McKenzie Land & Livestock

Offering:

- 110+ yearling and 2 year old registered and commercial Angus bulls
- Ranch raised and ready to work

9th Annual Angus Bull Sale

Tuesday, March 10, 2015

Auction 1:00 PM

Fort Stockton, TX

Houston McKenzie

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Greetings,

Welcome to our 9th Annual Angus Bull Sale. Looking back on the last nine years, it is amazing to look at the changes we have made in our herd. We think we have made a lot of progress towards providing some nice Angus bulls for you, our customers.

Each year we continue to refine our breeding program and criteria; selecting sires that bring superior traits to our herd. Our goal is to use genetics that will make you more money in the commercial herd. We know you can get great genetics from many breeders, but we believe good Angus bulls that are raised here in our rocky, dry, tough country have added value. MLL bulls know prickly pear, burro grass and chamisa and are grown out in large rocky traps; so they are in good condition to go to work. Our bulls are young but they were raised here and will work in this environment with little transition time.

We appreciate your support at our sales and the confidence you have in our animals.

Thank you,

Houston *Sarah*

Houston McKenzie

President, McKenzie Land & Livestock

Sarah McKenzie

Herd Manager

McKenzie Land & Livestock

Sale Terms and Conditions

Sale order:
Bulls will sell in the order listed in the catalog. The LOT number can be found on the green tag in the left ear. Sale order is determined by average daily gain within the following groups: Registered Larger Bulls, Commercial Larger Bulls, Registered Smaller Bulls and Commercial Smaller Bulls. Please listen for announcements regarding sale order.

Commercial Bulls:
Commercial bulls are just that, commercial. In some cases parentage is not known, or are from some of the top commercial cows we have in our herd. Commercial bulls from our MLL Palma Ranch in Santa Rosa, New Mexico are in the sale again this year. These bulls are out of commercial cows that we used at Fort Stockton, you might remember the "Cortese" cows. The cows were moved to Palma in the fall of 2011 to "greener pastures." Because they were in a commercial setting, we have no data on dam or sire of these bulls. But we can tell you they are straight Angus and all have registered Angus sires.

Fertility and Health:
All sale bulls are guaranteed virgin and have passed a breeding soundness exam with excellent semen quality. Bulls older than 1 year have been trich tested. The testing of these animals was performed on February 24 and 25, 2015 by Dr. Ronald Box, DVM.
All bulls in sale have been BVD-PI tested and are negative for BVD. Testing was performed by Gold Standard Labs.

Delivery options:
Buyers are responsible for transportation of bulls purchased at the sale. New Mexico buyers will have the option of picking up their bulls at the MLL Palma Ranch; 40 miles west of Santa Rosa at no additional charge.

Loading:
All bulls will be paid for before loading unless other arrangements are made. Please see the cashier to settle up prior to loading your bull; you will need your invoice/loading ticket when picking up your bull(s). Please listen to general announcements indicating location of loading and personnel responsible for loading. *Please help us and double check the eartag and lot number to ensure that you are getting the bull you purchased.*

Guarantee: We guarantee that all animals in the sale are fertile to the best of our knowledge. If a bull is injured at any time in the first 12 months of ownership so as to make them functionally infertile, we will offer a suitable replacement if available. If not available we will offer you a credit equal to the bull's purchase price minus the salvage value received for that bull. We ask that you contact us prior to the disposal of the animal. HOWEVER, we cannot offer a guarantee on a death of an animal.

Please remember:
It is important to consider that these are young bulls; they will need to be taken care of to ensure that they continue to grow out good and be able to serve your herd. It is essential that a young bull not get too thin and are turned out at a stocking ratio of 15 cows/1bull.

Sire Information:
The first section of the catalog features the sires of the bulls for sale. The first Artificial Insemination (AI) sires include: ALC Big Eye, B3R Tender Ten, Connealy Final Product, GAR Predestined, Gardens Wave and SS Objective T510 OT26; the rest of the sires are natural service sires owned by MLL.

CATALOG INFORMATION

REGISTERED OR COMMERCIAL?

There are several ways to differentiate between the registered and commercial animals in the sale. All commercial animals have a "C" before the number in their name. All commercial animals have a "registration number" that starts with a "6". Example: MLL TEN X C4005; 623032172 (*this is an AI calf but is un-registerable because his great-granddam's papers were not in order.)* The Angus Association allows us to collect and track data on the commercial animals, so they are treated just like our registered animals.

COMMENTS SECTION

This section contains information that is not shown in the table, but that we feel adds additional sorting tools for the customer. You will find the following comments in this section: Calving Ease, Average Daily Gain, Average Daily Gain Ratio, Top % EPD comparison and any genetic testing that was done.

CALVING EASE

Bulls that we feel comfortable in using on heifers are labeled **CALVING EASE PROSPECT**. You can also refer to the CED EPD to help with selecting a calving ease bull. However, it is important to remember that there other factors that play into a heifer's unassisted delivery and we cannot guarantee a calving ease.

AVERAGE DAILY GAIN(ADG)

This is the average daily gain of the bull during the 95 day gain test. . Bulls were put on feed 11/6/13 and a final weight was taken 2/12/14.

GAIN RATIO (ADG Ratio):

The bulls in the sale are ranked by their gain ratio within their respective groups as explained under sale order The top gaining registered bull will be the first in the sale. You will see the gain ratio in the catalog under the "notes" section (**ADG Ratio**).

50K GENOMIC ENHANCED EPDS

This is the first year that we are offering the 50K Genomic testing to enhance epds. All yearling registered and a few commercial bulls have been 50K tested. This allows for higher accuracy in EPDs, so you can have a better picture of the bull's genetic potential.

TOP % EPD comments

These numbers highlight how that individual bull ranks within the entire breed. For example: MLL WAVE 3522 ranks: Top 10% CED EPD, Top 4% REA EPD…this bulls CED EPD ranks in the top 10% of the Angus breed and in the top 4% of the Angus breed for REA EPD.

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One ton of alfalfa hay will be given to the high dollar volume buyer and one ton of alfalfa hay will be given to the buyer of the high selling bull.

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Glossary of Terms

Expected Progeny Difference (EPD),is the prediction of how future progeny of each animal 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. **Interim EPDs** may appear on young animals when their performance has yet to be incorporated into the American Angus Association National Cattle Evaluation (NCE) procedures. This EPD will be preceded by an "I", and may or may not include the animal's own performance record for a particular trait, depending on its availability, appropriate contemporary grouping, or data edits needed for NCE.

$Value Indexes, are multi-trait selection indexes, expressed in dollars per head, to assist beef producers by adding simplicity to genetic selection decisions. 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.

PRODUCTION EPDs

Calving Ease Direct (CED), is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers. It predicts the average difference in ease with which a sire's calves will be born when he is bred to 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 compared to that of other sires.

Weaning Weight EPD (WW), expressed in pounds, is a predictor of a sire's ability to transmit weaning growth to his progeny compared to that of other sires.

Yearling Weight EPD (YW), expressed in pounds, is a predictor of a sire's ability to transmit yearling growth to his progeny compared to that of other sires.

Scrotal Circumference EPD (SC), expressed in centimeters, is a predictor of the difference in transmitting ability for scrotal size compared to that of other sires.

MATERNAL EPDs

Maternal Milk EPD (Milk), is a predictor of a sire's genetic merit for milk and mothering ability as expressed in his daughters compared to daughters of other sires. In other words, it is that part of a calf's weaning weight attributed to milk and mothering ability.

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). Components for computing the cow $EN savings difference include lactation energy requirements and energy costs associated with differences in mature cow size.

CARCASS EPDs

Carcass Weight EPD (CW), expressed in pounds is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

Marbling EPD (Marb), expressed as a fraction of the difference in USDA marbling score of a sire's progeny compared to progeny of other sires.

Ribeye Area EPD (RE), expressed in square inches, is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires.

Fat Thickness EPD (Fat), expressed in inches, is a predictor of the differences in external fat thickness at the 12th rib (as measured between the 12th and 13th ribs) of a sire's progeny compared to progeny of other sires.

$VALUE INDEXES

$Value indexes are multi-trait selection indexes, expressed in dollars per head, to assist beef producers by adding simplicity to genetic selection decisions. 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.

Weaned Calf Value ($W), an index value 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), an index value expressed in dollars per head, is the expected average difference in future progeny performance for postweaning merit compared to progeny of other sires.

Grid Value ($G), an index value expressed in dollars per head, is the expected average difference in future progeny performance for carcass grid merit compared to progeny of other sires.

Quality Grade ($QG) $QG represents the quality grade segment of the economic advantage found in $G. $QG is intended for the specialized user wanting to place more emphasis on improving quality grade. The carcass marbling (Marb) EPD contributes to $QG.

Yield Grade ($YG) $YG represents the yield grade segment of the economic advantage found in $G. $YG is intended for the specialized user wanting to place more emphasis on red meat yield. It provides a multi-trait approach to encompass ribeye, fat thickness and weight into an economic value for red meat yield.

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

ULTRASOUND DATA

Ultrasound allows for the evaluation of the carcass traits on a live animal. The three carcass measures that the ultrasound system estimates are: back fat (Rib), rib eye area (REA) and intramuscular fat (%IMF).

The numbers shown on in the catalog are the actual data for ultrasound data.

Genetic Defect Information

We test all the bulls registered and commercial) raised on the Fort Stockton ranch for any genetic defects that they may be at risk of carrying. Testing is done through Zoetis Genetics and the genetic status is listed in the notes section. You will see that we have tested some animals for the following**: AM**(*Arthogryposis Multiplex*), **CA**(*Contractural Arachnodactyly*), **NH**(*Neuropathic Hydrocephalus*) and **DD**(*Developmental Duplication*). We have made a practice of culling animals that are carriers for AM, CA and NH so only a few of the bulls will have to be tested for these defects and will be noted by having the defect abbreviation followed by a "F" for example: CA**F.** We do not routinely sell defect carriers; the only carriers that you will find in the sale will be DD carriers. It is generally accepted that a DDC bull can be used in a commercial setting with no adverse effect on the commercial herd. We cannot guarantee defect status of Palma bulls, as they are strictly a commercially produced animal, but in a commercial setting there should be little risk of defect expression.

Lot A1 — Gardens Wave

DOB: 10/11/00 **Bull #** 13818764 **Tattoo:** A272

Mc Kenzie Land & Livestock

Sire: Summitcrest Scotch Cap 0B45 / Gardens Highmark / Green Garden Pride 6128 S1
Dam: N Bar Emulation EXT / Green Garden Lady 6255 S2 / Green Garden Lady 4256 S2

$W	+61.60
$F	+22.66
$G	+55.88
$YG	+10.66
$B	+120.65
$EN	+42.82

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 12	+ 0.4	+ 37	+ 62	+ 0.76	+ 18	+ 25	+ 1.20	+ 1.07	+ 0.029

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE One of the most unique bulls in the Angus Breed. Ranks top 1% $EN, $W and top 2% $B. Only one other proven bull ranks in the top 5% for all major inedexes. 2 sons sell.

Lot A1 — A A R Ten X 7008 S A

DOB: 02/09/07 **Bull** 15719841 **Tattoo:** 7008

Mc Kenzie Land & Livestock

Sire: S A F Focus of E R / MYTTY IN FOCUS / Mytty Countess 906
Dam: S A V Adaptor 2213 / A A R Lady Kelton 5551 / H S A F Lady Kelton 504B

$W	+73.16
$F	+82.95
$G	+51.61
$YG	+1.23
$B	+148.26
$EN	+3.47

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 0.5	+ 68	+ 130	+ 1.57	+ 21	+ 78	+ 1.45	+ 0.89	+ 0.012

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

This popular In Focus son, has calving ease and incredible growth and muscle. Unique combination of high $B and +$E. His fall 2014 MLL calves are outstanding!

Lot A1 — Sydgen Trust 6228

DOB: 02/07/06 **Bull** 15354674 **Tattoo:** 6228

Mc Kenzie Land & Livestock

Sire: C A Future Direction 5321 / SCR Promise 4042 / SCR Queen 2167
Dam: Bon View New Design 1407 / SydGen Forever Lady 4413 / S A F Forever Lady 0182

$W	+57.65
$F	+53.27
$G	+45.57
$YG	+8.12
$B	+130.31
$EN	+0.66

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 4	+ 0.1	+ 57	+ 101	+ 0.89	+ 22	+ 52	+ 0.83	+ 0.76	-0.026

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Powerful overal EPD profile. Breed leader in $W,$F,$G,$B. Unique combination of high $B and +$E.

Lot A1 — K C F Bennett Absolute

DOB: 03/08/09 **Bull** 16430795 **Tattoo:** W299

Mc Kenzie Land & Livestock

Sire: Sitz Traveler 8180 / S A V Final Answer 0035 / S A V Emulous 8145
Dam: Wulffs Ext 6106 / Thomas Miss Lucy 5152 / Thomas Miss Lucy 3050

$W	+65.52
$F	+82.66
$G	+37.92
$YG	-1.32
$B	+125.81
$EN	-7.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 15	-0.8	+ 66	+ 121	+ 1.35	+ 23	+ 50	+ 0.90	+ 0.84	+ 0.071

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Multi-trait excellence; calving ease, growth, great maternal traits, outstanding carcass traits and documented feed efficiency traits. Top 1% feed efficiency and top 10% total profit in Angus Alliance Sire testing.

