THE 46TH ANNUAL BULL & FEMALE SALE
STANLEY STOUT CENTER | MARCH 3, 2023 | 4 P.M.
Thank You

Gardiner Angus Ranch, Mark Gardiner
Thomas Angus Ranch, Rob and Lori Thomas
Jensen Bros., Kevin and Sheila Jensen
Perez Cattle Co., Kyle Perez
Werk Herefords, Shane & Ashlie Werk
Colyer Herefords, Guy, Sherry, Kyle and Katie Colyer
Rockin K Productions, Kent Jaecke
Mrs. Joyce Hale Family, Cedar Creek Ranch
Cross Country Genetics North Inc., Dr. Clay Breiner, Dr. Kirk Gray and Dr. Joel Anderson
Triple C Manufacturing
CCi, Darla Aegerter • GeneSeek, Rick Pfortmiller
GENEX, Cody Sankey
Select Sires, Lorna Marshall and Brian House
STgenetics, Aaron Arnett
Roto-Mix LLC
Dr. David Grieger and Ashley Hartman
Blueville Nursery
Schuler Manufacturing Co.
Gallagher North America
NBO3 Technologies
Livestock Sale Management Class Speakers: Shane Bedwell, Mackenzie Brewer, Mark Gardiner, Kent Jaecke, Kevin Jensen, Matt Perrier, Melissa Grimmel Schaake, Justin Stout, Bob Weaber and Rachel Witt
K-State Stocker Unit, Dr. Dale Blas and Bill Hollenbeck
K-State Cow-Calf Unit, Dr. KC Olson and Jack Lemmon
K-State Veterinary Medical Teaching Hospital, Dr. Shaun Huser and staff
K-State Beef Cattle Research Center, Dr. Jim Drouillard, Ross Thorn and staff
Kansas Artificial Breeding Services Unit, Dr. Tom Taul and staff
K-State ASI Staff: Angie Denton, Lois Schreiner, Emily Grund and Tim Carson
Purebred Unit Employees: Wesley Denton, Cole Hanna, Norman Highfill, Jessica Jensen, Colton Miller, Dane Scheetz, Lindsey Whitten and Isaac Wingert

MARK YOUR CALENDARS FOR NEXT YEAR’S LEGACY SALE:
MARCH 1, 2024

The Legacy Sale • asi.ksu.edu/bullsale
THURSDAY, MARCH 2

10 a.m. Cattle on display
Purebred Beef Barn Headquarters
2200 Denison Ave,
Manhattan, Kansas

FRIDAY, MARCH 3

11 a.m. Cattle on display
Stanley Stout Center

4 p.m. 46th Annual Legacy Sale
Stanley Stout Center

Thank you Neogen for sponsoring the pre- and post-sale social.

March 3, 2023 • 4 p.m. CST
KSU Stanley Stout Center
2200 Denison Ave.
Manhattan, Kansas

SCHEDULE OF EVENTS

SELLING

19 ANGUS BULLS

14 SIMMENTAL BULLS

9 HEREFORD BULLS

1 ELITE ANGUS HEIFER

14 FALL-BRED FEMALES

21 COMMERCIAL HEIFERS

3 QUARTER HORSES

Thank you Neogen for sponsoring the pre- and post-sale social.
FIND US ON SALE DAY

Dr. Mike Day
Chris Mullinix
Dr. Jason Warner
Shane Werk

2022-2023 Livestock Sales Management Class – Seated (l to r) are: Tori White, Humbolt, KS; Kaitlyn Wolters, Atwood, KS; Madie Marshall, Attica, KS; Molly Biggs, Dixon, IL; Kady Figge, Onaga, KS; Jessica Jensen, Courtland, KS; Jenna Bruce, Assaria, KS; Regan Ast, Ingalls, KS; and Shelby Reeser, New Prague, MN. Standing (l to r) are: Mya Hamilton, Columbus, KS; Sammie Strnad, Caldwell, KS; Kadyn Nuncio, Reece, KS; Maddy Rohr, Elbert, CO; Trevor Johnson, Centerville, SD; Anna Ideus, Beatrice, NE; Lacey Pavlak, Centralia, MO; Audrey Tarochione, London Mills, IL; Bailee Farmer, Oskaloosa, KS; and Savannah Peterson, Gothenburg, NE. Not pictured is Rebecca Donaldson, Berryton, KS; and Rebecca George, New South Wales, Australia
Dear Friends,

On behalf of the K-State Livestock Sales Management class and the Department of Animal Sciences and Industry, welcome to the 46th Annual Bull & Female Sale! Plan to join us as we celebrate 46 years of commitment to students and beef producers.

For more than four decades, our commitment to our customers has been to provide cattle that are profitable in a variety of situations.

With that being said, we are really excited for this year’s offering. We would love to show you the cattle any time that is convenient for you between now and sale day. Please watch the website or our Facebook page for updates when sale videos are available online. This year the sale will be broadcasted on CCIlive, and that is a great option if you feel more comfortable with that format.

As a department, we take great pride in our university, our cattle and especially our students. We encourage you to get to know this group of future beef industry leaders as you browse the pens on sale day. Thanks for taking the time to look through this catalog. We strive for customer satisfaction before and after the sale and we are confident that we can help you find cattle that will add profit to your operation.

Feel free to contact us or stop by at any time. We look forward to seeing you March 3.

Sincerely,

Mike Day
316-323-0395

Chris Mullinix
316-323-0395

Jason Warner
308-962-4265

Shane Werk
785-565-1881
LIABILITY

All persons who attend the sale do so at their own risk. Neither the sale management, Kansas State University, nor any person connected with the sale assumes any liability, legal or otherwise, for accidents or loss of property.
**SPECIAL REQUIREMENTS**

Kansas State University is committed to making its services, activities, and programs accessible to all participants. If you have special requirements due to a physical, vision, or hearing disability, contact Chris Mullinix, 316-323-4994.

**INDIVIDUAL ANIMAL INFORMATION**

All performance information in this catalog is correct to the best of our knowledge. Data was pulled from the respective breed associations on January 24, 2023. All measures are adjusted by age according to each individual breed association. Updated performance, breeding, ultrasound and DNA information will be available in the form of a supplement sheet on the internet and on sale day. All sale cattle that trace to carrier animals have been tested free of Idiopathic Epilepsy (IE), Arthrogryposis Multiplex (AM), Neuropathic Hydrocephalus (NH), Contractural Arachnodactyly (CA), and Maple Syrup Urine Disease (MSUD). Potential DD carriers are noted on individual lots with a DDP notation. DD carriers are noted with DDC.

Expected Progeny Difference (EPD) is the prediction of how future progeny are expected to perform relative to the progeny of other animals listed in the database. EPDs are expressed in units of measure for the trait, plus or minus. EPDs are the best overall predictions of progeny performance and are useful tools that aid in selection; however, EPDs DO NOT PREDICT an actual level of performance. For example, a bull with a BW EPD of +3.0 should sire calves that average approximately two pounds heavier than a bull with a BW EPD of +1.0. The actual weights of the calves in the progeny groups will depend upon environmental factors. EPDs can be used to compare cattle within a breed but CANNOT be used to compare cattle of different breeds. To make across-breed comparisons, EPDs must be adjusted to a common base. A helpful Excel worksheet: bit.ly/KSUEPDS.

EPD box note: EPDs ranking in the top 15% of the breed are bolded. Those ranking in the top 1% to 5% are noted.

**EXPLANATION OF COMMON EPDS**

**Calving Ease Direct (CE or CED)** is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers.

**Birth Weight EPD (BW),** expressed in pounds, is a predictor of a sire’s ability to transmit birth weight to his progeny.

**Weaning Weight EPD (WW),** expressed in pounds, is a predictor of a sire’s ability to transmit weaning growth to his progeny.

