Vrugbaarheids-waarde 121

Onderhouds-waarde 94

Koeiwaarde 123

Groei-waarde 105

Karkas-waarde 118

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 94             | 109       | 113       | 96           | 125         | 107         | 115    | 116            | 100 | 97  | 104         | 104    | 114    | 105    | 111 | 92  |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 104         | 113         | 105         | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

Q204X 0

NT821 Nie Getoets

F94L Nie Getoets



## BULLS

## LOT 7

ARTHUR DE VILLIERS &amp; SEUN

AG 220437 P  
2022-10-16  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

♂ AG 160087 HH(c)

AG 190125  
AGE/CALV. 5/4  
AVG. Wt/CALV. 115/3  
ICP 385

ADV 070154

♂ AG 020147  
AGE/CALV. 15/11  
AVG. Wt/CALV. 110/11  
ICP 404

AG 130115 PP(c)

AG 160792  
AGE/CALV. 8/6  
AVG. Wt/CALV. 105/4  
ICP 404LAR 030398  
ADV 030008  
AGE/CALV. 16/13  
AVG. Wt/CALV. 107/11AG 980200  
AG 990256  
AGE/CALV. 10/6  
AVG. Wt/CALV. 107/6♂ MCU 070007 P  
MCU 100005 P  
AGE/CALV. 10/7  
AVG. Wt/CALV. 103/7AG 110301  
AG 120377  
AGE/CALV. 12/9  
AVG. Wt/CALV. 101/6Calving Ease  
Value  
84Weaner Calf  
Value  
117Fertility  
Value  
79Maintenance  
Value  
86Cow Value  
100Growth  
Value  
109Carcass  
Value  
109

| Calf and Mother |           |            | Fertility  |              |           |         | Post-Wean Growth |                  |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|------------|------------|--------------|-----------|---------|------------------|------------------|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG              | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 78              | 115       | 117        | 84         | 72           | 79        | 111     | 118              | 102              | 94  | 114           | 95     | 106    | 113     | 111 | 100 |
| Wean Index      |           | 365D Index | 540D Index | ADG Index    | FCR Index | Scrotum | LH               | Myostatin        |     |               |        |        |         |     |     |
| 113             |           | 115        | 108        | -            | -         | -       | -                | Q204X 0          |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | NT821 Not Tested |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | F94L Not Tested  |     |               |        |        |         |     |     |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 8

ARTHUR DE VILLIERS &amp; SEUN

AG 220519  
2022-10-24  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

♂ AG 160409 HH(c)

AG 150484  
AGE/CALV. 9/7  
AVG. Wt/CALV. 106/6  
ICP 387

AG 130080

AG 100168  
AGE/CALV. 14/12  
AVG. Wt/CALV. 105/11  
ICP 401

AG 110192

AG 090330  
AGE/CALV. 14/11  
AVG. Wt/CALV. 100/11  
ICP 385AG 100163  
AG 080194  
AGE/CALV. 8/4  
AVG. Wt/CALV. 99/3  
AJF 040075♂ AG 030204  
AGE/CALV. 15/11  
AVG. Wt/CALV. 107/10

VV 070012

AG 030031  
AGE/CALV. 22/8  
AVG. Wt/CALV. 99/8

CEF 050503

AG 050317  
AGE/CALV. 16/12  
AVG. Wt/CALV. 100/12Calving Ease  
Value  
96Weaner Calf  
Value  
114Fertility  
Value  
97Maintenance  
Value  
97Cow Value  
108Growth  
Value  
90Carcass  
Value  
105

| Calf and Mother |           |            | Fertility  |              |           |         | Post-Wean Growth |                  |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|------------|------------|--------------|-----------|---------|------------------|------------------|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG              | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 91              | 112       | 104        | 111        | 92           | 91        | 116     | 105              | 90               | 90  | 101           | 83     | 93     | 99      | 116 | 100 |
| Wean Index      |           | 365D Index | 540D Index | ADG Index    | FCR Index | Scrotum | LH               | Myostatin        |     |               |        |        |         |     |     |
| 110             |           | 109        | 93         | -            | -         | -       | -                | Q204X 0          |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | NT821 Not Tested |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | F94L Not Tested  |     |               |        |        |         |     |     |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 9

ARTHUR DE VILLIERS &amp; SEUN

AG 220580  
2022-10-30  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

♂ AG 170019 HH(c)

AG 160241  
AGE/CALV. 8/7  
AVG. Wt/CALV. 102/6  
ICP 364

ADV 070154

AG 090743  
AGE/CALV. 13/11  
AVG. Wt/CALV. 106/11  
ICP 369

AG 100438

AG 120140  
AGE/CALV. 5/2  
AVG. Wt/CALV. 94/2  
ICP 442LAR 030398  
ADV 030008  
AGE/CALV. 16/13  
AVG. Wt/CALV. 107/11AJF 040075  
AG 060005  
AGE/CALV. 15/10  
AVG. Wt/CALV. 105/10

CSW 010014

AG 990115  
AGE/CALV. 14/11  
AVG. Wt/CALV. 102/11

♂ PAD 070093

AG 090394  
AGE/CALV. 9/3  
AVG. Wt/CALV. 105/3Calving Ease  
Value  
88Weaner Calf  
Value  
104Fertility  
Value  
87Maintenance  
Value  
106Cow Value  
96Growth  
Value  
84Carcass  
Value  
96

| Calf and Mother |           |            | Fertility  |              |           |         | Post-Wean Growth |                  |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|------------|------------|--------------|-----------|---------|------------------|------------------|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG              | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 88              | 99        | 120        | 92         | 92           | 77        | 113     | 101              | 85               | 85  | 91            | 97     | 97     | 104     | 92  | 81  |
| Wean Index      |           | 365D Index | 540D Index | ADG Index    | FCR Index | Scrotum | LH               | Myostatin        |     |               |        |        |         |     |     |
| 99              |           | 103        | 94         | -            | -         | -       | -                | Q204X 0          |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | NT821 Not Tested |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |         |                  | F94L Not Tested  |     |               |        |        |         |     |     |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## BULLE

**LOT 10** ARTHUR DE VILLIERS & SEUN

AG 220514  
2022-10-24  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 180905 HH(c)

AG 200488  
OUD/KALW. 3/2  
GEM. SI/KALW. 107/1  
TKP 347

AG 110362

AG 140377  
OUD/KALW. 10/7  
GEM. SI/KALW. 103/7  
TKP 405

AG 070480  
CEP 060010  
OUD/KALW. 9/6  
GEM. SI/KALW. 98/6

AG 120070 HH(c)

AG 110416  
OUD/KALW. 11/8  
GEM. SI/KALW. 98/7

AG 070480  
CEP 060010  
OUD/KALW. 9/6  
GEM. SI/KALW. 98/6

HCO 090044

AG 040033  
OUD/KALW. 16/12  
GEM. SI/KALW. 100/11

Geboortegemak Waarde 114

Speenkalf Waarde 110

Vrugbaarheids-waarde 99

Onderhouds-waarde 116

Koeiwaarde 114

Groei-waarde 88

Karkas-waarde 87

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 115            | 93        | 122       | 98           | 122         | 72          | 113    | 96             | 88  | 96  | 85          | 84     | 86     | 83     | 80  | 100 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 107         | 95          | 103         | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

|       |             |
|-------|-------------|
| Q204X | 0           |
| NT821 | Nie Getoets |
| F94L  | Nie Getoets |

**LOT 11** ARTHUR DE VILLIERS & SEUN

AG 220463  
2022-10-19  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 180935 HH(c)

AG 170022  
OUD/KALW. 8/6  
GEM. SI/KALW. 101/5  
TKP 399

AG 160088

AG 150175  
OUD/KALW. 4/2  
GEM. SI/KALW. 109/2  
TKP 369

AG 110192

AG 050399  
OUD/KALW. 12/11  
GEM. SI/KALW. 99/11  
TKP 369

AG 130024 HH(c)

