# ELR LOCATION SCOUTING
# &
# TARGET SETTING TIPS

# ELR LOCATION IDENTIFICATION

**Source the location**

- Friends input / referrals
- Shooting in the area
- Driving the Area

**Programs to confirm Source**

- Garmin BaseCamp
- State Hunt maps for computers
- Google Earth

**Field Tools**

- Hand Held GPS with color display
  - State Hunt Maps installed
- High End PLRF with low beam divergence
- Trimble Nomad with DGPS
- FFS (Field Firing Solutions) program with programmable DGPS FFP
- Trimble iPad app with Hunt Maps subscription
- Do NOT rely on devices that need cell service!!!!!

**Location assets**

- No or low vegetation in target areas to promote spotting misses
- No or low vegetation in shooting areas to allow for line of sight when shooting prone
- No heavily rocky areas (can hide misses)
- Need jeep trails to target – Ideally close to shooter location

**Ideal Areas**

- Something that promotes a good shooting AD
- BLM or National Forest – must be in both shooter and target locations

**Geographic features**

- Dry lakebeds or areas called Sinks (careful driving on them)
- Prefer flat with some hills (but Sat imagery misleadingly looks flat & pure flat like the middle of a sink = no-go
  - For Back stops
  - For PLRF returns
  - To overcome rolling rises that can obscure the target once prone
  - Can help with Mirage
- Flat to Peak
  - For me works better than Peak to Flat in the angles are high. The rifle butt doesn't have to be supported very high and long as the bipod can adjust up enough (or be supported higher)
  - Flat to Peak seems (antidotal) that mirage is less
  - Setting targets can be harder and vegetation can spoil misses
- Peak to Flat
  - Peak to Flat is almost always easier to set up.. And shooters can pack up hills easier than targets and cam
- Peak to Peak
  - Best to reduce Mirage
  - Harder to read wind
  - Setting targets can be harder and vegetation can spoil misses
  - Harder to reduce or increase distances
  - Can be hours to go from one peak to the next

# ELR LOCATION SELECTION

## Prequalification of location

### 2 - Preview general area in Basecamp w/ State hunt Maps

- 2A in a wide search look for Yellow BLM land
- 2B Check County restrictions and congested zones for the selected area
- 2C Zoom in to revel land features and jeep trails on BLM Land

### 3 – Find access points to selected BLM land

- 3A Zoom out and follow trails to freeways
- 3B Zoom back in to look for access points – If access looks good proceed to next step

### 4 – Scale and view Details

- 4A Scale features in Basecamp to match to Google Earth – add pin location pins (these will show in Google Earth)
- 4B Select view are from Basecamp in "Google Earth"
- 4C Zoom in Google Earth and view details looking for housing, trails land features etc.
- 4D Zoom in in Google Earth @ the entrance looking for gates etc

### 5 – Create overlays to check position and land features

- 5A Output or screen capture the images from Google Earth and BaseCamp, (same areas and same relative scale). Using a photo editing program overlay the BaseCamp BLM over the Google Sat imagery. Lower the opacity on the top BLM layer to easily revel roads and land features is the satellite imagery. Scale the top BLM layer to match the roads and land feature on both.
- 5B Mark map in BaseCamp with rough GPS points of prospect location for FFP and FTP and download to GPS with the State Hunt maps installed

## On Site Visit

### 6 – Range Targets From FFPs

- 6A Range targets with PLRF from possible FFPs. Make sure to range with same line of site as if shooting ie. prone. The line of site most be clear below, to the sides of the target and the backstop visible. Check the location on the Hand help GPS with Hunt maps to ensure FFP is on BLM land. Mark the FFP location with GPS

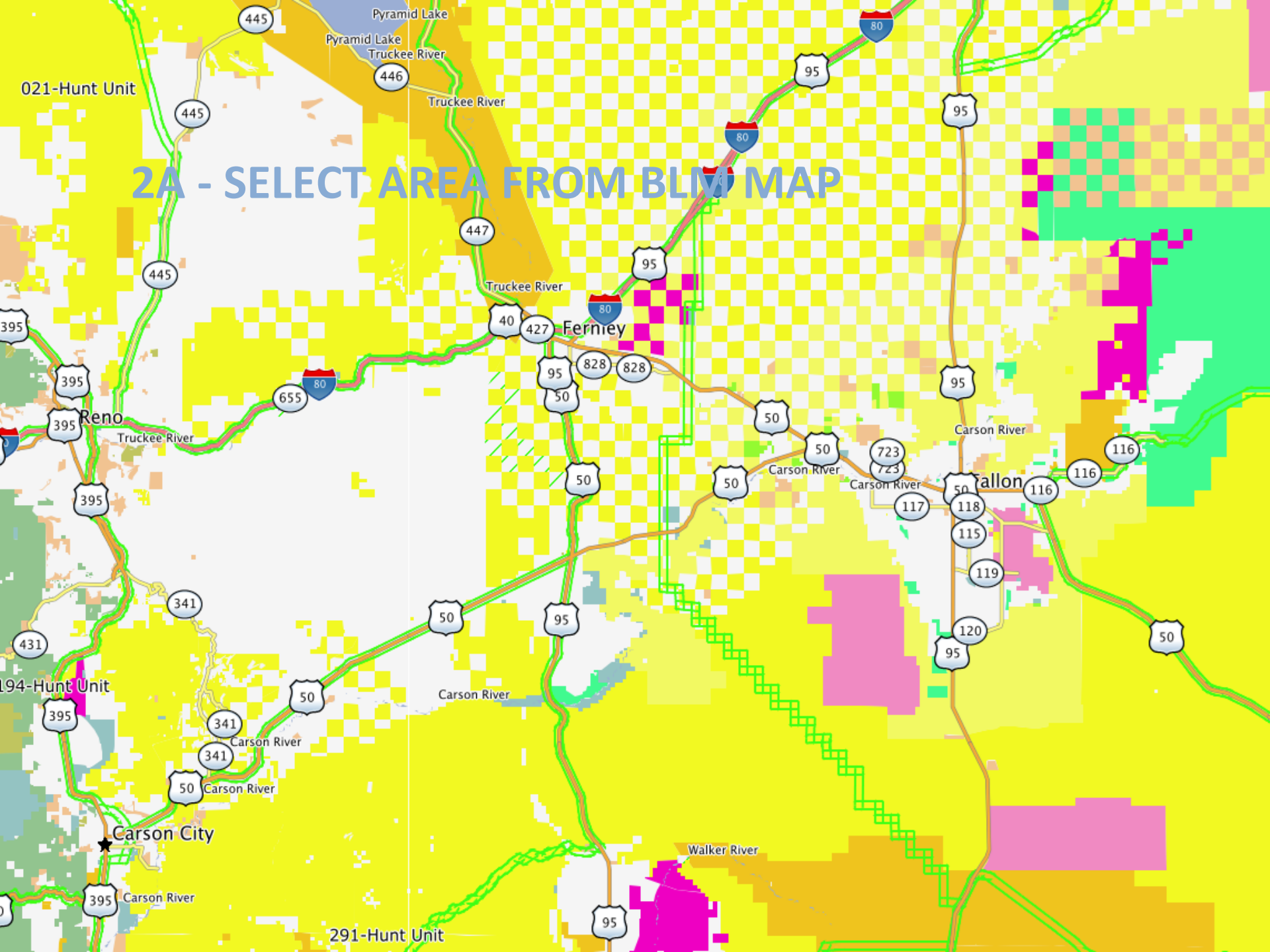
### 7 – Setting the Targets and shooting