**Yearling Weight EPD (YW),** expressed in pounds, is a predictor of a sire’s ability to transmit yearling growth to his progeny.

**Scrotal Circumference EPD (SC),** expressed in centimeters, is a predictor of a sire’s ability to transmit scrotal size to his progeny.

**Calving Ease Maternal (CEM or MCE)** is an indicator of the genetic merit of a sire’s daughter to calve unassisted. It is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf daughters.

**Maternal Milk EPD (Milk or MM)** is a predictor of sire’s daughter’s genetic merit for maternal weaning weight influenced by milk production and mothering ability as expressed in his daughters. The trait is measured in pounds of weaning weight.

**Intramuscular Fat EPD (%IMF)** is a predictor of the difference in a sire’s progeny for percent intramuscular fat in the ribeye muscle.

**Ribeye Area EPD (REA or RE)** is a predictor of the difference in square inches of ribeye area of a sire’s progeny. Actual carcass and ultrasound data are used in calculation of REA EPD.

**Fat Thickness EPD (FAT or BF),** expressed in inches, is a predictor of the difference in fat thickness at the 12th rib of a sire’s progeny. Actual carcass and ultrasound data are used in calculation of FAT EPD.

**Marbling (MARB or MRB)** is used to determine USDA quality grade. Marbling is reported in fractions of a marbling grade. A +1.0 MARB EPD would be one full marbling grade higher (think the difference between Small 00 and Modest 00) than a sire with a MARB EPD of 0.00. The marbling EPD represents the relative difference in the average marbling between progeny groups.

**Carcass Weight (CW or CWT),** expressed in pounds, is a predictor of the difference in a sire’s ability to produce pounds of carcass weight.

**Dry Matter Intake (DMI)** is a genetic predictor of feed requirements of growing animals. It is associated with differences in feed costs and is measured in pounds of dry matter intake per day.

**Docility (DOC)** is a measure of the temperament of animals and is reported as the additional percentage of animals that fall in the two most docile scoring categories. More positive values indicate sires that produce more docile animals.

**ANGUS $VALUE INDEXES**

$Values are multi-trait selection indexes to assist beef producers by adding simplicity to genetic selection decisions. $Values are reported in dollars per head, where a higher value is more favorable. The $Value is an estimate of how future progeny of each sire are expected to perform, on average, compared to progeny of other sires in the database if the sires were randomly mated to cows and if calves were exposed to the same environment.

**Cow Energy Value ($EN),** expressed in dollar savings per cow per year, assesses differences in cow energy requirements as an expected dollar savings difference in daughters of sires. A larger value is more favorable when comparing two animals (more dollars saved on feed energy expenses).

**Weaned Calf Value ($W),** expressed in dollars per head, is the expected average difference in future progeny performance for pre-weaning merit. SW includes both revenue and cost adjustments associated with differences in birth weight, weaning direct growth, maternal milk and mature cow size.

**Feedlot Value ($F),** expressed in dollars per head, is the expected average difference in future progeny performance for post-weaning merit compared to progeny of other sires.

**Grid Value ($G),** expressed in dollars per head, is the expected average difference in future progeny performance for carcass grid merit compared to progeny of other sires. It may be the best carcass decision tool for focusing on quality and red meat yield simultaneously.

**Beef Value ($B),** expressed in dollars per head, is the expected average difference in future progeny performance for post-weaning and carcass value compared to progeny of other sires.

**Maternal Weaned Calf Value ($SM),** expressed in dollars per head, predicts profitability differences from conception to weaning with the underlying breeding objective assuming that individuals retain their own replacement females within herd and sell the rest of the cull female and all male progeny as feeder calves. The model assumes commercial producers will replace 25% of their breeding females in the first generation and 20% of their breeding females in each subsequent generation.

**Combined Value ($C),** expressed in dollars per head, which includes all traits that make up both Maternal Weaned Calf Value (SM) and Beef Value ($B) with the objective that commercial producers will replace 20% of their breeding females per year with replacement heifers retained within their own herd. The remaining cull heifer and steer progeny are then assumed to be sent to the feedlot where the producers retain ownership of these cattle and sell them on a quality-based carcass merit grid.
HEREFORD $VALUE INDEXES

Baldy Maternal Index ($BMI), used for selecting Hereford bulls to use on Angus-cross cows and heifers, when replacement heifers will be raised. Retained ownership of steers and cull heifers through the feedlot phase is assumed, with fed cattle marketed on a Certified Hereford Beef (CHB) program grid.

Brahman Influenced Index ($BII), is similar to $BMI, except Hereford bulls are used in a rotational crossbreeding system with Brahman, rather than Angus.

Certified Hereford Beef Index ($CHB), a terminal sire index, when Hereford bulls are mated to British-cross cows, and all offspring are sold as fed cattle on a CHB grid.

SIMMENTAL EPDS AND $VALUE INDEXES

Stayability (Stay), is expressed as the additional percentage of a sire’s daughters that remain in the herd to six years of age. It is an indicator of sustained fertility and longevity of cows.

All-Purpose Index (API), evaluates sires being bred to both first-calf heifers and mature cows with a portion of their daughters being retained for breeding and the cull heifers and steers are fed out. This index includes both production models and maternal values to form an all-inclusive selection tool.

Terminal Index (TI), designed for evaluating sires’ economic merit in situations where they are bred to mature cows and all offspring go to the feedlot. Consequently, maternal traits such as maternal calving ease, maternal weaning weight and female fertility are not considered in the index.

ANGUS AVERAGE EPDS

| CED | BW  | WW  | YW  | SC  | CEM | Milk | CW  | RE  | Marb | DMI | DOC | $C  | $W  | $F  | $G  | $B  | $M  |
|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| 6   | 1.2 | 61  | 108 | 0.86| 8   | 27   | 48  | 0.62| 0.63 | 1.07| 18  | 241 | 57  | 85  | 50  | 138 | 62  |

HEREFORD AVERAGE EPDS

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SIMMENTAL AVERAGE EPDS

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<td>28.3</td>
<td>0.87</td>
<td>130.61</td>
<td>77.84</td>
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Your herd is covered.

On the ranch, you make decisions using visual appraisal every day. But what about the traits you don’t see? That’s where NEOGEN’s® GGP comes into play. We’ve loaded the most informative markers and filled in the gaps to provide you with the most complete and powerful seedstock selection tool in the industry.

So, you can be sure those lines in the tag are working overtime for you to provide confidence in selection decisions that help bolster your reputation amongst your herd and customers for generations to come.

GGP’s markers have you covered and informed. Leverage GGP today by contacting your breed association or go to genomics.neogen.com/en/ggp-beef
LOT 1 - KSU HOME TOWN 2170

Deep-bodied, high-performing, sound-structured and practical with outstanding data. A truly unique combination of breed-leading end-product merit and maternal, ranking in the top 1% for MARB, $M and $G.

LOT 2 - KSU ICONIC 2162

Wide, deep and stout, a physical powerhouse who combines that with big time data. Huge growth figures with top 1% $W and the rare combination of 200+ $B and 300+ $C.

LOT 3 - KSU ICONIC 2159

Calving ease, performance and mass all wrapped into a high-quality package. Extremely balanced both in person and on paper, he ranks in the top 1% for $W, top 2% for $G and top 10% for $C.
### KSU ICONIC 2157

**Reg #: 20414500**  
DOB: 1/20/2022  
Tattoo: 2157

**Musgrave 316 Stunner**  
DB ICONIC G95  
DB Ms Discovery D13  
G A R Ashland  

**KSU RITA 0158**  
Chair Rock Sunrise 6010

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<td>92</td>
<td>1%</td>
<td>155</td>
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<td>0.27</td>
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<td>27</td>
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**DMI DOC $M $W $F $G $B $C**

| 1.9 | 29 | 80 | 88 | 1% | 86 | 97   | 1% | 184 | 319  | 3% |

**Birth Wt.**  
**ET**  
**Adj. Wean**  
**555**

A full brother to Lot 3, he wasn’t blessed with the best recipient mother, but the genomics show him to have high potential. Well-made and balanced, he ranks at the top of the breed in several indices.

