

AQHA

AMERICAN QUARTER
HORSE ASSOCIATION

June 7, 2012

Draggin Ass Ranch
7315 7th St NE
Carrington, ND 58421-8748

Dear Member:

The results for the disease panel test that you ordered for RED SONNY JACKIE #3516187 are enclosed.

The DNA profile for this panel was compared to the original DNA. For more information regarding these diseases, please refer to AQHA rule 205.

If you have any questions, please contact our office at (806) 376-4811. We are available Monday through Friday, 8 a.m. to 5 p.m. CT.

Sincerely,

Registration Department



VETERINARY GENETICS LABORATORY
 SCHOOL OF VETERINARY MEDICINE
 ONE SHIELDS AVENUE
 DAVIS, CALIFORNIA 95616-8744

TELEPHONE: (530) 752-2211
 FAX: (530) 752-3556

AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: QHA58557 Date Received: 01-Jun-2012 Report Date: 06-Jun-2012 Report ID: 2422-0810-7234-9026 Verify report at https://www.vgl.ucdavis.edu/myvgl/verify.html
-------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Horse: RED SONNY JACKIE YOB: 96 Breed: QH Sex: M Alt. ID: 4110492	Reg: 3516187
---------------------------------------------------------------------------------------------------------	---------------------

Sire: RED SONNY DEE Dam: MISTY MISS JACK	Reg: 0843102 Reg: 1051345
-----------------------------------------------------------	--------------------------------------------

GBED	N/N	N/N - Normal - Does not possess the disease-causing GBED gene
HERDA	N/N	N/N - Normal - horse does not have the HERDA gene
HYPP	N/N	N/N - Normal - Does not possess the disease-causing HYPP gene
MH	N/N	N/N - Normal - horse does not have the MH gene
PSSM1	N/N	N/N - Normal - horse does not have the PSSM1 gene

GBED - Glycogen Branching Enzyme Deficiency. Fatal disease of newborn foals caused by defect in glycogen storage. Affects heart and skeletal muscles and brain. Inherited as recessive disease.

HERDA - Hereditary Equine Regional Dermal Asthenia. Skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Typical onset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkalemic Periodic Paralysis. Muscle disease caused by defect in sodium channel gene that causes involuntary muscle contraction and increased level of potassium in blood. Inherited as dominant disease. Two copies of defective gene produce more severe signs than one copy.

MH - Malignant Hyperthermia. Rare but life-threatening skeletal muscle disease triggered by exposure to volatile anesthetics (halothane), depolarizing muscle relaxants (succinylcholine), and stress. Presumed inheritance as dominant disease.

PSSM1 - Polysaccharide Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle pain, stiffness, skin twitching, sweating, weakness and reluctance to move. Inherited as a dominant disease.

GBED testing performed under a license agreement with the University of Minnesota.

HERDA testing performed under a license agreement with the University of California, Davis.

PSSM1 testing performed under a license agreement with the American Quarter Horse Association.