



Yarnell Hill Fire

Serious Accident Investigation

Overview

General Vicinity Map for Yarnell Hill Fire

Yarnell Hill Fire:
West-central Arizona



Yarnell Hill Fire:
Yavapai County,
Northeast of Wickenburg,
And South of Prescott, AZ



Yarnell Hill Fire:
North and West of US Highway 89,
West of Yarnell, AZ, and Southwest
Of Peeples Valley, AZ



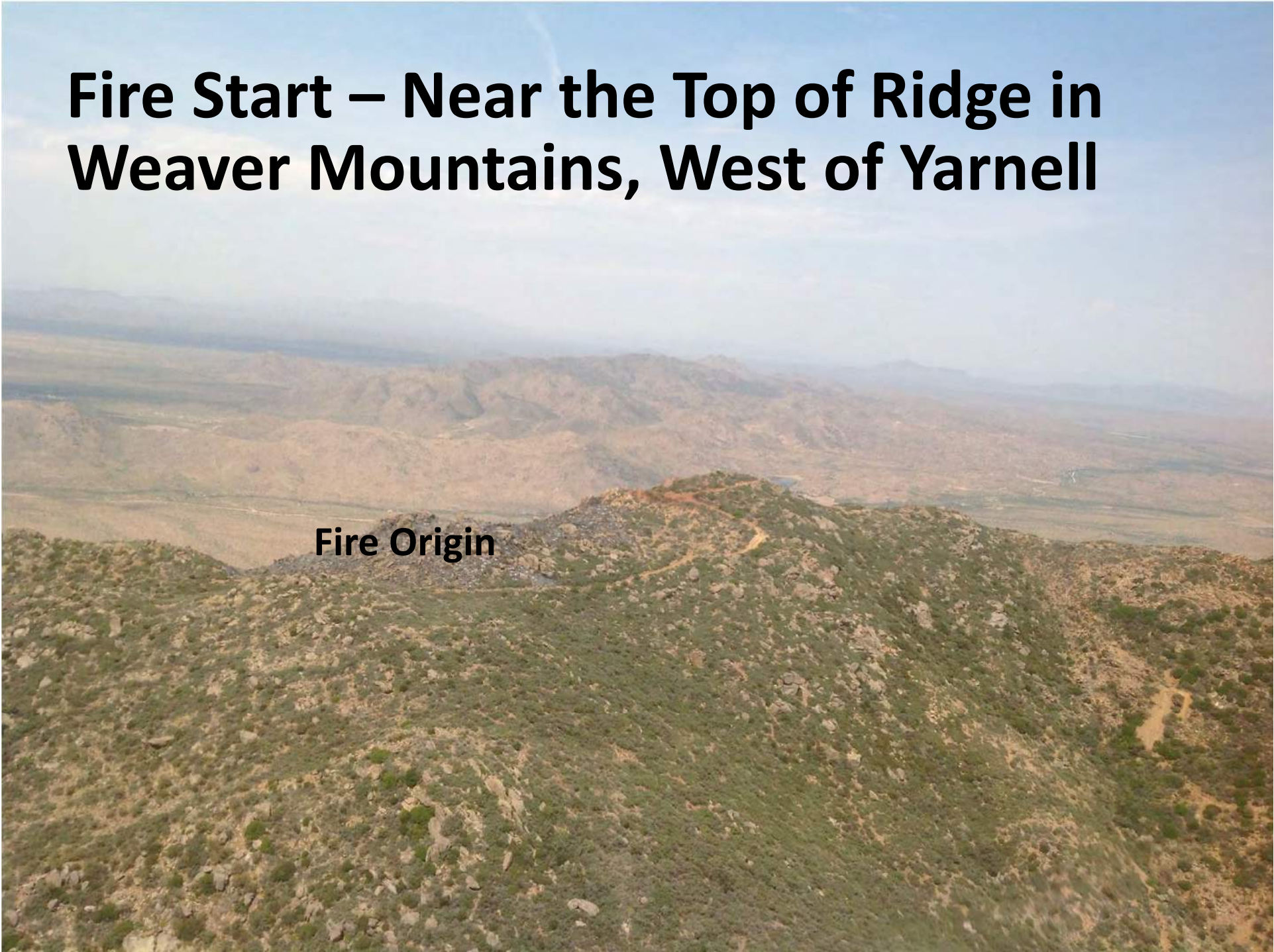
Yarnell Hill Fire

- Ignition date: June 28, 2013, 1700 hours
- Cause: lightning
- Location: Weaver Mountains west of Yarnell, AZ
- Time: June 28 – July 6, 2013
- Fire size, as of July 6: 7957 acres



Fire Start – Near the Top of Ridge in Weaver Mountains, West of Yarnell

Fire Origin

An aerial photograph of a mountain ridge in the Weaver Mountains, west of Yarnell. The ridge is covered in green and brown scrub vegetation. A yellow line, likely a trail or boundary, runs along the ridge. A small, dark, irregularly shaped area on the ridge is labeled "Fire Origin". The background shows a vast, hazy landscape with rolling hills and valleys under a clear blue sky.