Lot A1 — Connealy Forward

DOB: 01/14/06 **Bull #** 15491633 **Tattoo:** 623

Mc Kenzie Land & Livestock

Sire: Connealy Lead On / Connealy Onward / Altune of Conanga 6104
Dam: G A R Grid Maker / Becky Lee of Conanga 74 / Beckon Lee of Conanga 73

$W	+73.61
$F	+56.96
$G	+32.04
$YG	+8.23
$B	+95.43
$EN	-4.51

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 16	+ 1.5	+ 58	+ 107	+ 0.94	+ 32	+ 37	+ 0.40	+ 0.95	+ 0.021

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

****CALVING EASE**** Complete and balanced EPDs with a positive $EN. 3 sons sell.

Lot A1 — LCC NEW STANDARD

DOB: 03/07/02 **Bull #** 14218253 **Tattoo:** G256

Mc Kenzie Land & Livestock

Sire: B/R New Design 036 / Bon View New Design 1407 / Bon View Pride 664
Dam: War Venture 8030 6008 / LCC Sunset K3118 / Leachman Sunset G3008

$W	+77.10
$F	+64.50
$G	+39.70
$YG	+7.10
$B	+87.84
$EN	-9.48

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 12	-0.3	+ 56	+ 108	+ 0.45	+ 36	+ 23	+ 0.65	+ 0.60	+ 0.017

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Ranks among the top for calving ease and growth in the Angus breed. Top 1% $W.

Lot A1 — B P F Special Focus 504

DOB: 01/16/05 **Bull #** 15140670 **Tattoo:** 504

Mc Kenzie Land & Livestock

Sire: S A F Focus of E R / MYTTY IN FOCUS / Mytty Countess 906
Dam: J R Something Special / B P F Black Cash 341 / B P F Black Cash 944

$W	+57.40
$F	+48.17
$G	+21.89
$YG	-12.98
$B	+105.42
$EN	-12.66

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 17	-1.2	+ 54	+ 96	+ 1.25	+ 29	+ 50	+ 0.73	+ 0.43	+ 0.100

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE This son of In Focus offers calving ease, solid growth and moderate mature size. 1 son to sell.

Lot A1 — G A R Predestined

DOB: 08/16/99 **Bull #** 13395344 **Tattoo:** 5899

Mc Kenzie Land & Livestock

Sire: V D A R New Trend 315 / B/R New Design 036 / B/R Blackcap Empress 76
Dam: N Bar Emulation EXT / G A R Ext 4206 / G A R 6807 Traveler 1432

$W	+57.01
$F	+29.57
$G	+51.54
$YG	+3.57
$B	+96.75
$EN	+8.00

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 0	+ 4.0	+ 51	+ 91	+ 0.56	+ 27	+ 30	+ 1.34	+ 0.49	+ 0.026

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Continues to be a breed leader ranking in the 1% of the breed for marbeling, $QG and $B, top 2% $G and top 3% $W. Excellent daughters. 1 son sells, this will be the last Predestine bull we will have.

Lot AI — S S Objective T510 0T26

DOB: 04/25/00 **Bull #** 13776378 **Tattoo:** 0T26

Sire: D H D Traveler 6807 / S S Traveler 6807 T510 / S S Miss Hi Spade A114 / S S Rito Rito R76 R011
Dam: S S Miss Rita R011 7R8 / S S Miss Ultress U56

$W	+69.22
$F	+58.40
$G	+48.17
$YG	+9.72
$B	+80.37
$EN	-15.62

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	+ 1.1	+ 70	+ 119	+ 0.48	+ 27	+ 22	+ 0.87	+ 0.44	-0.030

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
66	623							

CALVING EASE Ranks among the top 40 proven sires for $W, fast growing, has excellent daughters. 4 Objective sons sell in this sale.

Lot MLL — J-C Future Direction 1110

DOB: 03/17/11 **Bull** 17021412 **Tattoo:** 1110

Sire: C A Future Direction 5321 / B/R Future Direction 6171 / B/R Blackcap Empress 470 / S S Objective T510 0T26
Dam: J-C Faye 0837 / J-C Faye 0622

$W	+42.21
$F	+30.24
$G	+41.99
$YG	+10.94
$B	+95.90
$EN	-4.61

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 5	+ 2.3	+ 47	+ 83	+ 0.18	+ 26	+ 29	+ 0.60	+ 0.77	-0.016

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
					4.97	16.40	0.37	0.45

High indexing bull at the 2012 Tucumcari Bull Test. 4.8 ADG, 121.7 ADG Ratio, Text Index 118.3, Top 5% REA, 16.0 actual rib eye, #1 Feed Efficiency in Test.

Lot MLL — J-C Total 0922

DOB: 02/05/09 **Bull** 16418897 **Tattoo:** 0922

Sire: Bon View New Design 208 / TC Total 410 / TC Erica Eileen 2047 / Stepladder Fame 740
Dam: J-C Faye 0257 / B&H Faye 9683

$W	+25.92
$F	+28.74
$G	+41.09
$YG	+11.67
$B	+77.14
$EN	+1.28

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	-0.8	+ 43	+ 78	-0.18	+ 16	+ 16	+ 0.55	+ 0.49	-0.036

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE Is an easy keeper and gentle, gentle, gentle. Positive $E and moderate Milk make his daughters some of our favorite young cows.

Lot MLL — H A R B Freedom 1156-288

DOB: 03/06/08 **Bull** 16234904 **Tattoo:** 288

Sire: TC Freedom 104 / R E B Freedom 1156 / D R F B M Zena 1163 / H A R B High Plains 975 JH
Dam: H A R B Jumboleen 0102 / H A R B Jumboleen D03

$W	+47.15
$F	+22.62
$G	+26.37
$YG	-7.49
$B	+82.53
$EN	-3.49

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 4	+ 0.3	+ 39	+ 77	+ 1.28	+ 31	+ 33	+ 0.69	-0.15	+ 0.035

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Larger framed bull, purchased from Midland Bull Test in Montana. Test Index: 114. Test Ratios: 108 ADG, 131 IMF, 108 REA, RFI 1.27, 117 YR.

Lot MLL — Packard Focus 29

DOB: 01/17/09 **Bull** 16398233 **Tattoo:** 29

Sire: MYTTY IN FOCUS / Packard In Focus 137 / Packard Emulass 75 / Connealy Lead On
Dam: Packard Firefly 36 / Packard Firefly 43

$W	+41.80
$F	+18.18
$G	+45.46
$YG	+10.28
$B	+83.55
$EN	+6.11

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.4	+ 44	+ 78	+ 0.85	+ 21	+ 23	+ 0.74	+ 0.10	-0.084

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Purchased from Midland Bull Test 2010. Test Index: 126ADG(3.96), 113YR(1329YW). This +$E bull will make easier keeping cows. Gentle disposition.

Lot MLL — RAB-GAR Future Design 4518T

DOB: 01/01/07 **Bull** 16028944 **Tattoo:** 4518T

Sire: C A Future Direction 5321 / RAB-EGL Future Design / Eagle 1407 Isabel 2215 / RAB-GAR Load Up 4049J
Dam: RAB-GAR MS Load UP - 4870N / RAB-GAR MS Primetime 4642K

$W	+43.04
$F	+44.07
$G	+36.35
$YG	+7.95
$B	+87.04
$EN	-8.21

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 14	-0.2	+ 48	+ 92	+ 0.81	+ 25	+ 26	+ 0.52	+ 0.62	+ 0.005

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE This big framed bull is easy to get along with and keeps well in our country. He is an 8 year old bull and is in great shape!

Lot MLL — P S E23

DOB: 02/23/08 **Bull** 16131434 **Tattoo:** E23

Sire: Bon View New Design 208 / Connealy Whitman / Ella Tina of Conanga 989 / Ranger G 1720
Dam: P S Miss 758 / P S 162 of Ext

$W	+38.63
$F	+14.43
$G	+43.18
$YG	+7.01
$B	+103.78
$EN	-9.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 6	+ 0.7	+ 44	+ 75	+ 1.09	+ 27	+ 38	+ 0.78	+ 0.54	-0.015

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Moderate sized bull for mature cows. Purchased from the Midland Bull Test. Test ratios: 125 ADG Ratio, 136 IMF Ratio, 109 REA Ratio, RFI- 1.7. 10 sons sell. Top 10% breed in $B; fast growth and great carcass.

Lot MLL — RAB 1023 Precision 203U

DOB: 01/04/08 **Bull** 16438728 **Tattoo:** 203U

Sire: G A R Precision 1680 / E&B 1680 Precision 1023 / E&b 6807 Lady Traveler 61 / MYTTY IN FOCUS
Dam: RAB MS IN Focus 902S / RAB MS 1407 608P

$W	+43.65
$F	+30.53
$G	+38.55
$YG	+5.61
$B	+116.32
$EN	+8.83

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 13	-0.4	+ 41	+ 80	+ 0.82	+ 22	+ 46	+ 0.66	+ 0.76	+ 0.011

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE Used on heifers as a clean up bull. This bulls has a unique combination of high $B and +E.

Lot **MLL**

J-C Future Direction 0952

DOB: *03/20/09* ***Bull*** *16416914* ***Tattoo:*** *0952*

Mc Kenzie Land & Livestock

Sire: C A Future Direction 5321
B/R Future Direction 6171
B/R Blackcap Empress 470
Dam: F A R Krugerrand 410H
J-C Julie 0586
J-C Julie 0249

$W	+39.46
$F	+56.13
$G	+27.44
$YG	+5.54
$B	+102.88
$EN	-8.07

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 5	+ 1.1	+ 53	+ 98	+ 1.45	+ 21	+ 39	+ 0.35	+ 0.47	-0.010

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

CALVING EASE Top Indexing Bull at the Tucumcari Bull Test 2010.

Lot **MLL**

RRR 1540 5050 2048 846 552

DOB: *04/15/10* ***Bull*** *17015861* ***Tattoo:*** *1540R*

Mc Kenzie Land & Livestock

Sire: B/R New Design 036
G A R New Design 5050
G A R Precision 706
Dam: RRR 846 GRP 3132 510 1030
RRR 2048 846 552 Univ 3298
RRR 552 Univ 3298 T365 284

$W	+40.13
$F	+47.74
$G	+52.71
$YG	+12.83
$B	+109.90
$EN	-9.35

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 4	+ 2.8	+ 50	+ 92	+ 0.73	+ 26	+ 27	+ 0.93	+ 0.91	-0.019

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Larger framed bull we use on cows. Calves are thick and fast growing. Top %EPDs:10% RADG, 5% Marb, 4% REA, 2% $G

Lot **MLL**

SPA Bluegrass 800

DOB: *01/12/08* ***Bull*** *16280789* ***Tattoo:*** *800*

Mc Kenzie Land & Livestock

Sire: Hyline Right Time 338
Bluegrass Right Time 500
Bluegrass Bonny 200 900
Dam: Rito 3M1 of 5H11 GT Maximum
S P A 825 93 3M1
S P A Extra Lady

$W	+28.89
$F	+19.40
$G	+28.13
$YG	+1.90
$B	+82.97
$EN	+17.44

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 0.9	+ 42	+ 75	+ 0.24	+ 12	+ 31	+ 0.46	+ 0.25	+ 0.012

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat

Purchased from the Midland Bull Test, Test Index 111. Test Ratios: 139 ADG, 143 IMF, 93 REA, RFI-0.96. 3 sons sell.