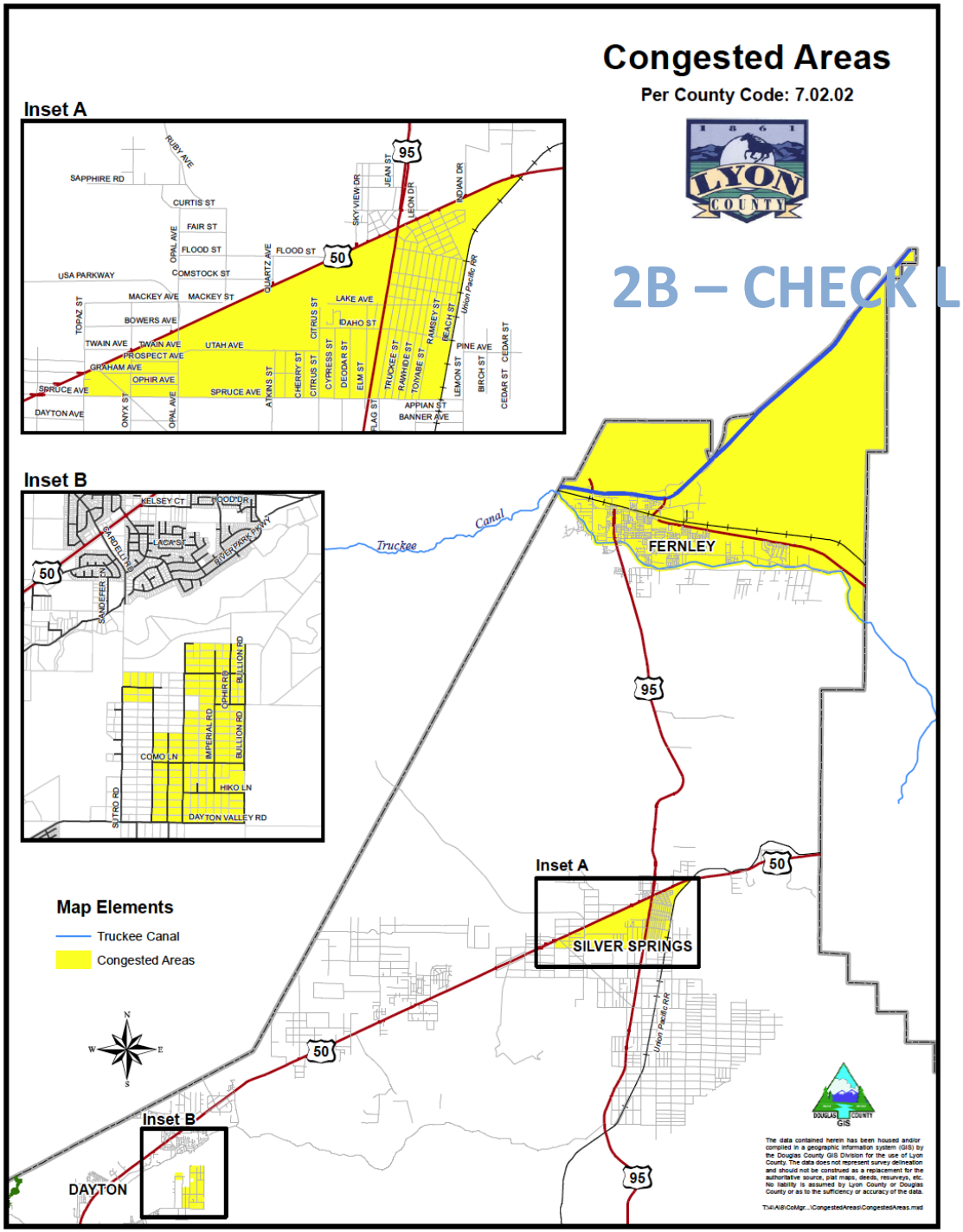
- 7A Set the face of the target to be square with the FFP. Having another person or vehicle back at the FFP for reference helps. Mark the Target location with both the DGPS and Handheld GPS. Use a shovel to dig back legs into hills to level and small leg extensions in the front (low side of the hill) to level the target stand.
- 7B Return to the FFP. Mark the FFP with both the DGPS and Handheld GPS.
- 7C DOUBLE CHECK THE DISTANCE from DPGS against the PLRF. (edited to add – ranging a small object via a reticle at this range in NOT reliable!). Run the dope solution via the marked FFP in FFS (Field Firing Solution)

### 8 – Post shooting

- 8A Transfer actual Handheld weigh points and driving routs back to BaseCamp for future reference.
- 8B From BaseCamp select "View>View Selected Data in Google Earth" if you wish to have you Data displayed over the actual Satellite imagery.

**DO NOT SKIP STEPS FOR BEST RESULTS**


2A - SELECT AREA FROM BLM MAP
021-Hunt Unit
Pyramid Lake
Pyramid Lake
Truckee River
Truckee River
Truckee River
Truckee River
Truckee River
Ferniey
Reno
Truckee River
Carson River
Carson River
Carson River
Carson River
Carson River
Carson City
Carson River
Walker River
291-Hunt Unit
194-Hunt Unit
445
446
447
427
40
80
95
395
655
828
50
341
431
723
116
117
118
115
119
120




# 2B – CHECK LOCAL RESTRICTIONS

Nevada Counties That **DO NOT Prohibit Shooting at Night or Spotlighting** in the Unincorporated Areas of the County:

**-Churchill County – actual site OK**

-Lyon County (see section 7.02.02 - Discharge of weapons in congested area)

-Humbodlt County

-Douglas County (see 9.68.030 Discharge of Firearms)

-Mineral County

-Nye County (see section 9.16.010 Discharge Prohibited)

-Esmeralda County (must be at least one mile away from an occupied residence)