Yarnell, Arizona





Yarnell Hill Fire Area Pre-Fire Fuels

Yarnell Hill Fire Area, Pre-Fire Fuels



Yarnell Hill Fire - Land Ownership Map



June 29th, 2013 AM Estimate

Approximate Size: 11 acres

Estimated Perimeter
 June 29th, 2013 AM

Map Produced by Ben Bunker

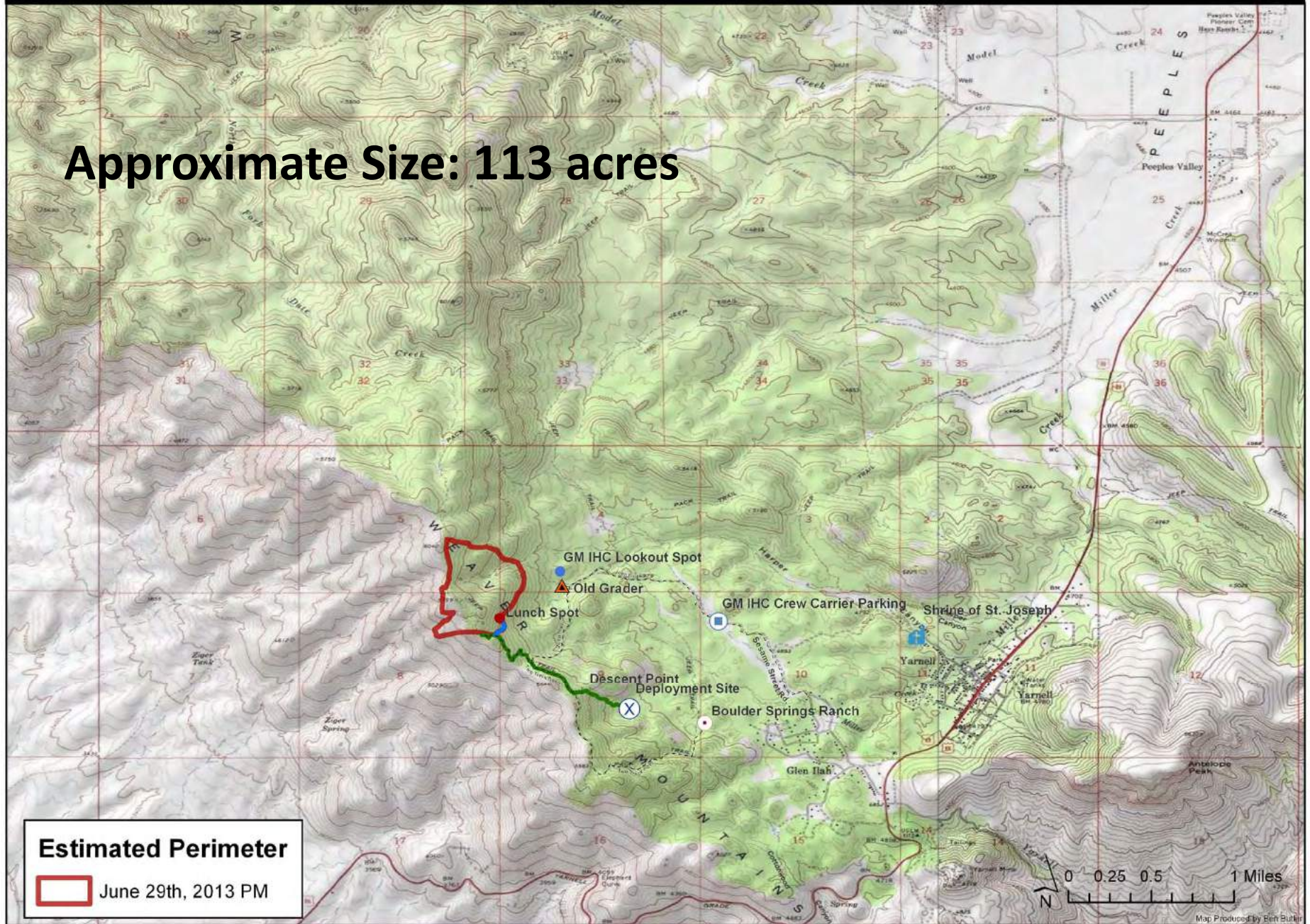
June 29th, 2013 AM

Map Produced by Ben Butler

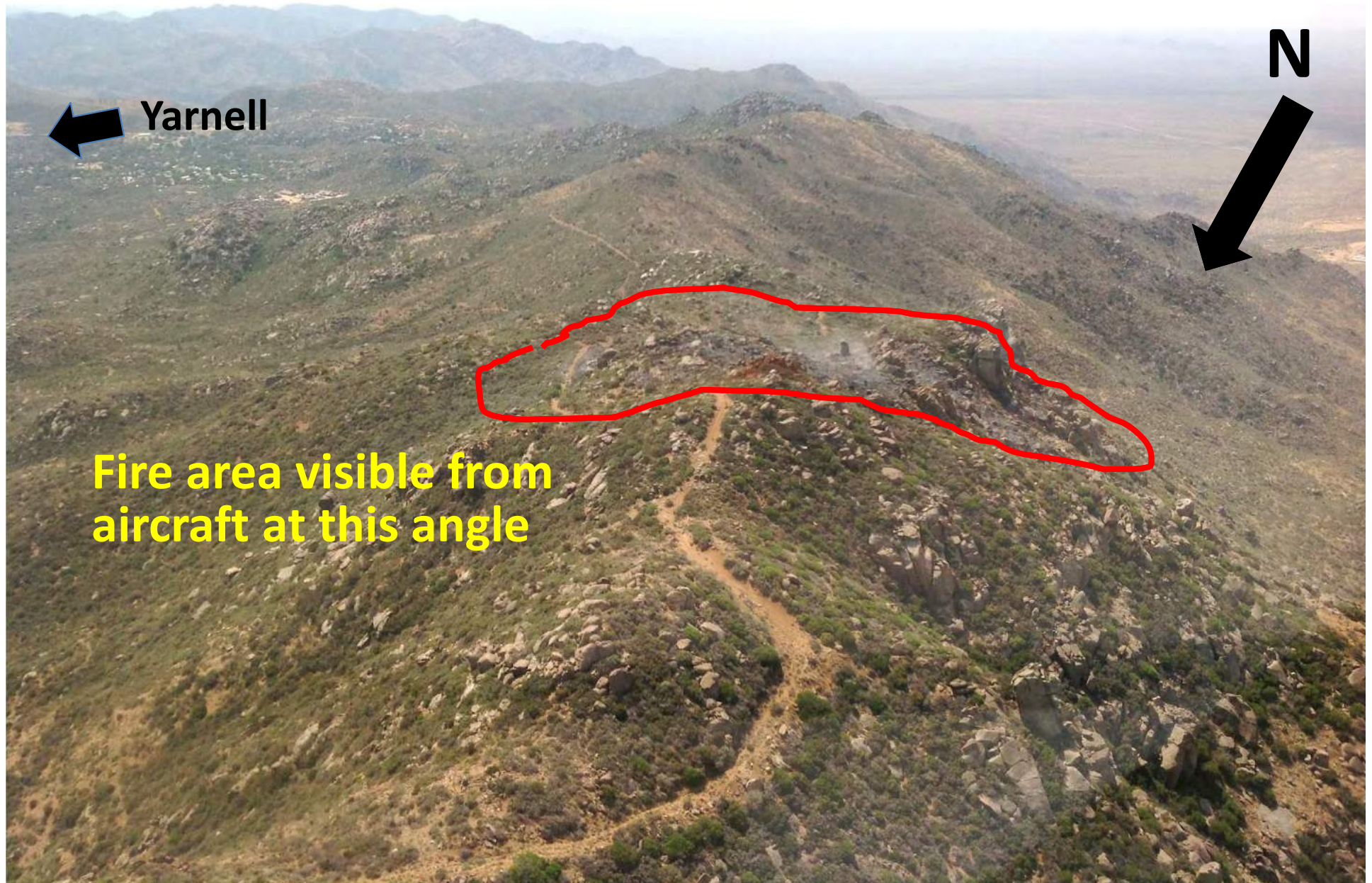
Yarnell Hill Fire Estimated Perimeter

June 29th, 2013 PM Estimate

