43RD ANNUAL BULL & FEMALE SALE

Legacy K SALE

STANLEY STOUT CENTER
MARCH 6 | 4 P.M.
Thank You

Gardiner Angus Ranch
Thomas Angus Ranch, Rob & Lori Thomas
Sandhill Farms, Kevin & Vera Schultz
Jensen Bros., Kevin & Sheila Jensen
Perez Cattle Co., Kyle Perez
McCurry Angus Ranch, John McCurry
Werk Herefords, Shane Werk
Griswold Cattle, Kent Jaecke • 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
LiveAuctions.tv, Ben Gleason • GeneSeek, Rick Pfortmiller
Genex, Cody Sankey
Select Sires, Lorna Marshall and Brian House
STgenetics, Aaron Arnett
Roto-Mix LLC, Mark Cooksey
Hold’em Fence Co., Yachal Benedict
Fink Beef Genetics, Galen & Lori Fink
Dr. David Grieger, Esther McCabe, Ashley Hartman
Kansas Arrowquip Dealers: Wertzberger Ranch Equipment, Alma; Triple S Ranch Supply, El Dorado;
Stone Farms and Sales, Louisburg
Blueville Nursery
Schuler Manufacturing Co., Reggie Schuler
Gallagher North America, Ray Williams
Benyshek and Hough Consulting Services Inc., Dr. Larry Benyshek and Dr. John Hough
Livestock Sales Management Class Speakers: Abram Mertz, Mary Ann Kniebel, Barb Downey, Kent Jaecke,
Shane Bedwell, John McCurry, Kevin Jensen and Mark Gardiner
K-State Stocker Unit, Dr. Dale Blasi 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 Wahl and staff
Kansas Artificial Breeding Services Unit, Dr. Tom Taul and staff
K-State ASI Staff: Angie Denton, Lois Schreiner, Tim Carson and Christina Carlson
Purebred Unit Employees: Brandon Frederick, Jake McCall, Gus Quillin, Hadley Schotte, Brody Thayer, Hannah
    Williams, Isaac Wingert and Grady Woodard
Horse Unit Employees: Hannah Tice, Parker Carroll, Ian Batey, McKenna Woolery and Hunter Kennedy
Catalog Design: Sierra Day and Emily Meinhardt

MARK YOUR CALENDARS FOR NEXT YEAR’S LEGACY SALE ON MARCH 5, 2021!
THURSDAY, MARCH 5

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

6 p.m.  50th Annual Stockmen’s Dinner Honoring
        Patsy Houghton
        Four Points by Sheraton
        530 Richards Dr.
        Manhattan, Kansas

FRIDAY, MARCH 6

8 a.m.  Cattlemen’s Day
        Weber Arena

11 a.m.  Cattle on display
         Stanley Stout Center

Noon  Lunch sponsored by
       U.S. Premium Beef and commercial exhibitors
       Weber Arena

4 p.m.  43rd Annual Legacy Sale
         Stanley Stout Center
2019-2020 Livestock Sales Management Class – Seated (l to r) are: Sierra Day, Cerro Gordo, IL; Anna Behrens, Norwich, KS; Miranda Hoag, Illinois City, IL; Reba Colin, Butler, MO; Emily Meinhardt, Marysville, KS; Allysaa Davis, Conway Springs, KS; Nicole Stafford, Sunnyvale, TX. Back row (l to r) are: Adrianna Gasper, North Vernon, IN; Shelby Smith, Grabill, IN; Cameron Kilgore, Atchison, KS; Taylor Nikkel, Maple Hill, KS; Jake Nikkel, McPherson, KS; Ryan Koons, Meade, KS; Madeline Roth, St. Paul, NE; Hallie Anderson, Wayne City, IL. Not pictured are Brandon Frederick, Sterling, KS, and Gus Quillin, Burrton, KS.

FIND US ON SALE DAY

Dr. Mike Day
Dr. Dave Nichols
Dr. Bob Weaber
Shane Werk

The Legacy Sale • asi.ksu.edu/bullsale
Dear Friends,

On behalf of the K-State Livestock Sales Management class and the Department of Animal Sciences and Industry, welcome to the 43rd Annual Bull & Female Sale! Plan to join us as we celebrate 43 years of commitment to students and beef producers. We hope to see you in Manhattan on Friday, March 6.

For more than four decades, our commitment to our customers has been to provide cattle that are profitable in a variety of situations. This year’s offering was designed with that commitment in mind. Utilizing the latest technology, we have sought to build cattle that perform in a wide range of management and environmental conditions. Look through the list of calving ease bulls for use on heifers in all three breeds. Find the bulls in the upper percentiles in carcass traits to hit premium targets, and the high growth bulls that produce more pay-weight at weaning. Look for your next breeding piece to strengthen your herd among our bred female offering.

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 6.

Sincerely,

Mike Day

Dave Nichols

Robert Weaber

Shane Werk
SALE HEADQUARTERS
K-State Stanley Stout Center
2200 Denison Avenue, Manhattan, Kansas
Sale Day Phone: 785-532-2100

SALE MANAGER
2019-20 K-State Livestock Sales Management Class

SALE DAY PHONE NUMBERS
Block .................................................. 785-532-2100
Shane Werk ............................................. 785-565-1881
Bob Weaber .......................................... 785-477-1287
Dave Nichols ........................................... 785-317-4994
Dr. Sterling Buist ..................................... 785-313-3323

HONORED GUESTS
Dr. Ernie Minton, Dean, College of Agriculture
Dr. Don Boggs, Associate Dean, College of Agriculture
Dr. Miles McKee, Professor Emeritus, Animal Sciences and Industry

ASSOCIATION REPRESENTATIVES
Jeff Mafi, Regional Manager, American Angus Association
John McCurry, President, Kansas Angus Association
Oliver Beall, President, Kansas Hereford Association
Kelli Cox, President, Kansas Simmental Association

SALE STAFF
Col. Sonny Booth, Auctioneer......................... 918-533-5587
Guy Peverly, The Stock Exchange .................... 785-456-4390
Stephen Russell, Kansas Stockman ................. 785-458-2850
Justin Stout, The Stock Exchange ................... 913-645-5136
Kent Jaecke, Rockin’ K Productions ................ 405-408-2440

TERMS AND CONDITIONS
The terms of the sale are cash unless prior arrangements have been made. Animals will be sold to the highest bidder with the auctioneer settling any disputes. Announcements made at the sale by the sales staff and/or the auctioneer will take precedence over statements in the catalog.

REGISTRATION AND TRANSFER
Registration certificates will be transferred to the buyer at the seller’s expense. Buyers must give the clerk complete name, address and association information for making transfers.

ABSENTEE BIDS
Absence bids by persons unable to attend the sale may be placed by phone or mail with the sale management, publication representatives or the auctioneer. You may also call the sale day phone, or any of the agents listed above, to place your bid.

ANIMAL INFORMATION
Animals are permanently identified by tattoo in both ears.

BREEDING STATUS
Information was collected with the assistance of K-State Veterinary Medicine Teaching Hospital faculty in February 2020.

VIEW SALE BROADCAST ONLINE
Real-time bidding is available via the Internet for this sale. Live audio and video will allow buyers to bid on animals just as if they were present at the sale. Buyers must create an account prior to the sale. Please visit www.LiveAuctions.tv to create an account and request a buyer number. For more information, contact Ben Gleason at 785-640-9390 or Ben@LiveAuctions.tv. Please have your buyer number by March 5 for the K-State Legacy Sale.