### KSU ICONIC 2178

**Reg #: 20414517**  
DOB: 3/3/2022  
Tattoo: 2178

**Musgrave 316 Stunner**  
DB ICONIC G95  
DB Ms Discovery D13  
Deer Valley All In  

**KSU MISS ALL IN 5197**  
KSU Miss Final Answer 9147

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**DMI DOC $M $W $F $G $B $C**

| 0.88| 9  | 57 | 63 | 71 | 74  | 145  | 245|

### KSU ICONIC 2179

**Reg #: 20414518**  
DOB: 3/3/2022  
Tattoo: 2179

**Musgrave 316 Stunner**  
DB ICONIC G95  
DB Ms Discovery D13  
Deer Valley All In  

**KSU MISS ALL IN 5197**  
KSU Miss Final Answer 9147

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**DMI DOC $M $W $F $G $B $C**

| 0.83| 13 | 73 | 82 | 3% | 73  | 68   | 141 | 256|

### KSU ICONIC 2180

**Reg #: 20414519**  
DOB: 3/3/2022  
Tattoo: 2180

**Musgrave 316 Stunner**  
DB ICONIC G95  
DB Ms Discovery D13  
Deer Valley All In  

**KSU MISS ALL IN 5197**  
KSU Miss Final Answer 9147

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<td>6</td>
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<td>88</td>
<td>155</td>
<td>3%</td>
<td>155</td>
<td>3%</td>
<td>1.95</td>
<td>4%</td>
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**DMI DOC $M $W $F $G $B $C**

| 1.52| 23 | 48 | 66 | $F | $G  | $B   | $C |

**Birth Wt.**  
**ET**  
**Adj. Wean**  
**564**  

A great combination of balance, quality and data. Top 5% SC and top 3% SC along with an outstanding look.

LOT 5 - KSU ICONIC 2180

### KSU ICONIC 2185

**Reg #: 20414498**  
DOB: 1/19/2022  
Tattoo: 2185

**Musgrave 316 Stunner**  
DB ICONIC G95  
DB Ms Discovery D13  
K C F Bennett Fortress  

**KSU MISS FORTRESS 7182**  
KSU Miss Confidence 3186

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<td>33</td>
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**DMI DOC $M $W $F $G $B $C**

| 2.05| 12 | 46 | 88 | 1% | 106 | 66   | 173 | 270|

**Birth Wt.**  
**ET**  
**Adj. Wean**  
**558**  

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The Legacy Sale • asi.ksu.edu/bullsale
THANKS TO THESE ANGUS BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:

GARDINER ANGUS RANCH
THOMAS ANGUS RANCH
MCCURRY ANGUS RANCH

LOT 10 - KSU IDENTIFIED 2161

Full brother to Lot 10. Same outstanding calving ease with even more growth and dimension. Top of the breed WW and YW with an immense amount of body depth.

THANKS TO THESE ANGUS BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:

GARDINER ANGUS RANCH
THOMAS ANGUS RANCH
MCCURRY ANGUS RANCH

LOT 10 - KSU IDENTIFIED 2161

Great combination of calving ease with physical dimension. Top 5% $C backed by an exciting young donor.

THANKS TO THESE ANGUS BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:

GARDINER ANGUS RANCH
THOMAS ANGUS RANCH
MCCURRY ANGUS RANCH

LOT 10 - KSU IDENTIFIED 2161

Full brother to Lot 10. Same outstanding calving ease with even more growth and dimension. Top of the breed WW and YW with an immense amount of body depth.
LOT 13 - KSU BARRICADE 2168

Sired by the hard-to-get Sitz Barricade, this cow maker was mothered by a Pathfinder dam who is one of the most productive cows at KSU. Deep, massive and backed by an outstanding cow family that has been around for 100+ years.

LOT 14 - KSU RAINFALL 2154

High-quality look and balance with plenty of depth and muscle. Possesses an incredible maternal pedigree, ranking in the top 10% for $M, he’s backed by the same cow family as Lot 13 and is double bred to the famous SAV Blackcap May 4136.

LOT 15 - KSU RAINFALL 2104

THANKS TO GENEX AND CODY SANKEY FOR THEIR CONTINUED SUPPORT OF THE K-STATE PUREBRED BEEF UNIT
**K16**

**KSU JUSTIFIED 2102**

Reg #: 20414491  
DOB: 1/11/2022  
Tattoo: 2102

Connealy Judgment  
**KG JUSTIFIED 3023**  
**KG Miss Magic 1443**  
**S A V Raindance 6848**

**KSU FOREVER LADY 0173 ET**  
**Lazy H Bar Forever Lady 063**

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<th>DOC</th>
<th>$M</th>
<th>$W</th>
<th>$F</th>
<th>$G</th>
<th>$B</th>
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<td>74</td>
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**Birth Wt.:** 72  
**Adj. Wean:** 709

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**K17**

**KSU JUSTIFIED 2107**

Reg #: 20572683  
DOB: 1/20/2022  
Tattoo: 2107

Connealy Judgment  
**KG JUSTIFIED 3023**  
**KG Miss Magic 1443**  
**KSU Complement 5172**

**KSU MISS COMPLEMENT 0233**  
**KSU Miss Confidence 4113**

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<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>1.6</td>
<td>5%</td>
<td>60</td>
<td>103</td>
<td>0.57</td>
<td>11</td>
<td>28</td>
<td>0.21</td>
<td>0.82</td>
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<table>
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<tr>
<th>DMI</th>
<th>DOC</th>
<th>$M</th>
<th>$W</th>
<th>$F</th>
<th>$G</th>
<th>$B</th>
<th>$C</th>
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<tbody>
<tr>
<td>0.89</td>
<td>23</td>
<td>76</td>
<td>66</td>
<td>66</td>
<td>52</td>
<td>118</td>
<td>229</td>
</tr>
</tbody>
</table>

**Birth Wt.:** 62  
**Adj. Wean:** 534

---

**K18**

**KSU PRATTO 2189**

Reg #: 20569662  
DOB: 3/11/2022  
Tattoo: 2189

Connealy Niobrara 5451  
**CONNEALY PRATTO**  
**Beatha of Conanga 3113**  
**KSU Objective 0183**

**KSU MISS OBJECTIVE 6205**  
**KSU Miss Objective 0164**

<table>
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<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>2%</td>
<td>0.1</td>
<td>68</td>
<td>127</td>
<td>0.8</td>
<td>10</td>
<td>25</td>
<td>0.71</td>
<td>0.95</td>
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<th>DOC</th>
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<th>$F</th>
<th>$G</th>
<th>$B</th>
<th>$C</th>
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<tbody>
<tr>
<td>1.41</td>
<td>30</td>
<td>76</td>
<td>65</td>
<td>88</td>
<td>66</td>
<td>154</td>
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**Birth Wt.:** 79  
**Adj. Wean:** 546

---

**K19**

**KSU HESSTON 2187**

Reg #: 20485726  
DOB: 3/11/2022  
Tattoo: 2187

S A V Hesston 2217  
**MOHNEN HESSTON 2836**  
Mohnen Jilt 539  
**KSU Konza 3111**

**KSU MISS KONZA 3111**  
**KSU Miss Prophet 4103**

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>-0.5</td>
<td>0.99</td>
<td>55</td>
<td>98</td>
<td>0.99</td>
<td>12</td>
<td>27</td>
<td>0.2</td>
<td>0.56</td>
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</table>

<table>
<thead>
<tr>
<th>DMI</th>
<th>DOC</th>
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<th>$F</th>
<th>$G</th>
<th>$B</th>
<th>$C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7</td>
<td>19</td>
<td>71</td>
<td>59</td>
<td>79</td>
<td>39</td>
<td>118</td>
<td>224</td>
</tr>
</tbody>
</table>

**Birth Wt.:** 72  
**Adj. Wean:** 564

---

**SELECT SIRES INC.**

THANKS TO SELECT SIRES,  
LORNA MARSHALL AND BRIAN  
HOUSE FOR THEIR  
CONTINUED SUPPORT OF THE  
K-STATE PUREBRED BEEF UNIT
VitaFerm® is a line of beef cattle nutrition supplements purposefully crafted to maximize energy and forage utilization at every stage. The products are formulated to ensure your herd is receiving optimal digestive health and nutrition at every stage of production resulting in performance that pays. VitaFerm® is the official mineral program of Kansas State University.