Approximate Size: 113 acres



Yarnell Hill Fire Area, early morning June 29, 2013



Yarnell

N

Fire area visible from
aircraft at this angle

Yarnell Hill Fire Area, evening June 29, 2013

Peeples Valley

Yarnell

Fire Origin

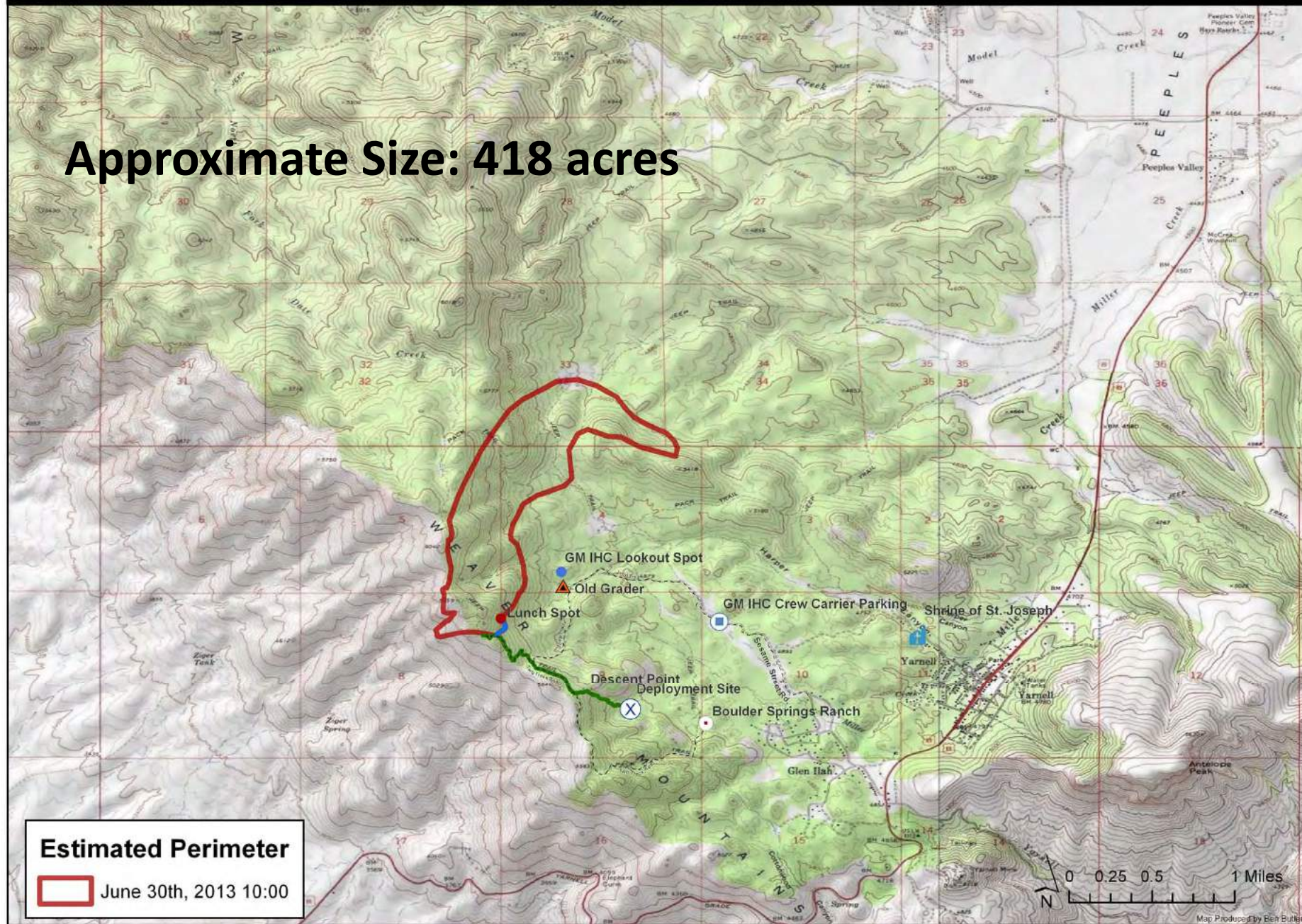
N



Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 10:00 Estimate

Approximate Size: 418 acres



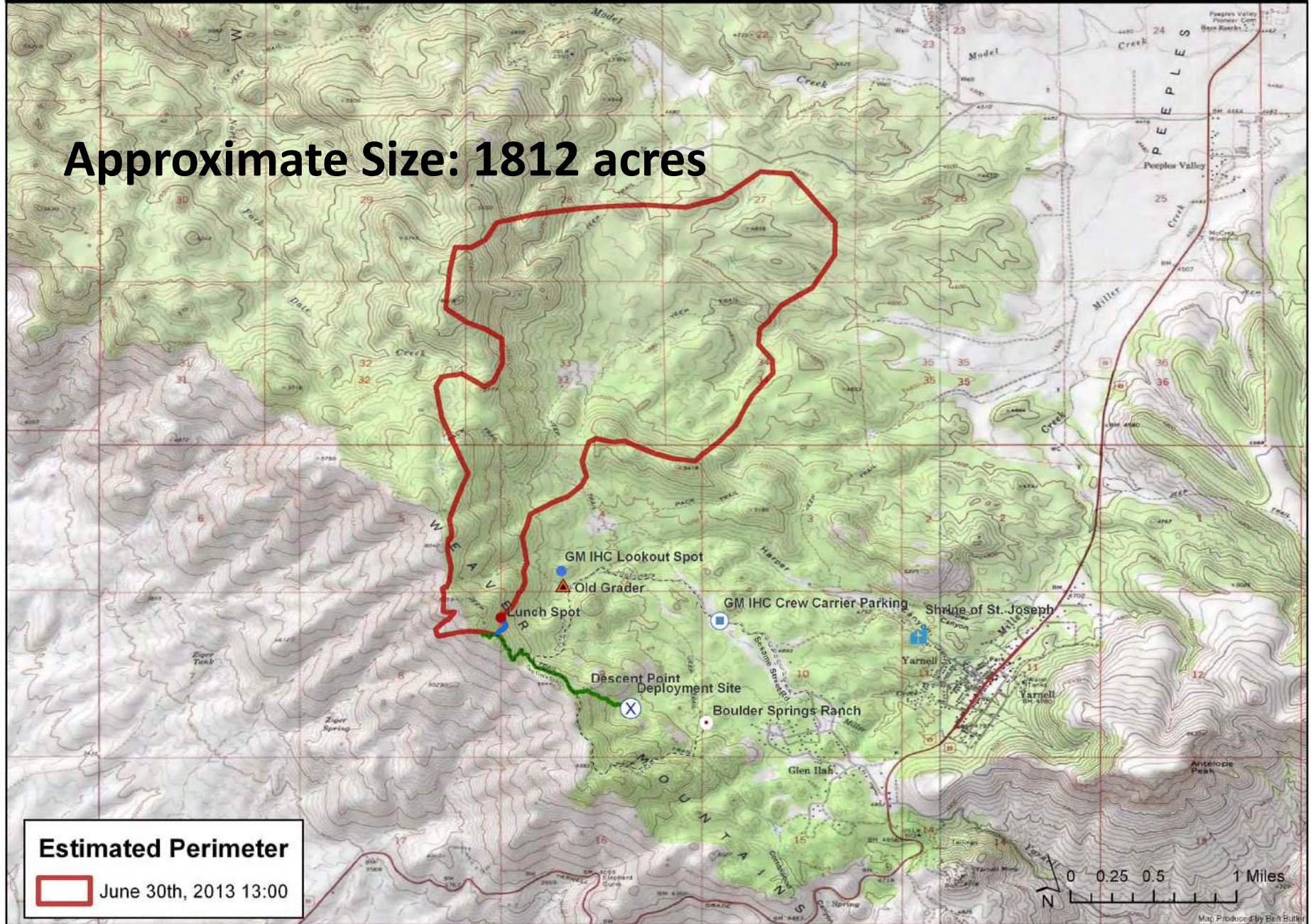
**Retardant line application,
Morning – June 30th**



Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 13:00 Estimate

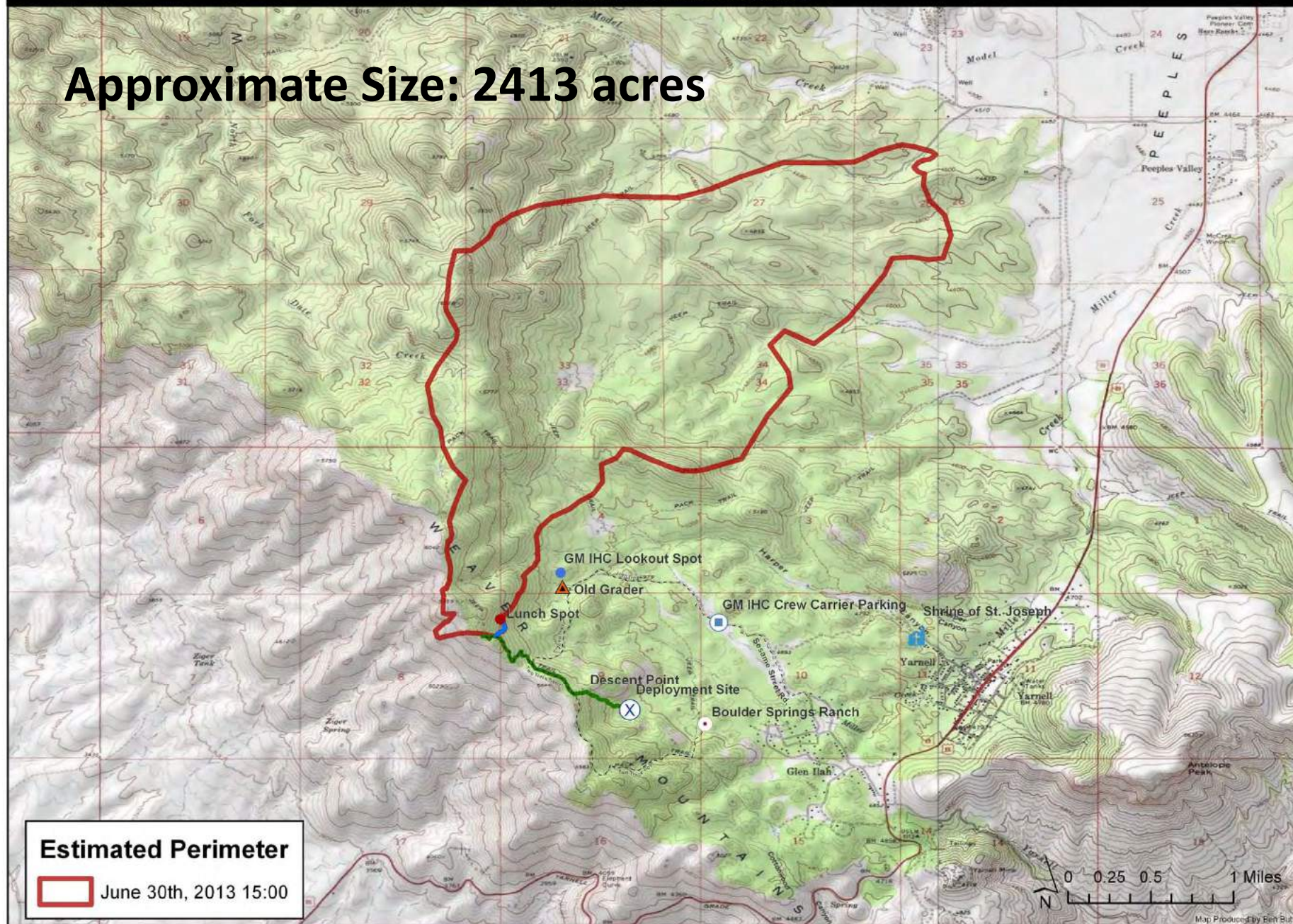
Approximate Size: 1812 acres



Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 15:00 Estimate

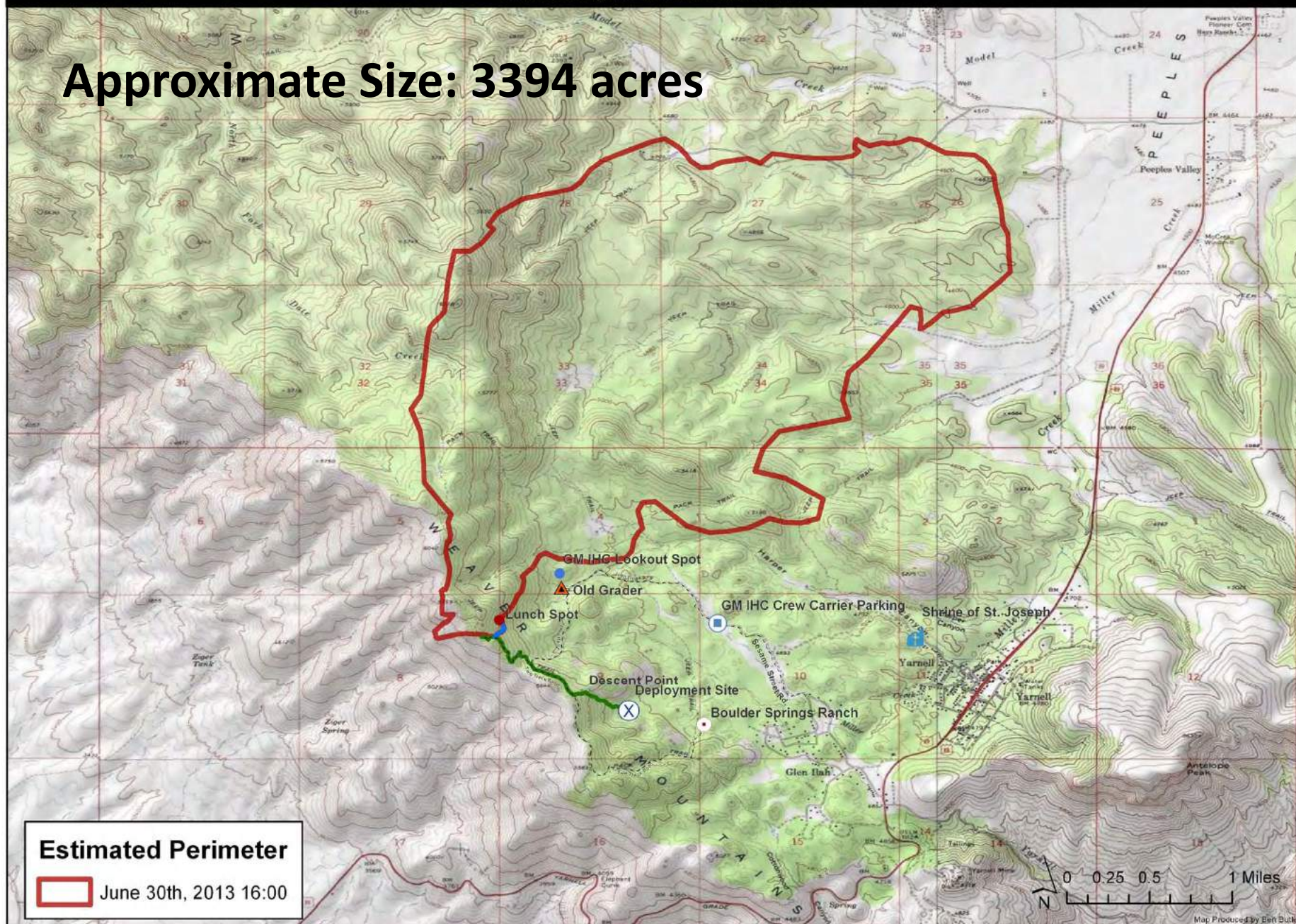
Approximate Size: 2413 acres



Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 16:00 Estimate

Approximate Size: 3394 acres



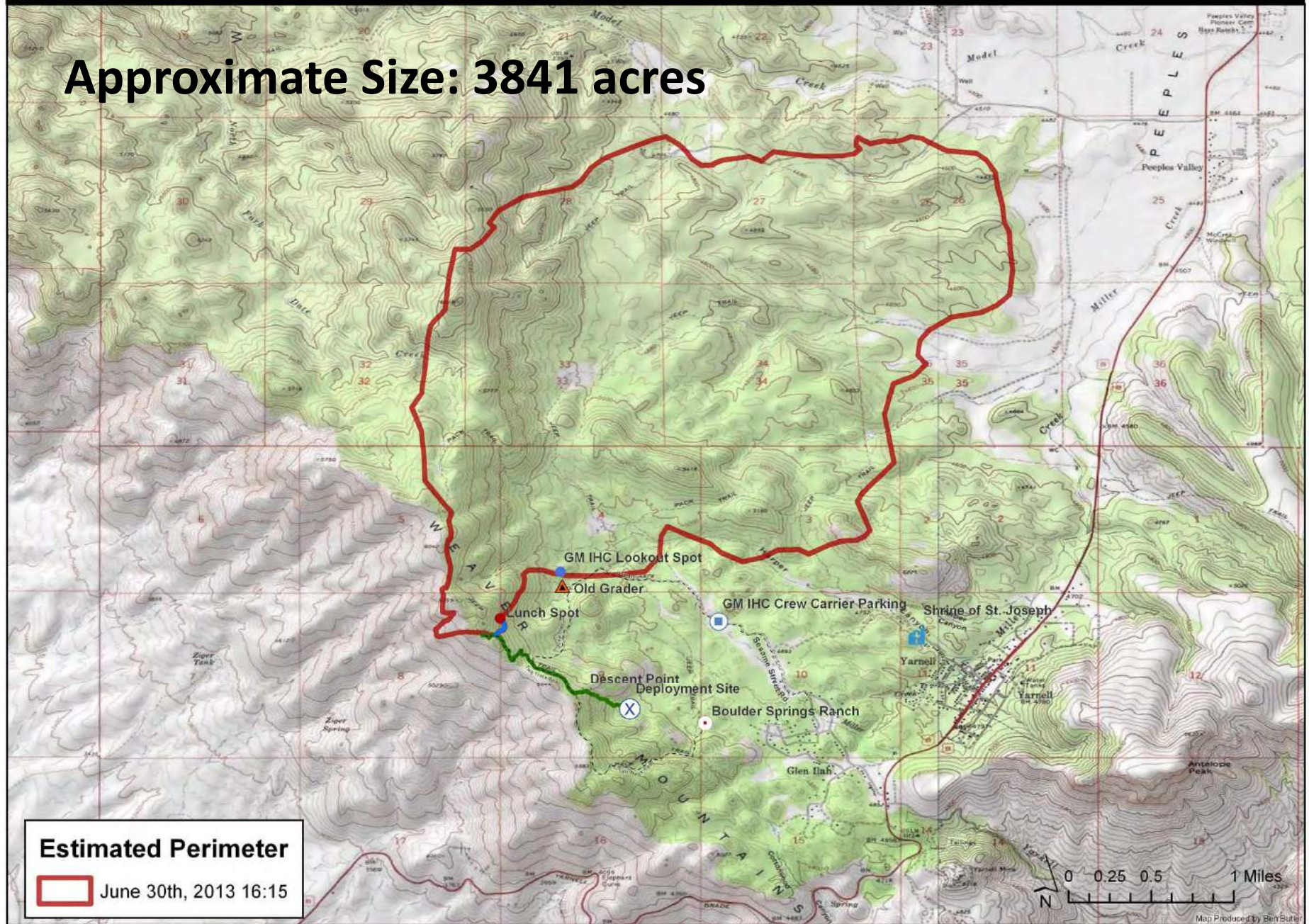