HERD HEALTH
The health of the cattle is excellent. All cattle in the offering will meet the health regulations of the state of Kansas and appropriate health papers for interstate shipment will be furnished. Cattle were vaccinated with Boehringer Ingelheim Pyramid 5 + Prespont at turnout and weaning. Calves were vaccinated for clostridials and pinkeye with Alpha at turnout and for clostridials at weaning with Vision 7. Calves were treated with an ivermectin pour-on to control internal and external parasites. Bulls will receive a prebreeding vaccination. All bulls will be evaluated using a breeding soundness exam conducted by personnel at the Kansas Artificial Breeding Service Unit (KABSU).

BREEDING GUARANTEE
Bulls and females are guaranteed to be breeders for one breeding season except for:
I. Injury or disease occurring to the animal after the purchase.
II. Gross negligence or willful misconduct by the purchaser.

DELIVERY AND MANAGEMENT
To your advantage, animals that are taken home sale day will be given $50 off the purchase price of the lot. If you choose to leave your purchase at K-State after the sale, we strongly recommend you insure your purchase. K-State cannot be held liable for injury or death to that animal after the sale. Animals kept after March 20, 2020, will incur charges of $3 per day for feed. Kansas State will deliver your purchase for $4 per loaded mile. Contact Shane Werk at 785-565-1881 immediately if any issue arises.

ANIMAL AND SEMEN INTEREST
K-State is keeping semen interest and revenue sharing rights on all sale bulls. K-State is selling full possession, full salvage value and 75% semen interest on all bulls. K-State reserves the right to collect semen at our cost and at your convenience for artificial insemination purposes. K-State reserves the right to flush any cow two times or a minimum of 6 transferable embryos per flush; sire of our choice and flush at our expense. Visit with Shane Werk for details.

INSURANCE
Livestock insurance will be available and is strongly encouraged for those buyers who will not be taking their purchases home on sale day.
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 Bob Weaber, 785-477-1287, or Scott Jones, Director of Institutional Equity, Title IX Coordinator, Kansas State University, (TTY) 785-532-4807

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 February 3, 2020. 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), Hypatrichosis (HY), 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.

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 prediction of differences in 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. For a helpful Excel worksheet: http://bit.ly/KSUEPDS.

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) is an indicator of the differences in genetic potential between sires for their 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
$Value indexes 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. $W 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. $F includes both revenue and cost adjustments associated with differences in birth weight, weaning direct growth, maternal milk and mature cow size.

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.
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

<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>Fat</th>
<th>RE</th>
<th>Marb</th>
<th>DMI</th>
<th>DOC</th>
<th>$EN</th>
<th>$W</th>
<th>$F</th>
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<td>-11</td>
<td>54</td>
<td>82</td>
<td>44</td>
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HEREFORD AVERAGE EPDS

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<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>MM</th>
<th>M&amp;G</th>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DM</th>
<th>$BMI</th>
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<td>2.2</td>
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<td>320</td>
<td>386</td>
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SIMMENTAL AVERAGE EPDS

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<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
<th>Marb</th>
<th>Fat</th>
<th>REA</th>
<th>API</th>
<th>TI</th>
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<tr>
<td>10</td>
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<td>-0.11</td>
<td>0.82</td>
<td>123.77</td>
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</table>

SELECT WITH CONFIDENCE:
LEVERAGING THE POWER OF GENOMICS

We recognize that our customers seek out different genetic packages from our offering to work in their unique production circumstance. We also know that there are a variety of traits that contribute to profit of beef producers. It is this breadth of need that motivates us to collect a wide range of phenotypic data. Our job as a seedstock producers is to collect accurate and reliable information to inform selection tools like EPDs and indexes.

Genomic tools provide additional information regarding an animal’s genetic merit and add a substantial improvement in EPD accuracy for young animals. While accuracy improvement for conventional growth and carcass traits is valuable, improvements in the accuracy of EPD for traits like heifer pregnancy, stayability, calving ease, and maternal traits where non-parents won’t have a performance record, may prove to be of even higher value. Current DNA genotyping yields increases in EPD accuracy equivalent to the animal having approximately 10-30 progeny with data recorded. With our use of genomic tools, commercial producers can purchase bulls with EPD accuracies roughly equal to those of bulls that have had all the available traits recorded for their first calf crop.

All sale bulls and feature heifer lots have been genotyped through their respective breed associations.

Know that you can buy with confidence at the Legacy Sale. Our dedication to performance testing and adoption of genomic tools assures you, our customer, of the most accurate, science based genetic predictions available in the marketplace today.
PUREBRED BEEF UNIT STEERS MAKE THE GRADE

In September 2019, the Purebred Beef Unit hosted an Ultrasound Guidelines Council certification event for scan technicians at the headquarters facility. Kansas Arrowquip dealers provided use of 10 chutes and drafting modules that enabled up to 10 technicians to scan simultaneously. The cattle used in the certification included 37 head of cull steers from the unit fed for the scanning and subsequent carcass data collection. The steers were harvested at Creekstone Farm’s processing facility in Arkansas City, Kansas, in late September. The steers’ exceptional grade data (see table below) demonstrates the value of disciplined selection using today’s science-based tools and the genetic merit of cattle at K-State’s Purebred Beef Unit.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Prime</td>
<td>43.2%</td>
<td>3.07</td>
<td>13.3</td>
<td>819</td>
<td>1,332</td>
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<tr>
<td>Upper 2/3 Choice</td>
<td>51.4%</td>
<td>2.81</td>
<td>13.3</td>
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<tr>
<td>Low Choice</td>
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<td>2.21</td>
<td>12.0</td>
<td>705</td>
<td>1,164</td>
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<tr>
<td><strong>Averages:</strong></td>
<td></td>
<td><strong>2.9</strong></td>
<td><strong>13.2</strong></td>
<td><strong>805</strong></td>
<td><strong>1,301</strong></td>
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37 head of Angus, Sim-Angus and Simmental Steers

CATTLEMEN’S DAY 2020

March 6, 2020
Weber Hall, Manhattan, Kansas

SCHEDULE
Thursday, March 5
6 p.m.  50th Annual Stockmen’s Dinner
Honoring Patsy Houghton

Friday, March 6
107th Annual Cattlemen’s Day

8 a.m.  Commercial Trade Show & Educational Exhibits
Morning refreshments sponsored by New Generation Supplements Inc.

10 a.m. Opening Session

Noon  Lunch sponsored by U.S. Premium Beef and commercial exhibitors

1 p.m. Afternoon Breakout Sessions

4 p.m. Legacy Bull and Female Sale

Register online at KSUBeef.org
Calving ease is a core trait of the Angus breed and we have been selecting for superior calving ease for generations. The K-State Angus breeding program takes calving ease genetics to new heights by adding extra performance and carcass merit and puts it in a stylish phenotypic package.

Our Angus cows are managed on real-world Flint Hills tall grass prairie. We don't pamper our cows because we know our customers won't either. We continually select top genetics for use in our extensive embryo transfer and AI programs that complement the fertility and adaptability of our historic cow herd.

Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center.