For more information, contact BioZyme® Area Sales Manager Shane Schaake at (785) 456-5014.
**LOT 20 - KSU GUARDIAN 77K**

Reg #: 4037855  
DOB: 3/13/2022  
Tattoo: 79K  
Purebred Simmental • Homo Polled  
HOOK'S BEACON 56B  
**CLRS GUARDIAN 317G**  
CLRS ALWAYS XCELLENT  
WS ALL-AROUND Z35  
**KSU MISS ALL-AROUND 53E**  
KSU MISS GRADUATE 51C

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.1</td>
<td>-2.5</td>
<td>90.8</td>
<td>136</td>
<td>10.3</td>
<td>17.8</td>
<td>63.1</td>
<td>17.1</td>
</tr>
</tbody>
</table>

**DOC**  
MARB  
CW  
REAR  
API  
TI

<table>
<thead>
<tr>
<th>DOC</th>
<th>Marb</th>
<th>CW</th>
<th>REAR</th>
<th>API</th>
<th>TI</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.7</td>
<td>0.46</td>
<td>45.2</td>
<td>1%</td>
<td>0.95</td>
<td>168.7</td>
</tr>
</tbody>
</table>

Full brother to Lot 20 with a similar physical build, but in a calving ease package while still maintaining end product merit.

**LOT 22 - KSU ICONIC 95J**

Reg #: 4041216  
DOB: 9/17/2021  
Tattoo: 95J  
1/2 Simmental 1/2 Angus • Homo Polled  
MUSGRAVE 316 STUNNER  
**DB ICONIC G95**  
DB MS DISCOVERY D13  
HOOKS SHEAR FORCE 38K  
**KSU MISS SHEAR FORCE 9Z**  
KSU MISS MO BETTER 13X

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.6</td>
<td>-0.5</td>
<td>100.7</td>
<td>167.1</td>
<td>1%</td>
<td>8.4</td>
<td>27.2</td>
<td>77.5</td>
</tr>
</tbody>
</table>

**DOC**  
MARB  
CW  
REAR  
API  
TI

<table>
<thead>
<tr>
<th>DOC</th>
<th>Marb</th>
<th>CW</th>
<th>REAR</th>
<th>API</th>
<th>TI</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.9</td>
<td>0.99</td>
<td>69.8</td>
<td>1%</td>
<td>0.62</td>
<td>180.3</td>
</tr>
</tbody>
</table>

Practical, moderate, functional and backed by the outstanding donor 9Z. A maternal brother to KSU Bald Eagle who offers an incredible set of data. He ranks top of the top growth and carcass EPDs result in the extreme top of the breed for TI and API indices.
LOT 23 - KSU EPIC 61K

Incredibly stout, wide and square made, this phenotypical standout is backed by a productive daughter of 6Z. His genotype matches his phenotype as he combines top 5% performance, CW and REA.

LOT 25 - KSU GALILEO 57K

A direct son of the $20,000 past Legacy Sale feature. Stout, powerful, big ribbed and high performance, this 3/4 bull is at the top of the breed for Doc, API and TI.
LOT 27 - KSU RIGHT NOW 101J

Big, long and rugged, this Right Now son has some outcross genetics and is a maternal brother to the $20,000 KSU 64G. Performance through and through, he’s in the top 5% for growth and TI.

LOT 28 - KSU RIGHT NOW 94J

LOT 29 - KSU RIGHT NOW 98J

Maternal brother to KSU Bald Eagle. Uniquely combines top 5% Milk and STAY, also in the 5-10% for both API and TI.
LOT 31 - KSU COUNTY O 106J

**K31**

**KSU COUNTY O 106J**

<table>
<thead>
<tr>
<th>Reg #: 3969701</th>
<th>DOB: 10/14/2021</th>
<th>Tattoo: 106J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purebred Simmental • Homo Polled • Red</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W/C LOADED UP 1119Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEFF COUNTY O</td>
</tr>
<tr>
<td>RUBY NFF RHYTHM 475B</td>
</tr>
<tr>
<td>WS ALL-AROUND Z35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KSU MISS ALL-AROUND 53E</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSU MISS GRADUATE 51C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.9</td>
<td>0.8</td>
<td>81.1</td>
<td>124.7</td>
<td>3.2</td>
<td>10</td>
<td>50.5</td>
<td>16.1</td>
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</table>

<table>
<thead>
<tr>
<th>DOC</th>
<th>Marb</th>
<th>CW</th>
<th>REA</th>
<th>API</th>
<th>TI</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7</td>
<td>0.2</td>
<td>25.8</td>
<td>0.84</td>
<td>132</td>
<td>80.6</td>
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</table>

This outstanding red baldy is a powerhouse. This son of the famous 53E donor is deep, stout and high quality.

LOT 32 - KSU COUNTY O 108J

**K32**

**KSU COUNTY O 108J**

<table>
<thead>
<tr>
<th>Reg #: 3969703</th>
<th>DOB: 10/17/2021</th>
<th>Tattoo: 108J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purebred Simmental • Homo Polled</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W/C LOADED UP 1119Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEFF COUNTY O</td>
</tr>
<tr>
<td>RUBY NFF RHYTHM 475B</td>
</tr>
<tr>
<td>WS ALL-AROUND Z35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KSU MISS ALL-AROUND 53E</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSU MISS GRADUATE 51C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.6</td>
<td>1.4</td>
<td>85.9</td>
<td>125.6</td>
<td>3.1</td>
<td>10</td>
<td>52.9</td>
<td>12.1</td>
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<table>
<thead>
<tr>
<th>DOC</th>
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<th>REA</th>
<th>API</th>
<th>TI</th>
</tr>
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<tbody>
<tr>
<td>10.4</td>
<td>0.03</td>
<td>39.7</td>
<td>0.98</td>
<td>114</td>
<td>78.1</td>
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</table>

LOT 33 - KSU EAGLE 4K

**K33**

**KSU EAGLE 4K**

<table>
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<tr>
<th>Reg #: 4037841</th>
<th>DOB: 1/18/2022</th>
<th>Tattoo: 4K</th>
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</thead>
<tbody>
<tr>
<td>Purebred Simmental</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>HOOK`S BLACK HAWK 50B</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOOK`S CRYSTAL 1C</td>
</tr>
<tr>
<td>KSU MILESTONE 72E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KSU MISS MILESTONE 74H</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSU MISS ALL-AROUND 52E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>-0.5</td>
<td>86.8</td>
<td>137.8</td>
<td>1.8</td>
<td>19.5</td>
<td>62.9</td>
<td>16.3</td>
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<table>
<thead>
<tr>
<th>DOC</th>
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<th>CW</th>
<th>REA</th>
<th>API</th>
<th>TI</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7</td>
<td>0.52</td>
<td>5%</td>
<td>46</td>
<td>1.2</td>
<td>5%</td>
</tr>
</tbody>
</table>

Bull and heifer diets were supplemented with greatOPlus, compliments of NBO3 Technologies.

greatOPlus is manufactured using a patent-pending proprietary extrusion process, and contains high levels of omega-3 fatty acids to stimulate reproductive development and immune function.