Flaming front visible from highway 89



Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 16:15 Estimate

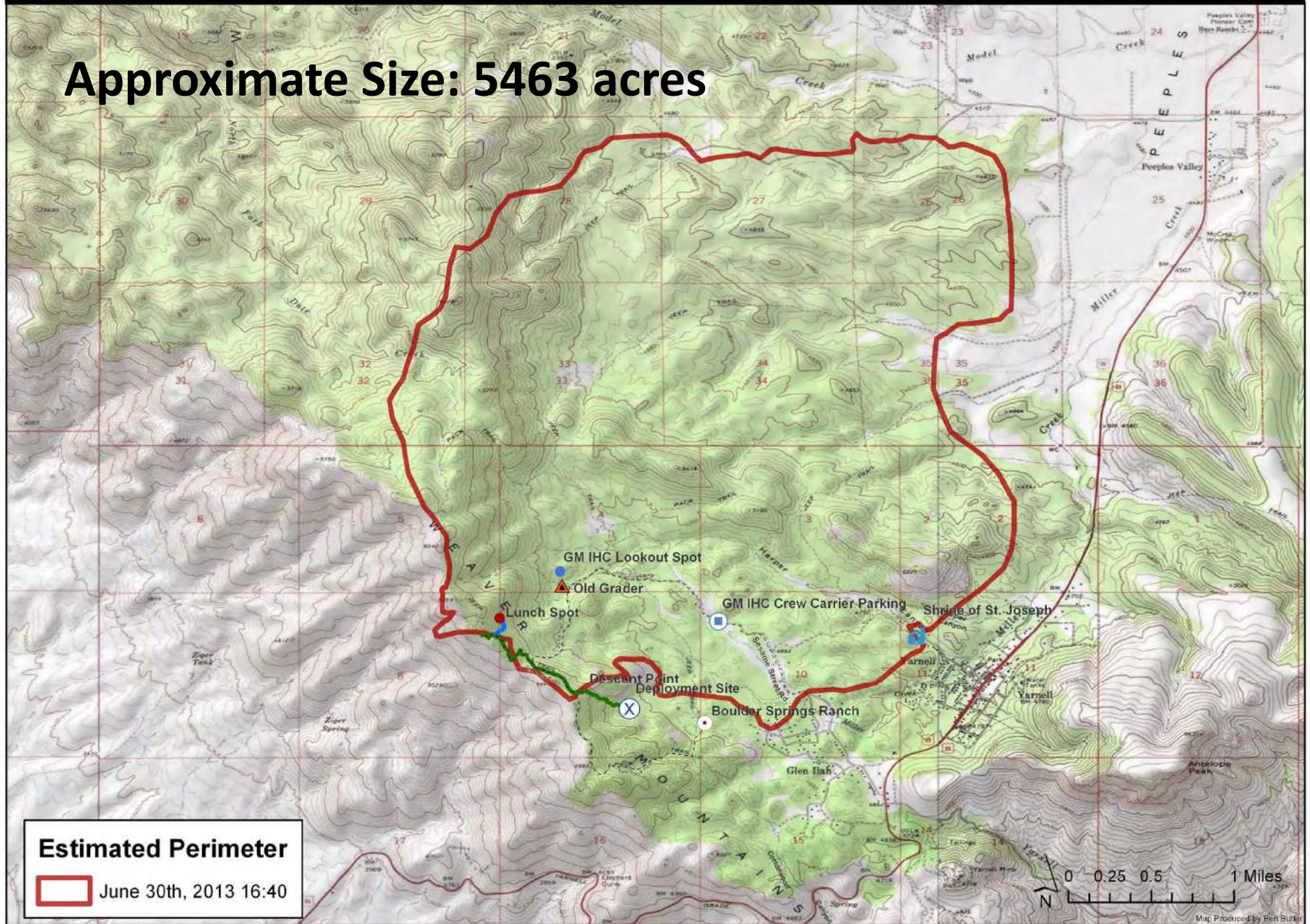
Approximate Size: 3841 acres



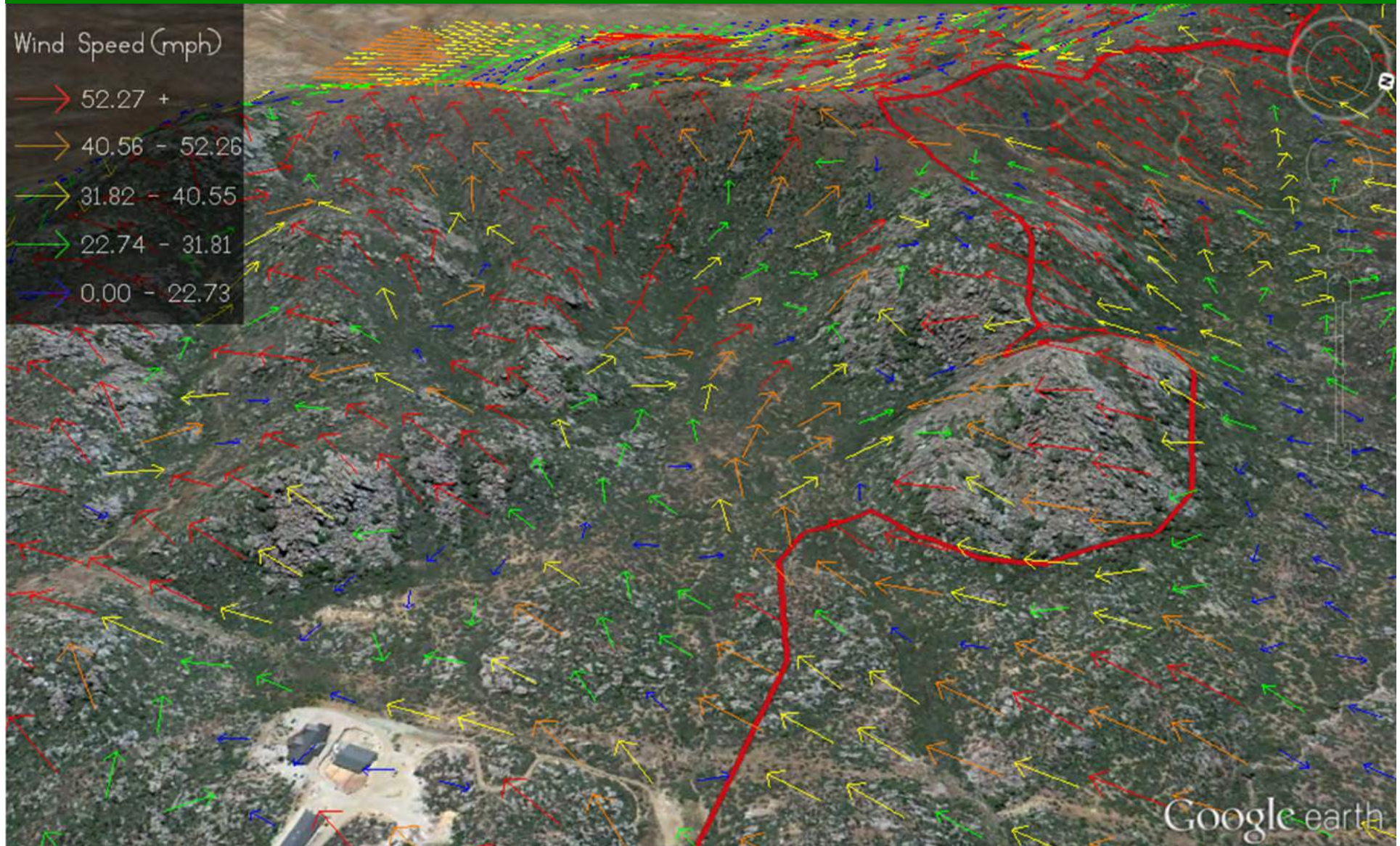
Yarnell Hill Fire Estimated Perimeter

June 30th, 2013 16:40 Estimate

Approximate Size: 5463 acres



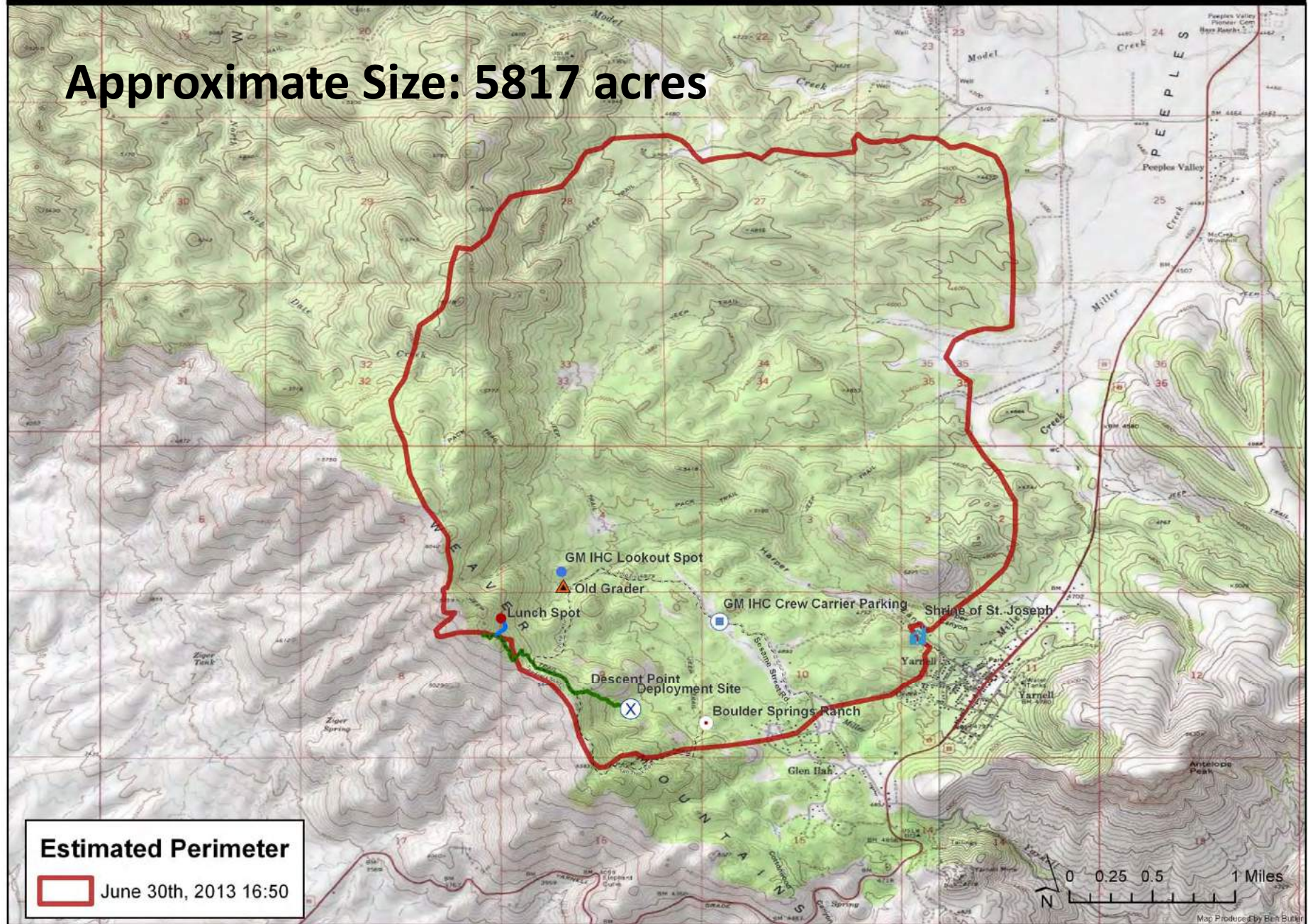
Modeled Winds at 1640 Near the Deployment Site (modeled through Wind Wizard program)