AG 090181  
OUD/KALW. 7/5  
GEM. SI/KALW. 97/5

AG 110192

AG 020245  
OUD/KALW. 15/12  
GEM. SI/KALW. 103/12

VV 070012

AG 030031  
OUD/KALW. 22/8  
GEM. SI/KALW. 99/8

LAR 010176

AG 000238  
OUD/KALW. 15/11  
GEM. SI/KALW. 100/9

Geboortegemak Waarde 118

Speenkalf Waarde 94

Vrugbaarheids-waarde 124

Onderhouds-waarde 108

Koeiwaarde 110

Groei-waarde 90

Karkas-waarde 94

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 115            | 96        | 81        | 119          | 126         | 110         | 116    | 101            | 95  | 94  | 92          | 83     | 90     | 93     | 95  | 102 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 94          | 111         | 96          | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

|       |             |
|-------|-------------|
| Q204X | 0           |
| NT821 | Nie Getoets |
| F94L  | Nie Getoets |

**LOT 12** ARTHUR DE VILLIERS & SEUN

AG 220613  
2022-11-03  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 190037 HH(c)

AG 140233  
OUD/KALW. 10/7  
GEM. SI/KALW. 104/7  
TKP 421

AG 160067

AG 160373  
OUD/KALW. 3/1  
GEM. SI/KALW. 105/1  
TKP -

TOR 050216

AG 050269  
OUD/KALW. 13/9  
GEM. SI/KALW. 99/8  
TKP 459

ADV 070154

AG 070340  
OUD/KALW. 15/12  
GEM. SI/KALW. 103/10

AG 130728

AG 120187  
OUD/KALW. 5/3  
GEM. SI/KALW. 104/2

AG 010051

RAI 020013  
OUD/KALW. 3/2  
GEM. SI/KALW. 110/2

AG 980012

MBZ 960203  
OUD/KALW. 15/12  
GEM. SI/KALW. 103/13

Geboortegemak Waarde 94

Speenkalf Waarde 106

Vrugbaarheids-waarde 81

Onderhouds-waarde 94

Koeiwaarde 96

Groei-waarde 91

Karkas-waarde 96

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 97             | 105       | 113       | 84           | 87          | 78          | 104    | 104            | 94  | 94  | 105         | 94     | 91     | 99     | 89  | 87  |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 115         | 117         | 101         | -          | -          | -       | -  |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

Miostatien

|       |             |
|-------|-------------|
| Q204X | 0           |
| NT821 | Nie Getoets |
| F94L  | Nie Getoets |

## BULLS

## LOT 13 ARTHUR DE VILLIERS &amp; SEUN

AG 220181  
2022-09-22  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

AG 180747 HH(c)



AG 160351  
AGE/CALV. 8/6  
AVG. Wt/CALV. 98/5  
ICP 373

AG 120070 HH(c)

AG 130236  
AGE/CALV. 11/10  
AVG. Wt/CALV. 104/9  
ICP 383

AG 110317

AG 120434  
AGE/CALV. 12/10  
AVG. Wt/CALV. 99/9  
ICP 380

AG 070742

AG 080719  
AGE/CALV. 14/11  
AVG. Wt/CALV. 101/11

TOR 050216

AG 080798  
AGE/CALV. 16/13  
AVG. Wt/CALV. 106/11

VV 070012

AG 030322  
AGE/CALV. 9/7  
AVG. Wt/CALV. 103/7

AG 090094

AG 100259  
AGE/CALV. 5/2  
AVG. Wt/CALV. 106/2

Calving Ease  
Value  
104

Weaner Calf  
Value  
96

Fertility  
Value  
74

Maintenance  
Value  
116

Cow Value  
85

Growth  
Value  
71

Carcass  
Value  
85

| Calf and Mother |           |            | Fertility  |              |           |           | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|------------|------------|--------------|-----------|-----------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev.   | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 101             | 94        | 97         | 109        | 77           | 70        | 109       | 91               | 77  | 77  | 85            | 65     | 65     | 93      | 108 | 102 |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
| Wean Index      |           | 365D Index | 540D Index |              | ADG Index | FCR Index | Scrotum          | LH  |     |               |        |        |         |     |     |
| 97              |           | 113        | 94         |              | -         | -         | -                | -   |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |
|                 |           |            |            |              |           |           |                  |     |     |               |        |        |         |     |     |

| Myostatin |            |
|-----------|------------|
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 14 ARTHUR DE VILLIERS &amp; SEUN

AG 220669  
2022-11-09  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

AG 180486 HH(c)



AG 160001  
AGE/CALV. 8/5  
AVG. Wt/CALV. 100/5  
ICP 371

AG 120225

AG 110394  
AGE/CALV. 13/10  
AVG. Wt/CALV. 100/10  
ICP 429

AG 080409

AG 110110  
AGE/CALV. 10/8  
AVG. Wt/CALV. 97/7  
ICP 374

LAR 060034

AG 040141  
AGE/CALV. 15/12  
AVG. Wt/CALV. 102/12

VV 070012

AG 060446  
AGE/CALV. 13/11  
AVG. Wt/CALV. 93/11

LAR 030398

AG 020165  
AGE/CALV. 15/12  
AVG. Wt/CALV. 101/12

AG 060401

AG 050206  
AGE/CALV. 8/6  
AVG. Wt/CALV. 100/6

Calving Ease  
Value  
131

Weaner Calf  
Value  
99

Fertility  
Value  
92

Maintenance  
Value  
125

Cow Value  
102

Growth  
Value  
91

Carcass  
Value  
89

| Calf and Mother |           |            | Fertility  |              |           |           | Post-Wean Growth |           |     | Frame         |        |        | Carcass |           |     |
|-----------------|-----------|------------|------------|--------------|-----------|-----------|------------------|-----------|-----|---------------|--------|--------|---------|-----------|-----|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev.   | Post Wean        | ADG       | FCR | Mature Weight | Height | Length | EMA     | Fat       | Mar |
| 128             | 87        | 94         | 104        | 91           | 94        | 103       | 91               | 92        | 91  | 80            | 90     | 86     | 99      | 84        | 102 |
| Wean Index      |           | 365D Index |            | 540D Index   |           | ADG Index |                  | FCR Index |     | Scrotum       |        | LH     |         | Myostatin |     |
| 91              |           | 97         |            | 99           |           | -         |                  | -         |     | -             |        | -      |         | Q204X 0   |     |

| Myostatin |            |
|-----------|------------|
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 15 ARTHUR DE VILLIERS &amp; SEUN

AG 220403  
2022-10-13  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

GT 180060 HH(c)



AG 180055  
AGE/CALV. 7/6  
AVG. Wt/CALV. 97/5  
ICP 361

AG 130024 HH(c)

HCO 070086  
AGE/CALV. 16/10  
AVG. Wt/CALV. 100/8  
ICP 466

AG 130080

AG 110706  
AGE/CALV. 9/7  
AVG. Wt/CALV. 99/5  
ICP 412

AG 090751

HJB 030230  
AGE/CALV. 14/9  
AVG. Wt/CALV. 99/8

VV 030346

EI 980066  
AGE/CALV. 14/12  
AVG. Wt/CALV. 100/12

AG 100163

AG 080194  
AGE/CALV. 8/4  
AVG. Wt/CALV. 99/3

AG 090097

AG 080268  
AGE/CALV. 7/4  
AVG. Wt/CALV. 105/3

Calving Ease  
Value  
107

Weaner Calf  
Value  
103

Fertility  
Value  
121

Maintenance  
Value  
132

Cow Value  
116

Growth  
Value  
89

Carcass  
Value  
96

| Calf and Mother |           |            | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |           |   |
|-----------------|-----------|------------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----------|---|
| Birth Dir.      | Wean Dir. | Wean Mat.  | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar       |   |
| 109             | 94        | 98         | 109        | 129          | 107       | 108     | 93               | 90  | 88  | 73            | 82     | 80     | 88      | 114 | 86        |   |
|                 |           |            |            |              |           |         |                  |     |     |               |        |        |         |     |           |   |
| Wean Index      |           | 365D Index | 540D Index | ADG Index    | FCR Index | Scrotum | LH               |     |     |               |        |        |         |     | Myostatin |   |
| 96              |           | 91         | 101        | -            | -         | -       | -                |     |     |               |        |        |         |     | Q204X     | 0 |

| Myostatin |            |
|-----------|------------|
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