Lot 1 — MLL PF29 C3619

DOB: 04/20/13 **Bull** **Tattoo:** C3619

Mc Kenzie Land & Livestock

Sire: Packard In Focus 137
Packard Focus 29
Packard Firefly 36

Dam: G A R Retail Product
MLL RETAIL PRODUCT C6516
MLL BORDEN C436

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			38.00					

Lot 2 — MLL 3614

DOB: 04/16/13 **Bull** **Tattoo:** 3614

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: GAR Objective 561
J-C Cathy 0938
J-C Cathy 0510

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68			40.00					

Registration pending sire data

Lot 5 — MLL 3628

DOB: 05/06/13 **Bull** **Tattoo:** 3628

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: GAR Objective 561
J-C Beverly 0937
J-C Beverly 0509

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			41.00					

Registration pending sire data

Lot 3 — MLL 3580

DOB: 03/25/13 **Bull** **Tattoo:** 3580

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: RAB-GAR Objective 149U
MLL 149U 1578
J-C CATHY 0924

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			40.00					

Registration pending sire data

Lot 6 — MLL C3615

DOB: 04/16/13 **Bull** **Tattoo:** C3615

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: LK 07 Fame
MLL FAME C9532
MLL RETAIL PRODUCT C6516

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78			41.00					

Lot 4 — MLL C3591

DOB: 04/01/13 **Bull** **Tattoo:** C3591

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: MCC DAYBREAK
MLL DAYBREAK C1516
MLL PREDESTINED 9523

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			37.00					

Lot 7 — MLL 3592

DOB: 04/03/13 **Bull** **Tattoo:** 3592

Sire: SIRE DATA PENDING

Dam: B3R Tender Ten R065
MLL TENDER TEN 1503
J-C GAR Objective 0957

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			40.00					

Registration pending sire data

Lot 8 — MLL 3613

DOB: 04/16/13 **Bull** **Tattoo:** 3613

Sire: SIRE DATA PENDING

Dam: Leachman Right Time
FALCON BLACKBIRD 319M
Vermilion Blackbird 3525

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70			42.00					

Registration pending sire data

Lot 9 — MLL 4518T 3625

DOB: 04/24/13 **Bull** 17709740 **Tattoo:** 3625

Sire: RAB-EGL Future Design
RAB-GAR Future Design 4518T
RAB-GAR MS Load UP - 4870N

Dam: G A R Retail Product
MLL Retail Product 8515
MS MLL 533

$W	+37.16
$F	+30.28
$G	+29.79
$YG	+6.73
$B	+67.28
$EN	-1.92

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
I + 9	I + 1.1	I + 44	I + 81	I + 0.70	I + 23	I + 18	I + 0.38	I + 0.34	I -0.001

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
80	536							

CALVING EASE PROSPECT

Lot 10 — MLL C3590

DOB: 03/31/13 **Bull** **Tattoo:** C3590

Sire: SIRE DATA PENDING

Dam: Blevins Fortune Design 9836
MLL Fortune Design C1599
MLL RETAIL PRODUCT C6534

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			41.00					

Lot 11 — MLL 3578

DOB: 03/24/13 **Bull** **Tattoo:** 3578

Sire: SIRE DATA PENDING

Dam: Packard Focus 29
MLL PF29 1561
MLL Bextor 9554

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			40.00					

Registration pending sire data

Lot 12 — MLL C3026

DOB: 05/04/13 **Bull** **Tattoo:** C3026

Sire: SIRE DATA UNKNOWN

Dam: MLL PREDESTINED C0013

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75			38.00					

Lot 13 — MLL Predestined 3636

DOB: 09/14/13 **Bull** 17710255 **Tattoo:** 3636

Sire: B/R New Design 036 / G A R Predestined / G A R Ext 4206 / J-C FAME 0212
Dam: MS MLL J-C Fame 6524 / Miss H M Power 548

$W	+28.78
$F	+21.73
$G	+38.15
$YG	+5.55
$B	+78.54
$EN	+0.51

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 2.8	+ 43	+ 75	I + 0.30	+ 21	+ 20	+ 0.65	+ 0.38	+ 0.012

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
80	550	928	40.00	2.36	2.93	11.50	0.13	0.23

Lot 14 — MLL E23 3645

DOB: 09/24/13 **Bull** 17945322 **Tattoo:** 3645

Sire: Connealy Whitman / P S E23 / P S Miss 758
Dam: G A R Retail Product / MS MLL 503 / L K 45 Rose

$W	+37.43
$F	+23.24
$G	+38.93
$YG	+8.57
$B	+90.67
$EN	-7.61

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.6	+ 43	+ 76	I + 1.03	+ 26	+ 27	+ 0.58	+ 0.47	-0.021

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	550	892	40.00	2.14	2.97	9.50	0.12	0.18

Lot 15 — MLL FORWARD 3635

DOB: 09/14/13 **Bull** 17712502 **Tattoo:** 3635

Sire: Connealy Onward / Connealy Forward / Becky Lee of Conanga 74
Dam: J-C FAME 0212 / MLL J-C FAME 7506 / Meads Joy of Erica 220

$W	+36.24
$F	+28.15
$G	+26.32
$YG	+8.41
$B	+65.46
$EN	-3.27

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	+ 1.6	+ 45	+ 80	I + 0.55	+ 23	+ 19	+ 0.26	+ 0.55	+ 0.004

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	530	810	36.00	1.75	2.80	10.30	0.12	0.12

CALVING EASE PROSPECT

Lot 16 — MLL FUTURE DIRECTION 3643

DOB: 09/25/13 **Bull** 623038684 **Tattoo:** 3643

Sire: B/R Future Direction 6171 / J-C Future Direction 1110 / J-C Faye 0837
Dam: SVA Precision Edge 3178 / MCCALL CHAMPSTOCK SAV 720T / McCall ChampStock SAV221M

Sire EPD: CED + 5; BW + 2.3; WN + 47; YR + 83; Milk + 26
Sire $Values: $W +42.21; $F +30.24; $G +41.99; $B +95.90

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
72	510	846	39.00	2.10	1.64	10.30	0.13	0.11

Registration pending genetic test

Lot 17 — MLL 5050 3660

DOB: 10/23/13 **Bull** 17945333 **Tattoo:** 3660

Sire: G A R New Design 5050 / RRR 1540 5050 2048 846 552 / RRR 2048 846 552 Univ 3298
Dam: LK 07 Fame / MLL FAME 0532 / MLL MONTANA 7547

$W	+26.93
$F	+23.24
$G	
$YG	
$B	
$EN	+1.57

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 3.0	+ 43	+ 76	I + 0.86	+ 20				

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	496							

Lot 18 — MLL PRECISION 3682

DOB: 11/21/13 **Bull** 18066001 **Tattoo:** 3682

Sire: E&B 1680 Precision 1023 / RAB 1023 Precision 203U / RAB MS IN Focus 902S
Dam: J-C Total 0922 / MLL Total 1627 / Meads Monica Power 93

$W	+36.85
$F	+23.58
$G	+32.51
$YG	+6.28
$B	+90.39
$EN	-0.56

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	+ 0.2	+ 45	+ 77		+ 21	+ 31	+ 0.46	+ 0.53	+ 0.003

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	744	1,061	36.00	1.98	2.51	10.20	0.20	0.14

CALVING EASE PROSPECT

Lot 19 — MLL 800 3646

DOB: 10/02/13 **Bull** 17945323 **Tattoo:** 3646

Sire: Bluegrass Right Time 500 / SPA Bluegrass 800 / S P A 825 93 3M1
Dam: J-C FAME 0212 / MLL J-C FAME 9517 / MS MLL 449

$W	+22.44
$F	+3.32
$G	+23.07
$YG	+3.77
$B	+55.77
$EN	+22.79

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 1.0	+ 34	+ 59	I + 0.27	+ 12	+ 16	+ 0.29	+ 0.10	+ 0.003

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	473	753	38.00	1.75	2.77	8.10	0.11	0.13

Lot 20 MLL 203U 3648

DOB: 10/18/13 **Bull** 17945324 **Tattoo:** 3648

Sire: E&B 1680 Precision 1023
RAB 1023 Precision 203U
RAB MS IN Focus 902S
Dam: SPA Bluegrass 800
MLL 800 1614
MCCALL DATELINE 311N

$W	+21.84
$F	+16.47
$G	+32.13
$YG	+5.14
$B	+95.17
$EN	+10.51

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	+ 0.9	+ 34	+ 68		+ 17	+ 35	+ 0.48	+ 0.50	+ 0.004

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	464	779	36.00	1.97	2.67	8.30	0.09	0.13

CALVING EASE PROSPECT

Lot 21 MLL FUTURE DIRECTION 3652

DOB: 10/08/13 **Bull** 17945326 **Tattoo:** 3652

Sire: B/R Future Direction 6171
J-C Future Direction 0952
J-C Julie 0586
Dam: KCH Spirit 282 76
A6 PRINCESS
A 6 Suzie 325

$W	+19.65
$F	+20.37
$G	+23.25
$YG	+3.95
$B	+68.33
$EN	+15.29

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 0.4	+ 35	+ 71	I + 0.94	+ 13	+ 23	+ 0.29	+ 0.13	-0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	482	797	38.00	1.97	2.21	8.10	0.13	0.18

CALVING EASE PROSPECT

Lot 22 MLL 288 3653

DOB: 10/06/13 **Bull** 17945327 **Tattoo:** 3653

Sire: R E B Freedom 1156
H A R B Freedom 1156-288
H A R B Jumboleen 0102
Dam: GAR Objective 561
J-C FAYE 1039
J-C Faye 0562

$W	+33.24
$F	+21.29
$G	+34.54
$YG	+2.22
$B	+84.74
$EN	-1.21

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 6	+ 0.9	+ 36	+ 72	I + 0.92	+ 26	+ 26	+ 0.64	+ 0.15	+ 0.006

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
72	495	837	40.00	2.14	2.99	8.90	0.15	0.22

Lot 23 MLL E23 3659

DOB: 10/24/13 **Bull** 17945332 **Tattoo:** 3659

Sire: Connealy Whitman
P S E23
P S Miss 758
Dam: J-C Far Krugerrand 0488
J-C Lady 0992
J-C Lady Midland 0787

$W	+30.93
$F	+26.87
$G	+33.06
$YG	+3.99
$B	+84.73
$EN	-1.09

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.9	+ 42	+ 78	I + 0.91	+ 21	+ 27	+ 0.54	+ 0.20	-0.006

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	547	933	37.00	2.41	2.58	8.30	0.17	0.14

Lot 24 MLL TOTAL 3668

DOB: 11/02/13 **Bull** 17945338 **Tattoo:** 3668

Sire: TC Total 410
J-C Total 0922
J-C Faye 0257
Dam: J-C FAME 0212
MS MLL 566
Miss H M Power 548

$W	+24.57
$F	+9.43
$G	+24.07
$YG	+7.48
$B	+45.77
$EN	+14.44

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.6	+ 36	+ 64	I -0.09	+ 15	+ 10	+ 0.23	+ 0.20	-0.012

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
76	506	828	38.00	2.01	1.94	8.70	0.16	0.12

CALVING EASE PROSPECT

Lot 25 MLL FUTURE DESIGN 3683

DOB: 11/28/13 **Bull** 18066003 **Tattoo:** 3683

Sire: RAB-EGL Future Design
RAB-GAR Future Design 4518T
RAB-GAR MS Load UP - 4870N
Dam: H A R B Freedom 1156-288
MLL FREEDOM 0563
Miss MLL Precision 6507

$W	+26.09
$F	+17.96
$G	+34.28
$YG	+5.47
$B	+74.34
$EN	+0.46

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	+ 0.4	+ 34	+ 69	I + 0.69	+ 23	+ 20	+ 0.53	+ 0.33	+ 0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	607	807	34.00	1.25	2.73	9.20	0.11	0.20

CALVING EASE PROSPECT

Lot 27 MLL SPECIAL FOCUS 3631

DOB: 09/06/13 **Bull** 623038680 **Tattoo:** 3631

Sire: MYTTY IN FOCUS
B P F Special Focus 504
B P F Black Cash 341
Dam: MLL 1647
Meads Blossom 10

Sire EPD: CED + 17; BW -1.2; WN + 54; YR + 96; Milk + 29
Sire $Values: $W +57.40; $F +48.17; $G +21.89; $B +105.42

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	424	710	37.00	1.79	2.49	9.90	0.12	0.18

Registration pending dam data

Lot 28 MLL CONTRAST 3633

DOB: 09/10/13 **Bull** 623038682 **Tattoo:** 3633

Mc Kenzie Land & Livestock

Sire: Connealy Danny Boy / Connealy Contrast / Doris of Conanga 669

Dam: MLL / MLL 6005 NEW DESIGN 9577

Sire EPD: CED + 11; BW -1.0; WN + 41; YR + 80; Milk + 18
Sire $Values: $W +31.91; $F +30.14; $G +25.98; $B +89.45

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	519	889	42.00	2.31	3.04	8.80	0.16	0.17

Registration pending dam data

Lot 29 MLL 3642

DOB: 10/03/13 **Bull** 623038683 **Tattoo:** 3642

Mc Kenzie Land & Livestock

Sire:

Dam: LK12 TON / MLL LK12 TON 1628 / MLL MONTANA 7541

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
62	461	768	35.00	1.92	2.40	8.90	0.16	0.16

Registration pending sire data

Lot 30 MLL 203U 3647

DOB: 10/18/13 **Bull** 623038686 **Tattoo:** 3647

Mc Kenzie Land & Livestock

Sire: E&B 1680 Precision 1023 / RAB 1023 Precision 203U / RAB MS IN Focus 902S

Dam: Mll Merger 7529

Sire EPD: CED + 13; BW -0.4; WN + 41; YR + 80; Milk + 22
Sire $Values: $W +43.65; $F +30.53; $G +38.55; $B +116.32

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	475	782	36.00	1.92	2.97	9.00	0.16	0.20

Registration pending dam data

Lot 31 MLL E23 C3037

DOB: 11/05/13 **Bull** 623038697 **Tattoo:** C3037

Mc Kenzie Land & Livestock

Sire: Connealy Whitman / P S E23 / P S Miss 758

Dam: ALC Big Eye D09N / MLL BIG EYE 9014 / FALCON SEABOARD 314M

Sire EPD: CED + 6; BW + 0.7; WN + 44; YR + 75; Milk + 27
Sire $Values: $W +38.63; $F +14.43; $G +43.18; $B +103.78

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
80	649	1,012	38.00	2.27	3.47	9.80	0.11	0.16

Lot 32 MLL 5050 C3035

DOB: 10/22/13 **Bull** 623038695 **Tattoo:** C3035

Mc Kenzie Land & Livestock

Sire: G A R New Design 5050 / RRR 1540 5050 2048 846 552 / RRR 2048 846 552 Univ 3298