The Insentec technology installed in the new center enables collection of individual feed and water intake records on all the bull and heifer selection candidates. Feed intake and performance data will be available as a catalog supplement. We continue to evaluate and add technologies to our selection program that are proven to aid in finding the best genetic combinations. You can purchase calving ease Angus genetics with added performance from our program with confidence. We know that these bulls will work as hard for you as they do for us.

Reference sires for this year’s Angus bull offering:

### G A R ASHLAND
- **Reg #: 18217198**
- **DOB:** 1/31/2015
- **Tattoo:** K25

- **G A R Daylight**
- **G A R EARLY BIRD**
  - **G A R Progress 830**
  - **B/R Ambush 28**

**CHAIR ROCK AMBUSH 1018**
- **G A R Yield Grade N366**

<table>
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<tr>
<th></th>
<th>CED</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tr>
<td>G A R ASHLAND</td>
<td>15</td>
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<td>77</td>
<td>139</td>
<td>0.95</td>
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<td>$F</td>
<td>$G</td>
<td>$B</td>
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<tr>
<td>G A R ASHLAND</td>
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<td>112</td>
<td>92</td>
<td>203</td>
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### PLATTEMERE WEIGH UP K360
- **Reg #: 16692552**
- **DOB:** 2/08/2010
- **Tattoo:** K360

- **Connealy Onward**
- **SITZ UPWARD 307 R**
  - **Sitz Henrietta Pride 81M**
  - **G A R Retail Product**

**BARBARA OF PLATTEMERE 337**
- **Barbara of Plattemere 311**

<table>
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<tr>
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<th>CED</th>
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### S A V RESOURCE 1441
- **Reg #: 17016597**
- **DOB:** 1/07/2011
- **Tattoo:** 1441

- **R R Rito 707**
- **RITO 707 OF IDEAL 3407 7075**
  - **Ideal 3407 of 1418 076**
  - **S A V 8180 Travelor 004**

**S A V BLACKCAP MAY 4136**
- **S A V May 2397**

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### STEVENSON TURNING POINT
- **Reg #: 18434747**
- **DOB:** 1/21/2016
- **Tattoo:** 60558

- **Sitz Upward 307R**
- **PLATTEMERE WEIGH UP K360**
  - **Barbara of Plattemere 337**
  - **S A V Bismarck 5682**

**STEVENSON PRIDE 1167X**
- **FSHK Pride 180**

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LOT 1 - KSU ASHLAND 9162

KSU ASHLAND 9162
Reg #: 19549331  DOB: 1/19/2019  Tattoo: 9162
G A R Early Bird
G A R ASHLAND
Chair Rock Ambush 1018
G A R Prophet
G A R PROPHET 625
G A R Redirect 431

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Ranks in the top 2% $W; top 5% YW and top 10% CED, WW, RE, $G and $B. This big spread bull is well balanced, possessing quality both in person and on paper. Great way to start the group sired by the breed leader, GAR Ashland.

LOT 2 - KSU ASHLAND 9163

KSU ASHLAND 9163
Reg #: 19549332  DOB: 1/19/2019  Tattoo: 9163
G A R Early Bird
G A R ASHLAND
Chair Rock Ambush 1018
G A R Prophet
G A R PROPHET 625
G A R Redirect 431

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Ranks in the top 2% YW, $G, $B; 3% WW, Marb and CW; and 10% $W. The stouter version of his full brother, Lot 1. Combines that with big time growth and Marb figures.

LOT 3 - KSU ASHLAND 9161

KSU ASHLAND 9161
Reg #: 19549330  DOB: 1/17/2019  Tattoo: 9161
G A R Early Bird
G A R ASHLAND
Chair Rock Ambush 1018
G A R Anticipation
G A R ANTICIPATION 125
G A R Prophet 982

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Ranks in the top 1% CED; 2% Marb and $G; 5% DOC; and 10% WW and $W.

LOT 4 - KSU ASHLAND 9108

KSU ASHLAND 9108
Reg #: 19607892  DOB: 1/20/2019  Tattoo: 9108
G A R Early Bird
G A R ASHLAND
Chair Rock Ambush 1018
K C F Bennett Fortress
KSU MISS FORTRESS 7182
KSU Miss Confidence 3186

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<td>90</td>
<td>60</td>
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Ranks in the top 1% $W; 2% WW; 4% YW; and 10% Milk and REA.
**LOT 5 - KSU WEIGH UP 9159**

Ranks in the top 1% WW, YW, $W, $F and $B; and 2% REA. Big time herd sire prospect. Huge performance and end product EPDs combined with a sound, attractive and practical phenotype as well as an outcross pedigree.

**LOT 6 - KSU WEIGH UP 9155**

Ranks in the top 1% $F; 2% WW; 3% $W and $B; and 5% YW. Same great attributes as his off-the-charts brother, Lot 5, only with more shape and in an even more attractive package.

**LOT 7 - KSU WEIGH UP 9150**

Ranks in the top 1% WW, YW and $W; 5% Marb; and 10% $B.
**LOT 9 - KSU RESOURCE 9170**

**Reg #: 19588165**  
**DOB: 2/15/2019**  
**Tattoo: 9170**

Rito 707 of Ideal 3407 7075

**S A V RESOURCE 1441**

S A V Blackcap May 4136  
S A V Bismarck 5682

**MCCURRY WIN MISS WIX 3119**  
McCurry Miss Wix 9081

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**$EN**  
-17  
**$W**  
43  
**$F**  
90  
**$G**  
28  
**$B**  
118

Functional, powerful, high-performing, deep and stout. Stems from an outstanding cow family.

**LOT 10 - KSU RESOURCE 9185**

**Reg #: 19588180**  
**DOB: 3/09/2019**  
**Tattoo: 9185**

Rito 707 of Ideal 3407 7075

**S A V RESOURCE 1441**

S A V Blackcap May 4136  
G A R Predestined

**KSU MISS PREDESTINED 0187**  
K S U Miss T510 4313

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-5  
**$W**  
52  
**$F**  
61  
**$G**  
49  
**$B**  
109

Ranks in the top 10% DMI. Calving ease, longevity, balance and quality combined with an outstanding cow family.

---

**KSU BISMARK 9182**

**Reg #: 19549334**  
**DOB: 3/05/2019**  
**Tattoo: 9182**

G A R Grid Maker  
S A V BISMARCK 5682  
S A V Abigale 0451  
S A V 707 Rito 9969

**MCCURRY WIN MISS WIX 1179**  
McCurry Miss Wix 7077

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-4  
**$W**  
45  
**$F**  
75  
**$G**  
23  
**$B**  
99

Ranks in the top 10% DMI. Calving ease, longevity, balance and quality combined with an outstanding cow family.

---

**THANKS TO GENEX AND CODY SANKEY FOR THEIR CONTINUED SUPPORT OF THE K-STATE PUREBRED BEEF UNIT**
THANKS TO THESE ANGUS BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:
GARDINER ANGUS RANCH
THOMAS ANGUS RANCH
MCCURRY ANGUS RANCH

**KSU TURNING POINT 9104**

**Reg #: 19595984**
**DOB: 1/15/2019**
**Tattoo: 9104**

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**Plattemere Weigh Up K360**

**STEVENSON TURNING POINT**

Stevenson Pride 1167X
Eathington Sub-Zero

**KSU MISS CONFIDENCE 7187**

KSU Miss New Day 1173

Ranks in the top 1% CED and CEM; 4% BW; and 10% RE.