BULLE

**LOT 16**
**ARTHUR DE VILLIERS & SEUN**



**AG 220565**  
2022-10-29  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies



**AG 170206**  
OUD/KALW. 7/6  
GEM. SI/KALW. 103/5  
TKP 397

**AG 120020**

**AG 110030**  
OUD/KALW. 14/10  
GEM. SI/KALW. 103/10  
TKP 415

**AG 080409**

**AG 110305**  
OUD/KALW. 13/9  
GEM. SI/KALW. 100/8  
TKP 451

**AG 080210**  
OUD/KALW. 15/12  
GEM. SI/KALW. 90/11

**AG 070421**  
OUD/KALW. 15/12  
GEM. SI/KALW. 90/11

**AG 060027**

**AG 020200**  
OUD/KALW. 15/11  
GEM. SI/KALW. 101/9

**LAR 030398**

**AG 020165**  
OUD/KALW. 15/12  
GEM. SI/KALW. 101/12

**PAD 070064**

**AG 030272**  
OUD/KALW. 13/11  
GEM. SI/KALW. 96/11

**Geboortegemak Waarde**  
**94**

**Speenkalf Waarde**  
**101**

**Vrugbaarheids-waarde**  
**114**

**Onderhouds-waarde**  
**105**

**Koeiwaarde**  
**107**

**Groei-waarde**  
**89**

**Karkas-waarde**  
**95**

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 93             | 101       | 103       | 113          | 104         | 112         | 109    | 100            | 92  | 93  | 93          | 81     | 89     | 101    | 92  | 119 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 102         | 115         | 98          | -          | -          | -       | -  |

**OPMERKINGS:**

**LOGIX** EBV Analise: 2025-04-21

| Miostatien |             |
|------------|-------------|
| Q204X      | 0           |
| NT821      | Nie Getoets |
| F94L       | Nie Getoets |

**LOT 17**
**ARTHUR DE VILLIERS & SEUN**



**AG 220716**  
2022-11-15  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies



**AG 160267**  
OUD/KALW. 8/6  
GEM. SI/KALW. 98/5  
TKP 399

**AG 120225**

**AG 110394**  
OUD/KALW. 13/10  
GEM. SI/KALW. 100/10  
TKP 429

**GZV 120062**

**AG 120461**  
OUD/KALW. 12/9  
GEM. SI/KALW. 93/8  
TKP 383

**LAR 060034**

**AG 040141**  
OUD/KALW. 15/12  
GEM. SI/KALW. 102/12

**VV 070012**

**AG 060446**  
OUD/KALW. 13/11  
GEM. SI/KALW. 93/11

**AG 090483**

**AG 080251**  
OUD/KALW. 10/6  
GEM. SI/KALW. 103/6

**AG 070742**

**AG 070736**  
OUD/KALW. 10/8  
GEM. SI/KALW. 99/8

**Geboortegemak Waarde**  
**119**

**Speenkalf Waarde**  
**102**

**Vrugbaarheids-waarde**  
**75**

**Onderhouds-waarde**  
**109**

**Koeiwaarde**  
**94**

**Groei-waarde**  
**91**

**Karkas-waarde**  
**96**

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 117            | 96        | 97        | 105          | 73          | 72          | 116    | 99             | 92  | 87  | 90          | 88     | 87     | 103    | 96  | 100 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 105         | 113         | 98          | -          | -          | -       | -  |

**OPMERKINGS:**

**LOGIX** EBV Analise: 2025-04-21

| Miostatien |             |
|------------|-------------|
| Q204X      | 1           |
| NT821      | Nie Getoets |
| F94L       | Nie Getoets |

**LOT 18**
**ARTHUR DE VILLIERS & SEUN**



**AG 220821**  
2022-12-02  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies



**AG 170717**  
OUD/KALW. 7/6  
GEM. SI/KALW. 102/5  
TKP 379

**AG 110192**

**AG 120105**  
OUD/KALW. 8/6  
GEM. SI/KALW. 105/6  
TKP 342

**AG 080409**

**AG 110071**  
OUD/KALW. 14/11  
GEM. SI/KALW. 109/10  
TKP 380

**VV 070012**

**AG 030031**  
OUD/KALW. 22/8  
GEM. SI/KALW. 99/8

**FCT 060109**

**AG 090276**  
OUD/KALW. 11/9  
GEM. SI/KALW. 105/10

**LAR 030398**

**AG 020165**  
OUD/KALW. 15/12  
GEM. SI/KALW. 101/12

**AJF 040075**

**AG 050307**  
OUD/KALW. 13/11  
GEM. SI/KALW. 102/11

**Geboortegemak Waarde**  
**81**

**Speenkalf Waarde**  
**116**

**Vrugbaarheids-waarde**  
**101**

**Onderhouds-waarde**  
**88**

**Koeiwaarde**  
**108**

**Groei-waarde**  
**106**

**Karkas-waarde**  
**121**

| Kalf en Moeder |           |           | Vrugbaarheid |             |             |        | Na-Speen Groei |     |     | Raam        |        |        | Karkas |     |     |
|----------------|-----------|-----------|--------------|-------------|-------------|--------|----------------|-----|-----|-------------|--------|--------|--------|-----|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat. | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl. | Na-Speen       | GDT | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet | Mar |
| 74             | 125       | 91        | 133          | 90          | 99          | 115    | 118            | 108 | 106 | 113         | 98     | 111    | 116    | 114 | 104 |

| Spn. Indeks | 365D Indeks | 540D Indeks | GDT Indeks | VOV Indeks | Skrotum | LH |
|-------------|-------------|-------------|------------|------------|---------|----|
| 106         | 116         | 105         | -          | -          | -       | -  |

**OPMERKINGS:**

**LOGIX** EBV Analise: 2025-04-21

| Miostatien |             |
|------------|-------------|
| Q204X      | 0           |
| NT821      | Nie Getoets |
| F94L       | Nie Getoets |

## BULLS

## LOT 19 ARTHUR DE VILLIERS &amp; SEUN

AG 220799  
2022-11-26  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

AG 170019 HH(c)



AG 160110  
AGE/CALV. 9/7  
AVG. Wt/CALV. 96/6  
ICP 373

ADV 070154

AG 090743  
AGE/CALV. 13/11  
AVG. Wt/CALV. 106/11  
ICP 369

AG 100080

AG 110324  
AGE/CALV. 13/5  
AVG. Wt/CALV. 98/5  
ICP 450

LAR 030398

ADV 030008  
AGE/CALV. 16/13  
AVG. Wt/CALV. 107/11

AJF 040075

AG 060005  
AGE/CALV. 15/10  
AVG. Wt/CALV. 105/10

LAR 040233

AG 050239  
AGE/CALV. 5/3  
AVG. Wt/CALV. 104/3

AG 060151

AG 050291  
AGE/CALV. 15/12  
AVG. Wt/CALV. 95/10Calving Ease  
Value  
**83**Weaner Calf  
Value  
**101**Fertility  
Value  
**84**Maintenance  
Value  
**93**Cow Value  
**89**Growth  
Value  
**88**Carcass  
Value  
**98**

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 85              | 106       | 107       | 82         | 85           | 76        | 115     | 106              | 89  | 81  | 105           | 94     | 94     | 104     | 84  | 91  |

| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
|------------|------------|------------|-----------|-----------|---------|----|
| 95         | 104        | 97         | -         | -         | -       | -  |

| Myostatin |            |
|-----------|------------|
| Q204X     | 1          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 20 ARTHUR DE VILLIERS &amp; SEUN

AG 220781  
2022-11-23  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

AG 170019 HH(c)



AG 150523  
AGE/CALV. 9/8  
AVG. Wt/CALV. 104/6  
ICP 383

ADV 070154

AG 090743  
AGE/CALV. 13/11  
AVG. Wt/CALV. 106/11  
ICP 369

HCO 110045

AG 060625  
AGE/CALV. 13/11  
AVG. Wt/CALV. 104/10  
ICP 399

LAR 030398

ADV 030008  
AGE/CALV. 16/13  
AVG. Wt/CALV. 107/11

AJF 040075

AG 060005  
AGE/CALV. 15/10  
AVG. Wt/CALV. 105/10

AG 040289

T 030050  
AGE/CALV. 8/5  
AVG. Wt/CALV. 107/4

AG 020042

AG 950506  
AGE/CALV. 14/5  
AVG. Wt/CALV. 103/5Calving Ease  
Value  
**83**Weaner Calf  
Value  
**117**Fertility  
Value  
**95**Maintenance  
Value  
**87**Cow Value  
**108**Growth  
Value  
**94**Carcass  
Value  
**112**

