Bowles Creek Bottom Fire Type 6 Engine Destroyed



Henderson, TX August 18, 2011

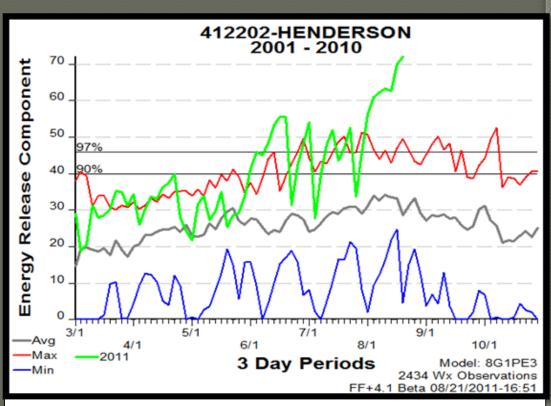
Off District Assignment



- Season started with light local Initial Attack
- •One previous 14 day off district assignment
- •Mobilized to Texas on August 9th

Texas has been on fire for six months...

For Texas, the 2011 fire season began early and quickly developed into the most significant fire season on record.



The Energy Release Component (ERC) from March –August 2011 from the Henderson RAWS.

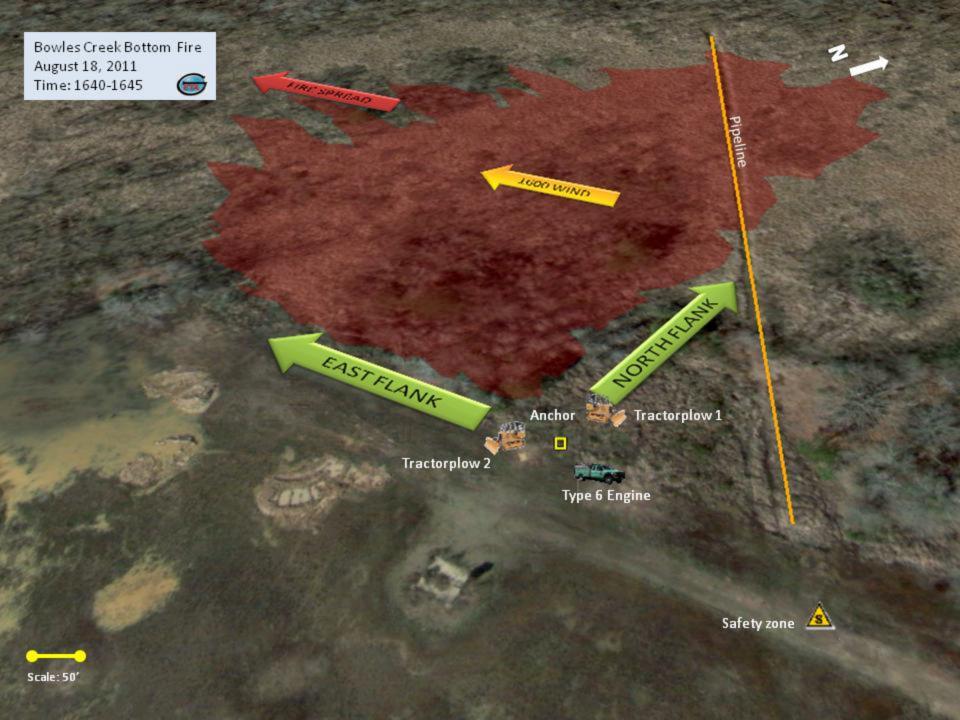
Good Roll



- •Between the August 10 and the August 18, the crew spent a total of 7 operational periods assigned to fires.
- •The crew took their engine off-road a number of times, and never had any difficulties.

August 18, 2011: Bowles Creek Bottom Fire

- Crew patrols a fire in the morning where they drive in a slough with no problems
- Two Tractor Plows and Type 6 Engine respond to the Bowles Creek Bottom Fire at 1506
- Fire is 10-15 acres upon arrival
- Tractor Plows anchor and flank, Type 6
 Engine assigned to the north flank



The North Flank



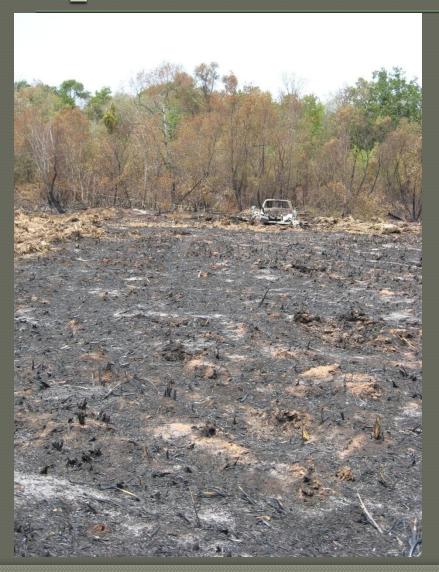
- •Engine follows the Tractor Plow and cools down the edge
- •Fire backs to the line and holds.