---

**KSU TURNING POINT 9107**

**Reg #: 19607909**
**DOB: 1/19/2019**
**Tattoo: 9107**

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**Plattemere Weigh Up K360**

**STEVENSON TURNING POINT**

Stevenson Pride 1167X
Connealy Confidence 0100

**KSU MISS SUB-ZERO 7105**

KSU Miss Objective 5217

Ranks in the top 1% CED; 4% BW and CEM; and 10% $W.

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**KSU TURNING POINT 9106**

**Reg #: 19595982 [DDP]**
**DOB: 1/16/2019**
**Tattoo: 9106**

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**Plattemere Weigh Up K360**

**STEVENSON TURNING POINT**

Stevenson Pride 1167X
G A R Sunrise

**KSU MISS ORANGE 7179**

G A R Contrast N343

Ranks in the top 3% DMI and 5% $EN.
**K16 KSU ENDURANCE 9208**

Reg #: 19594251
DOB: 3/22/2019
Tattoo: 9208

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DMI

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DOC

8

EN

-20

W

65

B

59

F

35

G

94

Ranks in the top 10% SC. Maternal brother to last year’s Lot 1 and 3, sired by Endurance and a natural calf raised by a lead young donor in the KSU herd.

**K17 KSU ENDURANCE 9205**

Reg #: 19587858
DOB: 3/20/2019
Tattoo: 9205

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DOC

11

EN

-4

W

54

B

32

F

13

G

45

Ranks in the top 1% BW and 4% CED.

**K18 KSU ENDURANCE 9183**

Reg #: 19587857
DOB: 3/08/2019
Tattoo: 9183

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DMI

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DOC

11

EN

-1

W

46

B

105

F

48

G

153

**K19 KSU COMPLEMENT 9189**

Reg #: 19570867 [DDP]
DOB: 3/14/2019
Tattoo: 9189

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DMI

1.07

DOC

23

EN

-25

W

74

B

62

F

51

G

113

Ranks in the top 4% Milk; and 10% $W.

**K20 KSU HESSTON 9212**

Reg #: 19598194 [DDP]
DOB: 3/24/2019
Tattoo: 9212

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DMI

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DOC

12

EN

-15

W

59

B

66

F

39

G

105

Ranks in the top 10% SC and CEM.
Simmental has a long history in the Manhattan area, at the department’s Kansas Artificial Breeding Service Unit (KABSU) and the Purebred Beef Unit. We’re proud to have had a role in that history. We select to produce Simmental genetics with outstanding index values and superior phenotype. Excellence in Simmental’s API (All Purpose Index) is driven through exceptional balance and strength in stayability, calving ease, growth and end-product merit. In a planned crossbreeding system, Simmentals provide added carcass yield, growth and maternal strength. Select bulls for use on Angus-based or British-crossbred cows using API to produce great feeder cattle and replacement females. Use the Terminal Index (TI) to select bulls exclusively for feeder and fed cattle. TI will put an added punch in growth and carcass in the progeny.

Our SimAngus bulls offer a unique balance of heterosis, maternal function and end-product merit to construct a simple yet effective crossbreeding system that makes feeder cattle that are in high demand. We take efficiency seriously and look to a great future using the best of Simmental-influenced genetics and our own testing facility to add even more value to our customers’ calves.

Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center. The Insentec technology installed in the new center enables collection of individual feed intake records on all the bull and heifer selection candidates. Feed intake and performance data will be available as a catalog supplement.

Reference sires for this year’s Simmental offering:

**HOOK’S EAGLE 6E**
Reg #: 3253742  DOB: 02/1/2015  Tattoo: 6E

**HOOK’S ZAIRE 26Z**
Reg #: 3013458  DOB: 02/16/2015  Tattoo: 30C

<table>
<thead>
<tr>
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<th>MCE</th>
<th>Milk</th>
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**HOOK’S PROMENADE 14-P**
Reg #: 2703910  DOB: 02/20/2012  Tattoo: 5048Z

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**W/C LOADED UP 1119Y**
Reg #: 2654155  DOB: 12/31/2011  Tattoo: 1119Y

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**HOOK’S EASTWOOD 30C**
Reg #: 3253742  DOB: 02/1/2015  Tattoo: 30C

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**HOOK’S CRYSTAL 1C**
Reg #: 3253742  DOB: 02/1/2015  Tattoo: 6U

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**CCR COWBOY CUT 5048Z**
Reg #: 3253742  DOB: 02/1/2015  Tattoo: 5048Z

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<td>1.13</td>
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</table>
LOT 22 - KSU EASTWOOD 51G

KSU EASTWOOD 51G
Reg #: 3594684  DOB: 1/14/2019  Tattoo: 51G
5/8 Simmental 3/8 Angus • Homo Black, Homo Polled
W/C UNITED 956Y  
HOOK’S EASTWOOD 30C  
HOOKS ZAIRE 26Z  
S D S GRADUATE 006X
KSU MISS GRADUATE 51C
KSU MS SHARPER IMAGE 24Z

<table>
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<tr>
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Ranks in the top 1% REA and 15% WW and YW. Powerhouse individual. Combines stoutness and performance in a stylish, attractive package.

LOT 23 - KSU EAGLE 53G

KSU EAGLE 53G
Reg #: 3594678  DOB: 1/17/2019  Tattoo: 53G
Purebred Simmental • Homo Black, Homo Polled
HOOK’S BLACK HAWK 50B  
HOOK’S EAGLE 6E  
HOOK’S CRYSTAL 1C  
HOOKS SHEAR FORCE 38K
KSU MISS SHEAR FORCE 9Z
KSU MISS MO BETTER 13X

<table>
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<th>TI</th>
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<td>92.9</td>
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Ranks in the top 1% Marb, API and TI; 2% MCE and 10% CE, BW, WW, YW and REA. Very complete with a big time EPD profile. Stout, functional and very docile. His mother is a top donor that traces twice to the famous KSU 11G.

LOT 24 - KSU EAGLE 54G

KSU EAGLE 54G
Reg #: 3594679  DOB: 1/20/2019  Tattoo: 54G
Purebred Simmental • Homo Black, Homo Polled
HOOK’S BLACK HAWK 50B  
HOOK’S EAGLE 6E  
HOOK’S CRYSTAL 1C  
HOOKS SHEAR FORCE 38K
KSU MISS SHEAR FORCE 9Z
KSU MISS MO BETTER 13X

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
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<td>17.5</td>
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<th>API</th>
<th>TI</th>
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<td>-0.076</td>
<td>1.06</td>
<td>161.6</td>
<td>89.5</td>
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</table>

Ranks in the top 1% API and TI; 2% CE; 3% Marb; 5% YW; and 10% BW, WW and REA. A stouter, more rugged and powerful version of his full brother, Lot 23, with similar figures backed by the same great cow.
LOT 25 - KSU EAGLE 1G

KSU EAGLE 3G

KSU EAGLE 55G

THANKS TO ST GENETICS AND AARON ARNETT FOR THEIR SUPPORT OF THE K-STATE PUREBRED BEEF UNIT
LOT 29 - KSU LOADED UP 73G

**KSU LOADED UP 73G**
Reg #: 3594687  
Tattoo: 73G  
DOB: 3/8/2019

**Remington Lock N Load 54U**
W/C Loaded Up 1119Y
Aubreys Black Blaze III
Pvf-BF BF26 Black Jocker
Svf Sheza Beauty L901
Svf Sheza Lady J900

**CE | BW | WW | YW | MCE | Milk | MWW | Stay**
--- | --- | --- | --- | --- | --- | --- | ---
11.7 | 2.2 | 64.9 | 95.4 | 4.6 | 22.7 | 55.1 | 16.2

**Marb | BF | REA | API | TI**
--- | --- | --- | --- | ---
-0.23 | -0.126 | 1.18 | 108.8 | 61.2

Ranks in the top 2% REA. Big time eye-appeal, stoutness and actual performance. Backed by the famous L901, mother of SVF Steel Force.