Dam: MLL COMMERCIAL COW

Sire EPD: CED + 4; BW + 2.8; WN + 50; YR + 92; Milk + 26
Sire $Values: $W +40.13; $F +47.74; $G +52.71; $B +109.90

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	482	804	34.00	2.01	3.05	7.70	0.16	0.09

Lot 33 MLL TOTAL C3661

DOB: 10/25/13 **Bull** 623038699 **Tattoo:** C3661

Mc Kenzie Land & Livestock

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257

Dam: G A R Retail Product / MLL RETAIL PRODUCT

Sire EPD: CED + 11; BW -0.8; WN + 43; YR + 78; Milk + 16
Sire $Values: $W +25.92; $F +28.74; $G +41.09; $B +77.14

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	572	935	38.00	2.27	2.36	10.30	0.17	0.16

CALVING EASE PROSPECT

Lot 34 MLL FUTURE DIRECTION C3673

DOB: 10/27/13 **Bull** 623038700 **Tattoo:** C3673

Mc Kenzie Land & Livestock

Sire: B/R Future Direction 6171 / J-C Future Direction 0952 / J-C Julie 0586

Dam: MLL FAME C0525 / MLL RETAIL PRODUCT C6534

Sire EPD: CED + 5; BW + 1.1; WN + 53; YR + 98; Milk + 21
Sire $Values: $W +39.46; $F +56.13; $G +27.44; $B +102.88

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	532	818	36.00	1.79	2.57	10.50	0.16	0.13

Lot 35 MLL C3032

DOB: 03/15/13 **Bull** **Tattoo:** C3032

Mc Kenzie Land & Livestock

Sire: SIRE DATA UNKNOWN

Dam: G A R 1407 New Design 6005 / MLL NEW DESIGN 0001 / MLL LK15 C424

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75								

Lot **36**

MLL C3677

DOB: ***11/14/13*** ***Bull*** ***Tattoo:*** ***C3677***

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING

Dam: RAB-GAR Future Design 4518T
MLL 4518T 1642
L K 49 Lisa

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70								

registration pending sire data

Houston and Brenna at RA Brown Sale October 2013

Lot 37 MLL TRUST 4505

DOB: 01/10/14 **Bull** 18026262 **Tattoo:** 4505

Mc Kenzie Land & Livestock

Sire: SCR Promise 4042
Sydgen Trust 6228
SydGen Forever Lady 4413
Dam: SO Payweight 657-09
MLL PAYWEIGHT 2537
L K 40 Rita

$W	+55.56
$F	+47.90
$G	+31.73
$YG	+4.74
$B	+114.68
$EN	-0.77

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 1.1	+ 56	+ 97	-0.24	+ 23	+ 50	+ 0.48	+ 0.67	+ 0.002

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	654	1,249	33.00	3.72	3.93	13.40	0.22	0.28

EPDs enhanced by 50Kgenomic test. Top % EPD:WW-25%, YW-25%,RE-25%,$W-4%, $F-25%, $B-10% Top %50K-RE-10%, Ten-1%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
83	32	32		48	31	47	45	64	6	50	10	21	1	16	88	23	67	19	

Lot 38 MLL ABSOLUTE 4503

DOB: 01/09/14 **Bull** 18026505 **Tattoo:** 4503

Mc Kenzie Land & Livestock

Sire: S A V Final Answer 0035
K C F Bennett Absolute
Thomas Miss Lucy 5152
Dam: J-C Future Direction 0952
MLL FUTURE DIRECTION 2580
J-C FAYE 0941

$W	+50.95
$F	+69.14
$G	+41.89
$YG	+2.25
$B	+124.63
$EN	-3.86

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 1.4	+ 60	+ 111	+ 0.93	+ 20	+ 47	+ 0.92	+ 0.79	+ 0.043

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	602	1,176	37.00	3.59	3.80	12.80	0.14	0.18

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top % EPD:CED-20%, WW-10%,YW-4%,Marb-10% $W-10%,$F-3%,$G-10%,$B-2%,

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
34	22	30		23	39	39	42	78	16	27	20	72	14	46	52	14	22	67	

Lot 39 MLL NEW STANDARD 4512

DOB: 01/28/14 **Bull** 18026203 **Tattoo:** 4512

Mc Kenzie Land & Livestock

Sire: Bon View New Design 1407
LCC NEW STANDARD
LCC Sunset K3118
Dam: J-C Future Direction 0952
MLL 0952 2602
MLL DESIGN 308 9539

$W	+52.40
$F	+49.53
$G	+27.25
$YG	+4.19
$B	+73.16
$EN	-17.37

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	+ 0.0	+ 52	+ 94	+ 0.71	+ 31	+ 20	+ 0.38	+ 0.30	+ 0.016

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	597	1,171	40.00	3.59	3.62	13.10	0.18	0.34

CALVING EASE PROSPECTDDC EPDs enhanced by 50Kgenomic test. Top % EPD:CED-10%, RADG-15%,$W-10%,$F-25%,

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
17	10	61		60	1	4	48	9	83	57	86	41	58	41	54	72	40	23	

Lot 40 MLL WAVE 4513

DOB: 01/29/14 **Bull** 18026193 **Tattoo:** 4513

Mc Kenzie Land & Livestock

Sire: Gardens Highmark
Gardens Wave
Green Garden Lady 6255 S2
Dam: RAB-GAR Objective 149U
MLL 149U 2525
MLL FAME 0520

$W	+56.93
$F	+20.70
$G	+44.18
$YG	+6.25
$B	+104.95
$EN	+16.52

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	+ 0.7	+ 46	+ 70	+ 0.38	+ 22	+ 28	+ 0.85	+ 0.83	+ 0.042

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	580	1,113	37.00	3.33	4.07	12.20	0.16	0.32

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED-10%,$E-5%,Marb-10%,RE-10%,$W-3%,$G-10%,$B-20% Unique

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
39	13	93		96	83	15	9	90	58	19	17	79	58	93	67	47	99	99	

Lot 41 MLL E23 4524

DOB: 02/08/14 **Bull** 18019185 **Tattoo:** 4524

Mc Kenzie Land & Livestock

Sire: Connealy Whitman
P S E23
P S Miss 758
Dam: GAR Objective 561
J-C JOYFUL OBJECTIVE 1033
J-C Joy 0246

$W	+40.92
$F	+19.76
$G	+33.44
$YG	+5.73
$B	+88.03
$EN	+2.36

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.4	+ 46	+ 77	+ 0.41	+ 21	+ 31	+ 0.50	+ 0.33	-0.015

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	608	1,134	35.00	3.29	3.31	12.20	0.18	0.23

EPDs enhanced by 50Kgenomic test. Top%EPD:$E-25%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
59	33	76		83	26	29	42	78	52	45	73	23	40	49	65	72	33	18	

Lot 42 MLL FUTURE DIRECTION 4532

DOB: 02/19/14 **Bull** 18019191 **Tattoo:** 4532

Mc Kenzie Land & Livestock

Sire: B/R Future Direction 6171
J-C Future Direction 1110
J-C Faye 0837
Dam: P S E23
MLL E23 2535
MS MLL J-C Fame 6509

$W	+42.38
$F	+20.86
$G	+32.76
$YG	+9.70
$B	+75.37
$EN	-1.10

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 1	+ 2.2	+ 46	+ 75	+ 0.18	+ 25	+ 21	+ 0.38	+ 0.47	-0.024

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	591	1,042	32.00	2.82	3.65	12.70	0.13	0.16

EPDs enhanced by 50Kgenomic test. Top%50K-DMI-14%,Fat-10%, Tend-17%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
88	66	74		87	72	14	85	66	72	53	64	10	17	6	84	42	58	49	

Lot 43 MLL FREEDOM 4544

DOB: 02/20/14 **Bull** 18019202 **Tattoo:** 4544

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: L K 15 Merger / Mll Merger 7532 / Meads Alecia North 378

$W	+30.40
$F	+14.73
$G	+21.91
$YG	-6.49
$B	+63.68
$EN	+1.17

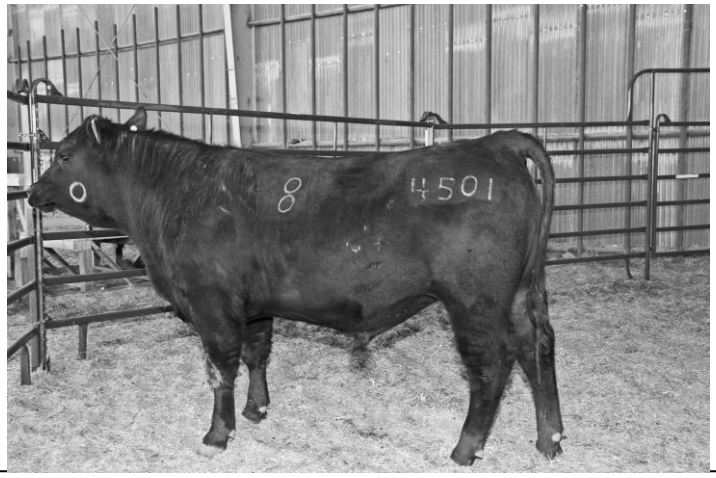
CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 0.9	+ 37	+ 69	+ 0.72	+ 23	+ 22	+ 0.52	-0.29	+ 0.031

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	566	1,136	40.00	3.56	3.53	9.80	0.18	0.25

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD: CED-20%,$E-25%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
68	47	82		78	49	37	60	75	80	67	99	62	63	18	23	27	74	60	



Lot 44 MLL FREEDOM 4542

DOB: 02/16/14 **Bull** 18019200 **Tattoo:** 4542

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: GAR Objective 561 / J-C CATHY 0924 / J-C Cathy 0321

$W	+42.21
$F	+22.74
$G	+29.00
$YG	-2.05
$B	+79.49
$EN	+5.28

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.7	+ 39	+ 75	+ 1.07	+ 25	+ 27	+ 0.60	-0.02	+ 0.020

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	538	1,092	36.00	3.46	4.01	12.40	0.23	0.25

EPDs enhanced by 50Kgenomic test. Top%EPD:$E-20%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
60	43	90		86	21	22	74	55	67	53	98	55	76	35	23	31	97	86	

Lot 47 MLL TRUST 4501

DOB: 01/01/14 **Bull** 18026263 **Tattoo:** 4501

Mc Kenzie Land & Livestock

Sire: SCR Promise 4042 / Sydgen Trust 6228 / SydGen Forever Lady 4413
Dam: RAB-GAR Objective 149U / MLL 149U 2575 / MLL FAME 0546

$W	+55.07
$F	+49.59
$G	+44.81
$YG	+3.64
$B	+106.63
$EN	-6.74

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	-0.7	+ 58	+ 100	+ 0.76	+ 23	+ 34	+ 0.99	+ 0.44	+ 0.013

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	602	1,125	35.00	3.27	4.07	12.20	0.21	0.25

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED-10%,WN-15%,YW-20%,Marb-4%,$W-4%,$F-25%,$G-10%,$B-15%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
27	5	22		24	64	61	45	63	21	11	34	28	7	12	46	34	48	44	

Lot 45 MLL FREEDOM 4546

DOB: 02/21/14 **Bull** 18019204 **Tattoo:** 4546

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: G A R 1407 New Design 6005 / MLL NEW DESIGN 6005 8549 / MS MLL 409

$W	+38.71
$F	+18.75
$G	+32.83
$YG	-0.11
$B	+88.20
$EN	+0.01

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.5	+ 37	+ 70	+ 0.82	+ 27	+ 29	+ 0.66	+ 0.24	+ 0.031

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	575	1,119	38.00	3.40	3.55	12.90	0.20	0.34

DDC EPDs enhanced by 50Kgenomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
65	36	90		84	22	12	47	52	67	44	87	61	44	8	35	22	88	57	

Lot 48 MLL FREEDOM 4611

DOB: 03/24/14 **Bull** 18019237 **Tattoo:** 4611

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: G A R Predestined / MLL PREDESTINED 9515 / Meads Joy of Erica 220

$W	+56.38
$F	+24.73
$G	+33.42
$YG	+3.65
$B	+89.04
$EN	-0.19

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	-0.3	+ 47	+ 79	+ 0.98	+ 28	+ 30	+ 0.56	+ 0.33	+ 0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	614	1,128	34.00	3.21	3.10	12.50	0.14	0.27

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED-15%,$W-3%, Top%50K-DMI-8%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
76	54	59		70	33	8	72	34	46	43	57	54	27	37	22	68	98	95	

Lot 46 MLL FREEDOM 4554

DOB: 02/25/14 **Bull** 18019210 **Tattoo:** 4554

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: G A R 1407 New Design 6005 / MLL 6005 NEW DESIGN 9542 / Meads Monica Power 93

$W	+53.98
$F	+21.23
$G	+30.53
$YG	+0.17
$B	+77.59
$EN	-2.52

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 3	+ 1.2	+ 44	+ 75	+ 1.28	+ 31	+ 24	+ 0.58	+ 0.38	+ 0.052

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	642	1,165	37.00	3.27	4.11	15.10	0.23	0.30

EPDs enhanced by 50Kgenomic test. Top%EPD:$W-5%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
89	69	81		88	9	17	91	50	85	52	84	79	90	25	14	60	98	79	