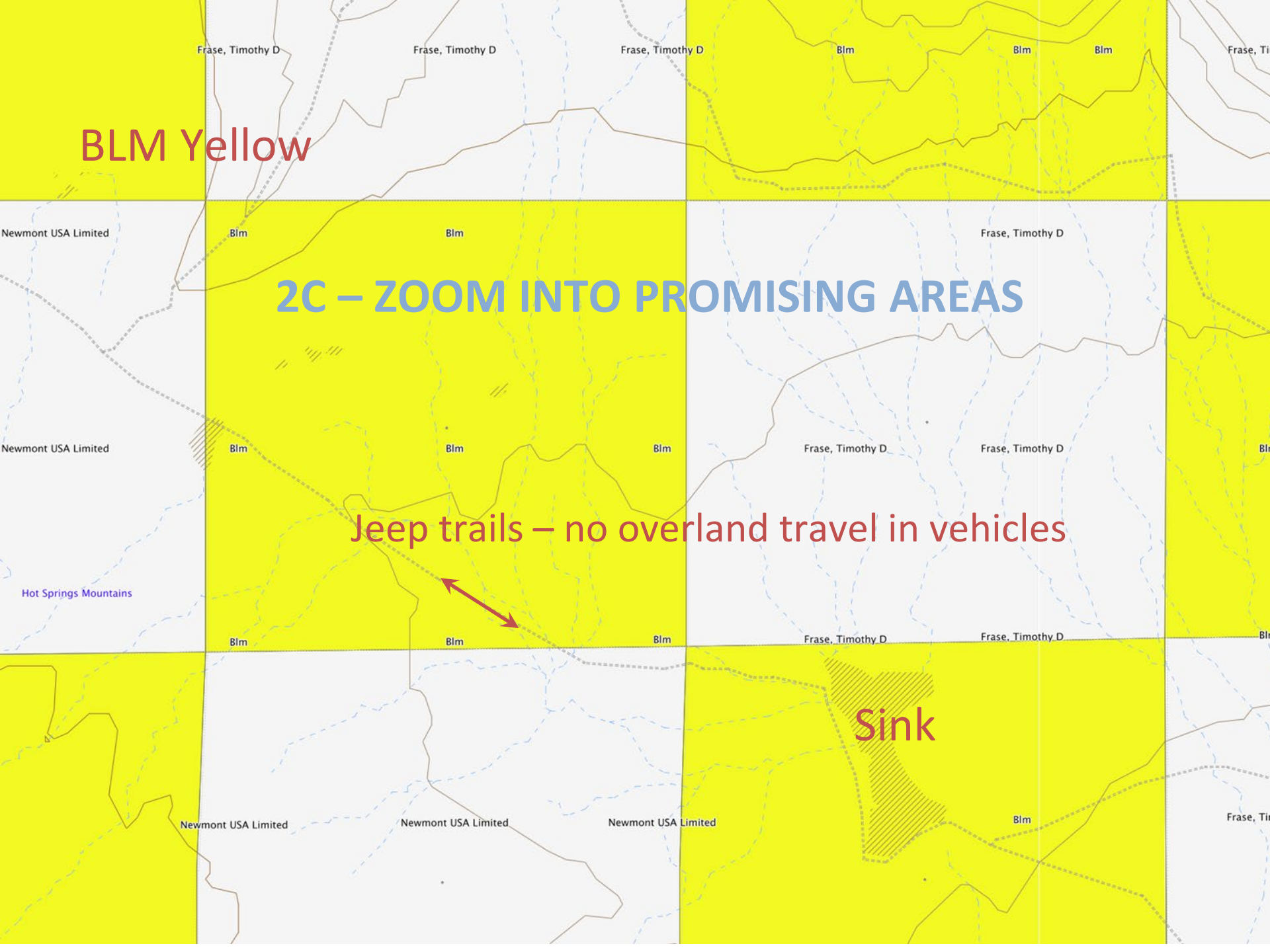
-Carson City County ( see chapter 8.12 Firearms and 8.12.010 - Discharge of Firearms unlawful)

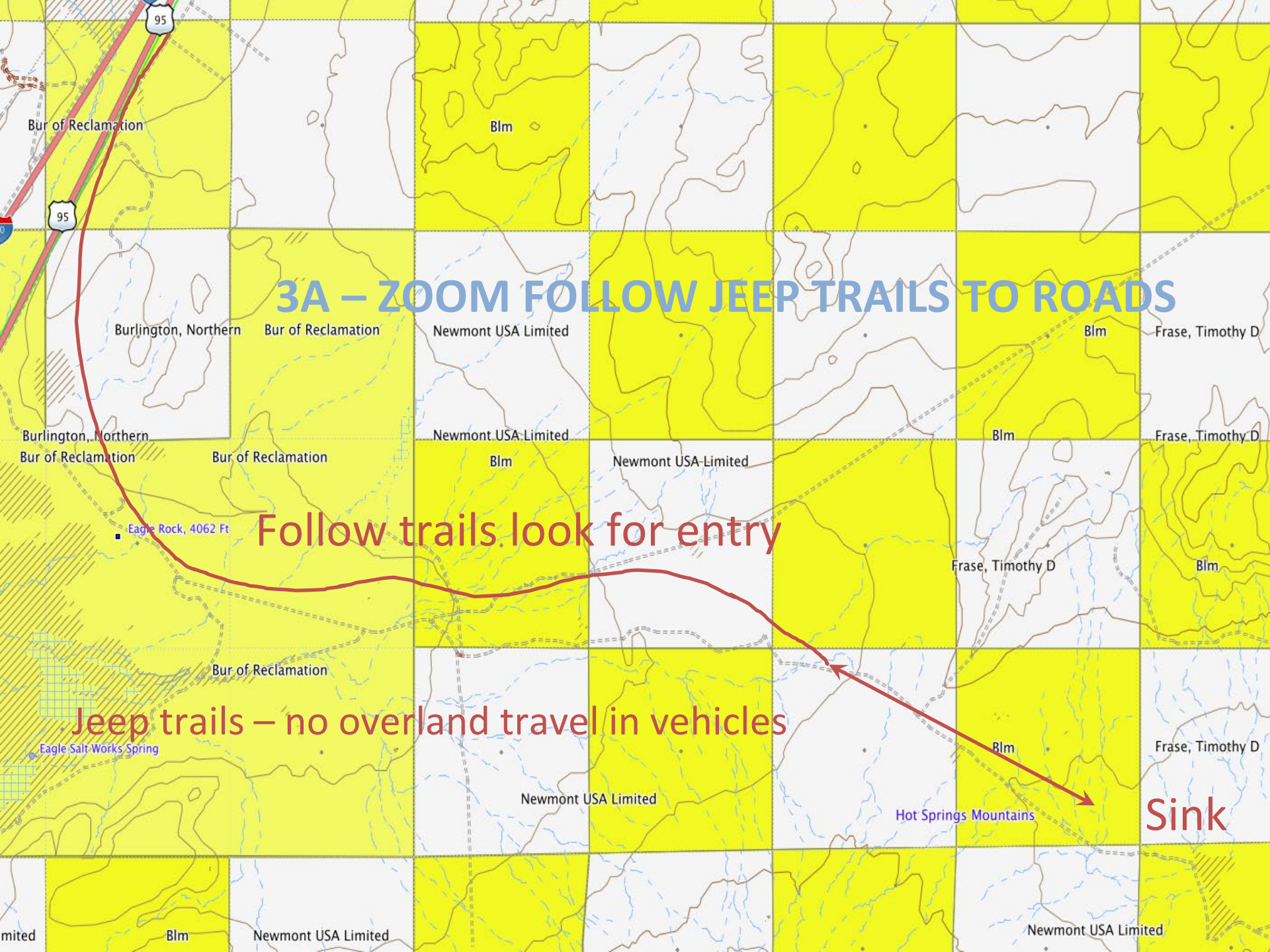
-Storey County (see Chapter 9.16 Weapons)