**KSU COWBOY CUT 70G**
Reg #: 3628559  
Tattoo: 70G  
DOB: 3/05/2019

**Triplet C Singletary S3H**
CCR Cowboy Cut 5048Z
CCR Ms 4045 Time 7322T
GAR Progress
KSU Miss Progress 36B
KSU Ms Movin Forward 36Y

**CE | BW | WW | YW | MCE | Milk | MWW | Stay**
--- | --- | --- | --- | --- | --- | --- | ---
14.8 | 1.4 | 78.1 | 113.6 | 8.5 | 24.3 | 63.3 | 18.5

**Marb | BF | REA | API | TI**
--- | --- | --- | --- | ---
0.45 | -0.058 | 0.87 | 149.3 | 81.9

Ranks in the top 10% REA, WW, API and TI.

**KSU MILESTONE 81G**
Reg #: 3628553  
Tattoo: 81G  
DOB: 3/17/2019

**Jf Milestone 999W**
KSU Milestone 72E
D Nichols Heiress R728
Tj Sharper Image 809U
KSU Ms Sharper Image 17A
KSU Miss Invasion 55X

**CE | BW | WW | YW | MCE | Milk | MWW | Stay**
--- | --- | --- | --- | --- | --- | --- | ---
5.8 | 3.5 | 72.5 | 108.5 | 3 | 18.7 | 54.9 | 17.7

**Marb | BF | REA | API | TI**
--- | --- | --- | --- | ---
0 | -0.050 | 0.59 | 105.6 | 62.5

Ranks in the top 3% WW and YW; 4% TI and 10% REA.

**KSU PROPHET 80G**
Reg #: 3628577  
Tattoo: 80G  
DOB: 4/09/2019

**G A R Prophet**
KSU Prophet 7158E
KSU Miss Shear Force 9Z
Cns Dream On L186
KSU Miss Dream 23S
Miss Kansas K 11G

**CE | BW | WW | YW | MCE | Milk | MWW | Stay**
--- | --- | --- | --- | --- | --- | --- | ---
12.2 | 2.3 | 84 | 129.2 | 9.3 | 18.4 | 60.4 | 13.7

**Marb | BF | REA | API | TI**
--- | --- | --- | --- | ---
0.44 | -0.066 | 0.89 | 138 | 83.5

Ranks in the top 3% WW and YW; 4% TI and 10% REA.
Balance best describes the selection strategy used in our Hereford program. Our aim is to build Hereford genetics with calving ease, growth and end-product merit. Hereford is a proven complement to Angus-based cow herds to add adaptability, feed efficiency, fleshing ability, moderation of lactation potential and the added value of maternal heterosis to create replacement females with longevity and profit potential.

The venerable black-baldie female is famous for a reason. Baldie cows are a natural fit to Flint Hills production systems. We are confident you’ll find value and profit in a planned crossbreeding system. Build your program using our strategically designed Hereford bulls. Ask us for advice on the design and implementation of a structured crossbreeding system to achieve your production and profit goals.

**Below are reference sires for this year’s Hereford bull offering:**

**NJW 127Z 93C PARTNER 134E**
Reg #: 43830160  DOB: 2/18/2017  Tattoo: 127Z134E

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**CRR 109 CATAPULT 322**
Reg #: 43384585  DOB: 2/19/2013  Tattoo: 322

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**WERK 2296 SENSATION 770 ET**
Reg #: 43846168  DOB: 3/15/2017  Tattoo: 770

**CHURCHILL SENSATION 028X**

**UPS SENSATION 2296 ET**
UPS JT MISS NEON 7811 1ET
FELTONS LEGEND 242

**MSU RACHAEL 58Z ET**
MSU TCF RACHAEL ET 54N

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**NJW 73S 980 HUTTON 109Z ET**
Reg #: 43311893  DOB: 2/24/2012  Tattoo: 73S109Z

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Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center. In the coming year, we’ll add extensive evaluation of feed intake and feed efficiency to our Hereford selection criteria to make these “Efficiency Experts” even more valuable to our customers.
LOT 34 - KSU PARTNER 958 ET

Reg #: 44015216  DOB: 2/16/2019  Tattoo: 958

NJW 135U R.117 RIBEYEY 93C ET  
NJW 127Z 93C PARTNER 134E  
NJW 97T X51 SERENADE 127Z  
/S PEERLESS 1571Y  
/S LADY PEERLESS 4134B  
/S LADY DOMINO 1020Y

<table>
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<th>SC</th>
<th>MCE</th>
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</tbody>
</table>

Ranks in the top 5% CE and REA; and top 10% MCE. Stout, deep, sound and attractive. Backed by an outstanding mother. Combined with calving ease potential makes for an outstanding herd sire prospect.

LOT 35 - KSU PARTNER 959 ET

Reg #: 44013830  DOB: 2/17/2019  Tattoo: 959

NJW 135U R.117 RIBEYEY 93C ET  
NJW 127Z 93C PARTNER 134E  
NJW 97T X51 SERENADE 127Z  
PW VICTOR BOOMER P606  
C&M NEW MEXICO LADY 2034  
STAR 8063 HEIDI 349P ET

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>1.2</td>
<td>4.1</td>
<td>59</td>
<td>94</td>
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<td>2.1</td>
<td>23</td>
<td>53</td>
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<tr>
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<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
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<tr>
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<td>0.07</td>
<td>0.4</td>
<td>452</td>
<td>528</td>
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</table>

Ranks in top 5% REA, $BMI and $BII. Rugged and powerful with lots of body and muscle shape.

LOT 36 - KSU PARTNER 954 ET

Reg #: 44013837  DOB: 2/13/2019  Tattoo: 954

NJW 135U R.117 RIBEYEY 93C ET  
NJW 127Z 93C PARTNER 134E  
NJW 97T X51 SERENADE 127Z  
PW VICTOR BOOMER P606  
C&M NEW MEXICO LADY 2034  
STAR 8063 HEIDI 349P ET

<table>
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<th>M&amp;G</th>
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<tr>
<td>7.2</td>
<td>1.8</td>
<td>48</td>
<td>77</td>
<td>1</td>
<td>5.1</td>
<td>23</td>
<td>47</td>
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<table>
<thead>
<tr>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
</tr>
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<tbody>
<tr>
<td>0.043</td>
<td>0.66</td>
<td>0.11</td>
<td>0.4</td>
<td>449</td>
<td>518</td>
<td>91</td>
</tr>
</tbody>
</table>

Ranks in top 5% REA, $BMI and $BII. The more well-balanced and attractive version of his full brother, Lot 35.