**ST Genetics™**

THANKS TO ST GENETICS AND AARON ARNETT FOR THEIR SUPPORT OF THE K-STATE PUREBRED BEEF UNIT
LOT 34 - KSU BENTON 254 ET

**KSU BENTON 254 ET**

Reg #: 44342129  
DOB: 1/24/2022  
Tattoo: 254

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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</thead>
<tbody>
<tr>
<td>1.8</td>
<td>3.6</td>
<td>69</td>
<td>110</td>
<td>1.3</td>
<td>1.9</td>
<td>33</td>
<td>68</td>
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<table>
<thead>
<tr>
<th>CEM</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1%</td>
<td>0.83</td>
<td>2%</td>
<td>0.06</td>
<td>0.5</td>
<td>387</td>
</tr>
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</table>

$43,000 KSU Land Grant 153, 254 is powerful, athletic and well-balanced coupled with excellent EPDs. Top end carcass and excellent growth.

LOT 35 - KSU BENTON 253 ET

**KSU BENTON 253 ET**

Reg #: 44342126  
DOB: 1/24/2022  
Tattoo: 253

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
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<tbody>
<tr>
<td>-2.1</td>
<td>3.7</td>
<td>68</td>
<td>109</td>
<td>1.3</td>
<td>-0.1</td>
<td>29</td>
<td>63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CEM</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>86</td>
<td>5%</td>
<td>0.55</td>
<td>0.25</td>
<td>0.5</td>
<td>384</td>
<td>478</td>
</tr>
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</table>

Another son of the proven producer 956. He’s massive, wide and big ribbed with excellent growth and end product figures.

LOT 36 - KSU BENTON 261 ET

**KSU BENTON 261 ET**

Reg #: 44342139  
DOB: 3/4/2022  
Tattoo: 261

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>71</td>
<td>112</td>
<td>1.4</td>
<td>2</td>
<td>38</td>
<td>73</td>
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</table>

<table>
<thead>
<tr>
<th>CEM</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>92</td>
<td>2%</td>
<td>0.69</td>
<td>0.15</td>
<td>0.5</td>
<td>442</td>
<td>534</td>
</tr>
</tbody>
</table>

The well-balanced member of the powerful flush, both phenotypically and genetically. Sound-structured and well-designed, with breed-leading maternal figures combined with high performance.
**K37 - KSU BENTON 269 ET**

Reg #: 44342146  
DOB: 3/9/2022  Tattoo: 269

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>3.2</td>
<td>66</td>
<td>103</td>
<td>1.1</td>
<td>1.6</td>
<td>30</td>
<td>64</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Birth Wt.</th>
<th>ET</th>
<th>Adj. Wean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ET</td>
<td>641</td>
</tr>
</tbody>
</table>

**Lot 39 - KSU Journey 262**

**K38 - KSU BENTON 266 ET**

Reg #: 44342143  
DOB: 3/7/2022  Tattoo: 266

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7</td>
<td>1.6</td>
<td>58</td>
<td>86</td>
<td>0.8</td>
<td>2.8</td>
<td>24</td>
<td>53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Birth Wt.</th>
<th>ET</th>
<th>Adj. Wean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ET</td>
<td>654</td>
</tr>
</tbody>
</table>

**K39 - KSU JOURNEY 262**

Reg #: 44340463  
DOB: 3/5/2022  Tattoo: 262

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8</td>
<td>3.3</td>
<td>70</td>
<td>112</td>
<td>4%</td>
<td>5%</td>
<td>1.4</td>
<td>5.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Birth Wt.</th>
<th>ET</th>
<th>Adj. Wean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ET</td>
<td>84</td>
</tr>
</tbody>
</table>

Practical, big-ribbed and loose-structured with high performance both on paper and in person.

**K40 - KSU ADVANCE 256**

Reg #: 44340460  
DOB: 2/7/2022  Tattoo: 256

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>4.4</td>
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<td>57</td>
<td>92</td>
<td>0.7</td>
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<table>
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<tr>
<th>Birth Wt.</th>
<th>ET</th>
<th>Adj. Wean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ET</td>
<td>60</td>
</tr>
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</table>

**THANKS TO THESE HEREFORD BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:**

- COLYER HEREFORDS
- JENSEN BROS.
- SANDHILL FARMS
- SCHU-LAR HEREFORDS
- PEREZ CATTLE CO.
- WERK HEREFORDS
**HEREFORD BULLS**

**K41 KSU HIGH ROLLER 250 ET**

Reg #: 44342573  DOB: 1/17/2022  Tattoo: 250

<table>
<thead>
<tr>
<th>Birth Wt.</th>
<th>ET</th>
<th>Adj. Wean</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2</td>
<td>57</td>
<td>87</td>
</tr>
<tr>
<td>466</td>
<td>0.42</td>
<td>-0.01</td>
</tr>
<tr>
<td>50</td>
<td>37</td>
<td>-0.04</td>
</tr>
<tr>
<td>20</td>
<td>49</td>
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</table>

Maternal brother to division champion pen of heifers at 2022 Cattlemen’s Congress.

**K42 KSU 88X RIBEYE 257 ET**

Reg #: 44342563  DOB: 2/13/2022  Tattoo: 257

<table>
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<tbody>
<tr>
<td>-2.1</td>
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<tr>
<td>67</td>
<td>0.72</td>
<td>0.29</td>
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<tr>
<td>0.4</td>
<td>404</td>
<td>493</td>
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</tbody>
</table>

**CALL OR CHECK OUR WEBSITE FOR MORE DETAILS**

800.530.5624  ~  www.hydrabeds.com

P.O Box 248 / 902 Hwy. 246, Sabetha, KS 66534
KSU MISTY 151 ET

Thank you to GKB Cattle, Desdemona, Texas, for purchasing half embryo interest in KSU Misty 151 ET for $30,000 during the Hereford Night in OKC National Hereford Sale in January. A full sister to KSU Land Grant 153 ET, we’re excited about this elite donor’s future.

KSU LAND GRANT 153 ET

Reg #: 44231207
DOB: 1/25/2021

NJW 79Z Z311 ENDURE 173D ET
LOEWEN GENESIS G16 ET
LOEWEN 77 48 MISS 344N 4RB42ET
R LEADER 6964
KSU MISS MISTY 956 ET
KJ 274S ROXY 482Y ET

<table>
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<th>MCE</th>
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<th>CW</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
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<tr>
<td>82</td>
<td>0.65</td>
<td>0.2</td>
<td>0.6</td>
<td>402</td>
<td>489</td>
<td>132</td>
</tr>
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</table>

A true standout and one of the greatest bulls raised in the 141 years of producing seedstock at KSU. His incredible stoutness combines with performance, structural integrity, pigment and exceptional balance. He’s one of the best sons to be found of the breed sensation Loewen Genesis G16.

Thank you to Delaney Herefords, Perez Cattle Co. and Dvorak Herefords for purchasing Land Grant in the 45th Annual Legacy Sale. Watch for details on our Facebook page for semen available soon.
Kansas State University’s purebred beef herd was established in 1881 with the purchase of an Aberdeen-Angus heifer, Eyebright 4th 7131 (7446), from the Ontario Agricultural College. A Hereford bull and heifer — Parley 30782 and Miss Beau Real 7th 30781 — were purchased from George Fowler, Maple Hill, Kansas, in 1888. These two breeds made up the herd until it was disposed in 1897 due to tuberculin test reactions and an order from the Board of Regents. The Board’s order was the result of concern across the state that K-State’s cattle should be “practical farmer’s livestock” instead of purebred animals. The herd was then reestablished in 1901 with seven different breeds of beef, dairy and dual-purpose cattle.