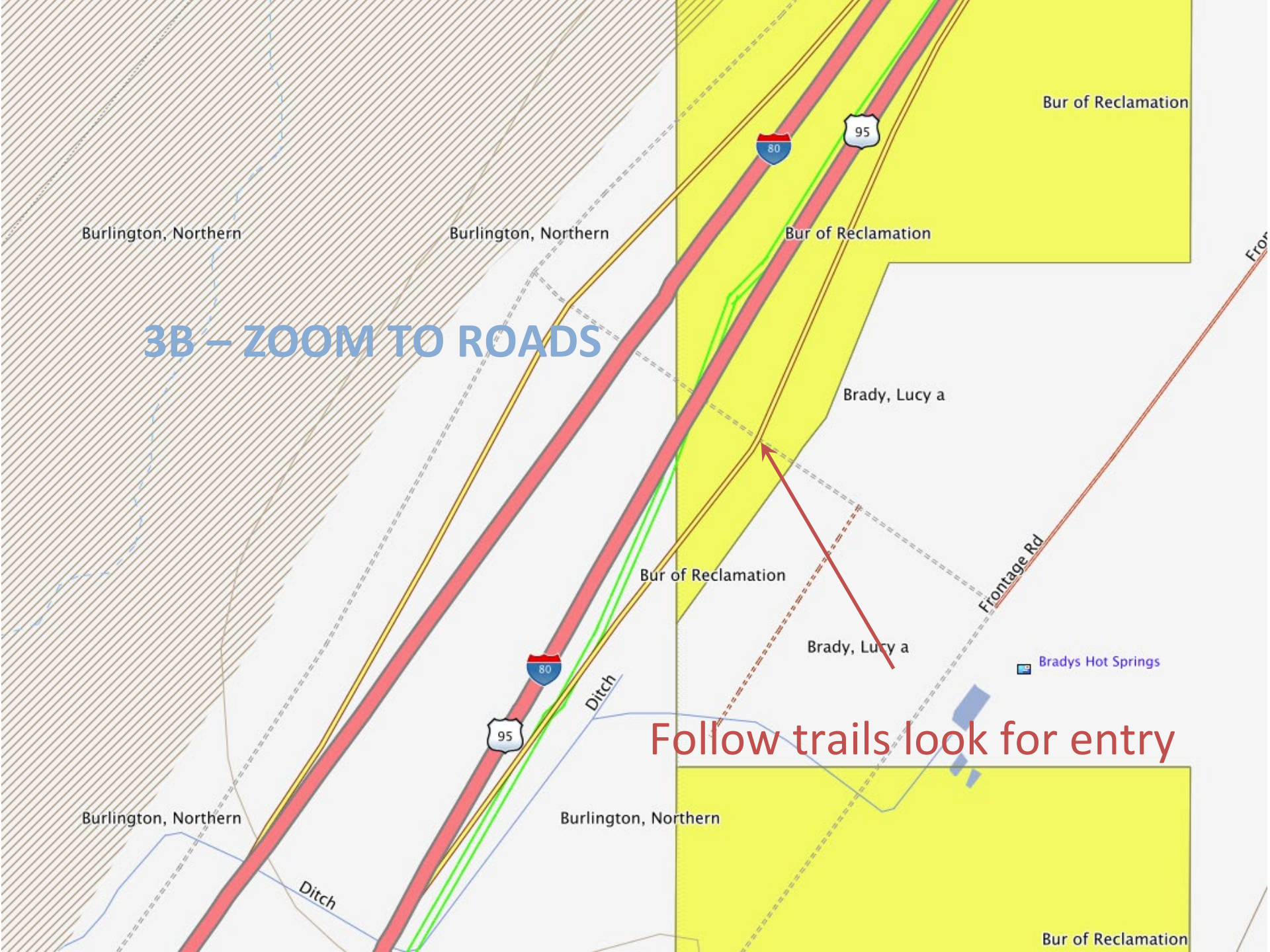
-Clark County (see ordinance on congested areas)