THANKS TO THESE HEREFORD BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:
SANDHILL FARMS  
JENSEN BROS.  
PEREZ CATTLE CO.  
WERK HEREFORDS
**LOT 37 - KSU CATAPULT 950 ET**

**KSU CATAPULT 950 ET**

Reg #: 44013681  DOB: 2/04/2019  Tattoo: 950

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<th>CED</th>
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<tr>
<td>+0.4</td>
<td>4.1</td>
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<td>92</td>
<td>0.7</td>
<td>0.3</td>
<td>33</td>
<td>63</td>
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</tbody>
</table>

**Fat**

-0.017  0.60  -0.21  0.3  442  502  100

Ranks in the top 5% Milk, M&G, $BMI and $BII; and top 10% REA. Ultra attractive with extra shape and soundness, he’s backed by an outstanding and proven high value donor.

**LOT 38 - KSU SENSATION 964**

**KSU SENSATION 964**

Reg #: 44007242  DOB: 3/5/2019  Tattoo: 964

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<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2</td>
<td>1.9</td>
<td>51</td>
<td>78</td>
<td>0.8</td>
<td>6.2</td>
<td>27</td>
<td>52</td>
</tr>
</tbody>
</table>

**Fat**

0.073  0.38  0.09  0.3  283  348  92

Ranks in the top 5% CED and MCE. Calving ease potential with soundness, depth and a great look. Sired by a full brother to Denver Reserve Champion, KJ Contender D56.

**LOT 39 - KSU ALL AMERICAN 968 ET**

**KSU ALL AMERICAN 968 ET**

Reg #: 44007245  DOB: 3/6/2019  Tattoo: 968

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<thead>
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<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>7.1</td>
<td>2.6</td>
<td>54</td>
<td>86</td>
<td>1.2</td>
<td>3.9</td>
<td>25</td>
<td>52</td>
</tr>
</tbody>
</table>

**Fat**

0.003  0.42  0.22  0.1  366  443  106

Practical, sound, well-marked and useful with calving ease potential backed by an excellent donor.
**KSU ZANE 955 ET**

Reg #: 44013826    DOB: 2/13/2019    Tattoo: 955

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<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>8.0</td>
<td>1.8</td>
<td>53</td>
<td>84</td>
<td>1.6</td>
<td>7.2</td>
<td>20</td>
<td>46</td>
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</tbody>
</table>

**Birth Wt.**: ET  
**Adj. Wean**: 609

Ranks in the top 5% SC, MCE and REA; and top 10% Marb.

**KSU DEADBOLT 963 ET**

Reg #: 44007240    DOB: 3/03/2019    Tattoo: 963

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<th>M&amp;G</th>
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<tbody>
<tr>
<td>10.7</td>
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<td>76</td>
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<td>5.0</td>
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<td>49</td>
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**Birth Wt.**: ET  
**Adj. Wean**: 569

Ranks in the top 5% CED; and top 10% BW, SC and Marb.

**KSU HUTTON 957**

Reg #: 44007238    DOB: 2/14/2019    Tattoo: 957

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<th>M&amp;G</th>
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<tbody>
<tr>
<td>6.9</td>
<td>2.4</td>
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<td>103</td>
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<td>3.3</td>
<td>32</td>
<td>64</td>
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</table>

**Birth Wt.**: ET  
**Adj. Wean**: 605

Ranks in the top 5% M&G; and top 10% WW, YW, Milk, $BMI, $BII and $CHB.

---

**LIFETIME WARRANTY ON BALE LOADING ARMS?**

It may shock the competition but not our customers.

---

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PROUDLY MANUFACTURED IN SABETHA, KANSAS SINCE 1983

---

**The Legacy Sale • asi.ksu.edu/bullsale**
Ranks in the top 1% WW, YW and TI; and top 10% REA and API.

A truly unique combination of outstanding genetic potential and phenotypic quality.

Possessing an explosive growth and end product EPD profile, she only reaffirms those qualities in person. Extremely long; she’s also stout, deep, has a ton of actual performance and puts it in a sound and attractive package.

Data backed by genomics, a solid pedigree and a showing quality look. 64G has a bright future as a donor and cornerstone breeding piece. Don’t miss this opportunity to make her part of your herd’s Legacy.

Selling full interest. The K-State Purebred Beef Unit reserves the right to two successful flushes with a minimum of six transferable embryos per flush at our expense and the buyer’s convenience. Contact Shane Werk at 785-565-1881 for more information.
**K44 KSU MISS COMRADE 5120**

Reg #: 18246249 [OSF]  
DOB: 2/10/2015  
Tattoo: 5120

Connealy Consensus 7229  
**CONNEALY COMRADE 1385**  
Happy Gee of Conanga 919  
Hoover Dam

**KSU MISS HOOVER DAM 3117**  
KSU Miss New Day 1198

<table>
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<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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24  
7  
61  
58  
58  
117  

Al bred 1/05/2020 to GAR Ashland (Reg. # 1821798). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K45 KSU MISS OUTLAW 6157**

Reg #: 18654231 [DDP]  
DOB: 1/15/2016  
Tattoo: 6157

B C Lookout 7024  
**SEDGWICKS OUTLAW 538W**  
Sedgwick's Barbara 538S  
Coleman Regis 904

**KSU MISS REGIS 2139**  
KSU Miss Objective 8179

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<th>Marb</th>
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51  
48  
38  
86  

Al bred 12/13/2019 to SAV Resource 1441 (Reg. # 17016597). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K46 KSU MISS SUNRISE 6159 ET**

Reg #: 18654216  
DOB: 1/15/2016  
Tattoo: 6159

MCC Daybreak  
**G A R SUNRISE**  
G A R Objective R227  
B/R Ambush 28

**G A R 28 AMBUSH 41**  
G A R Predestined 1869

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<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tr>
<td>8</td>
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79  
163  

Al bred 1/04/2020 to SAV Resource 1441 (Reg. # 17016597). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K47 KSU MISS ALL IN 6172**

Reg #: 19634570 [AMF]  
DOB: 2/18/2016  
Tattoo: 6172

A A R Ten X 7008 S A  
**DEER VALLEY ALL IN**  
Deer Valley Rita 0274  
G A R Solution

**KSU MISS SOLUTION 7136**  
G A R H141 Precision 53

<table>
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<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<td>9</td>
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16  
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155  

Al bred 12/13/2019 to SAV Resource 1441 (Reg. # 17016597). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K48 KSU MISS SUB-ZERO 7105**

Reg #: 18997976  
DOB: 1/01/2017  
Tattoo: 7105

Connealy Capitalist 028  
**EATHINGTON SUB-ZERO**  
KP Miss Proven Queen 21  
KSU Objective 0183

**KSU MISS OBJECTIVE 5217**  
KSU Miss New Day 1109

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<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<td>15</td>
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1.18  
3  
-23  
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73  
27  
99  

Al bred 1/02/2020 to Mohnen Substantial (Reg. # 17292558). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K49 KSU COMMANDO 7107**

Reg #: 18997874 [DDP]  
DOB: 1/01/2017  
Tattoo: 7107

EF Complement 8088  
**EF COMMANDO 1366**  
Riverbend Young Lucy W1470  
Deer Valley All In