THE UNIT
The Purebred Beef Unit annually runs nearly 300 breeding-age purebred Angus, Hereford and Simmental cows on 4,000 acres of native bluestem grass. The Headquarters and Calving Center is located at the edge of campus near the Stanley Stout Center off of Denison Avenue. This location includes the calving and maternity barn, multipurpose space, office spaces and an apartment for student workers. Animal holding pens, pasture space, processing, feed storage and shop are adjacent to this facility. The Bull and Heifer Development Center is adjacent to the existing Beef Cattle Research Center north of Marlatt Avenue. This location has covered feed bunks and an automated individual animal feed and water intake monitoring system situated in a dry lot condition. The facility also has animal holding pens and a processing area. Mature females are maintained northeast of town about 10 miles at the Cedar Creek Ranch headquarters. This ranch, located just off Highway 13, serves an instrumental role in the teaching aspect of our operation.

MISSION AND PURPOSE
Our mission is to provide undergraduate students with practical experience in breeding, feeding, management and marketing of purebred seedstock as well as give livestock selection, general animal science courses and students from colleges across the nation the opportunity to evaluate quality cattle. Each year hundreds of students utilize cattle raised at this unit. The herd also provides an opportunity to demonstrate breeding programs for genetic improvement of seedstock, using genomics, performance testing, artificial insemination, embryo transfer and ultrasound carcass evaluation.

Applied research trials are conducted using cattle produced in this herd, such as synchronized artificial insemination, feed efficiency and feed additive research. Cattle are also used for teaching purposes in classes such as Livestock Sales Management, Pregnancy Diagnosis, Calving, Livestock and Meat Evaluation, and used for competition in the annual Little American Royal. A portion of the cattle produced in this herd are merchandised in the annual “Legacy” Bull and Female Sale held the first Friday in March. This sale is unique to the nation because it provides students hands-on, practical experience in purebred cattle marketing.

PRODUCTION SALES
This year will be the 46th sale, as the first Special K sale was hosted in 1977. This first sale was unique to the nation because it was a university sale organized and managed by students. A sale has been hosted each school year since 1977. Early sales rotated between Angus, Simmental and Hereford cattle. In 1987, it was decided to sell all breeds in one annual sale.

K-State’s most distinguished female was the Angus heifer Manhattan Gal. Her national reputation was the momentum behind the first Special K Edition sale. Manhattan Gal was the Supreme Champion Individual at the 1976 Angus Futurity, and the Grand Champion Angus Female at the American Royal, North American International Livestock Exposition and the National Western Stock Show. The highest selling individual in a Legacy/Special K sale was a Hereford bull, KSU Land Grant 153 ET. He sold for $43,000 and was purchased in the 2022 Legacy Sale by Delaney Herefords, Dvorak Herefords and Perez Cattle Co. The second high-seller was a Simmental female, KSU Miss Eagle 64G, that sold for $20,000 in the 2020 Legacy Sale. She was purchased by Royce Rothlisberger and the Troy Marple family. Slammer K 04147, a Hereford bull, was purchased in 1981 by C K Hereford Ranch, Brookville, Kansas, for $12,500. K-State’s highest selling female was KSU Miss Dorothy, a Simmental heifer calf that sold at the National Western Stock Show for $25,000.

In 2008, the name of the sale was changed to the “Legacy” sale to honor 127 years of continuous beef improvement. The K-State Purebred Beef Unit might be the most unique experience offered to current and potential students in agricultural colleges across the nation. The educational opportunities available to students producing, promoting and merchandising high-quality purebred cattle continue to play a fundamental role in a program that has been nationally recognized for excellence in teaching, research and extension.
CATTLEMEN’S DAY 2023
March 3, 2023 • Weber Hall

8 a.m.  Trade Show and Educational Exhibits

9:30 a.m.  Welcome & Department Overview
  Mike Day, KSU ASI department head

Navigating the U.S. Carbon Market
  Jason Sawyer, East Foundation chief science officer

Beef Industry Economic Outlook
  Glynn Tonsor, K-State Agricultural Economics

Noon  Lunch — Weber Arena

1:30 p.m.  AFTERNOON SESSIONS
  Weber 111
  Beef Sensory Update
  Erin Beyer, K-State ASI doctoral student

  Weber 123
  Strategies for Optimizing Cow Herd Reproduction with High Feed Costs
  Sandy Johnson, K-State ASI extension beef specialist
  Jason Warner, K-State ASI extension cow-calf specialist

  Weber 146
  NBAF Update
  Ken Burton, National Bio and Agro-Defense Facility deputy director

STOCKMEN’S DINNER
Thursday, March 2, 6 p.m.
Stanley Stout Center
2200 Denison Ave., Manhattan, Kansas

Honoring
Tom Perrier Family
as
“Stockman of the Year”

Register at: asi.ksu.edu/stockmensdinner
RSVP by February 23

For more information about Cattlemen’s Day or the Stockmen’s Dinner, contact:
785-532-1267 or asi@ksu.edu

Register online at KSUBee.org
KSU RITA 2163

Reg #: 20414504  DOB: 1/23/2022  Tattoo: 2163

G A R Ashland
G A R HOMETOWN
Chair Rock Sure Fire 6095
G A R Proactive
G A R PROACTIVE 1258
G A R Sunrise N1505

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<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
<tr>
<td>12</td>
<td>2.3</td>
<td>88</td>
<td>160</td>
<td>2%</td>
<td>0.9</td>
<td>13</td>
<td>74</td>
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<td>1.89</td>
<td>19</td>
<td>59</td>
<td>80</td>
<td>5%</td>
<td>115</td>
<td>4%</td>
<td>94</td>
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KSU Rita 2163 is an exciting young female combining a quality look along with high performance and outstanding data across the board. Attractive fronted, well-balanced, long-bodied and high-performance, she posts an incredible EPD profile. She ranks in the top 5% of the breed in multiple categories, but is especially strong in her $ indices. She has the rare combination of being well above $200 in $B and $300 in $C; these both rank in the top 2% of both traits. With her combination of high-quality phenotype and outstanding genomic profile her potential is unlimited. She has the capability to be a competitive PGS show heifer and a standout in the donor pen. Retaining two flushes at the buyer’s convenience.
**KSU MISS RIGHT NOW 100J**

Reg #: 3969695  
DOB: 9/19/2021  
Tattoo: 100J  
Purebred Simmental • Homo Polled  
HOOK’S BOZEMAN 8B  
MR SR 71 RIGHT NOW E1538  
MISS SR C1538  
WS ALL-AROUND Z35  
KSU MISS ALL-AROUND 53E  
KSU MISS GRADUATE 51C

<table>
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<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
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<tbody>
<tr>
<td>12.7</td>
<td>0</td>
<td>98.2</td>
<td>155.1</td>
<td>3%</td>
<td>9.1</td>
<td>20</td>
<td>69</td>
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**DOC**  
14.8  
Marb  
42.5  
CW  
0.27  
REA  
1.09  
API  
157  
TI  
96.6 | 5% |

Al bred 12/8/22 to KSU Bald Eagle 53G (Reg.: 3594678).

**KSU MISS RIGHT NOW 91J**

Reg #: 3969687  
DOB: 9/13/2021  
Tattoo: 91J  
Purebred Simmental • Homo Polled  
HOOK’S BOZEMAN 8B  
MR SR 71 RIGHT NOW E1538  
MISS SR C1538  
WS ALL-AROUND Z35  
KSU MISS ALL-AROUND 53E  
KSU MISS GRADUATE 51C

<table>
<thead>
<tr>
<th>CE</th>
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<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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<tbody>
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<td>15.7</td>
<td>-1.9</td>
<td>93</td>
<td>138.1</td>
<td>2%</td>
<td>10.3</td>
<td>20</td>
<td>66.4</td>
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**DOC**  
12.9  
Marb  
33.8  
CW  
0.3  
REA  
1.04  
API  
157.2  
TI  
95.7

Al bred 11/30/22 to KSU Bald Eagle 53G (Reg.: 3594678).