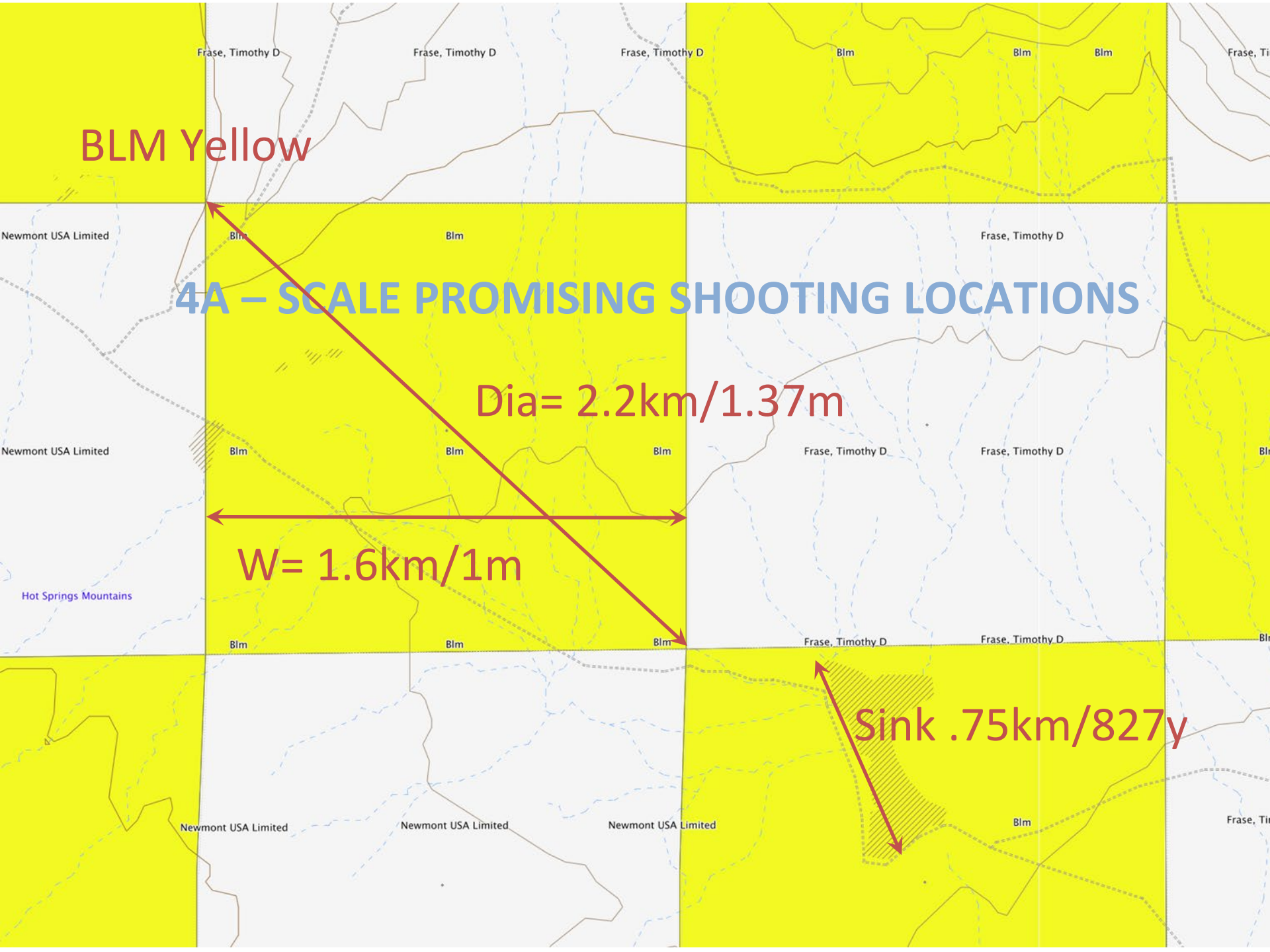
-Lincoln County ( see ordinance on congested or incorporated areas)

http://www.ndow.org/Hunt/Seasons_and_Regulations/Furbearer/Coyote/


BLM Yellow
2C – ZOOM INTO PROMISING AREAS
Jeep trails – no overland travel in vehicles
Sink
Hot Springs Mountains
Frase, Timothy D
Blm
Newmont USA Limited


3A – ZOOM FOLLOW JEEP TRAILS TO ROADS
Follow trails look for entry
Jeep trails – no overland travel in vehicles
Sink
Bur of Reclamation
Blm
Burlington, Northern
Newmont USA Limited
Frase, Timothy D
Eagle Rock, 4062 Ft
Eagle Salt Works Spring
Hot Springs Mountains
95

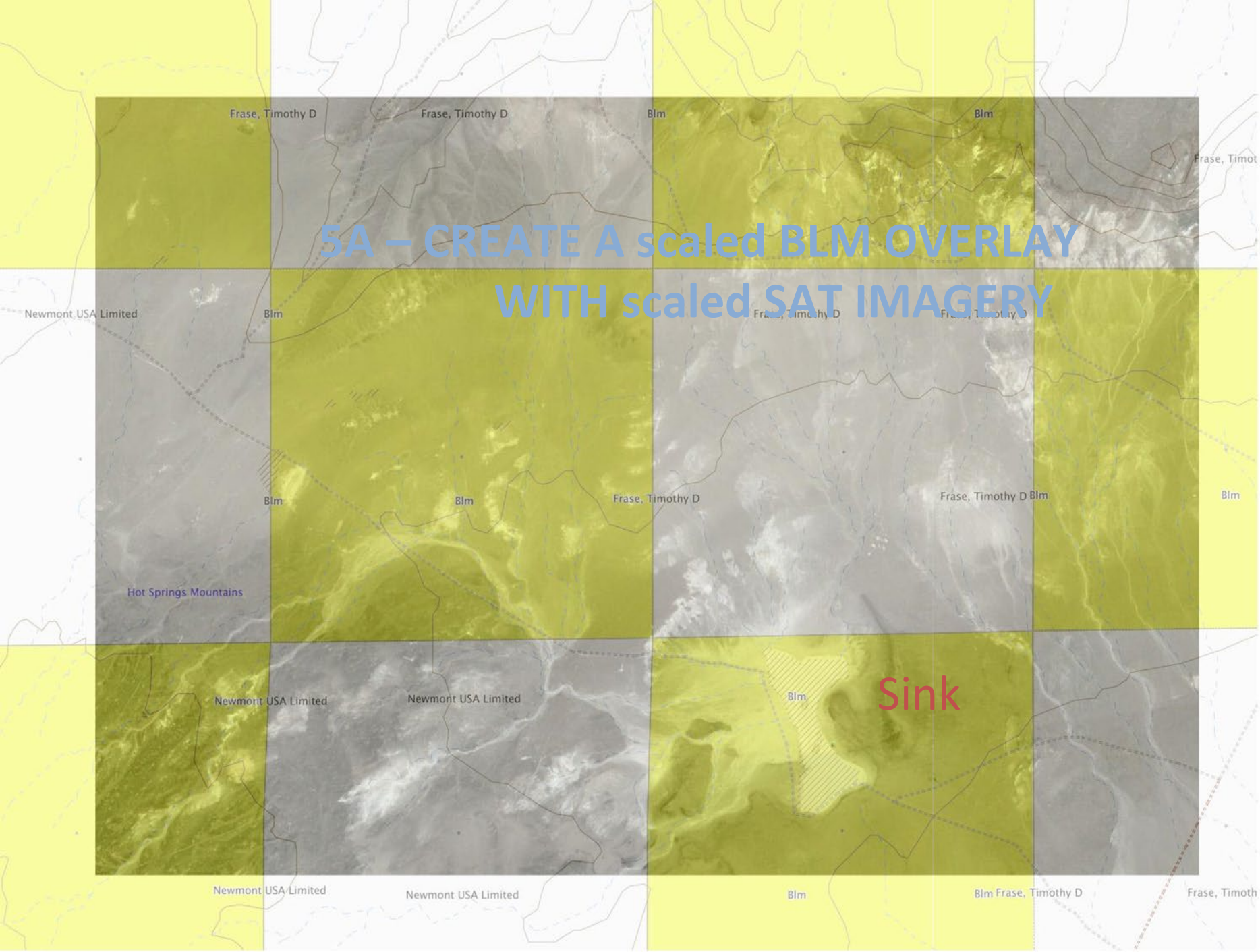

3B – ZOOM TO ROADS
Bur of Reclamation
Burlington, Northern
Burlington, Northern
Bur of Reclamation
Brady, Lucy a
Bur of Reclamation
Frontage Rd
Brady, Lucy a
Bradys Hot Springs
Ditch
Follow trails look for entry
Burlington, Northern
Burlington, Northern
Ditch
Bur of Reclamation
80
95
80
95