Buddies

Lot 49 MLL WAVE 4504

DOB: 01/10/14 **Bull** 18026191 **Tattoo:** 4504

Mc Kenzie Land & Livestock

Sire: Gardens Highmark / Gardens Wave / Green Garden Lady 6255 S2
Dam: J-C Total 0922 / MLL TOTAL 2536 / J-C BEVERLY 0902

$W	+35.86
$F	+16.48
$G	+46.05
$YG	+12.77
$B	+87.77
$EN	+19.57

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 0.1	+ 35	+ 61	+ 0.46	+ 18	+ 15	+ 0.67	+ 0.72	-0.020

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
72	586	1,063	37.00	2.98	3.66	14.40	0.14	0.12

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD: CED-15%,$E-4%, Top%50K: DMI-1%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
56	10	98		98	16	1	27	96	84	27	43	25	26	86	58	78	76	76	

Lot 50 MLL FREEDOM 4592

DOB: 03/08/14 **Bull** 18019224 **Tattoo:** 4592

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: G A R 1407 New Design 6005 / MLL 6005 New Design 8547 / Meads Monica Power 93

$W	+51.35
$F	+25.77
$G	+24.35
$YG	-3.00
$B	+70.03
$EN	-3.90

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.6	+ 44	+ 78	+ 1.19	+ 30	+ 23	+ 0.49	+ 0.00	+ 0.036

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	626	1,119	37.00	3.08	3.13	11.70	0.18	0.21

EPDs enhanced by 50Kgenomic test. Top%EPD:$W:10% Top%50K-DMI-17% *DDC*

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
70	48	77		78	12	17	86	58	80	55	98	68	64	41	17	47	95	90	

Lot 51 MLL E23 4526

DOB: 02/12/14 **Bull** 18055847 **Tattoo:** 4526

Mc Kenzie Land & Livestock

Sire: Connealy Whitman / P S E23 / P S Miss 758
Dam: LK 07 Fame / MLL FAME 0546 / MLL 1407 NEW DESIGN 7508

$W	+24.15
$F	+12.42
$G	+34.70
$YG	+6.30
$B	+86.22
$EN	-2.80

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-6	+ 2.8	+ 39	+ 68	+ 0.98	+ 23	+ 28	+ 0.52	+ 0.38	-0.010

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
80	579	1,117	36.00	3.36	3.15	10.90	0.12	0.18

EPD enhanced by 50K genomic test. Top%50K: Tenderness:8%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
95	64	90		89	47	48	75	79	51	47	66	24	8	35	33	80	19	20	

Lot 52 MLL FUTURE DESIGN 4537

DOB: 02/12/14 **Bull** 18019196 **Tattoo:** 4537

Mc Kenzie Land & Livestock

Sire: RAB-EGL Future Design / RAB-GAR Future Design 4518T / RAB-GAR MS Load UP - 4870N
Dam: GAR Objective 561 / J-C FAYE 0941 / J-C Faye 0545

$W	+34.66
$F	+37.21
$G	+21.21
$YG	+5.61
$B	+66.54
$EN	-0.87

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 15	+ 0.5	+ 44	+ 85	+ 0.57	+ 21	+ 22	+ 0.21	+ 0.46	+ 0.017

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	572	1,119	34.00	3.42	3.38	13.30	0.20	0.23

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED-1%, Top%50K: CED-7%, DMI-13, RFI-26

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
7	22	86		83	26	13	25	59	74	58	77	54	96	19	71	98	25	29	

Lot 53 MLL FOCUS 4550

DOB: 02/20/14 **Bull** 18019207 **Tattoo:** 4550

Mc Kenzie Land & Livestock

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: L K 15 Merger / Mll Merger 7524 / Lady Northlander 239

$W	+8.87
$F	+10.53
$G	+37.56
$YG	+9.49
$B	+73.73
$EN	+9.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 1.2	+ 29	+ 61	+ 0.13	+ 15	+ 17	+ 0.51	+ 0.13	-0.058

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	519	1,122	35.00	3.77	3.49	10.40	0.09	0.14

EPDs enhanced by 50Kgenomic test. Top%EPD:CED-30%, $E-10%, Top%50K: DMI-11%, Fat-2%,

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
71	54	95		89	75	11	41	96	87	63	74	2	17	15	61	34	10	31	

Lot 54 MLL FREEDOM 4556

DOB: 03/01/14 **Bull** 18019212 **Tattoo:** 4556

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: G A R Predestined / MLL Predestined 8504 / MS MLL 553

$W	+43.11
$F	+10.74
$G	+44.38
$YG	+3.62
$B	+89.71
$EN	+5.00

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 2.1	+ 39	+ 69	+ 0.88	+ 27	+ 26	+ 0.97	+ 0.40	+ 0.022

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	561	1,063	35.00	3.14	4.03	12.90	0.23	0.27

EPDs enhanced by 50Kgenomic test. Top%EPD:$E-20%,Marb-5%,$G-10% Top%50K:Marb-19%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
82	76	80		87	43	45	70	39	66	19	49	72	84	82	30	69	96	98	

Lot 55 MLL FUTURE DIRECTION 4521

DOB: 02/16/14 **Bull** 18019182 **Tattoo:** 4521

Mc Kenzie Land & Livestock

Sire: B/R Future Direction 6171 / J-C Future Direction 1110 / J-C Faye 0837
Dam: J-C Total 0922 / MLL 0922 2529 / J-C BEVERLY 0904

$W	+41.99
$F	+26.84
$G	+40.54
$YG	+11.73
$B	+69.45
$EN	-1.90

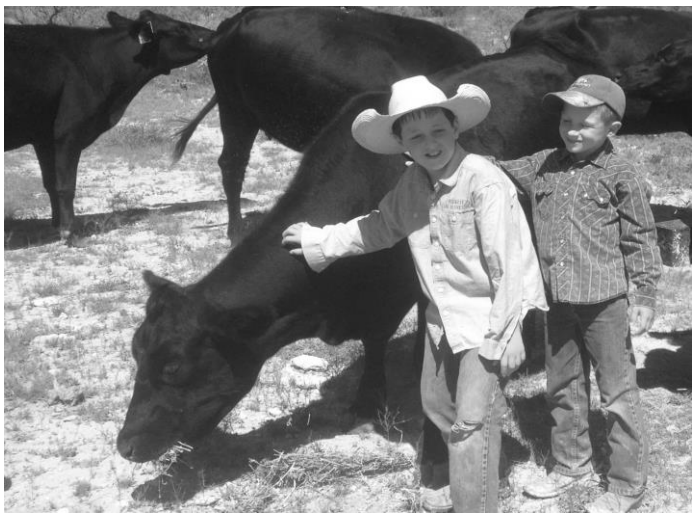
CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	-0.1	+ 43	+ 78	+ 0.14	+ 25	+ 13	+ 0.53	+ 0.53	-0.026

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
66	586	1,130	33.00	3.40	3.38	12.40	0.14	0.24

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD: CED-10%, $G-15%,Top%50K:RFI-13%, DMI-23%,Fat-6%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
67	41	71		73	13	23	64	54	82	36	48	6	39	66	84	76	33	23	



Lot 56 MLL E23 4539

DOB: 02/13/14 **Bull** 18019198 **Tattoo:** 4539

Mc Kenzie Land & Livestock

Sire: Connealy Whitman / P S E23 / P S Miss 758
Dam: S A V Final Answer 0035 / MLL FINAL ANSWER 9545 / MCCALL NEW FRONTIER 737T

$W	+48.82
$F	+27.70
$G	+28.44
$YG	+1.09
$B	+78.98
$EN	-6.38

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 0.1	+ 48	+ 84	+ 1.28	+ 27	+ 29	+ 0.49	+ 0.30	+ 0.028

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
76	611	1,158	41.00	3.42	4.01	11.00	0.21	0.28

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD: CED-20%,$W-10%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
39	10	61		55	18	60	18	42	69	62	77	66	26	85	13	94	64	41	

Lot 57 MLL FREEDOM 4543

DOB: 02/18/14 **Bull** 18019201 **Tattoo:** 4543

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: L K 15 Merger / MS MLL 531 / Meads Alecia North 378

$W	+34.65
$F	+23.14
$G	+24.52
$YG	+1.46
$B	+68.61
$EN	+3.78

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 5	+ 1.8	+ 41	+ 75	+ 0.72	+ 22	+ 22	+ 0.38	-0.07	-0.006

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	628	1,172	39.00	3.40	3.40	12.40	0.21	0.27

EPDs enhanced by 50Kgenomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
83	76	85		80	47	17	79	85	83	81	97	18	90	16	23	64	81	59	

Lot 58 MLL FREEDOM 4555

DOB: 02/26/14 **Bull** 18019211 **Tattoo:** 4555

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: L K 15 Merger / MLL MERGER 6513 / Freda Lovana

$W	+34.97
$F	+7.56
$G	+21.04
$YG	-6.31
$B	+53.00
$EN	+8.66

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.4	+ 36	+ 62	+ 0.63	+ 22	+ 15	+ 0.49	-0.55	+ 0.012

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	535	1,049	36.00	3.21	3.65	10.10	0.14	0.30

EPDs enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
86	60	84		92	31	11	55	84	90	72	10	41	38	8	31	69	85	49	

Thank you!!

- *Purina Feeds*
- *Pecos County Feed Store*
- *Dr. Ronald Box, DVM*

Lot 59 MLL TOTAL 4583

DOB: 03/01/14 **Bull** 18019217 **Tattoo:** 4583

Mc Kenzie Land & Livestock

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257
Dam: L K 15 Merger / MLL MERGER 0586 / Ms MLL 519

$W	+33.94
$F	+41.00
$G	+26.32
$YG	+4.09
$B	+68.21
$EN	-14.51

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.5	+ 53	+ 90	+ 0.10	+ 21	+ 19	+ 0.36	+ 0.08	-0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	635	1,107	33.00	2.95	3.25	10.40	0.14	0.21

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
86	70	35		43	59	37	67	90	69	66	89	21	58	12	69	58	1	1	

Lot 60 MLL FOCUS 4606

DOB: 03/15/14 **Bull** 18019233 **Tattoo:** 4606

Mc Kenzie Land & Livestock

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: RAB-GAR Future Design 4518T / MLL 4518T 0540 / FALCON PRIMROSE 1292

$W	+24.84
$F	+10.52
$G	+36.07
$YG	+9.08
$B	+58.74
$EN	+10.46

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-1	+ 1.8	+ 39	+ 68	+ 0.71	+ 16	+ 12	+ 0.48	-0.07	-0.069

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	634	1,084	35.00	2.81	4.08	9.90	0.12	0.20

DDC EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
85	55	95		96	45	42	91	96	98	58	90	2	23	22	38	50	24	46	

Lot 61 MLL FREEDOM 4559

DOB: 03/01/14 **Bull** 18019215 **Tattoo:** 4559

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: TC Total 410 / J-C MISS BASIN MAX 0909 / CRT Miss Basin Max 602C Lass

$W	+35.52
$F	+36.23
$G	+30.80
$YG	-0.60
$B	+84.87
$EN	-10.25

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 1.0	+ 47	+ 86	I + 0.48	+ 24	+ 28	+ 0.61	-0.03	+ 0.006

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
80	621	1,063	34.00	2.76	3.65	10.10	0.11	0.14

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 62 MLL Freedom 4518

DOB: 02/03/14 **Bull** 18070768 **Tattoo:** 4518

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: L K 15 Merger / MS MLL Merger 6510 / Meads Blackcap Reno

$W	+28.95
$F	+10.93
$G	+31.41
$YG	+0.67
$B	+79.67
$EN	+4.55

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 5	+ 1.2	+ 34	+ 63	+ 1.04	+ 23	+ 24	+ 0.59	-0.09	-0.005

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	565	1,139	40.00	3.59	3.97	11.40	0.13	0.37

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
87	67	91		90	83	12	71	81	71	63	97	26	86	36	18	45	79	57	

Lot 63 MLL WAVE 4510

DOB: 01/26/14 **Bull** 18026187 **Tattoo:** 4510

Mc Kenzie Land & Livestock

Sire: Gardens Highmark / Gardens Wave / Green Garden Lady 6255 S2
Dam: RAB-GAR Objective 149U / MLL 149U 1641 / MLL 6005 NEW DESIGN 9542

$W	+49.15
$F	+25.95
$G	+46.58
$YG	+9.13
$B	+106.60
$EN	+12.46

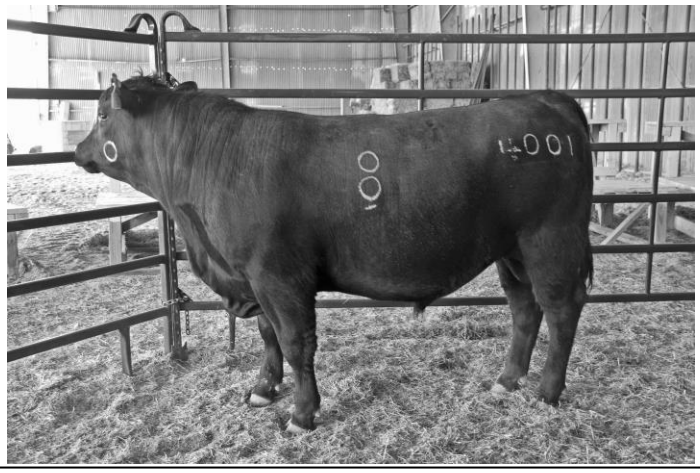
CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 1.8	+ 45	+ 74	+ 0.90	+ 22	+ 28	+ 0.83	+ 0.98	+ 0.030