**KSU COUNTY MISS 104J**

Reg #: 3969699  
DOB: 9/26/2021  
Tattoo: 104J  
Purebred Simmental • Homo Polled  
W/C LOADED UP 1119Y  
GEFF COUNTY O  
RUBY NFF RHYTHM 475B  
WS ALL-AROUND Z35  
KSU MISS ALL-AROUND 53E  
KSU MISS GRADUATE 51C

<table>
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<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
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<th>MWW</th>
<th>Stay</th>
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<td>7.9</td>
<td>2.3</td>
<td>85.2</td>
<td>121.4</td>
<td>3.9</td>
<td>10.1</td>
<td>52.7</td>
<td>12.2</td>
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**DOC**  
9.5  
Marb  
34.3  
CW  
-0.06  
REA  
1.19  
API  
109.3  
TI  
75.1

Al bred 12/28/22 to THSF Lover Boy B33 (Reg.: 2983443).

**KSU COUNTY MISS 93J**

Reg #: 3969689  
DOB: 9/13/2021  
Tattoo: 93J  
Purebred Simmental • Homo Polled • Red  
W/C LOADED UP 1119Y  
GEFF COUNTY O  
RUBY NFF RHYTHM 475B  
WS ALL-AROUND Z35  
KSU MISS ALL-AROUND 53E  
KSU MISS GRADUATE 51C

<table>
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<tr>
<th>CE</th>
<th>BW</th>
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<th>Milk</th>
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<td>10.1</td>
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<td>15.7</td>
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**DOC**  
10.4  
Marb  
37.1  
CW  
0.08  
REA  
1.03  
API  
127.1  
TI  
82.5

Al bred 12/28/22 to THSF Lover Boy B33 (Reg.: 2983443).

**KSU MISS HESTON 109J**

Reg #: 3969704  
DOB: 10/24/2021  
Tattoo: 109J  
3/8 Simmental 5/8 Angus  
S A V HESTON 2217  
MOHNEN HESTON 2836  
MOHNEN JILT 539  
CCR COWBOY CUT 5048Z  
KSU MISS COWBOY CUT 71E  
KSU MISS BLUE MOON 22X

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<td>117.5</td>
<td>9.1</td>
<td>18.5</td>
<td>56.3</td>
<td>17.9</td>
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**DOC**  
13.8  
Marb  
36.6  
CW  
0.52  
REA  
0.33  
API  
147.3  
TI  
81.2

Al bred 12/8/22 to KSU Bald Eagle 53G (Reg.: 3594678).
Fall calving cows were artificially inseminated (see footnote) and then pasture exposed to KSU Richmond 9163 (Reg.: 19549332) from 1/7/23 to 2/1/23. All cows will be pregnancy checked and confirmed safe in calf prior to sale day. A supplement sheet will be provided online and at the sale.

**EPD box note:** EPDs ranking in the top 15% of the breed are bolded. Those ranking in the top 1% to 5% are noted.

---

**K49**

**Reg #:** 20096328  
**DOB:** 1/18/2021  
**Tattoo:** 1155

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
**MCATL Blackbird 831-1378**  
**Deer Valley All In**  
**KSU MISS ALL IN 5197**

**KSU Miss Final Answer 9147**

<table>
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<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
<tr>
<td>5</td>
<td>0.4</td>
<td>78</td>
<td>121</td>
<td>1.3</td>
<td>2</td>
<td>28</td>
<td>59</td>
<td>0.55</td>
<td>0.59</td>
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<td>84</td>
<td>2%</td>
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<td>45</td>
<td>138</td>
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Al bred 12/9/22 to S A V Checkmate 8158 (Reg.: 19253201)

---

**K50**

**Reg #:** 20096329  
**DOB:** 1/22/2021  
**Tattoo:** 1161

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
**MCATL Blackbird 831-1378**  
**Deer Valley All In**  
**KSU MISS ALL IN 5197**

**KSU Miss Final Answer 9147**

<table>
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<tr>
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<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
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<td>7</td>
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<td>6</td>
<td>27</td>
<td>58</td>
<td>0.44</td>
<td>0.7</td>
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<th>$G</th>
<th>$B</th>
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<td>1.06</td>
<td>14</td>
<td>78</td>
<td>82</td>
<td>3%</td>
<td>97</td>
<td>48</td>
<td>145</td>
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Al bred 12/9/22 to G A R Ashland (Reg.: 1821798)

---

**K51**

**Reg #:** 19672391  
**DOB:** 4/11/2019  
**Tattoo:** 9232

**S A V Hesston 2217**  
**MOHNEN HESSTON 2836**  
**Mohnen Jilt 539**  
**G A R Prophet**  
**KSU MISS PROPHET 6188 ET**  
**G A R 28 Ambush 981**

**KSU Miss Final Answer 9147**

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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
<tr>
<td>7</td>
<td>1.2</td>
<td>53</td>
<td>93</td>
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<td>13</td>
<td>55</td>
<td>54</td>
<td>73</td>
<td>63</td>
<td>136</td>
<td>231</td>
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</table>

Al bred 12/9/22 to G A R Ashland (Reg.: 1821798)

---

**K52**

**Reg #:** 19876553  
**DOB:** 2/20/2020  
**Tattoo:** 0167

**Sitz Upward 307R**  
**PLATTEMERE WEIGH UP K360**  
**Barbara of Plattemere 337**  
**Baldridge Xpand X743**  
**THOMAS ERICA 5665**  
**Thomas Erica 81128**

**THOMAS ERICA 9147**

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<th>SC</th>
<th>CEM</th>
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<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>0.2</td>
<td>67</td>
<td>122</td>
<td>0.66</td>
<td>7</td>
<td>32</td>
<td>46</td>
<td>0.52</td>
<td>0.96</td>
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<td>1.69</td>
<td>19</td>
<td>62</td>
<td>73</td>
<td>81</td>
<td>66</td>
<td>147</td>
<td>253</td>
</tr>
</tbody>
</table>

Al bred 12/9/22 to G A R Ashland (Reg.: 1821798)
**K53**

**KSU MISS HESSTON 0227**

Reg #: 20005418  
DOB: 3/30/2020  
Tattoo: 0227

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1.2</td>
<td>50</td>
<td>80</td>
<td>0.36</td>
<td>13</td>
<td>21</td>
<td>25</td>
<td>0.39</td>
<td>1.23</td>
</tr>
</tbody>
</table>

DMI: 0.73  
DOC: 13  
$M$: 62  
$W$: 48  
$S$: 57  
$F$: 73  
$G$: 130  
$B$: 231

AI bred 12/8/22 to G A R Ashland (Reg.: 18217198).

---

**K54**

**KSU BLACkCAP 1406**

Reg #: 20341495 [DDC]  
DOB: 10/28/2021  
Tattoo: 1406

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>62</td>
<td>95</td>
<td>-0.1</td>
<td>9</td>
<td>17</td>
<td>26</td>
<td>0.2</td>
<td>1.03</td>
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</table>

DMI: 1.03  
DOC: 17  
$M$: 73  
$W$: 54  
$S$: 63  
$F$: 117  
$G$: 225

AI bred 12/8/22 to G A R Ashland (Reg.: 18217198).

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**K55**

**KSU ERICA 1408**

Reg #: 20341497 [DDP]  
DOB: 11/12/2021  
Tattoo: 1408

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>68</td>
<td>117</td>
<td>1.12</td>
<td>4</td>
<td>17</td>
<td>47</td>
<td>0.53</td>
<td>0.51</td>
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</table>

DMI: 1.52  
DOC: 11  
$M$: 55  
$W$: 58  
$S$: 83  
$F$: 45  
$G$: 128  
$B$: 221

AI bred 12/9/22 to G A R Ashland (Reg.: 18217198).