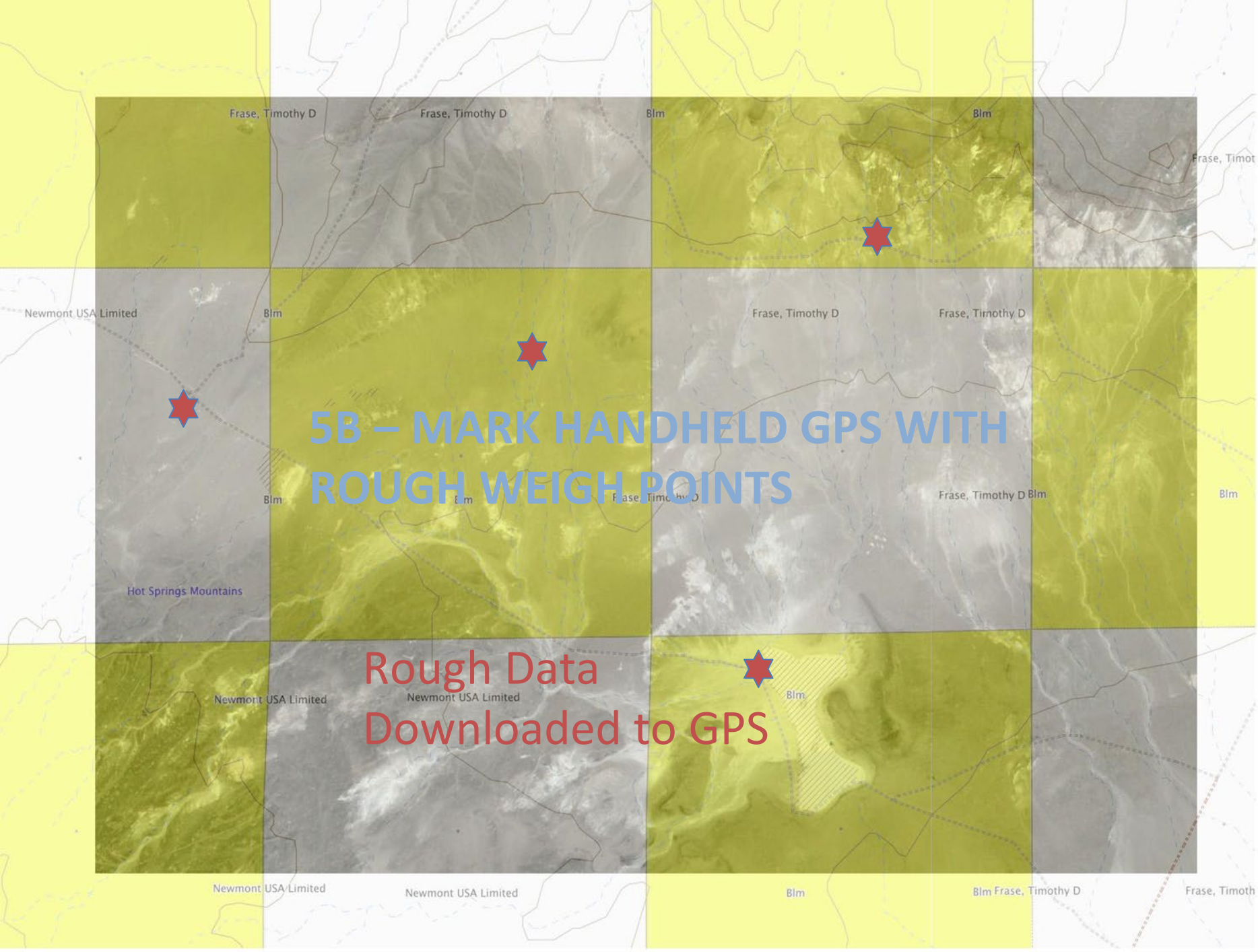

BLM Yellow
4A – SCALE PROMISING SHOOTING LOCATIONS
Dia= 2.2km/1.37m
W= 1.6km/1m
Sink .75km/827y
Frase, Timothy D
Blm
Newmont USA Limited
Hot Springs Mountains


4B – VIEW IN GOOGLE EARTH

# 4C – VIEW AND ZOOM IN GOOGLE EARTH


4D – ZOOM IN VIEW ENTRANCE AND
TRAILS LOOKING FOR GATES ETC.
GOOGLE EARTH
No gate


5A – CREATE A scaled BLM OVERLAY
WITH scaled SAT IMAGERY
Sink
Frase, Timothy D
Blm
Newmont USA Limited
Hot Springs Mountains


Frase, Timothy D
Frase, Timothy D
Blm
Blm
Frase, Timot
Newmont USA Limited
Blm
Frase, Timothy D
Frase, Timothy D
5B – MARK HANDHELD GPS WITH ROUGH WEIGH POINTS
Blm
Frase, Timothy D
Blm
Blm
Hot Springs Mountains
Rough Data Downloaded to GPS
Newmont USA Limited
Newmont USA Limited
Blm
Newmont USA Limited
Newmont USA Limited
Blm
Blm
Frase, Timothy D
Frase, Timoth

# 6A – SCOUT LOCATION

Range Target locations FROM FFP - THE PRONE POSSITION AS SEEN FROM SHOOTING LEVEL….
Mark DGPS & GPS AT FFP AND target locations.


