

NO TILL, COVER CROPS, & LIVESTOCK

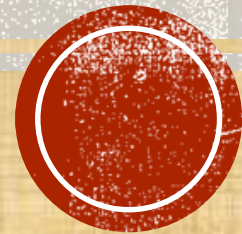
Ryan and Michael Hough Farms

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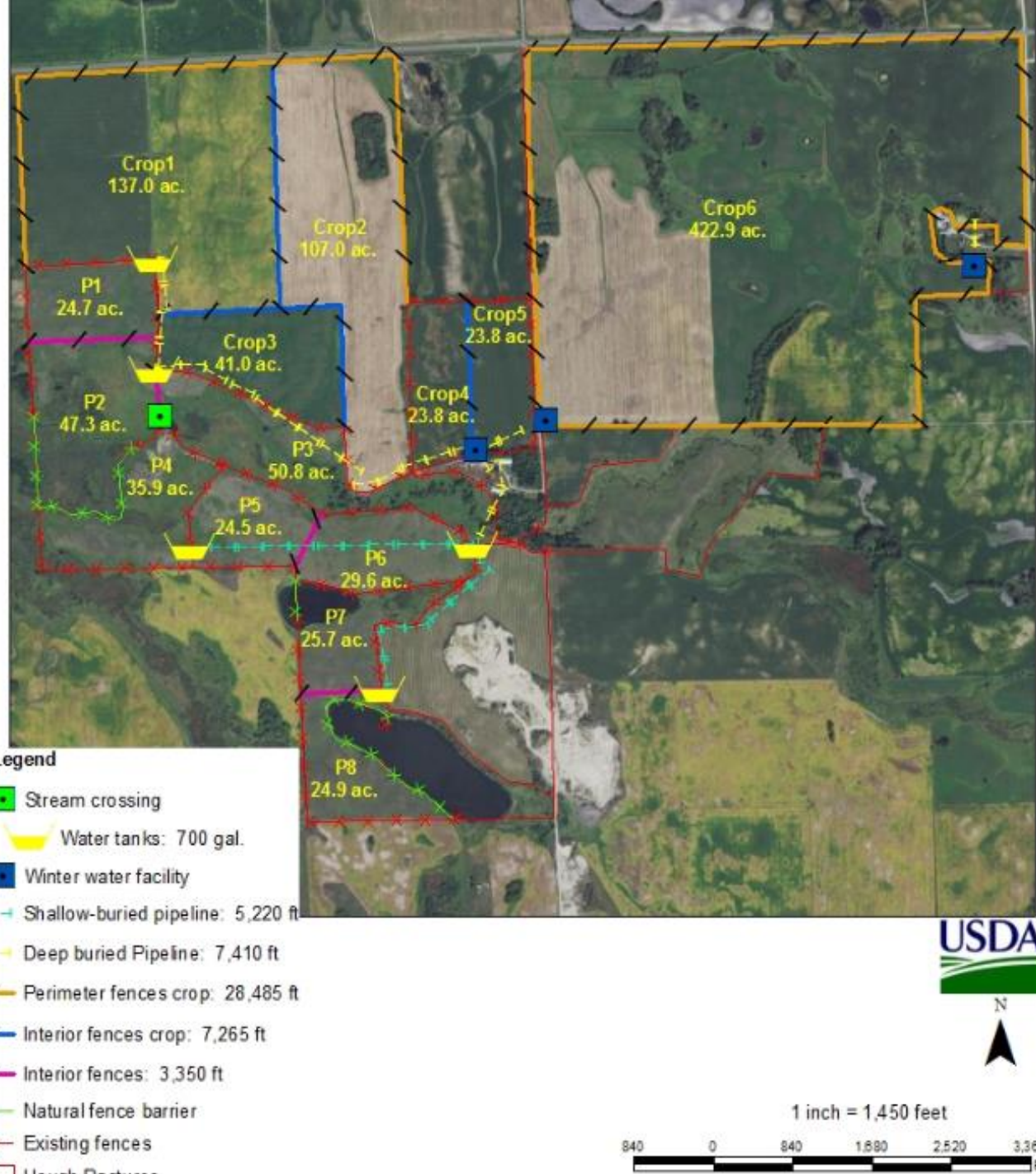
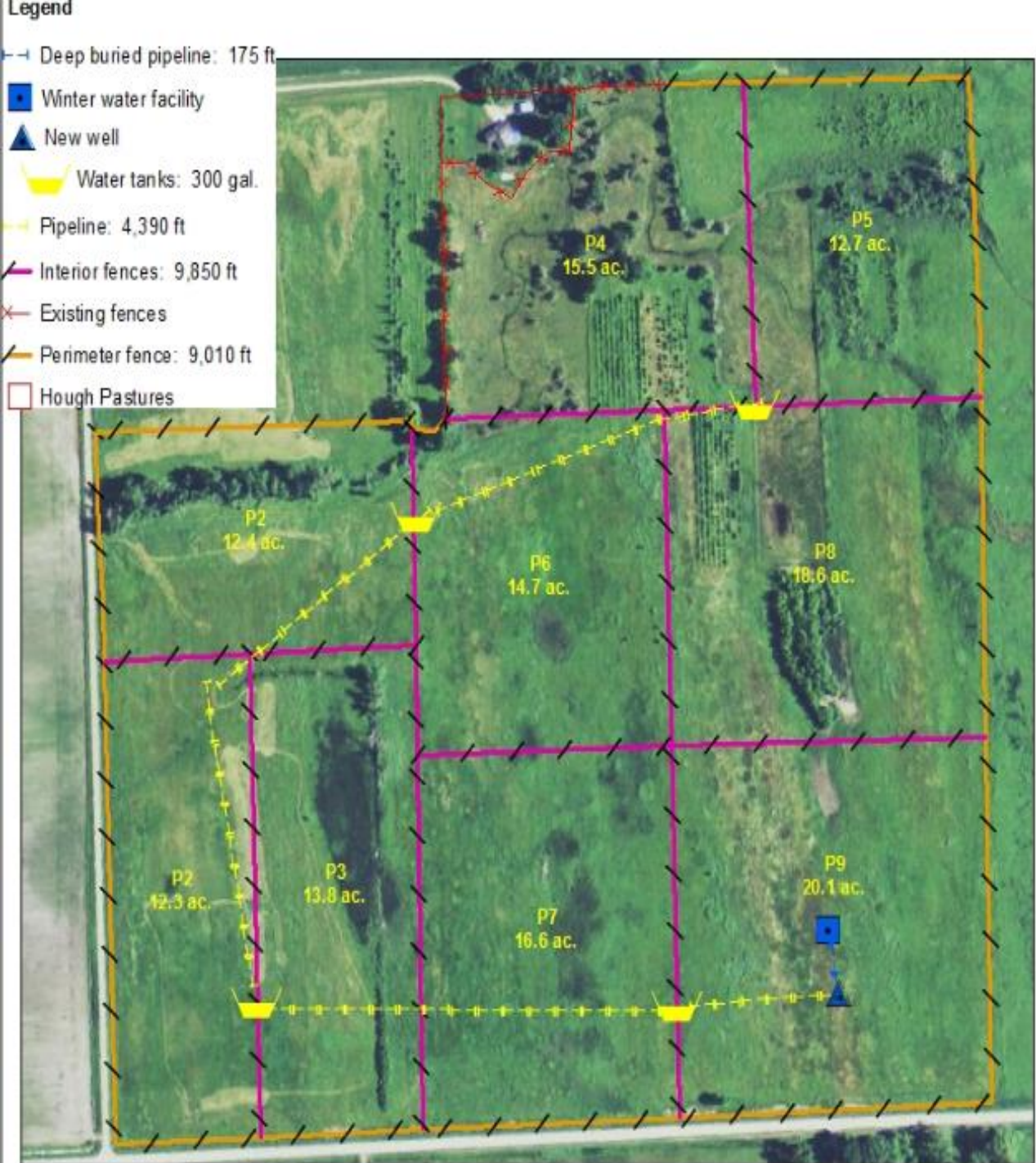
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RYAN & MICHAEL HOUGH FARMS 2020