**KSU MISS ALL IN 5108**  
KSU Mill Confidence 3106

<table>
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<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tr>
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3  
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58  
81  
65  
146  

Al bred 12/12/2019 to GAR Ashland (Reg. # 1821798). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.
### KSU Miss Absolute 7153

**Reg #: 19067786**  
**DOB: 1/1/2017**  
**Tattoo: 7153**

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<tr>
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<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<td>10</td>
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<td>78</td>
<td>113</td>
<td>61</td>
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Al bred 1/01/2020 to GAR Ashland (Reg. # 1821798). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

### KSU Miss Conversation 7155

**Reg #: 19067785 [DDP]**  
**DOB: 1/1/2017**  
**Tattoo: 7155**

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<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tr>
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<td>58</td>
<td>62</td>
<td>120</td>
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Al bred 1/02/2020 to Mohnen Substantial (Reg. # 17292558). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

### KSU Miss Commando 7184

**Reg #: 19069191**  
**DOB: 2/05/2017**  
**Tattoo: 7184**

<table>
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<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
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<td>87</td>
<td>0.25</td>
<td>9</td>
<td>0.085</td>
<td>0.21</td>
<td>0.68</td>
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<th>$B</th>
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<tr>
<td>0.43</td>
<td>4</td>
<td>-3</td>
<td>61</td>
<td>77</td>
<td>42</td>
<td>119</td>
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</table>

Al bred 1/05/2020 to GAR Ashland (Reg. # 1821798). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

### KSU Miss Tour of Duty 7186

**Reg #: 19067787 [DDP]**  
**DOB: 2/06/2017**  
**Tattoo: 7186**

<table>
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<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
<tr>
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Al bred 12/13/2019 to Musgrave 316 Stunner (Reg. # 18467508). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

### KSU Miss Confidence 7192

**Reg #: 19426257**  
**DOB: 2/08/2017**  
**Tattoo: 7192**

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<th>BW</th>
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<th>YW</th>
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Al bred 12/13/2019 to GAR Ashland (Reg. # 1821798). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.
**K56**

**KSU MISS WHITLOCK 8108**

Reg #: 19239630 DOB: 1/05/2018 Tattoo: 8108

S Chisum 6175  
**S WHITLOCK 179**  
S Pride Anna 709  
Deer Valley All In  
**KSU MISS ALL IN 6207 ET**  
KSU Miss Daybreak 1158

<table>
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AI bred 1/02/2020 to Mohnen Substantial (Reg. # 17292558). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K57**

**KSU MISS CONVERSATION 8122**

Reg #: 19239721 DOB: 1/22/2018 Tattoo: 8122

Silveiras Conversion 8064  
**SAC CONVERSATION**  
Laflins Farrah 0252  
Deer Valley All In  
**KSU MISS ALL IN 6129**  
KSU Miss Confidence 2143

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AI bred 1/01/2020 to Mohnen Substantial (Reg. # 17292558). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.

**K58**

**KSU MISS WHITLOCK 8168**

Reg #: 19239624 DOB: 2/08/2018 Tattoo: 8168

S Chisum 6175  
**S WHITLOCK 179**  
S Pride Anna 709  
Connealy Capitalist 028  
**KSU MISS CAPITALIST 5200**  
KSU Miss In Focus 0148

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<td>84</td>
<td>61</td>
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<td>107</td>
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</tbody>
</table>

AI bred 12/13/2019 to Musgrave 316 Stunner (Reg. # 18467508). Pasture exposed to Mohnen Hesston 2836 (Reg. #18552928) from 1/10/2020 - 2/04/2020.
These heifers are fully vaccinated, including bangs. They have been freeze branded and are ready to breed. The heifers will be sold in groups of three. Buyer does have option to take as many lots as they wish.

Black Baldie Commercial Heifers

- K59: F1 Baldies sired by Angus herd bulls out of purebred Hereford cows.

Angus Purebred Commercial Heifers

- K60: Sired by Mohnen Hesston 2836.
- K61: Sired by Mill Brae Endurance 2118 and Mohnen Hesston 2836.

Angus Purebred Commercial Heifers


Simmental Commercial Heifers

- K63: Simmental-influenced, half blood to purebred. Sired by KSU Prophet 7158E and KSU Milestone 72E.

Simmental Commercial Heifers

- K64: Simmental-influenced, half blood to purebreds. Sired by KSU Prophet 7158E and KSU Milestone 72E.

Black Commercial Heifers

- K65: Sired by KSU Complement 5172 and KSU Complement 5195.
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 learning and growth of our students. Along with all of the students that had a part of these horses’ journeys in classes, the current student employees at the horse unit have been an instrumental part of their success. I would like to thank Hannah Tice, Parker Carroll, Hunter Kenney, McKenna Woolery and Ian Batey for all of their hard work. If you don’t see what you are looking for or miss out on getting a horse bought at the sale, don’t hesitate to contact me about our up-and-coming prospect we have for sale. Happy bidding and Go Cats!

— Sterling Buist, KSU Horse Unit Manager

EQUINE REPRODUCTIVE SERVICES

Contact KSU Horse Unit or the Veterinary Health Center to discuss mare & stallion breeding management.

Amarilobymorning
Sixes Sixgun
JGD Gold Chex
Buckaroo Shorty Lena
DashTa Blue Flame

KSU owned stallions
KSU Mo Cash To Win
Millenium One

Sterling Buist, PhD | Manager | 785-313-3323 | sbuie@ksu.edu | K-State Horse Unit Facebook Page
Barn name: Bones  Reg #: 5798840  
Foaled: 04/22/2016  Buckskin Gelding  Height: 15.1  Weight: 1,225 lb.

**PLAYBOYS BUCK FEVER**
LTE 567,000 NRCHA, NRCHA Supreme Reined Cowhorse, sire of 2 NRCHA Supreme Champions and produce earnings of over $270,000 NRCHA

**FRECKLES PLAYBOY**
AQHA Hall of Fame Stallion, LTE 500,000 NRCHA, produce earnings of more than $25 million, leading sire of ADHA, NRHA, NRCHA and NRHA performers

**TSARINA CHEXANIC**
LTE $12,000 NRCHA, winner of 5 NRCHA futurities

**KSU SHINING DIAMOND**
AQHA Superior in Reining, Amateur and Open AQHA World Show Qualifier in Reining

**SHINERS CHARCOAL**

**MR DOC BAR DIAMOND**

**JEWEL’S LEO BARS**

**GAY JAY**

**REMINIC**

**BUENO CHEX KAWEAH**

**SHINING SPARK**

**DOCSANFRIDEE**

**MS DIAMOND COWGIRL**

**MISSFOURONTHEFLOOR**

This well put-together pretty, pretty gelding has a great foundation for a show career in the cowhorse or ranch classes. He’s by the late Playboys Buck Fever that stood at the 6666 Ranch that was both an NRCHA money earner himself and the sire of many money earners as well. He has inherited his sire’s expression and cowsense and he’s sure made right and the right color to get you plenty of attention. Good to ride outside for either work or a leisurely trail ride.
KSU SWEET CHIC

Barn name: Margarita  Reg #: 5806070  Foaled: 04/17/2016  Bay Roan Mare  Height: 15  Weight: 1,175 lb.