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**K56**

**KSU MISS HESSTON 1205**

Reg #: 20576724 [DDP]  
DOB: 3/25/2021  
Tattoo: 1205

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>48</td>
<td>81</td>
<td>0.26</td>
<td>8</td>
<td>24</td>
<td>21</td>
<td>0.33</td>
<td>0.83</td>
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</tr>
</tbody>
</table>

DMI: 0.51  
DOC: 14  
$M$: 68  
$W$: 45  
$S$: 69  
$F$: 56  
$G$: 125  
$B$: 230

AI bred 12/9/22 to G A R Ashland (Reg.: 18217198).

---

**K57**

**KSU MISS ASHLAND 1213**

Reg #: 20576723  
DOB: 4/03/2021  
Tattoo: 1213

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>CW</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>0.2</td>
<td>70</td>
<td>125</td>
<td>0.57</td>
<td>5</td>
<td>24</td>
<td>42</td>
<td>0.85</td>
<td>1.13</td>
</tr>
</tbody>
</table>

DMI: 1.35  
DOC: 27  
$M$: 56  
$W$: 62  
$S$: 82  
$F$: 81  
$G$: 163  
$B$: 267

Pasture bred.
Our Commercial HEIFERS

These heifers are all bangs vaccinated, freeze branded and ready to breed. They will be sold in groups of three. Buyer does have option to take as many lots as they wish.

**K58**
BLACK BALDY HEIFERS
One F1 and two F2s. Sired by KSU Conversation 7168.

**K59**
REGISTERABLE ANGUS COMMERCIAL HEIFERS
Can be registered at buyer’s cost. Sired by KSU Weigh Up 9151.

**K60**
ANGUS COMMERCIAL HEIFERS
Sired by Mohnen Hesston 2836 and Connealy Pratto.

**K61**
ANGUS COMMERCIAL HEIFERS
Sired by Connealy Pratto, Mohnen Hesston 2836 and KSU Weigh Up 9151.

**K62**
BLACK COMMERCIAL HEIFERS
Sired by KSU Conversation 7168.

**K63**
BLACK COMMERCIAL HEIFERS
Sired by KSU Conversation 7168 and KSU Weigh Up 9151.

**K64**
SIMMENTAL COMMERCIAL HEIFERS
Simmental-influenced, half-blood to purebreds. Sired by Circle Beacon F131.
HORSE SALE TERMS & CONDITIONS

All horses will be sold with a current Coggins and up-to-date vaccinations, deworming, and dental care. Horses sell with a 72-hour soundness guarantee and veterinary inspection and documentation is required to deem a horse unsound within the appropriate window. Pre-purchase exams may be coordinated prior to the sale at buyer’s expense.

Terms of the sale are payment in full by cash, cashier’s check or personal check. Online and phone bidders are required to contact Sterling Buist within 24 hours of purchase to make arrangements for payment and housing until pickup.

Horses are at the buyer’s risk and responsibility at the fall of the gavel. Representatives will be available sale day if you are interested in purchasing insurance. One week of free stall board is extended to all buyers. If the horse is not picked up within a week of the sale, horses will incur board charges of $15/day. If assistance is needed with transportation, please contact Sterling Buist for additional details.

Registration Papers and Transfer Reports will be mailed to buyers once payment has cleared our system. Transfer of registration papers will be at the expense and effort of the buyer.

As always, we are excited to offer a stellar group of horses that highlight our program. From conception to the final products offered in the sale, these horses have contributed to the learning and growth of our students. Along with all of the students who have had a part of these horses' journeys in classes, the current horse unit employees have been an instrumental part of their success. I would like to thank Hunter Kenney, Calder McCollum, Ian Batey, Miranda Hill, Cassie Dissel, Brad Hill and Kaitlyn Carlson for all of their hard work. We recently switched around class offering times between semesters, so these sale horses have all been started and ridden exclusively by student employees. We are currently working out the details for updated marketing strategies and student opportunities, so be on the look out for new program details coming soon! Feel free to reach out to me at any point about our horses or program. Happy bidding and Go Cats!

— Sterling Buist, KSU Horse Unit Manager
KSU ROWDY N RACY

Barn name: Jingles  Reg #: 6164147  
Foaled: 4/8/2020  Height: 15.0  Weight: 1,100 lb.

KSU ROWDY N RACY

RANCH PERFORMANCE HORSES

CORONA CARTEL
OUR LIPS ARE SEALED

STEL CORONA
si 105 ($111,584) Over $10 million in progeny earnings

MISS RACY EYES
si 98 ($133,195)

MR EYE OPENER
MISS RACY VIKE

MOE ROWDY STAR
Ranch Sire for the Bashor Ranch

ROWDY YANKEE
MOE CHEX TO CASH

ROMICKEY

PALEMICK

BH PALE VELVET
STORMIN MICKEY

Who doesn’t love a pretty buckskin? Coupled with her large frame and additional dun factor, Jingles sure has the look to get you noticed. While still a bit green in the arena, she spent her early rides out in the pasture. Sired by an up-and-coming racehorse sire that was lost too soon, she combines his speed and ground-covering stride with the quiet demeanor of her ranch horse bottom side to produce a rope or barrel prospect that is easy to ride. She’s got a big step and solid foundation to go to work on the ranch, head to the roping pen or start on barrels your way.
I am usually a mare fan, but this gelding is my favorite of the bunch. Tank earned his name as a weanling as he was the stoutest and thickest made colt. Even being “just a sorrel” he drew your eye in a pen full of colorful babies. He’s gentle and easy to get along with but ready to step up and get the job done when you ask for it. Sired by a son of the biggest name in cutting and cowhorse events and out of a daughter of a long-standing sire for the 6666 Ranch, he has the pedigree to go whatever direction you choose. Don’t let the sorrel color keep you from taking a good look at this gelding. Everyone is sure to love him!
KSU RUBY FRECKLES

Barn name: Ruby  Reg #: 6084096  Foaled: 4/16/2020  Red Roan Mare  Height: 14.2  Weight: 925 lb.

BOONS SMART AE
LTE $4.900 NCHA and NRCHA. Superior Heeling, 266 Open and Amateur points in cowhorse, cutting, heading, healing, barrels, reiniging and ranch riding. Sire of money earners and point earners and multiple world show finals qualifiers

PEPTOBOONSMAL
$20+ Million Dollar Sire

SMART LITTLE LENA
NCHA money earner

FRECKLES PLAYBOY
RENA LENA

FRECKLES CODY JOLENA

CODY ROSE NINE
ROSE BAR LEO

While this set of colts is greener than we have offered in the past due to shifting some class offerings around, this mare has had the most riding of the group. She is the brokest and has the biggest motor in a smaller package. Her sire is an accomplished show horse and producer and she has many siblings showing and winning in the cowhorse, roping and ranch events. Ruby is soft in the face, a big, pretty mover with a big stop and is quick footed. She also has a curious and sweet nature for the whole family to love.
Purebred baldy with breed-leading EPD profile.

Calving Ease — Heifer Safe

Dam is the top donor at Kansas State with a strong maternal legacy.

Will improve IMF and carcass value without sacrificing maternal traits.

Impressive SimAngus™ progeny highlighted in Long’s Simmentals February 6 production sale.

Performance progeny with excellent CE to Growth spread.

Semen: $40/unit  Volume Pricing Available  
Semen available through owners and  
Cattle Visions 573-641-5270 • www.cattlevisions.com

ASA#: 3594678  •  BD: 1.17.2019  
Sire: Hook’s Eagle 6E  •  Dam: KSU Miss Shear Force 9Z

Bald Eagle Daughter – ASA# 4013505

Scan QR code to view latest progeny video.