Yarnell Hill Fire Estimated Perimeter

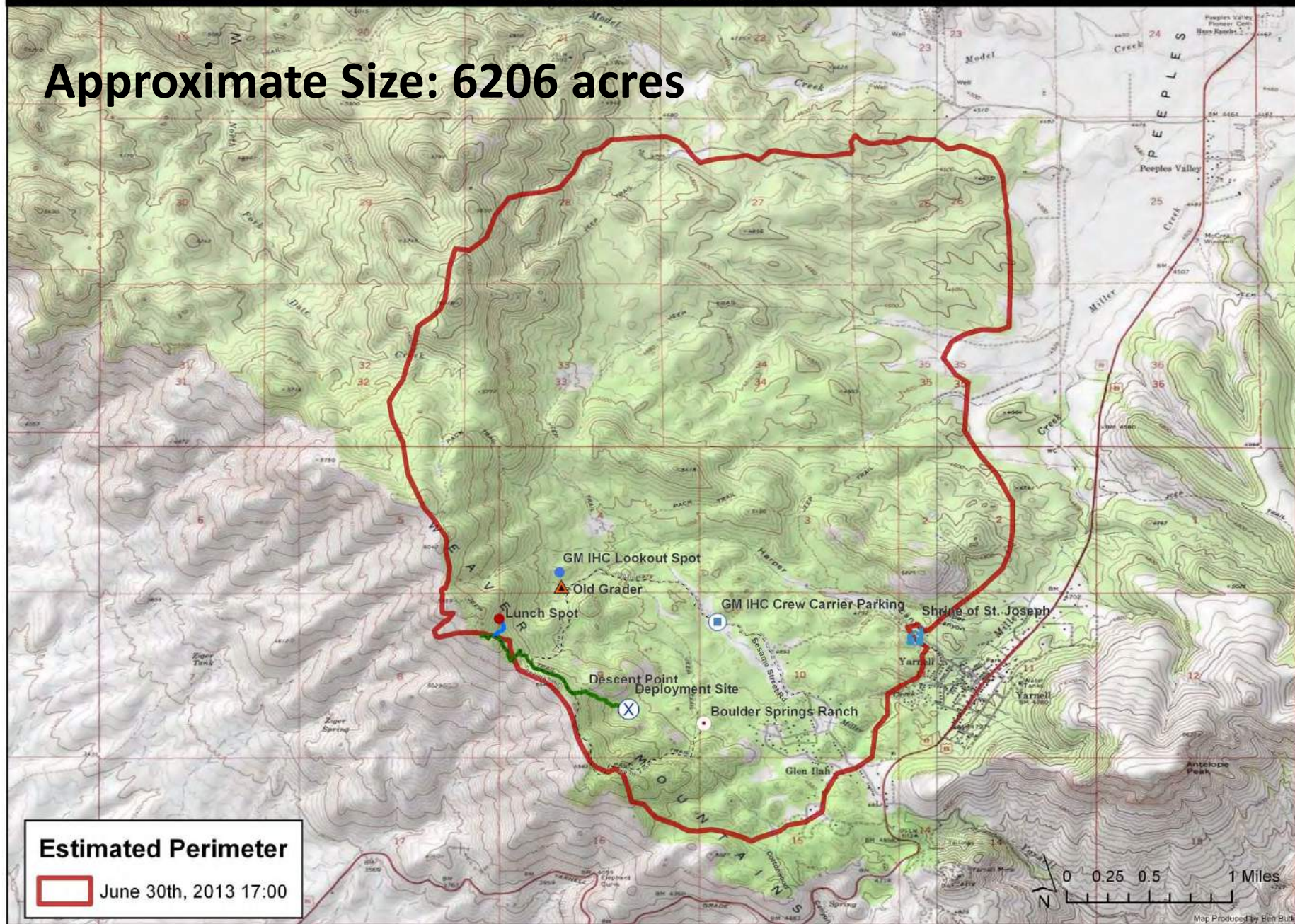
June 30th, 2013 16:50 Estimate

Approximate Size: 5817 acres



June 30th, 2013 17:00 Estimate

Approximate Size: 6206 acres



Granite Mountain IHC:
approximate route of movement
from 1604 – 1620 (exact time and
route unknown) Distance from lunch
spot to descent point = 0.95 miles