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 82              | 115       | 119       | 101        | 96           | 86        | 111     | 110              | 92  | 83  | 113           | 104    | 107    | 111     | 89  | 89  |

| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
|------------|------------|------------|-----------|-----------|---------|----|
| 118        | 113        | 105        | -         | -         | -       | -  |

| Myostatin |            |
|-----------|------------|
| Q204X     | 1          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21

## LOT 21 ARTHUR DE VILLIERS &amp; SEUN

AG 220871  
2022-12-22  
SP

Parentage Sire Dam

DNA ✓ ✓

Genomic

AG 170012 HH(c)



AG 140175  
AGE/CALV. 11/8  
AVG. Wt/CALV. 102/8  
ICP 383

AG 110192

AG 120105  
AGE/CALV. 8/6  
AVG. Wt/CALV. 105/6  
ICP 342

AG 080311

AG 070318  
AGE/CALV. 14/8  
AVG. Wt/CALV. 102/8  
ICP 503

VV 070012

AG 030031  
AGE/CALV. 22/8  
AVG. Wt/CALV. 99/8

FCT 060109

AG 090276  
AGE/CALV. 11/9  
AVG. Wt/CALV. 105/10

JJ 040115

AG 050224  
AGE/CALV. 13/10  
AVG. Wt/CALV. 89/9

WAT 030085

AG 030241  
AGE/CALV. 13/11  
AVG. Wt/CALV. 98/10Calving Ease  
Value  
**107**Weaner Calf  
Value  
**106**Fertility  
Value  
**111**Maintenance  
Value  
**98**Cow Value  
**111**Growth  
Value  
**107**Carcass  
Value  
**112**

| Calf and Mother |           |           | Fertility  |              |           |         | Post-Wean Growth |     |     | Frame         |        |        | Carcass |     |     |
|-----------------|-----------|-----------|------------|--------------|-----------|---------|------------------|-----|-----|---------------|--------|--------|---------|-----|-----|
| Birth Dir.      | Wean Dir. | Wean Mat. | Scr. Circ. | Heifer Fert. | Cow Fert. | Longev. | Post Wean        | ADG | FCR | Mature Weight | Height | Length | EMA     | Fat | Mar |
| 103             | 107       | 93        | 125        | 97           | 112       | 113     | 107              | 106 | 103 | 101           | 95     | 105    | 106     | 118 | 108 |

| Wean Index | 365D Index | 540D Index | ADG Index | FCR Index | Scrotum | LH |
|------------|------------|------------|-----------|-----------|---------|----|
| 98         | 103        | 102        | -         | -         | -       | -  |

| Myostatin |            |
|-----------|------------|
| Q204X     | 0          |
| NT821     | Not Tested |
| F94L      | Not Tested |

REMARKS:

LOGIX EBV Analysis: 2025-04-21



## BULLE

## LOT 22 ARTHUR DE VILLIERS &amp; SEUN

AG 220755  
2022-11-20  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 170366 HH(c)

AG 180338  
OUD/KALW. 6/3  
GEM. SI/KALW. 108/2  
TKP 508

AG 110215

AG 100734  
OUD/KALW. 11/9  
GEM. SI/KALW. 101/9  
TKP 371

AG 150289

AG 150056  
OUD/KALW. 4/2  
GEM. SI/KALW. 105/2  
TKP 456

VV 070012

AG 020297  
OUD/KALW. 15/9  
GEM. SI/KALW. 108/9

AG 060401

AG 020147  
OUD/KALW. 15/11  
GEM. SI/KALW. 110/11

AG 120225

AG 120486  
OUD/KALW. 6/4  
GEM. SI/KALW. 101/3

AG 120070 HH(c)

AG 090738  
OUD/KALW. 13/9  
GEM. SI/KALW. 101/8Geboortegemak  
Waarde  
90Speenkalf  
Waarde  
105Vrugbaarheids-  
waarde  
73Onderhouds-  
waarde  
100Koeiwaarde  
87Groei-  
waarde  
94Karkas-  
waarde  
96

| Kalf en Moeder |           |             | Vrugbaarheid |             |             |            | Na-Speen Groei |            |     | Raam        |        |        | Karkas |                   |     |
|----------------|-----------|-------------|--------------|-------------|-------------|------------|----------------|------------|-----|-------------|--------|--------|--------|-------------------|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat.   | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl.     | Na-Speen       | GDT        | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet               | Mar |
| 86             | 108       | 95          | 95           | 77          | 74          | 103        | 107            | 93         | 85  | 98          | 91     | 90     | 109    | 93                | 88  |
| Spn. Indeks    |           | 365D Indeks |              | 540D Indeks |             | GDT Indeks |                | VOV Indeks |     | Skrotum     |        | LH     |        | Miostatien        |     |
| 109            |           | 113         |              | 100         |             | -          |                | -          |     | -           |        | -      |        | Q204X 1           |     |
|                |           |             |              |             |             |            |                |            |     |             |        |        |        | NT821 Nie Getoets |     |
|                |           |             |              |             |             |            |                |            |     |             |        |        |        | F94L Nie Getoets  |     |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

## LOT 23 ARTHUR DE VILLIERS &amp; SEUN

AG 220336  
2022-10-05  
SP

Ouerskap Vaar Moer

DNS ✓ ✓

Genomies

AG 180747 HH(c)

AG 150450  
OUD/KALW. 7/5  
GEM. SI/KALW. 92/5  
TKP 379

AG 120070 HH(c)

AG 130236  
OUD/KALW. 11/10  
GEM. SI/KALW. 104/9  
TKP 383

AG 110215

AG 080054  
OUD/KALW. 14/11  
GEM. SI/KALW. 106/11  
TKP 382

AG 070742

AG 080719  
OUD/KALW. 14/11  
GEM. SI/KALW. 101/11

TOR 050216

AG 080798  
OUD/KALW. 16/13  
GEM. SI/KALW. 106/11

VV 070012

AG 020297  
OUD/KALW. 15/9  
GEM. SI/KALW. 108/9

AG 030181

VLT 020003  
OUD/KALW. 13/10  
GEM. SI/KALW. 97/10Geboortegemak  
Waarde  
87Speenkalf  
Waarde  
101Vrugbaarheids-  
waarde  
79Onderhouds-  
waarde  
101Koeiwaarde  
86Groei-  
waarde  
82Karkas-  
waarde  
98

| Kalf en Moeder |           |             | Vrugbaarheid |             |             |            | Na-Speen Groei |            |     | Raam        |        |        | Karkas |                   |     |
|----------------|-----------|-------------|--------------|-------------|-------------|------------|----------------|------------|-----|-------------|--------|--------|--------|-------------------|-----|
| Geb. Dir.      | Spn. Dir. | Spn. Mat.   | Skr. Omtr.   | Vers Vrugb. | Koei Vrugb. | Lankl.     | Na-Speen       | GDT        | VOV | Volw. Gewig | Hoogte | Lengte | OSO    | Vet               | Mar |
| 84             | 106       | 96          | 107          | 69          | 90          | 99         | 100            | 89         | 84  | 97          | 83     | 81     | 100    | 114               | 107 |
| Spn. Indeks    |           | 365D Indeks |              | 540D Indeks |             | GDT Indeks |                | VOV Indeks |     | Skrotum     |        | LH     |        | Miostatien        |     |
| 108            |           | 113         |              | 98          |             | -          |                | -          |     | -           |        | -      |        | Q204X 0           |     |
|                |           |             |              |             |             |            |                |            |     |             |        |        |        | NT821 Nie Getoets |     |
|                |           |             |              |             |             |            |                |            |     |             |        |        |        | F94L Nie Getoets  |     |

OPMERKINGS:

LOGIX EBV Analise: 2025-04-21

| Dier Info                     |           |     |     | Actual Values |              |           |           |                     |                 | Expected Breeding Values |                |               |               |                |                     |           |             |                 |              | Indices     |      |     | Dam        |                 |            |             |
|-------------------------------|-----------|-----|-----|---------------|--------------|-----------|-----------|---------------------|-----------------|--------------------------|----------------|---------------|---------------|----------------|---------------------|-----------|-------------|-----------------|--------------|-------------|------|-----|------------|-----------------|------------|-------------|
| LOT                           | Animal ID | Sex | SEC | Birth Wt (kg) | 205d Wt (kg) | CCB Ratio | CCW Ratio | Length Height Ratio | Scr. Circ. (mm) | Birth Dir (kg)           | Birth Mat (kg) | Wean Dir (kg) | Wean Mat (kg) | Post Wean (kg) | Mature Weight. (kg) | ADG (g/d) | FCR (kg:kg) | Scr. Circ. (mm) | Height. (mm) | Length (mm) | Wean | ADG | Scr. Circ. | Avg. Wean Index | Nr. Calves | Repr. Index |
| Breed Average Auction Average |           |     |     | 36            | 240          | 7.86      | 41.1      | -                   | -               | 1.01 1.48                | -0.31 -0.62    | 14.5 16.6     | 3.6 4.3       | 24 32          | 22 18               | 76 53     | -36 -22     | 12.2 14.5       | -3.0 -9      | 13.0 8      | 103  | -   | 104        | 102             | 6.0        | 110         |
| 1                             | AG 220515 | M   | SP  | 39            | 230          | -         | 40.6      | -                   | -               | 1.82                     | -0.39          | 9.7           | 6.8           | 21.9           | 7.9                 | 56        | -29         | 16              | -12          | -8          | 92   | -   | 107        | 96              | 5          | 102         |
| 2                             | AG 220065 | M   | SP  | 38            | 353          | 6.73      | -         | -                   | -               | 2.12                     | -0.88          | 26.8          | 4.0           | 46.9           | 51.5                | 86        | -18         | 14.5            | 6            | 26          | 119  | -   | 104        | 108             | 4          | 115         |
| 3                             | AG 220306 | M   | SP  | 38            | 242          | -         | 41.2      | -                   | -               | 1.85                     | 0.18           | 14.7          | 2.6           | 29.4           | 24.4                | 47        | -27         | 10              | -7           | 8           | 99   | -   | 96         | 105             | 7          | 110         |
| 4                             | AG 220550 | M   | SP  | 33            | 237          | -         | 41.9      | -                   | -               | -0.31                    | -1.42          | 15.5          | 1.5           | 34.0           | 8.8                 | 88        | -29         | 20.8            | -1           | 15          | 99   | -   | 115        | 99              | 7          | 119         |
| 5                             | AG 220357 | M   | SP  | 44            | 240          | -         | 45.4      | -                   | -               | 3.94                     | 0.70           | 18.7          | 1.7           | 35.1           | 21.3                | 45        | -20         | 14.1            | -11          | 3           | 95   | -   | 103        | 97              | 5          | 102         |
| 6                             | AG 220312 | M   | SP  | 36            | 251          | 7.2       | 52        | -                   | -               | 1.61                     | -1.02          | 19.1          | 7.5           | 44.1           | 28.1                | 77        | -31         | 9.8             | 0            | 26          | 104  | -   | 96         | 100             | 8          | 116         |
| 7                             | AG 220437 | M   | SP  | 43            | 276          | 10.12     | 46.5      | -                   | -               | 3.26                     | -1.26          | 22.7          | 8.6           | 45.9           | 42.3                | 85        | -27         | 3               | -6           | 18          | 113  | -   | 84         | 115             | 4          | 116         |
| 8                             | AG 220519 | M   | SP  | 36            | 263          | -         | 39.4      | -                   | -               | 1.94                     | -1.23          | 20.7          | 4.8           | 33.3           | 23.5                | 39        | -20         | 18.8            | -16          | 7           | 110  | -   | 111        | 106             | 7          | 107         |
| 9                             | AG 220580 | M   | SP  | 36            | 240          | -         | 42.9      | -                   | -               | 2.22                     | -0.18          | 13.8          | 9.5           | 28.0           | 8.3                 | 20        | -12         | 7.7             | -5           | 10          | 99   | -   | 92         | 102             | 7          | 119         |
| 10                            | AG 220514 | M   | SP  | 29            | 191          | -         | -         | -                   | -               | -0.52                    | -0.28          | 10.7          | 10.1          | 23.6           | -0.2                | 31        | -29         | 11.1            | -15          | 2           | 107  | -   | 98         | 107             | 2          | 125         |
| 11                            | AG 220463 | M   | SP  | 28            | 222          | -         | 41.4      | -                   | -               | -0.55                    | -1.47          | 12.6          | -2.0          | 28.8           | 9.2                 | 57        | -27         | 23.2            | -16          | 5           | 94   | -   | 119        | 101             | 6          | 108         |
| 12                            | AG 220613 | M   | SP  | 38            | 276          | -         | 40.2      | -                   | -               | 1.32                     | 0.25           | 17.3          | 7.5           | 30.5           | 28.6                | 54        | -27         | 2.8             | -7           | 6           | 115  | -   | 84         | 104             | 7          | 98          |
| 13                            | AG 220181 | M   | SP  | 33            | 233          | -         | -         | -                   | -               | 0.88                     | -0.74          | 11.3          | 2.6           | 17.7           | 0.3                 | -10       | 1           | 17.4            | -30          | -17         | 97   | -   | 109        | 98              | 6          | 108         |
| 14                            | AG 220669 | M   | SP  | 33            | 221          | -         | 35.9      | -                   | -               | -1.86                    | -0.91          | 7.6           | 1.8           | 19.7           | -7.6                | 45        | -21         | 14.8            | -10          | 1           | 91   | -   | 104        | 100             | 5          | 105         |
| 15                            | AG 220403 | M   | SP  | 34            | 233          | -         | -         | -                   | -               | 0.09                     | -0.08          | 11.1          | 3.1           | 20.5           | -17.8               | 38        | -17         | 17.4            | -16          | -4          | 96   | -   | 109        | 97              | 6          | 124         |
| 16                            | AG 220565 | M   | SP  | 34            | 245          | -         | 44.2      | -                   | -               | 1.74                     | -0.53          | 15.0          | 4.6           | 26.9           | 11.4                | 46        | -25         | 19.8            | -17          | 4           | 102  | -   | 113        | 103             | 6          | 113         |
| 17                            | AG 220716 | M   | SP  | 34            | 252          | -         | 41.2      | -                   | -               | -0.72                    | -0.67          | 12.5          | 2.8           | 26.8           | 7.1                 | 46        | -16         | 14.8            | -12          | 2           | 105  | -   | 105        | 98              | 6          | 103         |
| 18                            | AG 220821 | M   | SP  | 40            | 216          | -         | 44        | -                   | -               | 3.70                     | -0.50          | 27.8          | 1.1           | 45.3           | 40.6                | 108       | -46         | 31              | -4           | 23          | 106  | -   | 133        | 102             | 6          | 117         |
| 19                            | AG 220799 | M   | SP  | 40            | 197          | -         | 33.4      | -                   | -               | 2.56                     | 0.04           | 17.7          | 5.7           | 33.0           | 29.2                | 34        | -6          | 1.7             | -7           | 8           | 95   | -   | 82         | 96              | 7          | 113         |
| 20                            | AG 220781 | M   | SP  | 39            | 234          | -         | 37.6      | -                   | -               | 2.91                     | -0.43          | 22.6          | 9.2           | 37.1           | 40.0                | 46        | -8          | 13              | 0            | 20          | 118  | -   | 101        | 104             | 8          | 115         |
| 21                            | AG 220871 | M   | SP  | 31            | 193          | -         | 30.8      | -                   | -               | 0.75                     | -1.23          | 18.0          | 1.5           | 35.7           | 23.2                | 99        | -41         | 26.7            | -7           | 18          | 98   | -   | 125        | 102             | 8          | 110         |
| 22                            | AG 220755 | M   | SP  | 38            | 218          | 7.38      | 42.1      | -                   | -               | 2.48                     | -1.29          | 19.0          | 2.2           | 34.8           | 19.1                | 49        | -11         | 9.4             | -10          | 5           | 109  | -   | 95         | 108             | 3          | 89          |
| 23                            | AG 220336 | M   | SP  | 38            | 262          | -         | -         | -                   | -               | 2.72                     | -0.85          | 17.7          | 2.5           | 27.5           | 17.4                | 36        | -11         | 16              | -15          | -3          | 108  | -   | 107        | 92              | 5          | 107         |