# 7A.1 – SET TRAGETS Looking back to FFP

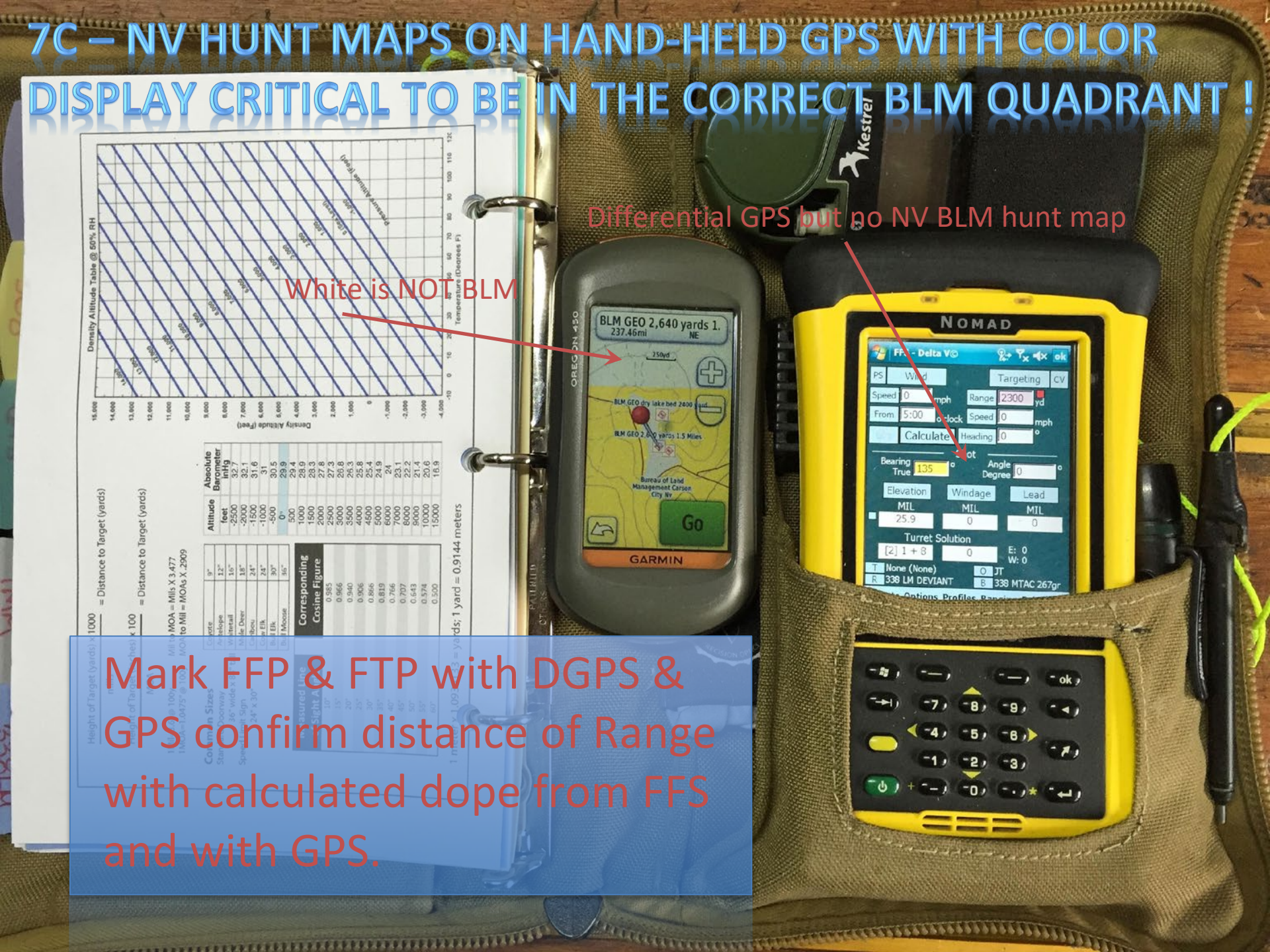

# 7A.2 – SET TRAGETS

Range Target locations and
**mark DGPS & GPS of targets!**

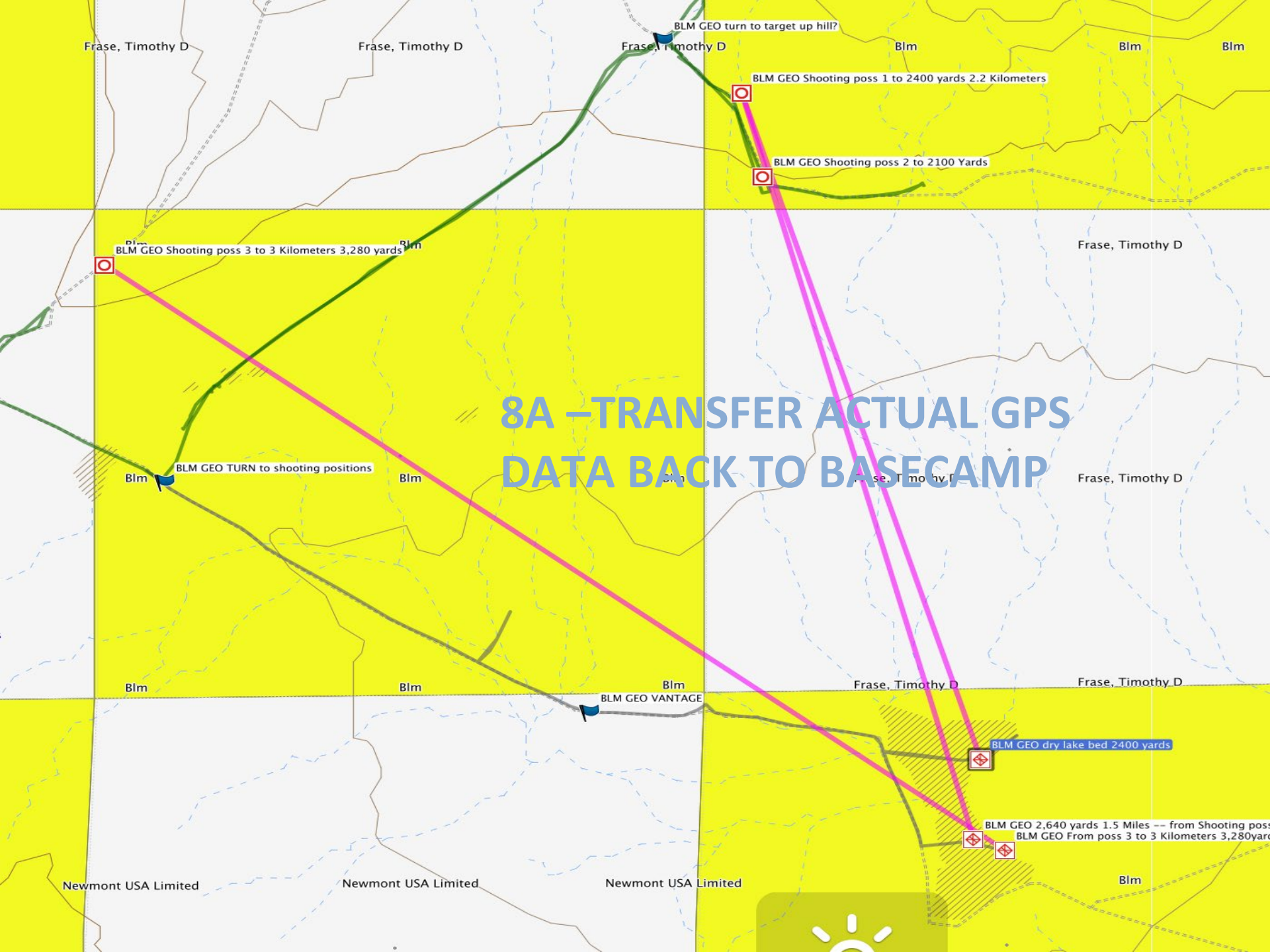
# 7B – FFP ◦ FIELD FIRING LOCATION


Range Target locations and mark FFP with DGPS & GPS – confirm distance of Range with calculated dope from FFS and with GPS