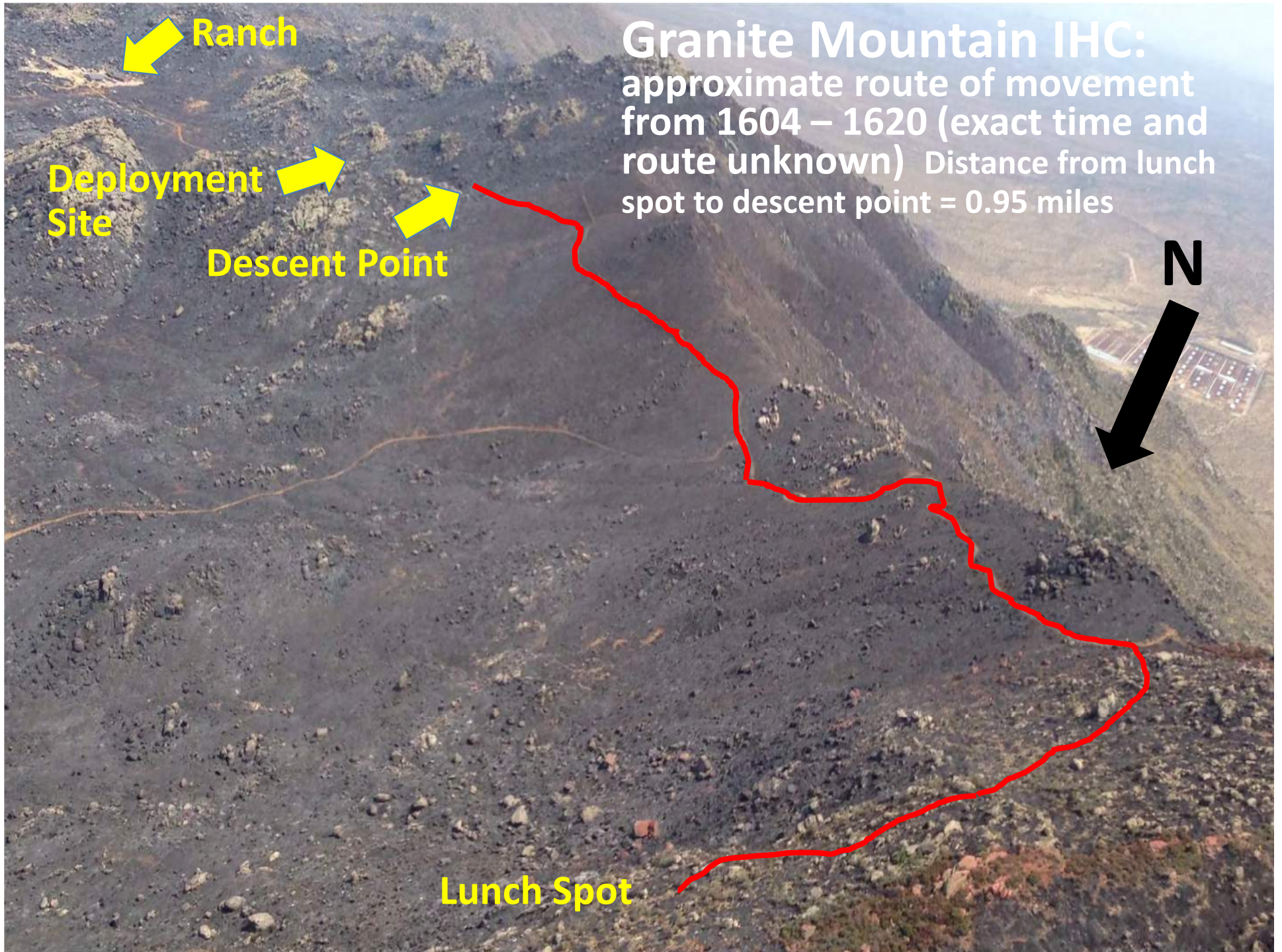
Ranch

**Deployment
Site**

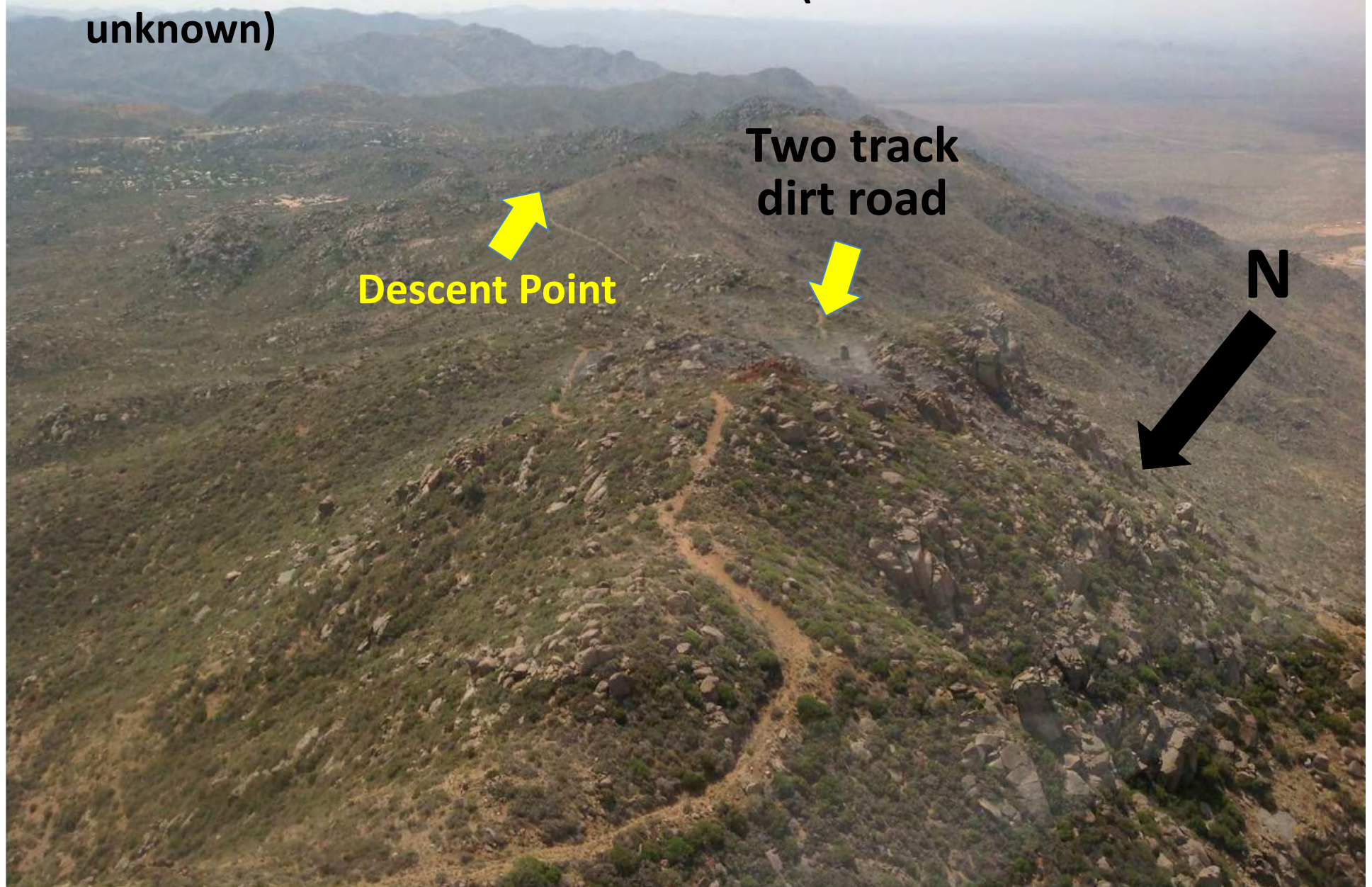
Descent Point

Lunch Spot

N



Granite Mountain IHC: Pre-fire fuels along approximate route of movement from 1604 – 1620 (exact time and route unknown)



Granite Mountain IHC: Pre-fire fuels along approximate route of movement from 1604 – 1620 (exact time and route unknown)



Descent Point

**Two track
dirt road**

Granite Mountain IHC: Post-fire view of Boulder Springs Ranch and direct route approximately from descent point (exact time and route unknown)

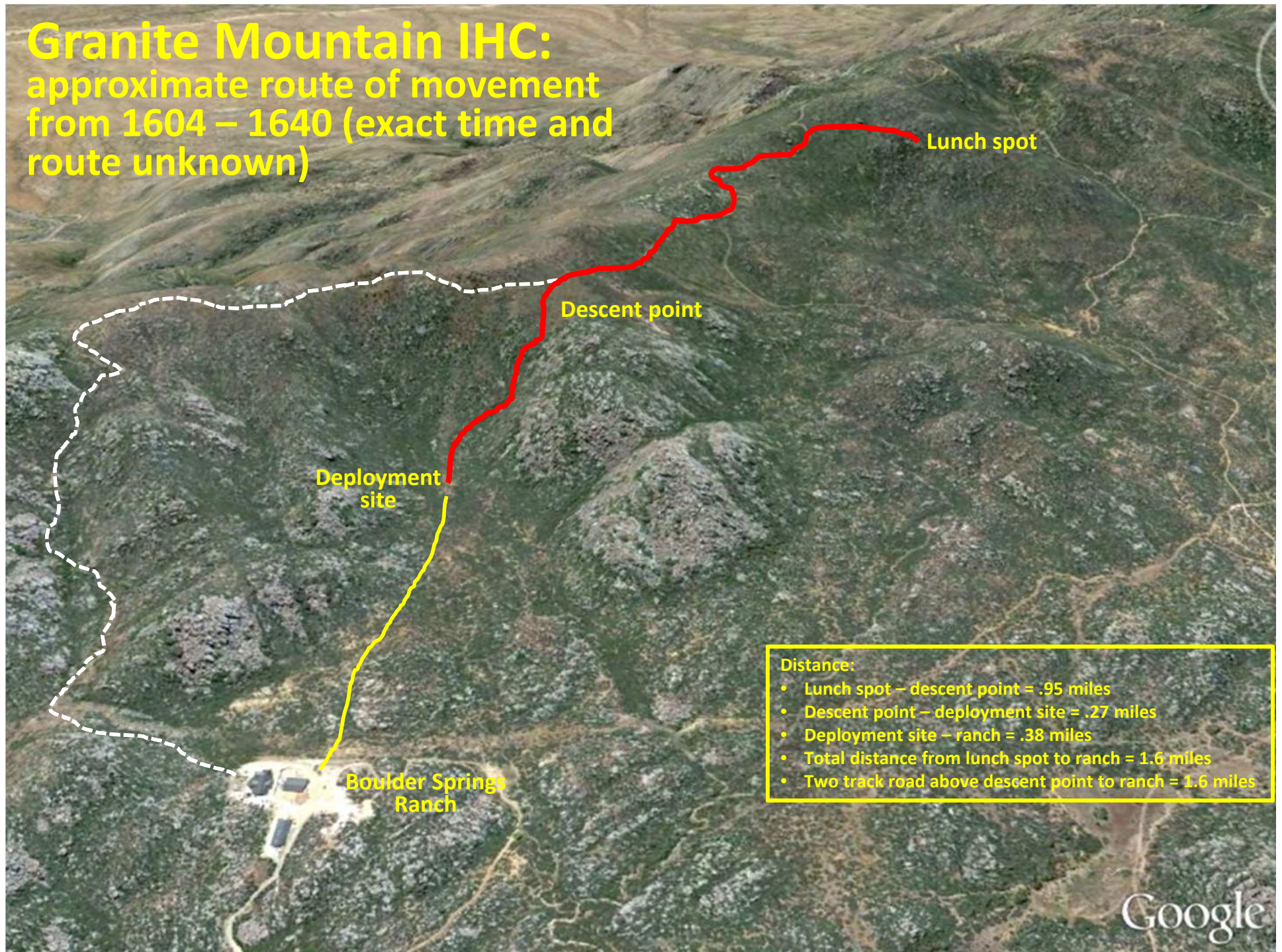


Granite Mountain IHC: approximate route of movement from 1620 - 1640 (exact time and route unknown)

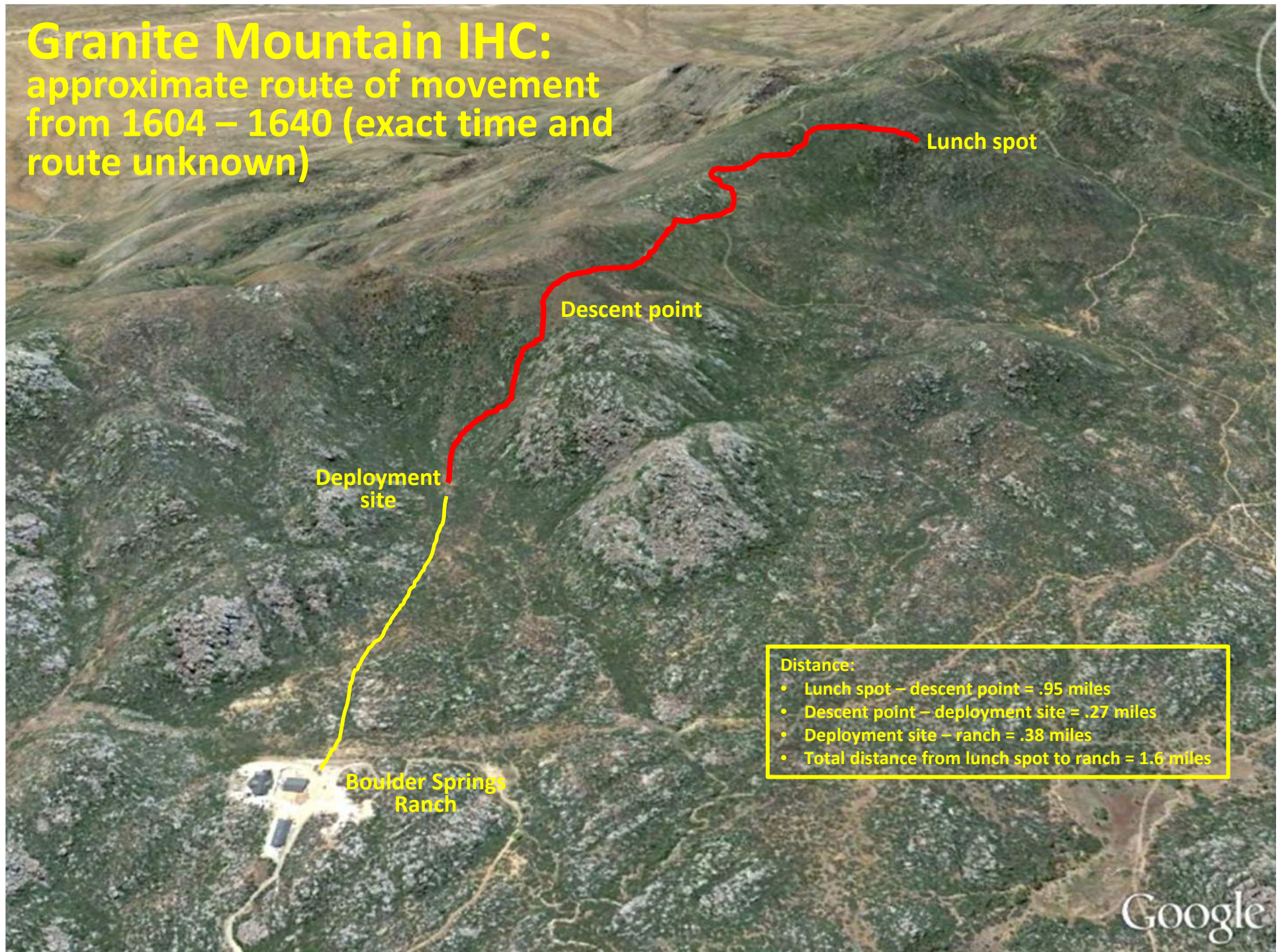
Distance from descent point to deployment site = 0.27 miles