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	611	1,041	36.00	2.69	3.95	12.90	0.12	0.18

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD: CED-15%,$E-10%,Marb-10%,$W-10%,$G-15%,$B-10% Unique combination of high $B

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
60	58	96		96	62	16	42	94	44	16	9	77	9	64	40	86	97	94	



Lot 64 MLL FUTURE DESIGN 4621

DOB: 03/26/14 **Bull** 18019244 **Tattoo:** 4621

Mc Kenzie Land & Livestock

Sire: RAB-EGL Future Design / RAB-GAR Future Design 4518T / RAB-GAR MS Load UP - 4870N
Dam: B/R Future Direction 6171 / J-C JOY'S DIRECTION 1030 / J-C Joy 0563

$W	+44.77
$F	+42.46
$G	+33.48
$YG	+10.42
$B	+83.54
$EN	-16.56

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 1.2	+ 55	+ 94	+ 0.75	+ 26	+ 26	+ 0.38	+ 0.70	-0.013

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
74	704	1,088	37.00	2.40	3.77	12.40	0.12	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
41	29	75		84	28	32	16	73	61	50	27	19	20	31	69	88	8	5	

Lot 65 MLL 4551

DOB: 02/25/14 **Bull** 623034370 **Tattoo:** 4551

Mc Kenzie Land & Livestock

Sire: SIRE DATA PENDING
Dam: LK70 Montana / MLL MONTANA 7550 / Meads Miss Kermac 73

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
	623	930	33.00	1.92	3.73	11.50	0.14	0.23

Registration pending sire data EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 66 MLL TEN X C4005

DOB: 01/29/14 **Bull** 623032172 **Tattoo:** C4005

Mc Kenzie Land & Livestock

Sire: MYTTY IN FOCUS / A A R Ten X 7008 S A / A A R Lady Kelton 5551
Dam: ALC Big Eye D09N / MLL BIG EYE C2002 / MLL WAVE C0003

Sire EPD: CED + 9; BW + 0.5; WN + 68; YR + 130; Milk + 21
Sire $Values: $W +73.16; $F +82.95; $G +51.61; $B +148.26

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
88	645	1,250	37.00	3.78	3.38	13.40	0.18	0.21

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
65	48	27		9	45	33	56	7	28	25	12	60	9	65	6	29	64	60	

Lot 67 MLL TRUST C4001

DOB: 01/01/14 **Bull** 623032168 **Tattoo:** C4001

Mc Kenzie Land & Livestock

Sire: SCR Promise 4042 / Sydgen Trust 6228 / SydGen Forever Lady 4413
Dam: Connealy Final Product / MLL FINAL PRODUCT C2018 / MLL RITO 616 C9011

Sire EPD: CED + 4; BW + 0.1; WN + 57; YR + 101; Milk + 22
Sire $Values: $W +57.65; $F +53.27; $G +45.57; $B +130.31

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	416	1,309	36.00	5.58	3.95	13.20	0.16	0.23

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
70	13	25		20	70	58	45	51	17	27	4	7	27	31	69	16	56	23	

Lot 68 MLL OBJECTIVE C4002

DOB: 01/08/14 **Bull** 623032169 **Tattoo:** C4002

Mc Kenzie Land & Livestock

Sire: S S Traveler 6807 T510 / S S Objective T510 0T26 / S S Miss Rita R011 7R8
Dam: Gardens Wave / MLL WAVE C2017 / MLL PREDISTINED C8021

Sire EPD: CED + 11; BW + 1.1; WN + 70; YR + 119; Milk + 27
Sire $Values: $W +69.22; $F +58.40; $G +48.17; $B +80.37

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	652	1,154	36.00	3.14	4.07	12.80	0.29	0.28

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
23	20	59		51	82	66	52	93	76	8	68	44	73	81	55	10	79	88	

Lot 69 MLL WAVE C4004

DOB: 01/27/14 **Bull** 623032171 **Tattoo:** C4004

Mc Kenzie Land & Livestock

Sire: Gardens Highmark / Gardens Wave
Dam: Green Garden Lady 6255 S2 / SF PREDESTINED 821 / MLL 821 C2032 / MLL 8561

Sire EPD: CED + 12; BW + 0.4; WN + 37; YR + 62; Milk + 18
Sire $Values: $W +61.60; $F +22.66; $G +55.88; $B +120.65

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	605	1,077	35.00	2.95	3.41	12.90	0.23	0.32

CALVING EASE PROSPECT

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 70 MLL

DOB: 02/11/14 **Bull** 623034454 **Tattoo:** C4008

Mc Kenzie Land & Livestock

Sire: J-C SS Objective 0852 / PS LOOKOUT 1253
Dam: J-C Beverly 0882 / P S E23 / MLL E23 C2026 / MLL RETAIL PRODUCT

Sire EPD: CED + 9; BW + 0.7; WN + 52; YR + 93; Milk + 20
Sire $Values: $W +41.40; $F +46.20; $G +39.17; $B +86.41

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	598	1,152	33.00	3.46	2.85	13.10	0.16	0.20

EPDs enhanced by 50Kgenomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
75	62	81		63	47	26	89	75	74	73	78	16	44	57	15	85	31	10	

Lot 72 MLL PALMA C4250

DOB: 02/15/14 **Bull** **Tattoo:** C4250

Mc Kenzie Land & Livestock

Sire: SIRE DATA UNKNOWN
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			39.00		3.44	13.60	0.18	0.29

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 73 MLL PALMA C4262

DOB: 02/15/14 **Bull** **Tattoo:** C4262

Mc Kenzie Land & Livestock

Sire:
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			34.00		3.42	12.30	0.14	0.25

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 74 MLL PALMA C4232

DOB: 02/15/14 **Bull** **Tattoo:** C4232

Mc Kenzie Land & Livestock

Sire:
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			40.00		3.53	12.20	0.14	0.25

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 75 MLL PALMA C4259

DOB: 02/15/14 **Bull** **Tattoo:** C4259

Mc Kenzie Land & Livestock

Sire:
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			34.00		2.96	13.30	0.12	0.23

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 76 MLL PALMA C4211

DOB: 02/15/14 **Bull** **Tattoo:** C4211

Mc Kenzie Land & Livestock

Sire: SIRE DATA UNKNOWN
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			37.00		3.73	9.60	0.11	0.27

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 77 MLL PALMA C4221

DOB: 02/15/14 **Bull** **Tattoo:** C4221

Mc Kenzie Land & Livestock

Sire: SIRE DATA UNKNOWN
Dam: DAM DATA UNKNOWN

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			36.00		3.15	11.90	0.12	0.20

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 78 MLL PALMA C1407

DOB: 02/15/14 **Bull** **Tattoo:** C1407

Mc Kenzie Land & Livestock

Sire: Gardens Highmark / Gardens Wave / Green Garden Lady 6255 S2

Dam: DAM DATA UNKNOWN

$W	$F	$G	$YG	$B	$EN

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			36.00		3.67	10.80	0.14	0.21

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Everyone helps horseback...

Lot 79 MLL PALMA C4229

DOB: 02/15/14 **Bull** **Tattoo:** C4229

Mc Kenzie Land & Livestock

Sire: SIRE DATA UNKNOWN

Dam: DAM DATA UNKNOWN

$W	$F	$G	$YG	$B	$EN

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
			34.00		2.96	9.90	0.13	0.20

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color

Lot 80 MLL FREEDOM 4642

DOB: 04/06/14 **Bull** 18019258 **Tattoo:** 4642

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102 / S A V Final Answer 0035

Dam: MLL FINAL ANSWER 9544 / MCCALL DATELINE 721T

$W	$F	$G	$YG	$B	$EN
+46.28	+36.34	+42.00	+1.65	+105.34	-19.52

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 5	+ 1.2	+ 49	+ 92	+ 0.89	+ 32	+ 40	+ 0.95	+ 0.43	+ 0.020

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
76	580	1,196	35.00	3.85	4.05	11.50	0.16	0.27

*DDC*EPD enhanced by 50K genomic test Top%EPD:$W:-15%,$G-15%$B-20%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
67	55	45		35	54	93	29	20	44	38	66	55	59	8	22	77	56	45	

Lot 81 MLL TOTAL 4585

DOB: 03/02/14 **Bull** 18064048 **Tattoo:** 4585

Mc Kenzie Land & Livestock

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257

Dam: RAB-GAR Objective 149U / MLL 149U 1524 / J-C Julie 0958

$W	$F	$G	$YG	$B	$EN
+44.99	+39.91	+25.28	+8.69	+81.16	+2.70

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 14	-0.5	+ 54	+ 91	-0.22	+ 17	+ 29	+ 0.23	+ 0.66	-0.003

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	620	1,102	32.00	3.01	3.12	15.50	0.12	0.20

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED:2%, $E-25%,$W-20%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
23	24	24		36	33	32	6	93	26	63	27	21	68	53	92	77	11	11	

Lot 82 MLL 2577 4557

DOB: 03/05/14 **Bull** 18019213 **Tattoo:** 4557

Mc Kenzie Land & Livestock

Sire: Packard Focus 29 / MLL PF29 2577 / J-C New Design 0828

Dam: J-C Total 0922 / MLL 0922 2609 / J-C JOY 0983

$W	$F	$G	$YG	$B	$EN
+16.56	+12.09	+28.85	+7.87	+61.89	+20.05

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 6	+ 2.3	+ 31	+ 65	+ 0.46	+ 14	+ 17	+ 0.33	+ 0.05	-0.048

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	494	1,017	35.00	3.27	2.87	10.30	0.09	0.14

EPD enhanced by 50K genomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
78	64	96		92	58	56	59	95	80	68	79	3	10	30	49	93	53	17	

Lot 83 MLL 2577 4529

DOB: 02/19/14 **Bull** 18019188 **Tattoo:** 4529

Mc Kenzie Land & Livestock

Sire: Packard Focus 29 / MLL PF29 2577 / J-C New Design 0828

Dam: LK10 FINAL / MLL FINAL 2533 / MLL MERGER 0534

$W	$F	$G	$YG	$B	$EN
+19.59	+17.87	+38.82	+3.95	+74.05	+19.17

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 13	+ 0.1	+ 32	+ 68	+ 0.41	+ 13	+ 17	+ 0.73	+ 0.05	-0.006

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	495	1,039	36.00	3.40	4.00	11.60	0.18	0.27

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top%EPD:CED-2%, $E-4%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
23	17	89		77	27	26	32	94	82	48	92	24	13	47	50	70	54	42	

Lot 84 MLL E23 4625

DOB: 03/24/14 **Bull** 18019248 **Tattoo:** 4625

Mc Kenzie Land & Livestock

Sire: Connealy Whitman / P S E23 / P S Miss 758

Dam: S S Objective T510 0T26 / MLL OBJECTIVE 0515 / MLL Lagrand Forum 8577

$W	$F	$G	$YG	$B	$EN
+31.58	+22.71	+36.37	+7.56	+95.38	+0.88

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 1	+ 2.5	+ 44	+ 79	+ 1.38	+ 21	+ 35	+ 0.53	+ 0.51	-0.020

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	571	1,032	35.00	2.88	4.30	11.10	0.18	0.20

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
74	72	78		77	57	25	45	85	39	49	46	17	17	30	18	47	26	3	

Lot 85 MLL FREEDOM 4609

DOB: 03/23/14 **Bull** 18019235 **Tattoo:** 4609

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288
Dam: H A R B Jumboleen 0102 / LK70 Montana / MS MLL Montana 6540 / L K 12 LeAnn

$W	+47.00
$F	+31.15
$G	+18.45
$YG	-2.98
$B	+73.48
$EN	-0.33

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-1	+ 1.9	+ 48	+ 81	+ 0.61	+ 25	+ 27	+ 0.34	-0.11	+ 0.017

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	589	1,103	34.00	3.21	3.23	10.00	0.14	0.27

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
99	93	53		67	54	20	68	81	82	79	96	48	69	19	42	31	76	71	

Lot 86 MLL E23 4627

DOB: 03/28/14 **Bull** 18019250 **Tattoo:** 4627

Sire: Connealy Whitman / P S E23
Dam: P S Miss 758 / J-C Total 0922 / MLL TOTAL 1540 / MS MLL 535

$W	+28.59
$F	+24.73
$G	+35.22
$YG	+11.41
$B	+82.57
$EN	+1.60

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.7	+ 43	+ 79	+ 0.28	+ 18	+ 26	+ 0.40	+ 0.45	-0.057

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	549	1,053	35.00	3.15	3.23	11.60	0.09	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
76	56	58		54	76	43	58	89	61	63	51	2	45	67	67	46	13	8	

Lot 87 MLL FUTURE DESIGN 4608

DOB: 03/16/14 **Bull** 18064053 **Tattoo:** 4608

Sire: RAB-EGL Future Design / RAB-GAR Future Design 4518T
Dam: RAB-GAR MS Load UP - 4870N / M C M 308/042 X 037 / MLL 308 1527 / FALCON QUEEN SUSAN 309N