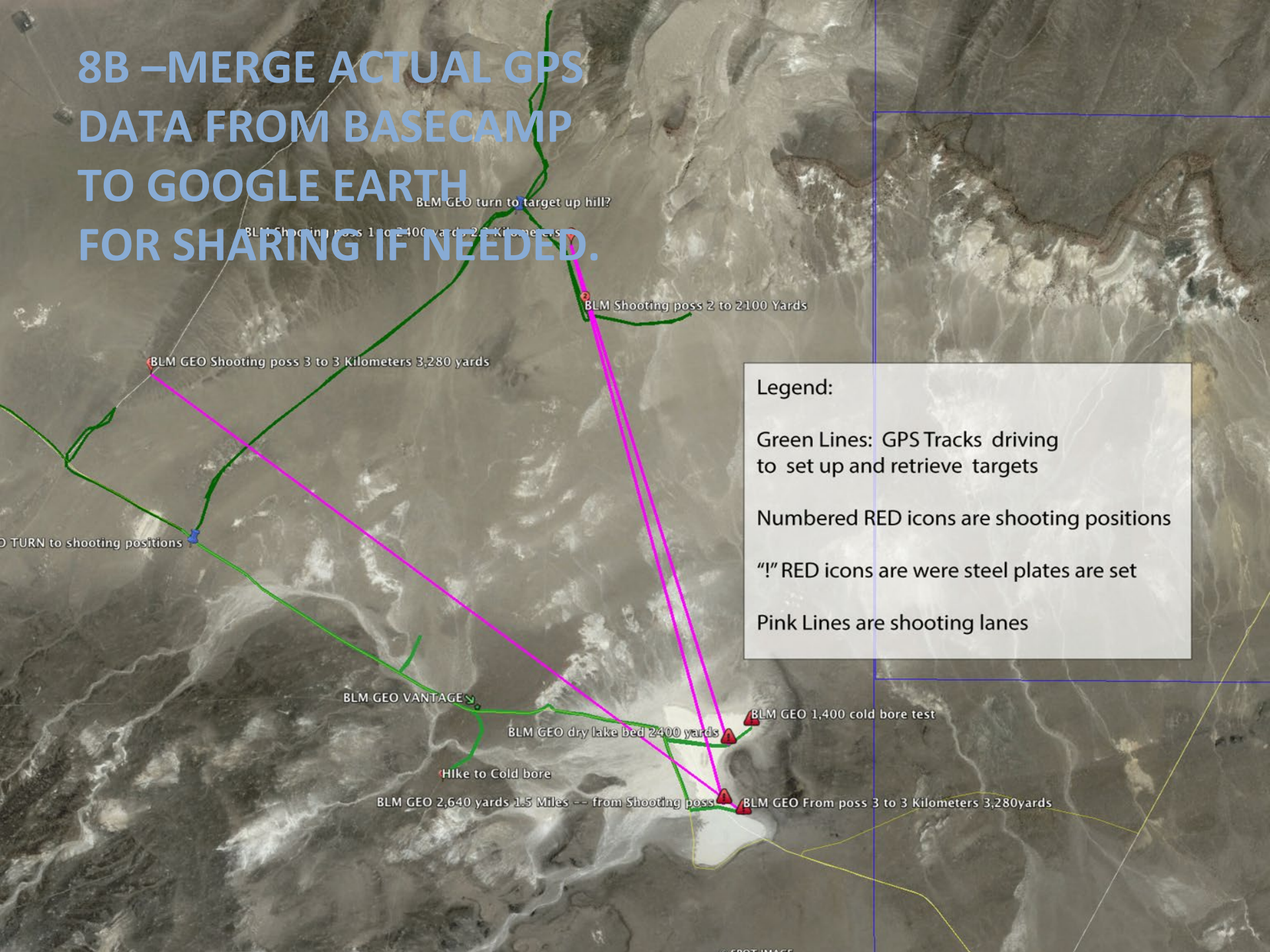
# 7C – NV HUNT MAPS ON HAND-HELD GPS WITH COLOR DISPLAY CRITICAL TO BE IN THE CORRECT BLM QUADRANT !




Mark FFP & FTP with DGPS & GPS confirm distance of Range with calculated dope from FFS and with GPS.


BLM GEO turn to target up hill?
BLM GEO Shooting poss 1 to 2400 yards 2.2 Kilometers
BLM GEO Shooting poss 2 to 2100 Yards
BLM GEO Shooting poss 3 to 3 Kilometers 3,280 yards
BLM GEO TURN to shooting positions
BLM GEO VANTAGE
BLM GEO dry lake bed 2400 yards
BLM GEO 2,640 yards 1.5 Miles -- from Shooting poss
BLM GEO From poss 3 to 3 Kilometers 3,280yard
Frase, Timothy D
Blm
Newmont USA Limited
8A –TRANSFER ACTUAL GPS
DATA BACK TO BASECAMP

# 8B –MERGE ACTUAL GPS DATA FROM BASECAMP TO GOOGLE EARTH FOR SHARING IF NEEDED.




HAVE FUN... 2.2 KILOMETER HITS --

# TOOLS FOR FINDING AND SHOOTING ELR

Garmin Boot Camp **FREE** allows use of BLM Hunt maps on your computer
http://www.garmin.com/en-US/shop/downloads/basecamp

Works with Basecamp by first zooming into area the viewing route place mark or are in Google Earth
http://www.google.com/earth/download/ge/

Legacy Basecamp http://www8.garmin.com/support/download_details.jsp?id=4939

Hunt maps with BLM LAND http://www.huntinggpsmaps.com/store/computer-maps/garmin-basecamp#.VYncGUvoi2Q

Garmin handheld
https://buy.garmin.com/en-US/US/on-the-trail/handhelds/color-screen/accepts-data-cards/cOnTheTrail-cHandheld-atFILTER_FEATURE_COLORSCREEN_01-atFILTER_FEATURE_DATACARDS_01-p1.html

Field Firing solutions Nomad http://www.lextalus.com/pda5.html

Delta V
http://www.lextalus.com/Delta5.html

Kestrel
http://kestrelmeters.com/products/kestrel-4500nv-applied-ballistics-meter

G shock pro trek
http://www.casio.com/products/Watches/PRO_TREK/PRW5050BN-5/

ELR Camera Build
http://mbd.scout.com/mb.aspx?s=541&f=5539&t=13236426