Granite Mountain IHC: approximate route of movement from 1604 – 1640 (exact time and route unknown)



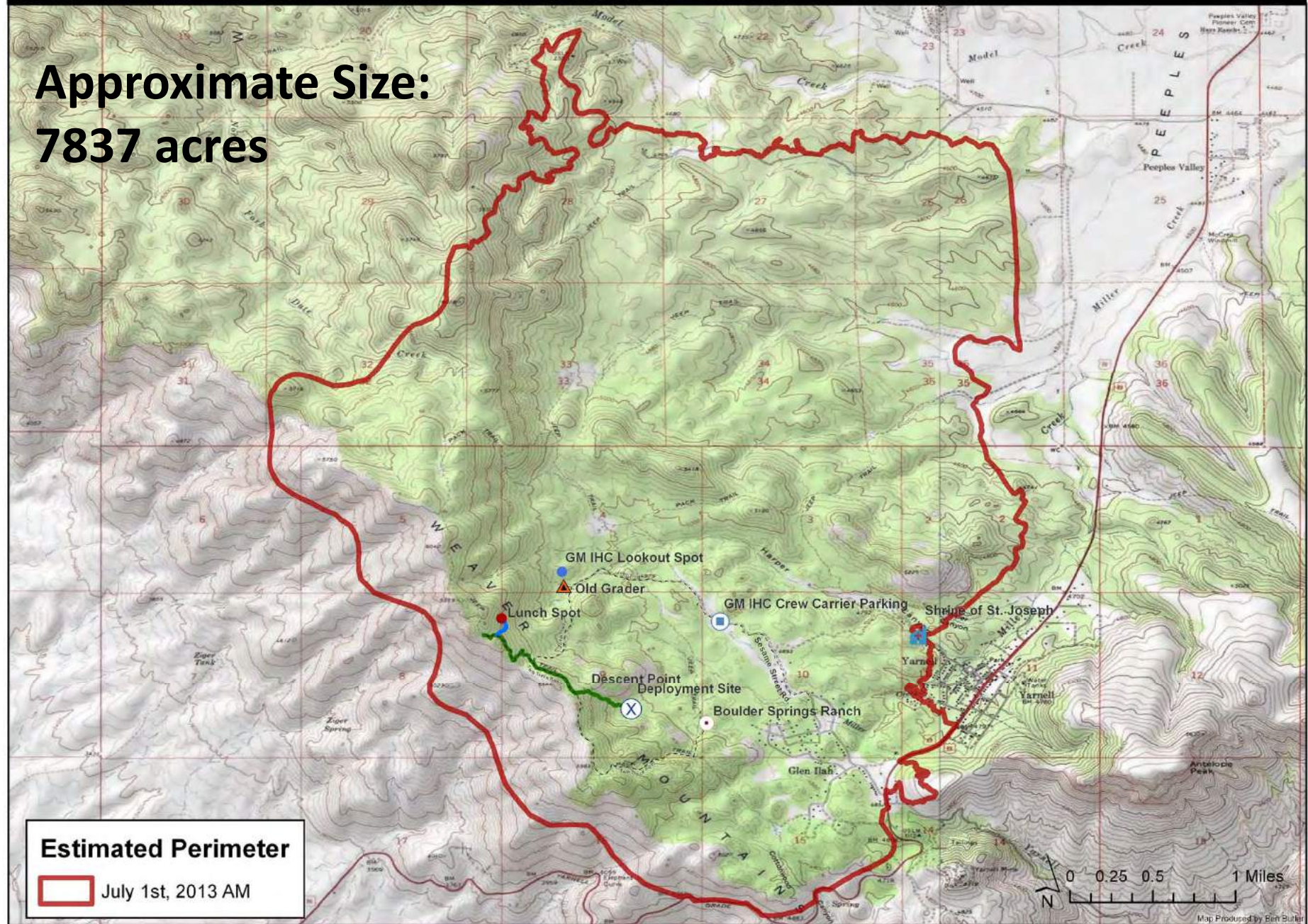
Granite Mountain IHC: approximate route of movement from 1604 – 1640 (exact time and route unknown)



Yarnell Hill Fire Estimated Perimeter

July 1st, 2013 AM Estimate

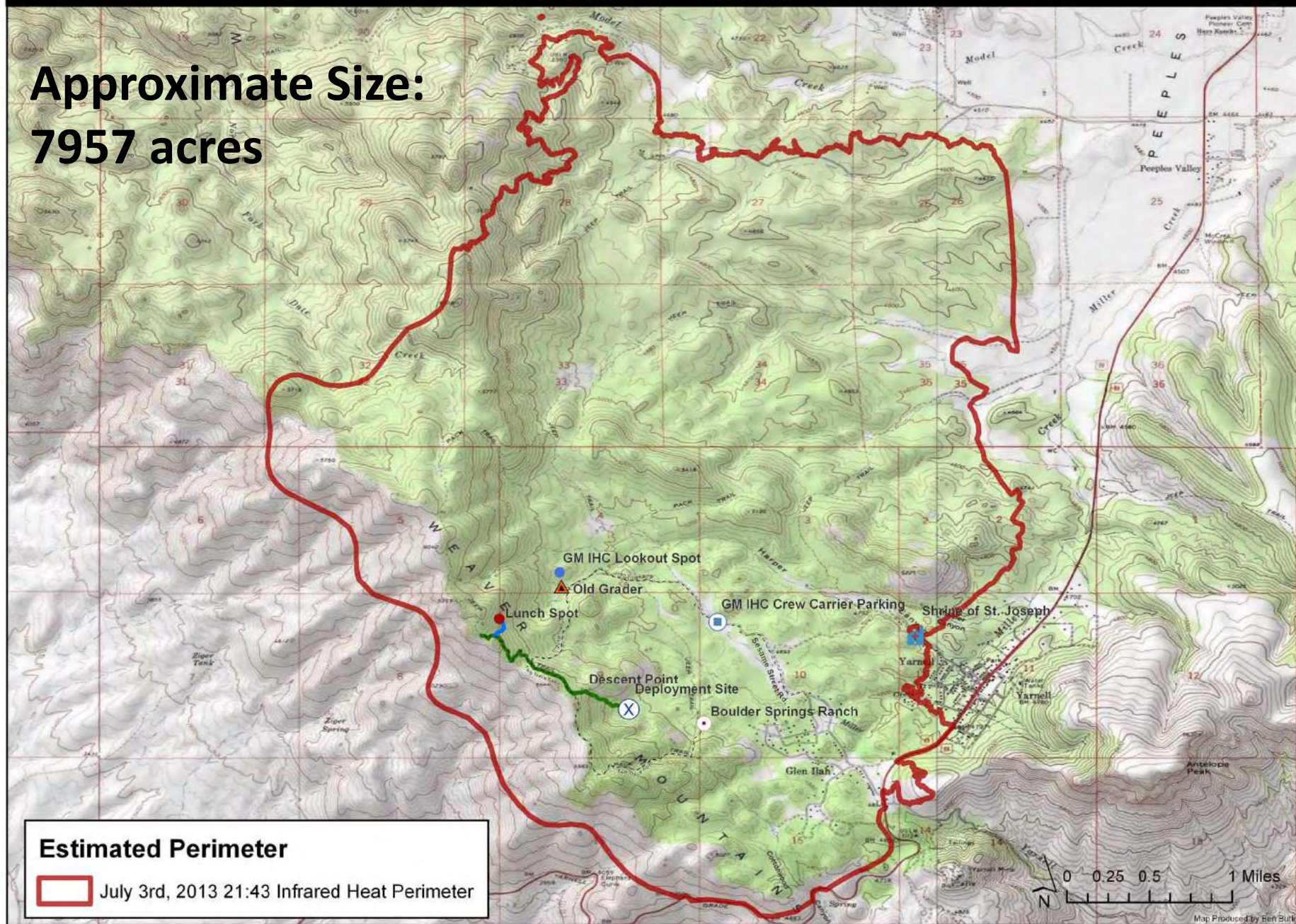
**Approximate Size:
7837 acres**



Yarnell Hill Fire Estimated Perimeter

July 3rd, 2013 21:43 Estimate

**Approximate Size:
7957 acres**



Yarnell Hill Fire Estimated Fire Progression

June 29th, 2013 - July, 1st, 2013