| EXPLANATION OF CATALOGUE ABBREVIATIONS                  |                 |                  | VERDUIDELIKING VAN KATALOGUS AFKORTINGS                     |  |
|---------------------------------------------------------|-----------------|------------------|-------------------------------------------------------------|--|
| Lot Number                                              | LOT             | LOT              | Lot Nommer                                                  |  |
| Estimated breeding value                                | EBV             | EBV              | Beraamde teelwaarde                                         |  |
| Parentage verification                                  | Parentage       | Ouerskap         | Ouerskap verifikasie                                        |  |
| Age in years / Number of calvings                       | AGE. / CALV.    | OUD. / KALF.     | Ouderdom in jaar / Aantal kalwings                          |  |
| Average Wean index / Number of calves weaned            | Ave WI / CALV.  | GEM SI / KALF.   | Gemiddelde speen indeks / Aantal kalwers gespeen            |  |
| Animal identification number                            | ID              | ID               | Dier se identifikasie nommer                                |  |
| Herd Book Section                                       | SEC             | AFD              | Kuddeboek Afdeling                                          |  |
| Herd Book Section: Pending Registration                 | PEN             | PEN              | Kuddeboek Afdeling: Wag vir Registrasie                     |  |
| Herd Book Section: Not for Registration                 | NFR             | NFR              | Kuddeboek Afdeling: Nie vir Registrasie                     |  |
| Herd Book Section: Foundation Generation                | FO              | FO               | Kuddeboek Afdeling: Fondasie Generasie                      |  |
| Herd Book Section: Appendix A                           | A               | A                | Kuddeboek Afdeling: Aanhangsel A                            |  |
| Herd Book Section: Appendix B                           | B               | B                | Kuddeboek Afdeling: Aanhangsel B                            |  |
| Herd Book Section: Studbook Proper, a registered animal | SP              | SP               | Kuddeboek Afdeling: Studbook Proper, 'n geregistreerde dier |  |
| Genomically Tested                                      | GT              | GT               | Genomies Getoets                                            |  |
| Homozygous Horned (Celtic test)                         | HH(c)           | HH(c)            | Homosigoties horings (Celtic toets)                         |  |
| Homozygous Polled (Celtic test)                         | PP(c)           | PP(c)            | Homosigotiets Poena (Celtic toets)                          |  |
| Heterozygous Polled (Celtic test)                       | Pp(c)           | Pp(c)            | Heterosigoties Poena (Celtic toets)                         |  |
| Phenotypically Polled                                   | P               | P                | Fenotopies Poena                                            |  |
| Intercalving Period                                     | ICP             | TKP              | Tussen-Kalf Periode                                         |  |
| Birth Direct breeding value                             | Birth Dir.      | Geb. Dir         | Geboorte Direk teelwaarde                                   |  |
| Wean Direct breeding value                              | Wean Dir.       | Spn. Dir.        | Speen Direk teelwaarde                                      |  |
| Wean Maternal breeding value                            | Wean Mat.       | SPn. Mat.        | Speen Maternaal teelwaarde                                  |  |
| Scrotal Circumference                                   | Scr. Circ.      | Skr. Omt.        | Skrotum omtrek                                              |  |
| Heifer Fertility                                        | Heifer Fert.    | Vers Vrugb.      | Vers Vrugbaarheid                                           |  |
| Cow Fertility                                           | Cow Fert.       | Koei Vrugb.      | Koei Vrugbaarheid                                           |  |
| Longevity                                               | Longev.         | Lankl.           | Lanklewendheid                                              |  |
| Mature Weight                                           | Mat. Wt.        | Volw. Gewig      | Volwasse gewig                                              |  |
| Average Daily Gain (g/day)                              | ADG             | GDT              | Gemiddelde Daaglikse Toename                                |  |
| Feed Conversion Ratio (kg:kg)                           | FCR             | VOV              | Voeromset Verhouding                                        |  |
| Eye Muscle Area                                         | EMA             | OSO              | Oogspier grootte                                            |  |
| Backfat Thickness                                       | Fat             | Vet              | Rugvet Diepte                                               |  |
| Marbeling (intra-muscular fat)                          | Mar             | Mar              | Marmering (binne-spierse vet)                               |  |
| 365-day weight index                                    | 365D Index      | 365D Indeks      | 365-dae gewig indeks                                        |  |
| 540-day weight index                                    | 540D Index      | 540D Indeks      | 540-dae gewig indeks                                        |  |
| Length-Height ratio                                     | LH              | LH               | Lengte-Hoogte Verhouding                                    |  |
| Actual Birth weight                                     | Birth Wt.       | Geb. gewig       | Werklike Geboorte gewig                                     |  |
| 205-day Dam-age corrected weight                        | 205d Wt.        | 205d gewig       | 205-dag Moeder-ouderdom gekorrigeerde gewig                 |  |
| Cow-Calf Birth Ratio                                    | CCG             | KKG              | Koei-Kalf Geboorte Verhouding                               |  |
| Cow-Calf Wean Ratio                                     | CCW             | KKS              | Koei-Kalf Speen Verhouding                                  |  |
| Average Weaning Index                                   | Avg. Wean Index | Gem. Spn. Indeks | Gemiddelde speen indeks                                     |  |
| Number of Calves                                        | Nr. Calves      | Aant. Kalw.      | Aantal kalwers                                              |  |
| Reproduction Index                                      | Repr. Index     | Repr. Indeks     | Reproduksie indeks                                          |  |
| Animal sex: M - Male, F - Female                        | M / F           | M / V            | Dier geslag: M - Manlik, V - Vroulik                        |  |



# VOORSPOED BONSMARAS KOMMERSIËLE KATALOGUS

22 Mei 2025



| LOT NO | BESKRYWING     | OUDERDOM (JARE) | DRAGTIGHEID STATUS (Maande) | GETAL | VERKOPER             | OPMERKING |
|--------|----------------|-----------------|-----------------------------|-------|----------------------|-----------|
| 22 V   | Dragtige Verse | 2,5 - 3,5       | 4 - 5                       | 10    | Hendrik Hartman      |           |
| 23 V   | Dragtige Verse | 2,5 - 3,5       | 4 - 5                       | 6     | Hendrik Hartman      |           |
| 24     | Dragtige Verse | 2,5             | 2,5 - 7                     | 6     | Jonathan van Aswegen |           |
| 25     | Dragtige Verse | 2,5             | 3 - 8                       | 7     | Jonathan van Aswegen |           |
| 26     | Dragtige Verse | 2,5 - 3,5       | 4 - 6                       | 8     | Hendrik Hartman      |           |
| 27     | Dragtige Verse | 3,5             | 4 - 6                       | 5     | Hendrik Hartman      |           |
| 28     | Dragtige Verse | 2,5             | 5 - 7                       | 9     | Jonathan van Aswegen |           |
| 29     | Dragtige Verse | 2,5             | 4 - 8                       | 10    | Jonathan van Aswegen |           |
| 30     | Dragtige Verse | 2,5 - 3,5       | 4 - 5                       | 4     | Hendrik Hartman      |           |
| 31     | Dragtige Verse | 2,5             | 3 - 5                       | 4     | Hendrik Hartman      |           |
| 32     | Dragtige Verse | 2,5             | 2,5 - 7                     | 8     | Jonathan van Aswegen |           |
| 33     | Dragtige Verse | 2,5             | 5 - 8                       | 7     | Jonathan van Aswegen |           |
| 34     | Dragtige Verse | 2,5 - 3,5       | 3 - 5                       | 4     | Hendrik Hartman      |           |
| 35     | Dragtige Verse | 2,5 - 3,5       | 4 - 5                       | 6     | Hendrik Hartman      |           |

| LOT NO | BESKRYWING     | OUDERDOM (JARE) | DRAGTIGHEID STATUS (Maande) | GETAL | VERKOPER             | OPMERKING |
|--------|----------------|-----------------|-----------------------------|-------|----------------------|-----------|
| 36     | Dragtige Verse | 2,5             | 4,5 - 8                     | 9     | Jonathan van Aswegen |           |
| 37     | Dragtige Verse | 2,5             | 5 - 8                       | 7     | Jonathan van Aswegen |           |
| 38     | Dragtige Verse | 2,5 - 3,5       | 5                           | 4     | Hendrik Hartman      |           |
| 39     | Dagtige Koeie  | 4 - 6           | 4 - 5                       | 5     | Hendrik Hartman      |           |
| 40     | Dragtige Verse | 2,5             | 4 - 6,5                     | 7     | Jonathan van Aswegen |           |
| 41     | Dragtige Verse | 2,5             | 5 - 8                       | 7     | Jonathan van Aswegen |           |
| 42     | Dagtige Koeie  | 4 - 6           | 4 - 5                       | 4     | Hendrik Hartman      |           |
| 43     | Dagtige Koeie  | 4 - 6           | 3 - 4                       | 3     | Hendrik Hartman      |           |
| 44     | Dragtige Verse | 2,5             | 5,5 - 8                     | 7     | Jonathan van Aswegen |           |
| 45     | Dragtige Verse | 2,5             | 2,5 - 7                     | 7     | Jonathan van Aswegen |           |
| 46     | Dragtige Verse | 2,5             | 3 - 7                       | 5     | Jonathan van Aswegen |           |
| 47     | Dagtige Koeie  | 5 - 7           | 3 - 5                       | 7     | Hendrik Hartman      |           |
| 48     | Oop Verse      | 1,5             | 0                           | 8     | Hendrik Hartman      |           |
| 49     | Oop Verse      | 1,5             | 0                           | 8     | Hendrik Hartman      |           |
| 50     | Oop Verse      | 1,5             | 0                           | 11    | Jonathan van Aswegen |           |
| 51     | Oop Verse      | 1,5             | 0                           | 9     | Jonathan van Aswegen |           |
| 52     | Oop Verse      | 1,5             | 0                           | 4     | Hendrik Hartman      |           |
| 53     | Oop Verse      | 1,5             | 0                           | 5     | Jonathan van Aswegen |           |