$W	+33.92
$F	+30.00
$G	+30.46
$YG	+9.03
$B	+71.15
$EN	-6.88

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 3	+ 2.1	+ 47	+ 81	+ 0.20	+ 23	+ 19	+ 0.34	+ 0.42	-0.018

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
76	577	1,092	34.00	3.22	3.20	11.40	0.18	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
67	57	76		89	14	41	84	41	77	55	59	21	70	58	84	59	35	33	

Lot 88 MLL 1540R 4651

DOB: 04/16/14 **Bull** 18019263 **Tattoo:** 4651

Sire: G A R New Design 5050 / RRR 1540 5050 2048 846 552
Dam: RRR 2048 846 552 Univ 3298 / LK 07 Fame / MLL FAME 9537 / MS MLL Montana 6541

$W	+47.66
$F	+43.88
$G	+44.82
$YG	+10.96
$B	+99.31
$EN	+0.19

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 2.7	+ 53	+ 88	+ 1.66	+ 23	+ 23	+ 0.69	+ 0.66	-0.019

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	635		37.00		3.32	12.90	0.16	0.34

EPD enhanced by 50K genomic test. Top %EPDs:$W-15%, $G-10%,$B-25%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
82	66	51		52	35	7	69	74	41	34	17	12	50	20	8	26	72	33	

Lot 89 MLL FUTURE DIRECTION 4624

DOB: 04/04/14 **Bull** 18019247 **Tattoo:** 4624

Sire: B/R Future Direction 6171 / J-C Future Direction 1110
Dam: J-C Faye 0837 / RAB-GAR Objective 149U / MLL 149U 2581 / MLL BAR OBJ 0547

$W	+35.45
$F	+35.74
$G	+42.75
$YG	+9.47
$B	+100.29
$EN	-10.88

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 3.5	+ 51	+ 89	+ 0.30	+ 25	+ 32	+ 0.67	+ 0.82	+ 0.001

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	548	1,062	32.00	3.21	3.71	11.90	0.18	0.24

EPD enhanced by 50K genomic test. Top % EPDs:$G-15%, $B-25%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
63	69	39		43	38	58	59	52	29	25	25	22	95	8	84	89	22	42	

Lot 90 MLL FUTURE DIRECTION 4540

DOB: 02/26/14 **Bull** 18019199 **Tattoo:** 4540

Sire: B/R Future Direction 6171 / J-C Future Direction 1110
Dam: J-C Faye 0837 / S S Objective T510 0T26 / MLL OBJECTIVE 2504 / MLL PREDESTINED 0522

$W	+36.77
$F	+33.47
$G	+37.85
$YG	+11.21
$B	+71.40
$EN	+0.47

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 3	+ 2.8	+ 47	+ 86	+ 0.61	+ 22	+ 17	+ 0.47	+ 0.49	-0.032

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	524	1,047	34.00	3.27	3.36	11.20	0.16	0.14

EPD enhanced by 50K genomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
57	61	54		57	42	30	75	70	73	30	55	8	53	18	69	56	49	31	

Lot 91 MLL TOTAL 4535

DOB: 02/18/14 **Bull** 18019194 **Tattoo:** 4535

Sire: TC Total 410 / J-C Total 0922
Dam: J-C Faye 0257 / M C M 308/042 X 037 / MLL M308 1580 / L K 42 Elba

$W	+28.75
$F	+26.78
$G	+29.44
$YG	+8.89
$B	+80.07
$EN	+18.59

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	-0.8	+ 41	+ 75	-0.44	+ 11	+ 24	+ 0.32	+ 0.49	-0.017

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	534	1,081	34.00	3.42	3.65	12.70	0.20	0.25

CALVING EASE PROSPECT EPD enhanced by 50K genomic test. Top% EPDs:CED-20%,$E-4%,

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
80	41	81		83	13	22	50	96	55	65	55	13	55	52	91	44	33	28	

Lot 92 MLL LOOKOUT 4533

DOB: 02/20/14 **Bull** 18019192 **Tattoo:** 4533

Mc Kenzie Land & Livestock

Sire: J-C SS Objective 0852
PS LOOKOUT 1253
J-C Beverly 0882
Dam: Connealy Final Product
MLL FINAL PRODUCT 2502
J-C FAYE 1039

$W	+42.37
$F	+36.49
$G	+40.78
$YG	+8.74
$B	+83.31
$EN	+1.68

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 6	+ 0.9	+ 48	+ 87	+ 1.00	+ 21	+ 21	+ 0.63	+ 0.54	-0.004

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	554	1,098	35.00	3.40	3.71	13.40	0.14	0.23

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
66	27	65		65	37	27	64	55	87	46	72	36	66	53	31	88	37	47	

Lot 93 MLL FUTURE DIRECTION 4547

DOB: 03/02/14 **Bull** 18019205 **Tattoo:** 4547

Mc Kenzie Land & Livestock

Sire: B/R Future Direction 6171
J-C Future Direction 1110
J-C Faye 0837
Dam: Gardens Wave
MLL WAVE 2516
MLL 1407 NEW DESIGN 7513

$W	+40.42
$F	+34.40
$G	+43.30
$YG	+7.60
$B	+106.40
$EN	+5.50

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	-0.5	+ 41	+ 77	+ 0.72	+ 22	+ 29	+ 0.76	+ 0.65	+ 0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	550	1,052	35.00	3.14	3.40	12.80	0.14	0.23

CALVING EASE PROSPECT EPDs enhanced by 50Kgenomic test. Top %EPDs:CED-10%, $E-20%,$G-10%,$B-15% Unique combination of high $B and +$E!

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
14	2	91		89	33	2	12	85	48	16	67	40	44	64	58	88	66	51	

Lot 94 MLL FUTURE DIRECTION 4558

DOB: 03/06/14 **Bull** 18019214 **Tattoo:** 4558

Mc Kenzie Land & Livestock

Sire: B/R Future Direction 6171
J-C Future Direction 1110
J-C Faye 0837
Dam: SPA Bluegrass 800
MLL 800 2551
Mll Merger 7529

$W	+26.91
$F	+13.96
$G	+33.66
$YG	+5.26
$B	+82.63
$EN	+8.91

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 10	+ 1.3	+ 39	+ 70	-0.05	+ 17	+ 27	+ 0.52	+ 0.29	-0.008

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	475	1,008	33.00	3.33	3.91	10.70	0.17	0.21

CALVING EASE PROSPECT EPD enhanced by 50K genomic test Top % EPDs: CED-10%,$E-15%,

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
26	35	77		82	74	67	23	87	42	44	67	17	12	16	89	62	23	9	

Lot 95 MLL FREEDOM 4610

DOB: 03/24/14 **Bull** 18019236 **Tattoo:** 4610

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156
H A R B Freedom 1156-288
H A R B Jumboleen 0102
Dam: G 13 Renovater 9528
Meads Eston Erica 143
Meads Eston Erica

$W	+22.77
$F	+1.97
$G	+14.65
$YG	-5.90
$B	+38.21
$EN	+17.91

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 3	+ 2.1	+ 30	+ 55	+ 1.21	+ 18	+ 10	+ 0.32	-0.25	+ 0.050

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	546	1,039	34.00	3.08	2.98	9.40	0.12	0.32

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
91	78	88		85	37	9	87	79	94	84	98	75	83	23	12	42	79	92	

Lot 96 MLL FREEDOM 4552

DOB: 02/22/14 **Bull** 18019208 **Tattoo:** 4552

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156
H A R B Freedom 1156-288
H A R B Jumboleen 0102
Dam: Krugerrand Merger 34
L K 40 Rita
LK Whitney

$W	+32.03
$F	+26.72
$G	+15.40
$YG	-6.50
$B	+66.49
$EN	+9.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 4	+ 0.2	+ 36	+ 75	-0.04	+ 20	+ 26	+ 0.35	-0.02	+ 0.054

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	511	1,044	34.00	3.33	3.37	11.30	0.11	0.27

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
93	67	84		74	22	45	96	73	63	80	98	87	91	4	70	75	76	66	

Chute

Help

Is

Always

Nice!

Lot 97 MLL FREEDOM 4634

DOB: 04/02/14 **Bull** 18046151 **Tattoo:** 4634

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156
H A R B Freedom 1156-288
H A R B Jumboleen 0102
Dam: L K 15 Merger
Mll Merger 7529
Meads Miss Power m321

$W	+30.00
$F	+13.97
$G	+14.41
$YG	+1.16
$B	+64.99
$EN	+2.51

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-3	+ 2.6	+ 42	+ 70	+ 0.64	+ 21	+ 27	+ 0.16	-0.15	-0.022

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	568	1,070	33.00	3.14	3.83	10.20	0.21	0.25

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
98	92	64		81	32	33	89	87	60	93	98	12	69	14	31	32	50	59	

Lot 99 MLL FREEDOM 4541

DOB: 02/16/14 **Bull** 18064050 **Tattoo:** 4541

Mc Kenzie Land & Livestock

Sire: R E B Freedom 1156
H A R B Freedom 1156-288
H A R B Jumboleen 0102
Dam: K C H Precision 109
A6 SWEETIE
A 6 Bethany

$W	+17.98
$F	-4.41
$G	+20.98
$YG	+2.05
$B	+57.66
$EN	+14.21

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	-0.3	+ 23	+ 49	+ 1.08	+ 20	+ 18	+ 0.28	-0.05	-0.002

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	490	941	38.00	2.82	3.68	10.90	0.11	0.30

CALVING EASE PROSPECT EPD enhanced by 50K genomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
72	48	97		96	39	12	39	82	81	84	94	35	22	14	19	72	60	19	

Lot 100 MLL E23 4619

DOB: 03/24/14 **Bull** 18019243 **Tattoo:** 4619

Sire: Connealy Whitman / P S E23 / P S Miss 758
Dam: J-C Total 0922 / MLL TOTAL 1539 / FALCON PRIMROSE 1292

$W	+28.79
$F	+21.66
$G	+34.31
$YG	+7.32
$B	+81.27
$EN	+0.74

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 0.0	+ 43	+ 75	+ 0.61	+ 18	+ 24	+ 0.48	+ 0.23	-0.032

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	583	1,010	33.00	2.67	3.88	10.00	0.12	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
66	25	76		82	9	16	30	92	65	57	76	13	5	58	51	22	8	6	

Lot 101 MLL FUTURE DIRECTION C4644

DOB: 04/16/14 **Bull** 623034441 **Tattoo:** C4644

Sire: B/R Future Direction 6171 / J-C Future Direction 1110 / J-C Faye 0837
Dam: MLL 2612 / Meads Miss Kermac 73

Sire EPD: CED + 5; BW + 2.3; WN + 47; YR + 83; Milk + 26
Sire $Values: $W +42.21; $F +30.24; $G +41.99; $B +95.90

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
65	505		33.00		3.76	10.00	0.11	0.17

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
73	64	81		90	34	52	72	91	74	39	87	8	45	19	71	78	64	41	

Lot 102 MLL TOTAL 4618

DOB: 03/25/14 **Bull** 18019242 **Tattoo:** 4618

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257
Dam: RAB-JR 004 3006T / MLL 3006T 0600 / Meads Joy of Erica 220

$W	+25.66
$F	+7.77
$G	+31.17
$YG	+8.56
$B	+58.60
$EN	+17.69

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 6	+ 0.7	+ 41	+ 62	-0.09	+ 11	+ 11	+ 0.37	+ 0.35	-0.007

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	542	980	32.00	2.74	3.59	11.80	0.13	0.14

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
90	67	69		91	13	9	54	97	84	67	68	25	28	8	79	32	6	6	

Lot 103 MLL Lookout 4582

DOB: 03/11/14 **Bull** 18064052 **Tattoo:** 4582

Sire: J-C SS Objective 0852 / PS LOOKOUT 1253 / J-C Beverly 0882
Dam: ALC Big Eye D09N / MLL BIG EYE 2511 / MLL 26 BUCK 7536

$W	+24.99
$F	+38.20
$G	+45.68
$YG	+5.33
$B	+92.62
$EN	+3.82

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 7	+ 2.9	+ 43	+ 82	+ 0.76	+ 18	+ 20	+ 0.95	+ 0.55	+ 0.033

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	472	862	31.00	2.44	3.84	9.90	0.16	0.25

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
38	58	55		38	48	4	64	68	67	23	62	63	49	34	48	42	17	10	

Lot 104 MLL TOTAL 4630

DOB: 03/25/14 **Bull** 623034427 **Tattoo:** 4630

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257
Dam: SPA Bluegrass 800 / MLL BG 800 0560 / MLL Predestined 8504

Sire EPD: CED + 11; BW -0.8; WN + 43; YR + 78; Milk + 16
Sire $Values: $W +25.92; $F +28.74; $G +41.09; $B +77.14

$W	
$F	
$G	
$YG	
$B	
$EN	

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	584	1,011	31.00	2.67	3.64	9.70	0.12	0.14

registration pending genetic testing EPD enhanced by 50K genomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
89	77	80		69	40	64	71	78	52	29	59	10	13	39	50	51	37	31	