- 4th Generation Family Farm in SE Clay County, Wilkin and West Ottertail Co.
- ~2600 acres
- ~400 Hd. Cattle
- Corn, Soybeans, Wheat, Malt Barley, Alfalfa
- No Till Cropland since 2014, Cover Crops since 2015
- Rotational Grazing Since 2015
- Extended Winter Grazing on Cover Crops and Corn Since 2015 (Mid-Late Jan.)
- High Stock Density/Multiple daily moves of Cows Since 2019





INTEGRATING LIVESTOCK ONTO CROPLAND





JD 1710 16R22'

- Yetter Shark Tooth Floating Row Cleaners
- Drag Chains
- One Martin Spiked Closing Wheel
- True Count Air Clutches on every Row
- Trimble VRx Hydraulic Drive





JD 1850 NO TILL DRILL

JD 1910 3 TANK AIR CART



- Intelligent Ag, All Run Blockage
- Intelligent Ag, Section Control
- JD Hyd. VRx Drives
- 2630 Monitor to Run Rx.
- JD Spoked Gauge Wheels
- Thompson Spiked Closing Wheels
- Forges De Niaux 200 Opener Discs
- Needham Ag Firming Wheels & Exapta's Firming Wheels
- Banilla Seed tabs, and Ninja Seed tabs





SHELBOURNE SVC32 STRIPPER HEAD

- Increased Ground Speed
- Leave Residue in Place
- Don't have to worry about spreading straw evenly out back of combine
- Reduced fuel consumption
- Increased Combine Capacity
- Able to harvest later into the evening, when straw gets damp, but grain is still dry.



