GENETIC HEALTH PANEL TEST REPORT

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PRINT DATE: April 6, 2023

OWNER OF RECORD:

Owner's Name LINDA L. INMAN HODGES
Owner's address 38830 HIGHWAY 58
City, State DEXTER, OR 97431

Horse Name: 2023F CATHY ANN DIGNIFIED **Number #:** WKI966508

Foal Date: 2023 **Sex:**

Sire's Name: TE COOLEST **Registration #: #** 0602408

Dam's Name: CATHY ANN DIGNIFIED **Registration #: N** 0676324

Case #: AP2023046467 **Result Date:** 4/06/2023 **Lab Rec:** 3/06/2023

Glycogen Branching Enzyme Deficiency (GBED)	N/N	Normal-horse does not have the GBED gene
Hereditary Equine Regional Dermal Asthenia (HERDA)	N/N	Normal-horse does not have the HERDA gene
Hyperkalemic Periodic Paralysis (HYPP)	N/N	Normal-horse does not have the HYPP gene
Malignant Hyperthermia (MH)	N/N	Normal-horse does not have the MH gene
Polysaccharide Storage Myopathy Type 1 (PSSM1)	N/N	Normal-horse does not have the PSSM1 gene
Myosin-Heavy Chain Myopathy (MYHM)	N/N	Normal-horse cannot transmit/develop MYHM

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.

MYHM - Myosin-Heavy Chain Myopathy (MYHM) is a muscle disease in Quarter Horses and related breeds that results in two distinct clinical disease presentations, immune-mediated myositis (IMM) and non-exertional rhabdomyolysis. Both presentations involve muscle loss or damage and are linked to the same genetic variant.