# **BEDANKINGS**

**Graag wil ons elkeen bedank wat hierdie dag vir ons moontlik gemaak het en al die hulp wat verleen is om hierdie dag 'n sukses te maak.**

**Baie dankie vir ieder en elke koper se teenwoordigheid en ondersteuning. Ons vertrou dat u meer as tevrede sal wees met die diere wat u hier bekom en vir u van groot waarde sal wees.**



**Life is a challenge, meet it! Life is a dream, realize it!  
Life is a game, play it! Life is love, enjoy it!**



# Graag bedank ons, ons borge



## RULES OF AUCTION

in respect of sales by Vleissentraal Bethlehem (Pty) Ltd (Reg No. 1999/023915/07) of 98 Cambridge Road, Bethlehem, 9700. Tel: 058 303 5226 / E-mail: bethlehem@vleissentraal.co.za Fax: 058 303 2157 (As Auction House hereinafter referred to as the "Auctioneer" and the person conducting the auction referred to as the "auctioneer")

1. The Sale by auction is subject to a reserve price, unless specifically stated to the contrary by the auctioneer.
2. The seller (owner) and/or his agent and the auctioneer may bid up to the reserve price of the owner (seller), but shall not be entitled to make a bid equal to or exceeding the reserve price.
3. This Rules Of Auction comply with Section 45 of the Act and the Regulations of the Act and Section 45 of the Consumer Protection Act, Act 68 of 2008 ("the Act") read as follows:

### "Auctions:

- 45.(1) In this section, "auction" includes a sale in execution of or pursuant to a court order, to the extent that the order contemplates that the sale is to be conducted by an auctioneer.
- (2) When goods are put up for sale by auction in lots, each lot is, unless there is evidence to the contrary, regarded to be the subject of a separate transaction.
- (3) A sale by auction is complete when the auctioneer announces its completion by the fall of the hammer, or in any other customary manner, and until that announcement is made, a bid may be retracted.
- (4) Notice must be given in advance that a sale by auction is subject to –
  - (a) a reserve or upset price; or
  - (b) a right to bid by or on behalf of the owner or auctioneer, in which case the owner or auctioneer, or any other person on behalf of the owner or auctioneer, as the case may be, may bid at the auction.
- (5) Unless notice is given in advance that a sale by auction is subject to a right to bid by or on behalf of the owner or auctioneer –
  - (a) the owner or auctioneer must not bid or employ any person to bid at the sale;
  - (b) the auctioneer must not knowingly accept any bid from a person contemplated in paragraph (a); and
  - (c) the consumer may approach a court to declare the transaction fraudulent, if this subsection has been violated.
- (6) The Minister may prescribe requirements to be complied with by an auctioneer, or different categories of auctioneer, in respect of –
  - (a) the conduct of an auction;
  - (b) the records to be maintained with respect to property placed for auction; and
  - (c) the sale of any property by auction.
4. The auctioneer will during the auction announce the reason for the auction unless the reason is the normal and voluntary disposal by the owner.
5. The auction will commence at the published time and will not be delayed to allow any specific person or more persons to take part in the auction.
6. All goods and livestock (hereinafter referred to as the "assets") are sold by the Auctioneer as agent on behalf of the Seller, who hereby authorizes the Auctioneer to collect the purchase price from the Buyer and the seller do hereby cedes to the Auctioneer all the seller's rights, title and interest in and to its claim for payment of the purchase price against the purchaser which session the Auctioneer do hereby accepts.
7. The purchase price excludes VAT and VAT must be added to the purchase price and paid by the Buyer, unless specifically stipulated otherwise by the auctioneer.
8. All assets shall, immediately after the bid has been knocked down and accepted by the Seller, be deemed to have been delivered to the Buyer. Notwithstanding delivery, the Buyer shall not be entitled to remove any purchased assets unless the total amount reflected on the Auctioneer's invoice in respect of such assets has been paid in full.
9. Notwithstanding delivery, ownership of the purchased assets will not pass to the Buyer until the full purchase price plus interest, if any, is paid.
10. Subject to any reserve placed on any of the assets by the Seller, and the provisions of clause 11 and 12 below, the Buyer at any sale shall be the highest bidder indicated by the auctioneer by the fall of the hammer or by such other means as he or she may select.
11. The auction shall take place under the exclusive control of the auctioneer. The auctioneer reserves the right, in its sole discretion, to refuse the bid of any person, to regulate the bidding and to indicate the highest bidder. If the auctioneer suspects that a bidder has not made a bona fide bid, or is unable to pay the purchase price or has not made satisfactory arrangements for payment of the purchase price, he may refuse to accept the bid of such bidder or accept it provisionally until the bidder has satisfied him that he is in position to pay the purchase price or that he has made satisfactory arrangements for payment thereof. On refusal of a bid under such circumstances the assets may immediately be re-auctioned.
12. In the event of a dispute arising amongst the bidders and or the Auctioneer, the assets in dispute shall, at the sole discretion of the auctioneer, be re-auctioned.
13. Any error by the auctioneer shall be entitled to be corrected by him or her upon discovery.
14. All profit, loss or risk in the assets will pass to the Buyer once it has been delivered to the Buyer who shall at this own risk and expense remove it from the sale venue, subject to 8 above. The Buyer shall be responsible for all costs incurred by either the Seller or the Auctioneer until actual removal of the assets.
15. Should any contractor remove any assets from the sale venue on instruction of the Auctioneer, on behalf of the Buyer, the contractor will be deemed to be the contractor of the Buyer who accepts all costs and risks connected with such removal.
16. The Seller warrants that there are no encumbrances on such assets, that the said assets are the property of the Seller, and that the Seller is competent and legally entitled to dispose of the assets. The Seller further warrants as against the Buyer that the assets are free of any patent or latent defects.
17. The Seller, who offers the assets for sale, accepts all liability regarding the information furnished as to pedigrees, ages, dates of service, state of health or gestation or any other particulars which might be incorrect. In the event of any dispute the Buyer shall only have a claim against the Seller and not against the Auctioneer.
18. The Seller warrants as against the Auctioneer that the assets are free of patent and latent defects and that any right or claim ceded to the Auctioneer in terms of these Rules Of Auction is free of any defect or right of deduction or set-off, and that the said right or claim is fully and immediately enforceable against the Buyer.
19. The Buyer shall, prior to the sale, ascertain whether there are any defects in the assets and any bid by a Buyer shall be considered as acceptance of the assets with any patent or latent defects in their condition at the time of sale.
20. The Buyer shall not be entitled to withhold payment of the purchase price to the Auctioneer as a result of any possible or pending claim that he may have against the Seller on the grounds of misrepresentation or for any other reason whatsoever.
21. The purchase price is payable by the Buyer to the Auctioneer in cash (to the discretion of the Auctioneer) or by bank-guaranteed cheque on the date of sale ("the payment date") unless other payment terms and or means are agreed between the Auctioneer and the Buyer. The Company reserves the right to refuse any method or means as payment.
22. In the event that the Auctioneer agrees to facilitate the purchase of the assets by paying an amount equal to the purchase price to the Seller before the Buyer makes payment to the Auctioneer ("the Payment Terms Agreement"), then the following shall apply:

22.1 The election to make any payment to the Seller shall be in the sole and absolute discretion of the Auctioneer, which discretion may be exercised separately in regard to each transaction entered into by the Buyer.