The Mowed Area

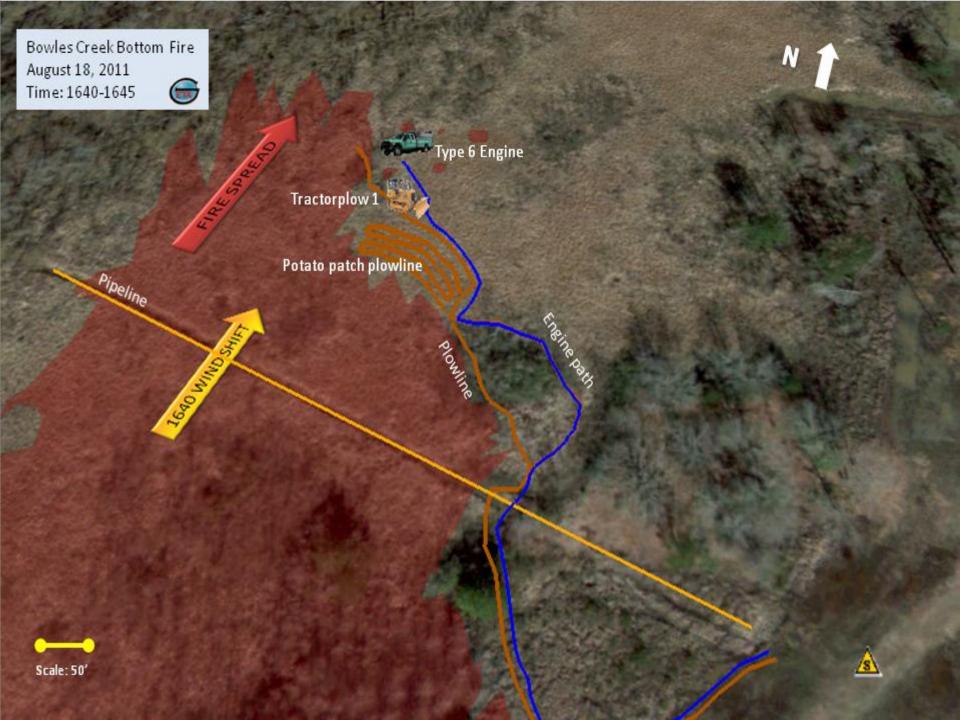


- •The crew makes progress and arrives at an area of mowed down sawgrass
- •There is a brief windshift starting multiple spots, but they are all caught

Spots!



- •Engine 1 pulls forward to cool off an area for the Tractor Plow
- •Another wind shift resulting in numerous spots and increase fire behavior



Stuck!

- As spots grow together, the ENGB decides to reposition the engine, as he begins to back out the front end sinks and they are instantly stuck
- The Tractor Plow swamper notifies the Tractor Plow the engine is stuck while the ENGB yells to "get the chain"

The Pump Quits

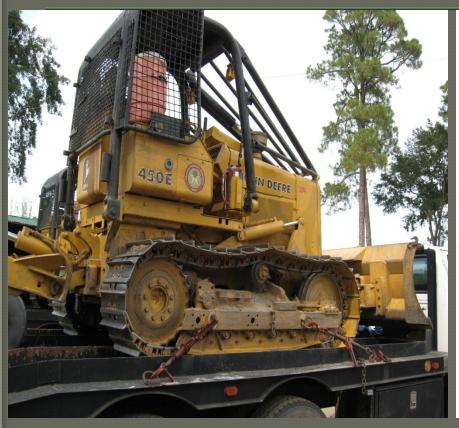
- As they become focused on putting out spots around and under the engine, the Tractor Plow tries to pull them out...the engine wont budge.
- The Tractor Plow begins pushing line around the engine
- While actively knocking down fire around and under the engine, the pump quits with 3/8 tank of water left

Reevaluate priorities

- Several attempts to restart the pump are unsuccessful
- The ENGB says "use the fire extinguisher"
- The extinguisher is used to attack surface fire under the truck
- As the fire situation deteriorates, the ENGB makes the call to walk out to the Safety Zone



•Don't assume that because a Dozer, Tractor Plow or other piece of equipment moves across a piece of ground with no problem, your Engine will be able to do the same.





Which one exerts more ground pressure?

- While the Tractor Plow weighs 17,300 pounds, it exhibits a ground pressure (down force measured in pounds per square inch) of only 4.3 pounds per square inch as compared to 34.5 pounds per square inch for the Engine which actually weighs less at 16,200 pounds.
- For comparison, a human standing on both feet exhibits approximately 8 pounds per square inch of ground pressure.

- If the pump dies in a stressful situation, the operator has to execute coordinated valve closures and a specific starting sequence.
- This process is generally learned from systematic, repeditive hands-on training which is usually not within the scope of a entry level firefighter's training.

- With multiple trucks that crews switch between, set up their compartments the same.
- Know where your tow chain is stored
- Know where your flammables are stored and be mindful of their location and proximity to flames or heat sources.
- Train on low frequency events (like pulling out the chain and hooking it up quickly)



- •Have a copy of your vehicle inventory at the home unit.
- •Have a copy of the vehicle maintenance records and inspection logs at the home unit.

- •On assignments away from your local area:
 - If you come upon a term or concept you are unfamiliar with, ask for clarification and ask to be shown exactly what is being described.



Active Learning

- Go outside and go over the equipment compartments on your trucks:
 - Are there differences between vehicles?
 - Where is your fire extinguisher, do you know how to use it?
- Practice start up procedures on your pump.
 - Can you quickly diagnose pump failure and properly restart under stressful conditions?
 - Example Procedures: 643U Pump Procedures

Further Learning

- Google Earth representation
 - Bowles Creek Bottom Fire kmz

- •5 question feedback form
 - Bowles Creek Bottom Fire LLR Feedback

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