PLANTING GREEN



RESIDUE LEFT BEHIND



DIVERSE COVER CROP MIX PLANTED AFTER WHEAT: AUGUST 5TH





SEASON-LONG COVER CROP

- 10 + Ton Dry Matter/Acre
- Grazed in Dec.
- Can be utilized anytime in the Fall or Winter, to extend the grazing season.





UTILIZING TEMPORARY FENCING

- 3-4 Strand High Tensile Perimeter Fence
- 1 Strand High Tensile Cross Fence
- Poly Wire for Temporary Paddocks
- Pigtail Step in posts for Temporary Fences
- 4'x4'x6" Concrete Pads with 2 7/8" Drill Stem Post for Corner Posts





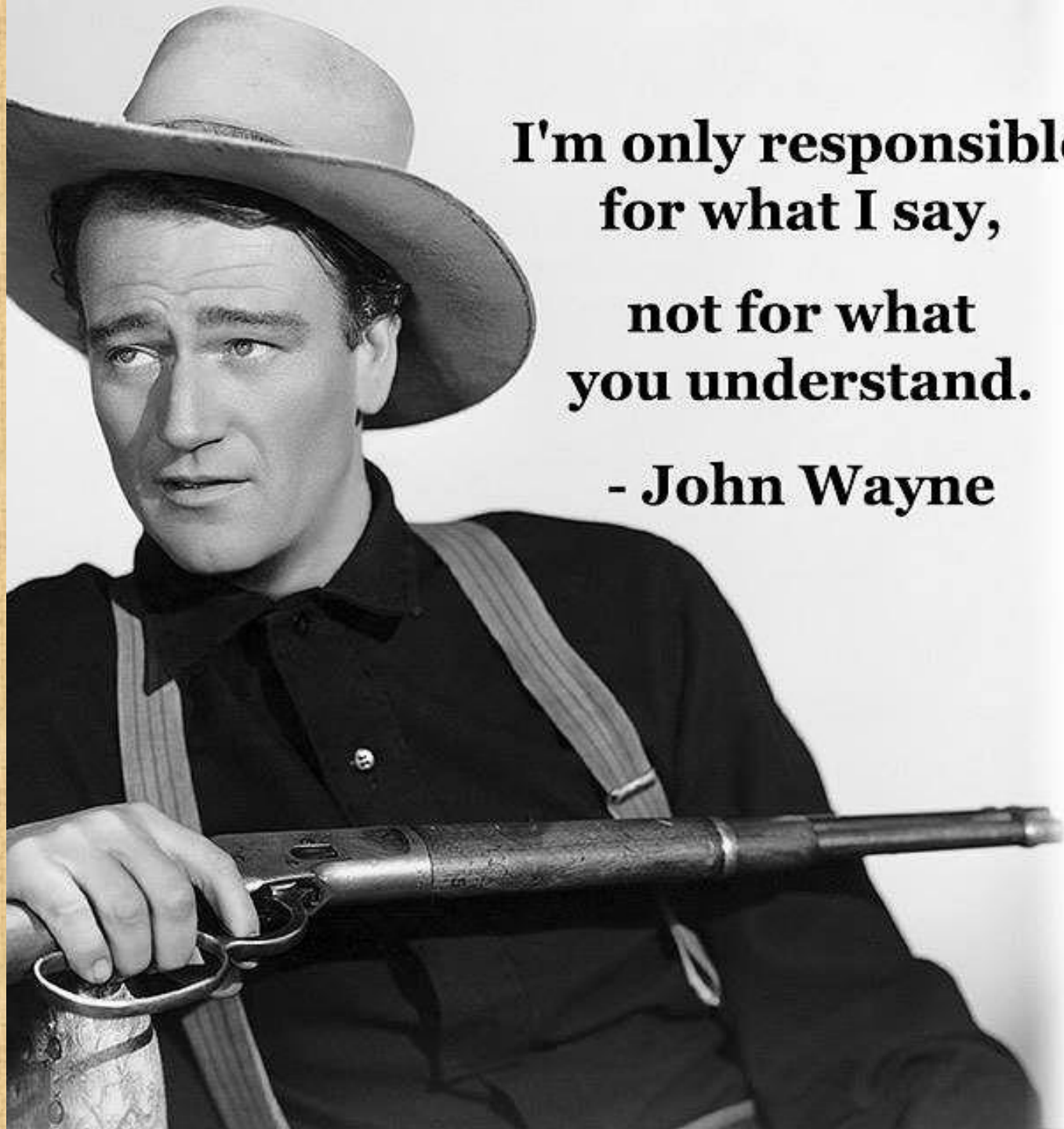
Started Grazing December 9th



Cows Grazing December 23rd







**I'm only responsible
for what I say,**

**not for what
you understand.**

- John Wayne