22.2 Upon payment of the amount referred to in 10.1 above the Seller's right, title and interest in and to any claims and other rights as against the Buyer in terms of or connected with the sale of the assets shall forthwith be ceded and transferred to the Company which session the Auctioneer hereby accepts.

23. In the event of any Payment Terms Agreement between the Auctioneer and the Buyer, the following shall apply;
  - 23.1 No Payment Terms Agreement shall be valid unless reduced to writing and duly signed on behalf of the Auctioneer. The facilitation of any sale by the Auctioneer as referred to in this paragraph 10 shall be strictly subject to the terms and conditions of the Payment Terms Agreement.
  - 23.2 In the event of any conflict between the contents of this document and the Payment Terms Agreement, the provisions of the Payment Terms Agreement shall prevail.
  - 23.3 No application for credit as defined in section 8 of the National Credit Act, Act 34 of 2005, will be received or considered by the Auctioneer.
24. Anyone that intends to bid at the auction (Buyer) must register his or her identity on the bidder's record prior to the commencement of the auction and such registration must meet the requirements of the FICA (Financial Intelligence Centre Act, 2001) in respect of the establishment and verification of identity of the person and the person must sign the registration entry and the prospective Buyer must furnish the Auctioneer with a copy of his/her identity document and proof of residence.
25. Any person who purchases on behalf of a Principal (i.e. natural person) must furnish the Auctioneer with a written signed Power of Attorney, prior to the commencement of the auction, failing which he/she will be personally liable for payment of any purchases made by him/her. The person bidding on behalf of or signing any document on behalf of the purchaser pursuant to a successful bid hereby binds himself/herself personally as co-principal debtor with the Buyer for payment of the purchase price and personally guarantees all the obligations of the Buyer under this Rules Of Auction.
26. A person who attends the auction, to bid and to sign the bidder's record, on behalf of another person (i.e. on behalf of a company or legal entity) must produce a signed letter of authority that expressly authorizes him or her to bid or sign the bidder's record on behalf of that person. Where a person is bidding on behalf of another entity the letter of authority must appear on the letterhead of the entity and must be accompanied by a certified copy of the resolution, if required, authorizing him or her to bid on behalf of the entity. The person bidding on behalf of or signing any document on behalf of the Buyer pursuant to a successful bid thereby binds himself personally as co-principal debtor with the Buyer for payment of the purchase price and personally guarantees all the obligations of the Buyer under these Rules Of Auction.
27. In the event where a Buyer allows another person to purchase on his or her buyers number, the registered Buyer shall be liable for payment of such purchases. No bid by an unregistered Buyer will be accepted by the auctioneer and the Buyer will have no claim to any of the assets allegedly purchased by him.
28. Until all amounts owing by the Buyer have been paid in full, the Buyer hereby:
  - 28.1 irrevocably undertakes to identify the purchased assets in such a manner that he can at any time identify and indicate the assets deemed to be the property of, and pledged to, the Auctioneer.
  - 28.2 grants the Auctioneer at all reasonable time's access to the premises where the assets are stored or kept for the purposes of perfecting its pledge and exercising any other rights in terms of these Rules Of Auction.
29. The Buyer and the Seller hereby consent to the jurisdiction of the Magistrate's Court in terms of Section 45 of the Act on Magistrate Court (Act 32 of 1944 as amended) for any action instituted by the Auctioneer against the Buyer although the Auctioneer is entitled to institute proceedings in any competent Court.
30. A certificate issued by a Manager of the Auctioneer, whose appointment and authority shall not be necessary to prove, shall be *prima facie* proof of the amount owing by the Buyer to the Seller or the Auctioneer.
31. Any indulgence granted by the Auctioneer to the Buyer or the Seller will not prejudice the rights of the Auctioneer in terms of these Rules Of Auction and such indulgence will not constitute an amendment or waiver or novation of these Rules Of Auction.
32. The entries made in the Company's auction roll shall be *prima facie* evidence of the transaction and shall be binding on the Seller and the Buyer.
33. The bidder's record and the vendor or vendu roll will be made available for inspection within reasonable time after the auction at the office of the Auctioneer during normal business hours free of charge.
34. The Auctioneer does have a trust account into which all money will be paid for the benefit of the Seller.
35. Any assets entered or offered for sale are subject to payment by the Seller/Buyer of the agreed commission, or in absence of agreement the usual commission by the Seller/Buyer to the Auctioneer at the rate customarily charged by the Auctioneer from time to time, whether the assets are sold at the auction or thereafter, or at any time thereafter by private treaty. Unless otherwise agreed in writing, commission shall become due and payable by the Seller/Buyer upon the fall of the hammer or upon the entering into of any private treaty involving the Seller's said assets, whichever date is the earlier, and notwithstanding any breach on the part of the Seller/Buyer.
36. Every bid shall constitute an offer to purchase the property or goods for the amount bid, which the Seller or the auctioneer may accept or reject in their absolute discretion. The seller and auctioneer are entitled, in their absolute discretion to withdraw the property or goods from the sale prior to acceptance by the seller.
37. If no bid equals or exceeds the reserve price, if any, the property or goods may be withdrawn from the auction.
38. The Auctioneer accepts no liability for any withdrawal of assets from sale.
39. No bid may be withdrawn after the fall of the hammer until the expiry of the confirmation period (if any) that is provided for in the Conditions of Sale, during which time the offer shall be open for acceptance by the Seller or his agent and if the offer is accepted the sale shall be deemed to be a sale by auction for purposes of the Act.
40. The highest bidder in respect of immovable property, being the Purchaser, shall sign the Conditions of Sale immediately after the fall of the hammer.
41. The purchaser's offer in respect of immovable property shall only be deemed to have been accepted when the seller or his agent or whichever may be applicable, has signed the Conditions of Sale on behalf of the Seller in the space provided at the end of the Conditions of Sale.
42. In the event of the sale requiring the consent of any statutory authority or any court of law, then this auction will be subject to the granting of such consent.
43. The Buyer and the Seller do hereby consent to the payment of Attorney- and own client costs in the event of any legal action being instituted against them by the Auctioneer or Company.
44. Any agreement contrary to these Rules Of Auction shall not be binding unless it is confirmed in writing and signed by a Manager of the Auctioneer.
45. If any clause or term of these Rules Of Auction should be invalid, unenforceable and illegal, then the remaining terms and provisions of these Rules Of Auction shall be deemed to be severable there from and shall continue in full force and effect unless such invalidity, unenforceable or illegality goes to the root of these Rules Of Auction.
46. The Company reserves the right to amend these Rules Of Auction in writing.
47. By entering a bid any prospective Buyer binds himself or herself to this Rules Of Auction.





JONATHAN VAN ASWEGEN



**082 554 9030**



**BONSMARA**



**082 771 4044 /  
082 564 8912**



**078 460 2849**

## **ROETE:**

### **Vanaf Sasolburg:**

Ry op die Parys pad (R59) vir 15km. Draai links op die T 5605 en arriveer by veiling.

### **Vanaf Parys:**

Ry op die Sasolburg pad (R59) vir 24km. Draai regs op die T 5605 en arriveer by veiling.

## **AANBOD:**

**240** Uitstekende Bonsmaras

Bulle: **20** SP Bulle van AG Bonsmara

Vroulike diere: **220**

**Nota:** Aanbod onderhewig aan verandering. Alle diere op die veiling is getoets en geënt teen heersende siektes. BM sal getoets wees. Trich, Vibriose en vrugbaarheid sal getoets wees op bulle. Terugkeur beleid van 21 dae op diere. Dragtigheidsstatus en katalogus sal dag van veiling beskikbaar wees.

## **Terme:**

\*Slegs kontant of elektroniese betalings op dag van veiling. \*Elektroniese oorplasingfasiliteite beskikbaar

\*FICA dokumentasie word vereis by registrasieproses. \*Alle goedere word met 'n reserweprys verkoop en 'n reg bestaan om te bly deur of namens die eienaar of afslaaers, tensy anders aangedui. Die regulasies van die Wet op Verbruikersbeskerming, 2008 is beskikbaar by <http://www.gov.za/documents/consumer-protection-act-regulations>.