TWO ID SWEET JACK
Earnings of 310 S AQHA points, AQHA Performance Champion and top ten at the AQHA World Show, sire of AQHA World Show top five performers, AQHA Performance Champions and AQHA Superior Performance earners and many point earners.

TWO EYED JACK
PRISSY JOANN

MISS SWEETY JACK
Daughter of Watch Joe Jack, earner of 225 AQHA halter points and 201 Performance points, AQHA Champion and many superiors.

WATCH JOE JACK
MISS SWEET EDDIE

ROYAL PARR MONEY
Sire of NRHA earners of over $200,000. LTE $10,606 and 45.5 AQHA points in 3 events. Finalist in the 1994 NRHA Open and 3rd in the Limited Open.

SMART CHIC OLENA
ROYAL JODIE BAR

FANCY GLO PARR

This outstanding mare with a huge personality is sure to be a good fit for most anyone from someone just starting out all the way up to an experienced hand. This mare has gathered, sorted and shipped many loads and is surefooted in rough country. She’s been started tracking the Hot Heels and slower cattle and will watch a cow. Has all the pieces to go show one-handed in the ranch classes and be your go-to mount on the ranch. Eligible this year for the Howard Pitzer Ranch Horse Invitational, which is the highest paying ranch horse competition in the country, paying out more than $75,000 in five events. Don’t miss this one as she’s sure to be a sale highlight!
Cisco is a good-minded gelding that’s a versatile ranch horse that has the foundation and potential to be a switch ender. He’s by a proven rope horse that has an impressive record as a rope horse sire. He has plenty of outside miles gathering pairs and would be a great partner for any working cowboy. Eligible this year for the Howard Pitzer Ranch Horse Invitational, which is the highest paying ranch horse competition in the country, paying out more than $75,000 in five events.
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**

To find out which mineral is right for your operation, visit

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BioZyme® Area Sales Managers
John Jeffrey • (817) 271-8395 or Jake Warntjes • (405) 323-4570
Getting the most out of your bull purchases

by Bob Weaber, professor and cow-calf extension specialist

Commercial cattlemen should do their homework to help ensure the bull(s) they purchase this year meet their needs. Like most things in life, preparedness is the key to making an informed decision or in this case, an informed purchase. Remember, bull selection accounts for more than 75% of the gene flow in your herd in just two generations. Take the time to do the $500/hour work in bull selection and let some of the $5/hour work wait until after bull purchases are made. Before you crack open the sale catalogs of seedstock suppliers, there are a few resources and skills you should possess.

First, make sure you understand the use of Expected Progeny Differences (EPD) and selection indexes. While EPDs are not the only selection information you should consider, EPDs are the most effective tools available to describe the genetic differences between animals within and across herds. EPDs are much more effective genetic predictors than actual or adjusted performance records. If an EPD is available for a trait, it should be used instead of an animal’s own performance record for that trait. The EPD removes age and environmental effects that can bias a decision based on actual or adjusted performance records. Use Calving Ease (CE or CED) EPD, rather than birth weight (BW) EPD, if it’s available, to select bulls that minimize calving difficulty. CE EPD calculations include BW data and other sources of information that affect dystocia.

Second, make sure you know what traits you would like to improve on in your herd. What breed(s) fit in your mating system? If you are using a crossbreeding system, make sure the breed you select fits your objectives. Other factors to consider are: keeping replacement heifers and endpoints for progeny marketing (weaning, backgrounded or in-the-beef). Assessment of these factors will help point you to the best breed for your needs and the combinations of maternal/growth/carcass traits that best fit your operation and environment. Be sure to apply selection to traits that have direct economic importance in your production system.

Selection indexes can be very useful tools to point you to the best overall candidates across a range of traits important to profit. Make sure the index you employ matches your production and marketing scenarios.

Third, set a realistic budget for bull purchases. Like most things in life, price is driven by quality. Evaluation of a seedstock supplier’s prior year sale averages will give you an idea of what to expect in terms of purchase costs. A good rule of thumb is that a quality seedstock bull costs roughly the same as the value of four to five feeder steers in the current market. The purchase cost highlights the importance of making a well thought out decision.

Fourth, and maybe the most important, make sure we get to know you. As your seedstock supplier, it’s important we know your operational goals. We can provide recommendations from our sale offering that help attain those goals. Once you receive our sale catalog, make a short list of bulls (roughly three times more than you actually need to purchase) that fit your specifications. Arrive at the sale site early to inspect the bulls on your short list. Shorten this list of candidates based on conformation and updated data to identify your purchase candidates. Keep the sale order in mind.

Stay focused on the bulls you selected earlier. Sticking to your plan will avoid impulse purchases. Your success is our success. We’d like nothing more than to help you make a sound genetic investment!

Fifth, after-the-sale bull care is important and often overlooked. The longevity of your bull purchase and ultimately the return on your genetic investment is dependent on the number of calves your new bull produces in your herd. As a rule of thumb, young sires should be exposed to the number of females equal to his months of age.

For example, a 14-month-old bull should be turned out with 14 cows/heifers for not more than 60 days. Make sure that you provide adequate rest between breeding seasons if using spring and fall. Once you pull a yearling bull from the breeding herd, make sure he has adequate nutrition. Remember he’s still growing until he’s 4-5 years old. During periods of limited forage, he should be supplemented with adequate high quality hay and a protein supplement. Make protein available to ensure the best use of dormant forages. Bulls should be in body condition 5.5-6 at turnout. Don’t forget to provide salt and mineral free choice, to control flies and parasites as needed, and annual vaccinations for blackleg, respiratory and venereal diseases. An annual breeding soundness exam is recommended prior to turn out.

We look forward to visiting with you before the sale and the opportunity to earn your business. We are here after the sale, too, and can provide advice on the management of your herd.

FERTILITY. POUNDS. PROFIT.

The first and only genetic tool to improve your bottom line

You know your cow herd better than anyone else. All those countless hours spent planning your breeding rotation, the best bulls to use, which replacements to keep...it sure didn’t come easy. So, let Igenity take care of what’s underneath the hide.

Igenity + Envigor is an advanced, accurate and economical DNA profile that reveals the genetic potential you need to build a stronger herd. Paired with the industry’s first, and only, heterosis tool, Envigor, increased Igenity + Envigor scores can lead to greater fertility in your females, and more profit at the rail.

Igenity + Envigor
Select with Confidence at IGENITYBEef.com

Igenity + Envigor
Select with Confidence at IGENITYBEef.com
Kansas State University’s purebred beef herd was established in 1881 with the purchase of an Aberdeen-Angus heifer, Eyebright 4th (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.

**PUREBRED BEEF 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 merchandized 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**
In 2017, we celebrated the 40th Bull and Female Sale. The success of the sale all started with the first Special K production sale 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 animal 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 Special K sale was Slammer K 04147, a Hereford bull. He was purchased in 1981 by C K Hereford Ranch, Brookville, Kansas, for $12,500. In 2011, a Hereford bull, KSU Revolution 021, commanded $11,100 and went to K-State alums Austin and Emilie Fink of Wamego, KS, and Mike and Shelia Miller of Womelsdorf, PA. 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 continues to play a fundamental role in a program that has been nationally recognized for excellence in teaching, research and extension.