

Annex for Today's Haulers

FAMILY-OWNED GRAIN HANDLER ADDS A PAIR OF JUMPFORM CONCRETE TANKS



Cassidy Grain Co.

Frederick, OK • 580-335-2104

Founded: 1928

Storage capacity: 2 million+ bushels at three locations

Annual volume: 2.2 million bushels

Number of employees: 8

Crops handled: Sorghum, corn, hard red winter wheat, sunflowers, soybeans, sesame, canola

Services: Grain handling and merchandising, lumber, retail farm supplies

Key personnel:

- Mike Cassidy, co-owner
- Brent Cassidy, co-owner
- Chase Cassidy, assistant manager

Supplier List

Aeration fans..... Tiernan Aeration

Bin sweeps Valleywide Sales

Bridge LeMar Industries Corp.

Bucket elevator Intersystems

Concrete tanks McPherson

Concrete Storage Systems

Contractors..... Frisbie Construction

Inc., McPherson Concrete Storage Systems

Conveyors Intersystems

Distributor..... Schlager Inc.

Elevator buckets Maxi-Lift Inc.

Leg belting.... RBH/Mill & Elevator

Level indicators..... Bindicator

Millwright.. Frisbie Construction Inc.

Motors Toshiba International

Speed reducers Dodge

Unloading augers..... Frisbie Construction Inc.



Cassidy Grain Co.'s flagship elevator in downtown Frederick, OK, with new 382,000-bushel jumpform concrete annex in foreground. Aerial photo by Thomas Ag Aerial Inc., Thomas, OK.

The Cassidy family has been part of the business fabric of Frederick, OK, population 4,000, almost as far back as anyone can remember. Chase Cassidy, assistant manager

at Cassidy Grain Co., represents the fourth generation of his family in the business, and the current headquarters elevator in the heart of town dates back to the 1950s.

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That was part of the challenge the company needed to resolve as the decade of the 2000s wound down, he says. The receiving pit at the Frederick elevator was too small and the receiving leg too slow, under 5,000 bph, to handle today's grain-hauling semi-trucks.

Speed and efficiency are important to the Cassidy operation. The facility loads railcars on two different short-lines that connect either to the Burlington Northern Santa Fe or the Union Pacific, both hauling grain to the Gulf for export.

Cassidy Grain decided pretty quickly on adding a pair of 191,000-bushel jumpform concrete tanks from McPherson Concrete Storage Systems, McPherson, KS (800-999-8151). McPherson tanks are common around Oklahoma and highly regarded for quality and durability, Cassidy notes.

To act as millwright on the project, the company went with Frisbie Construction Inc., Gypsum, KS (785-536-4288) after meeting with Frisbie personnel at the 2009 Oklahoma Grain and Feed Association convention. "We saw a lot of work they did for other grain



Chase Cassidy

elevators, and they were impressive," Cassidy comments.

Construction on the two-tank annex began in December 2009, and the project was completed in May 2010, just in time for wheat harvest. The cost is confidential.

Annex Specifications

The two new jumpform concrete tanks, constructed to the north and west of the main slipform concrete elevator, They stand 48 feet in diameter and 120 feet tall.

The flat-bottom tanks are equipped with 14-inch Valleywide sweep augers and Bindicator level indicators.

The tanks have no grain temperature monitoring equipment, but they are aerated at 1/5 cfm per bushel through in-floor ducting using a pair of 25-hp Tiernan centrifugal fans.

Adjacent to the new tanks, Cassidy Grain installed a new 500-bushel gravity receiving pit, which delivers grain to a 20,000-bph Intersystems leg situated between the two tanks. The leg is equipped with 20x8 Maxi-Lift CC-MAX buckets mounted on a 22-inch belt from RBH/ Mill & Elevator.

The leg deposits grain into a four-hole Schlager rotary distributor, which can send grain via gravity spout into the two new tanks or onto a 20,000-bph overhead Intersystems drag conveyor running to the main concrete workhouse.

A set of Frisbie unloading augers are used to empty the tanks back into the boot section of the new leg.

Cassidy notes that the company is considering adding a third jumpform concrete tank to the annex, but no final decision has been made.

Ed Zdrojewski, editor