Lot 105 MLL FOCUS 4643

DOB: 04/14/14 **Bull** 18019259 **Tattoo:** 4643

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: G A R Predestined / MLL PREDESTINED 0519 / MS MLL 503

$W	+54.94
$F	+27.14
$G	+47.88
$YG	+9.70
$B	+91.33
$EN	-3.44

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	-0.1	+ 50	+ 84	+ 1.16	+ 27	+ 24	+ 0.86	+ 0.28	-0.054

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	661		35.00		3.51	10.80	0.14	0.21

DDC **CALVING EASE**EPD enhanced by 50K genomic test. Top%EPDs:CED-20%, $W-4%

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
58	29	76		80	20	37	50	40	64	20	61	6	32	31	19	20	90	52	

Lot 107 MLL Freedom 4650

DOB: 04/14/14 **Bull** 18065998 **Tattoo:** 4650

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: Ironwood New Level / MS MLL 509 / L K 49 Lisa

$W	+44.08
$F	+28.45
$G	+18.15
$YG	-0.78
$B	+70.28
$EN	-13.81

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 2	+ 1.2	+ 45	+ 79	+ 0.70	+ 31	+ 26	+ 0.28	+ 0.06	+ 0.021

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	655		31.00		3.31	11.00	0.11	0.29

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
94	88	88		90	36	19	64	54	76	83	96	61	71	28	34	76	50	49	

Lot 108 MLL FUTURE DESIGN 4656

DOB: 04/27/14 **Bull** 18064054 **Tattoo:** 4656

Sire: RAB-EGL Future Design / RAB-GAR Future Design 4518T / RAB-GAR MS Load UP - 4870N
Dam: GAR Objective 561 / J-C Beverly 0937 / J-C Beverly 0509

$W	+49.83
$F	+50.04
$G	+31.58
$YG	+6.48
$B	+89.38
$EN	-6.30

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 1.4	+ 50	+ 96	+ 0.57	+ 27	+ 30	+ 0.43	+ 0.43	-0.009

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	652		35.00		3.41	11.20	0.11	0.20

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
38	54	68		56	48	18	63	56	36	43	56	27	92	22	73	10	80	53	

Lot 109 MLL TOTAL 4593

DOB: 03/31/14 **Bull** 18019225 **Tattoo:** 4593

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257
Dam: M C M 308/042 X 037 / MLL 308 0578 / MS MLL 584

$W	+34.63
$F	+29.72
$G	+28.12
$YG	+6.69
$B	+73.47
$EN	+4.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 1	+ 2.3	+ 46	+ 77	-0.26	+ 19	+ 19	+ 0.34	+ 0.36	+ 0.000

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
78	609	1,059	34.00	2.81	3.17	11.30	0.16	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
90	87	73		86	17	2	59	82	69	58	70	35	58	18	86	75	38	36	

Lot 110 MLL FREEDOM 4590

DOB: 03/03/14 **Bull** 18019222 **Tattoo:** 4590

Sire: R E B Freedom 1156 / H A R B Freedom 1156-288 / H A R B Jumboleen 0102
Dam: Musicks Fix It 879 / Meads Monica Power 93 / Lady Monica Power 207

$W	+36.78
$F	+7.94
$G	+14.11
$YG	-1.90
$B	+48.91
$EN	+11.60

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-1	+ 2.7	+ 36	+ 64	+ 1.21	+ 24	+ 18	+ 0.22	+ 0.01	+ 0.037

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	536	1,008	34.00	2.95	3.07	11.40	0.14	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
99	94	77		82	29	33	95	74	72	89	90	68	93	28	10	62	97	89	

Lot 111 MLL FUTURE DESIGN 4527

DOB: 02/12/14 **Bull** 18019187 **Tattoo:** 4527

Sire: RAB-EGL Future Design / RAB-GAR Future Design 4518T / RAB-GAR MS Load UP - 4870N
Dam: J-C FAME 0212 / MLL J-C FAME 0505 / MS MLL 449

$W	+28.58
$F	+17.88
$G	+12.75
$YG	+9.46
$B	+33.43
$EN	+1.25

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 11	+ 0.6	+ 40	+ 71	+ 1.45	+ 20	+ 9	-0.03	+ 0.49	+ 0.002

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
75	551	989	37.00	2.74	2.46	13.50	0.14	0.14

CALVING EASE PROSPECTEPD enhanced by 50K genomic test.

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
42	39	81		89	67	38	31	80	84	86	71	37	86	31	14	59	17	15	

Lot 112 MLL TOTAL 0922

DOB: 03/23/14 **Bull** 18019249 **Tattoo:** 4626

Sire: TC Total 410 / J-C Total 0922 / J-C Faye 0257
Dam: MCC DAYBREAK / MLL DAYBREAK 1510 / MLL DESIGN 308 9539

$W	+24.88
$F	+29.46
$G	+36.56
$YG	+12.75
$B	+74.61
$EN	+5.15

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 0.4	+ 44	+ 80	+ 0.49	+ 14	+ 18	+ 0.40	+ 0.77	-0.019

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	612	974	34.00	2.26	3.23	12.50	0.14	0.16

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
53	32	74		69	59	18	24	96	54	56	15	9	30	33	54	31	5	8	

Lot 113 MLL FOCUS 4648

DOB: 04/25/14 **Bull** 18019261 **Tattoo:** 4648

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: G A R Predestined / MLL PREDESTINED 0522 / MS MLL J-C Fame 6509

$W	+38.69
$F	+22.79
$G	+37.13
$YG	+10.90
$B	+67.46
$EN	+10.89

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-2	+ 2.2	+ 46	+ 79	+ 1.12	+ 18	+ 16	+ 0.46	+ 0.21	-0.063

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
68	624		34.00		3.50	10.00	0.14	0.18

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
97	91	80		83	62	28	93	90	85	45	66	4	68	27	16	22	86	43	

Lot 114 MLL FOCUS 4649

DOB: 04/25/14 **Bull** 18019262 **Tattoo:** 4649

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: LK 07 Fame / MLL FAME 0520 / MLL MONTANA 7550

$W	+42.45
$F	+14.96
$G	+40.08
$YG	+7.48
$B	+86.04
$EN	+0.22

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
-1	+ 1.9	+ 46	+ 72	+ 0.85	+ 24	+ 24	+ 0.65	+ 0.18	-0.040

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	611		36.00		3.39	11.20	0.11	0.21

EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
97	75	67		82	50	47	88	62	61	50	70	4	23	11	22	70	48	69	

Lot 115 MLL FOCUS 4631

DOB: 03/28/14 **Bull** 18019252 **Tattoo:** 4631

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: J-C FAME 0212 / MLL J-C FAME 7512 / Meads Traveler Lady 83

$W	+35.43
$F	+23.14
$G	+30.27
$YG	+8.04
$B	+72.52
$EN	+3.79

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 9	+ 0.2	+ 41	+ 75	+ 0.77	+ 21	+ 21	+ 0.36	+ 0.25	-0.032

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
70	619	1,035	33.00	2.60	3.44	10.10	0.12	0.21

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
70	46	89		82	4	18	76	78	56	74	45	7	39	9	25	41	44	29	

Lot 116 MLL FOCUS 4622

DOB: 03/26/14 **Bull** 18019245 **Tattoo:** 4622

Sire: Packard In Focus 137 / Packard Focus 29 / Packard Firefly 36
Dam: G A R 1407 New Design 6005 / MLL 6005 NEW DESIGN 9540 / Meads Miss Blackcap 33

$W	+28.86
$F	+0.15
$G	+45.08
$YG	+9.90
$B	+65.83
$EN	+15.02

CED	BW	WN	YR	SC	Milk	CW	Marb	RE	Fat
+ 8	+ 0.4	+ 29	+ 54	+ 0.85	+ 21	+ 9	+ 0.74	+ 0.14	-0.046

Act. BW	Adj. WW	Adj. YW	Act. SC	ADG	Act. % IMF	Act. REA	Act. RibFat	Act. RmpFat
72	529	857	34.00	2.05	3.75	8.50	0.10	0.14

CALVING EASE PROSPECT EPD enhanced by 50K genomic test

HD50K Percentile Rank

CED	BW	WW	ADG	YW	RFI	DMI	CEM	Milk	CW	Marb	RE	Fat	Tend	YH	SC	Doc	MW	MH	Color
64	30	95		94	23	9	74	77	82	34	66	3	50	40	30	38	76	90	

American Angus Association Genomic Enhanced EPDs

Genomic results are a way to enhance predictability of current selection tools, to achieve more accuracy on EPDs for younger animals, and to characterize genetics for traits where it's difficult to measure the animal's own performance for the trait, such as carcass traits in breeding stock or maternal traits in bulls. With the investment in genomic technology, this means that in addition to the pedigree, performance and progeny information that are used in the calculation and reporting of Angus EPDs, genomic test results have also been incorporated into the EPD.

Genomic-enhanced EPDs (GE-EPDs) are important because they make use of the results from the genomic, or DNA, test in addition to all other sources of information to provide added accuracy and reliability to the animal's EPD (Figure 1). In fact, depending on the trait, GE-EPDs on unproven animals have the same amount of accuracy as if they had already sired 8-20 calves.

Figure 1. Information contributing to the GE-EPD

Genomic-Enhanced EPDs (GE-EPD)

Genomic impact on the EPDs

In the American Angus Association genetic evaluations, the genomic results are incorporated into the EPDs as a correlated trait. Through AGI research and development, a genetic relationship is calculated between the values obtained from the genomic test results and the phenotypic data at the Association. Typically there are two measures used to report the relationship of a genomic test and phenotype, the genetic correlation and percent of additive genetic variance accounted for by the test. These two measures are related, and if one is

known, the other can be calculated. The genetic correlation is the square root of the percent additive genetic variance and, conversely, the percent additive genetic variance is the squared value of the genetic correlation.

For example, if the genetic correlation between the genomic result and the phenotypic measure is .60, then the genomic result explains 36% of the additive genetic variance for that particular trait. Simply stated, the more genetic variance a test explains, the more impact it will have on your EPDs and accuracies for that trait. Across all traits, the genetic correlations that have been estimated between the high density genomic tests purchased through AGI and the American Angus Association's phenotypic database effectively ranged from .60 to .70, except for milk and heifer pregnancy.

Importance of phenotypic performance data

Genomic results are used as indicator traits in the evaluations to compute EPDs. Genomics do not completely describe the variation in the traits of interest. Breeders sometimes ask if it is no longer necessary to collect weights and measures (e.g., weaning weights, scan data, carcass measures). On the contrary, phenotypic measures collected by Angus breeders continue to be an important part in further development of improved genomic panels and the refinement of this technology over time, not to mention an important component in EPD calculation.

Available traits that include genomic results

Breeders and users of Angus genetics are strongly encouraged to use EPDs as the genetic improvement tool of choice, because EPDs account for all the available information on an animal, such as individual measures, progeny data, pedigree and genomic results.

Several considerations regarding genomic results merit special mention. The multi-trait genetic evaluation for mature weight and height includes the genomic prediction for only mature weight, because there is a high correlation between the genomic breeding values for mature weight and height. Likewise, the calving ease evaluation that includes calving score and birth weight phenotypes incorporates genomic results for calving ease direct only. The residual average daily gain (RADG) values provided in the weekly genetic evaluation include the genomic indicator for dry matter intake (DMI) rather than the genomic test result for residual feed intake (RFI).

Percent Ranks provided with genomic purchase

Percent ranks (1-100) are provided by the American Angus Association to assist in establishing direction of interest for each trait, as illustrated in Table 1. If you are making selection decisions for traits that have an EPD provided by the Association, then the EPDs should be considered the selection tool of choice. The EPD and accuracy account for all sources of information available on the animal of interest (e.g., pedigree, own record, weights/measures, genomic results). Using EPDs and genomic percent ranks separately leads to double counting information and will lessen selection efficiency. For the percent ranks, a lower value indicates a more favorable ranking for the trait.

The genomic percent rank format, ranging from 1% to 100% in integer increments, is similar to that used in EPD percentile rankings. For example, a smaller numeric percent ranking for birth weight and carcass fat indicates an expectation of lighter calves and leaner carcasses.

Table 1. Establishing direction of percent ranks

	Percent Rank 'Favorable'
Calving Ease Direct (more unassisted)	1%
Calving Ease Maternal	1%
Birth Weight (lighter)	1%
Weaning Weight	1%
Yearling Weight	1%
Milk (more maternal milk in daughter calves)	1%
Carcass Marbling	1%
Carcass Rib (larger)	1%
Carcass Fat (leaner)	1%
Carcass Weight (heavier)	1%
Dry Matter Intake (eat less)	1%
RFI (lower feed intake than predicted)	1%
Tenderness (more tender)	1%
Docility (more docile)	1%
Yearling height (more hip height)	1%
Scrotal (larger size)	1%
Mature weight (larger cow wt)	1%
Mature height (more cow height)	1%
Heifer Pregnancy	1%

Conclusion

Genomic results are a way to enhance the current selection tools, to achieve more accuracy on predictions for younger animals, and to characterize genetics for traits where it's difficult to measure the phenotype. To learn more about available genomic tests and place an order, go to http://www.angus.org/AGI/default.aspx.