

Proposed Lands with Wilderness Characteristics  
**THUMB BUTTE & WALNUT MOUNTAIN**  
Public Lands in the Northern Peloncillo Mountains, Arizona



A proposal report to the Bureau of Land Management, Safford Field Office, Arizona

**November 2017**

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*PREFACE: This Proposal was developed according to BLM Manual 6310 General Overview*

Instruction Memorandum 2011-154 and Manuals 6310 and 6320 set out the BLM's approach to protecting wilderness characteristics on public lands. This guidance acknowledges that wilderness is a resource that is part of BLM's multiple use mission, requires the BLM to keep a current inventory of wilderness characteristics, and directs the agency to consider protection of these values in land use planning decisions.<sup>1</sup>

In March 2012, the Bureau of Land Management issued updated manuals for inventorying and managing Lands with Wilderness Characteristics on public lands (hereafter often referred to as LWC's). These manuals provide the agency with direction for implementing its legal obligations to inventory and consider management of Lands with Wilderness Characteristics, including the Federal Land Policy and Management Act's provision that BLM "preserve and protect certain public lands in their natural condition" (43 U.S.C. § 1701(a)(8)). **Manual 6310** (Conducting Wilderness Characteristics Inventory on BLM Lands) guides the BLM on how to meet its obligations to inventory for and identify lands with wilderness characteristics. **Manual 6320** (Considering Lands with Wilderness Characteristics in the BLM Land Use Planning Process) guides the BLM on the options available to address lands with wilderness characteristics in land use planning once they have been identified in the required inventory, such as putting management prescriptions in place to protect wilderness characteristics. **The purpose of this report is to provide the BLM with recommendations for designation of Lands with Wilderness Characteristics in the Kingman Field Office of northwestern Arizona, based on new, accurate, and up- to-date information, collected and presented according to the requirements described in Manual 6310.**<sup>2</sup>

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<sup>1</sup>Memorandum 2011-154 is available online at:

[http://www.blm.gov/wo/st/en/info/regulations/Instruction\\_Memos\\_and\\_Bulletins/national\\_instruction/2011/IM\\_2011-154.html](http://www.blm.gov/wo/st/en/info/regulations/Instruction_Memos_and_Bulletins/national_instruction/2011/IM_2011-154.html)

<sup>2</sup> Manual 6310 is available online at:

[http://www.blm.gov/pgdata/etc/medialib/blm/wo/Information\\_Resources\\_Management/policy/blm\\_manual.Par.38337.File.dat/6310.pdf](http://www.blm.gov/pgdata/etc/medialib/blm/wo/Information_Resources_Management/policy/blm_manual.Par.38337.File.dat/6310.pdf)

*What does Manual 6310 require for the identification of LWC's?*

Minimum standard for LWC proposals are described in Manual 6310 in section .06.B.1. There are three things required in a citizen's wilderness proposal in order to meet the minimum standard for BLM to consider it in an inventory and to consider it as new information:

- Detailed map with specific boundaries;
- Detailed narrative of the wilderness characteristics; and
- Photographic documentation.

Once there is new information that meets these standards, then "as soon as practicable, the BLM shall evaluate the information," including field checking as needed and comparing with existing data to see if previous conclusions remain valid. Further, BLM will document its rationale and make it available to the public (section .06.B.2). **This proposal report provides the three necessary criteria listed above.**

*What does Manual 6310 require for an area to be identified as an LWC?*

The requirements for determining whether lands possess wilderness characteristics are found in Manual 6310, section .06.C.2. Lands with Wilderness Characteristics must possess the following traits:

• **Size**

Sufficient roadless area to satisfy size requirements (5,000 acres, of sufficient size to make management practicable or "any roadless island of the public lands"; or contiguous with Wilderness, Wilderness Study Areas, USFWS areas Proposed for Wilderness, Forest Service WSAs or areas of Recommended Wilderness, National Park Service areas Recommended or Proposed for Designation).

• **Naturalness**

Affected primarily by the forces of nature – The criteria is "apparent naturalness" which depends on whether an area looks natural to "the average visitor who is not familiar with the biological composition of natural ecosystems versus human affected ecosystems." This is an important distinction between ecological integrity and apparent naturalness.

Human impacts – Human impacts must be documented and some are acceptable so long as they are "substantially unnoticeable"; Examples include trails, bridges, fire rings, minor radio repeater sites, air quality monitoring devices, fencing, spring developments, and stockponds.

Outside human impacts – impacts outside the area are generally not considered, but major outside impacts should be noted and evaluated for direct effects on the entire area (the manual explicitly cautions BLM to “avoid an overly strict approach”).

• **Outstanding opportunities for either solitude or primitive and unconfined recreation**

The area does not have to possess both opportunities for solitude and primitive and unconfined recreation, nor does the area need to have outstanding opportunities on every acre; BLM cannot compare lands in question with other parcels; BLM cannot use any type of rating system or scale.

• **Supplemental values**

Ecological, geological, scientific, scenic, educational or historical features should be documented where they exist, although they are not required traits.

*What does Manual 6310 require for the identification of the boundaries of an LWC?*

Boundaries should be based on wilderness inventory roads and naturalness rather than opportunities for solitude or primitive and unconfined recreation. For inventorying wilderness characteristics, BLM will use the “road” definition from FLPMA’s legislative history; the term “road” and “wilderness inventory road” are interchangeable in this guidance. The AWC survey team took a very literal, maintenance-driven approach to road/way determination.

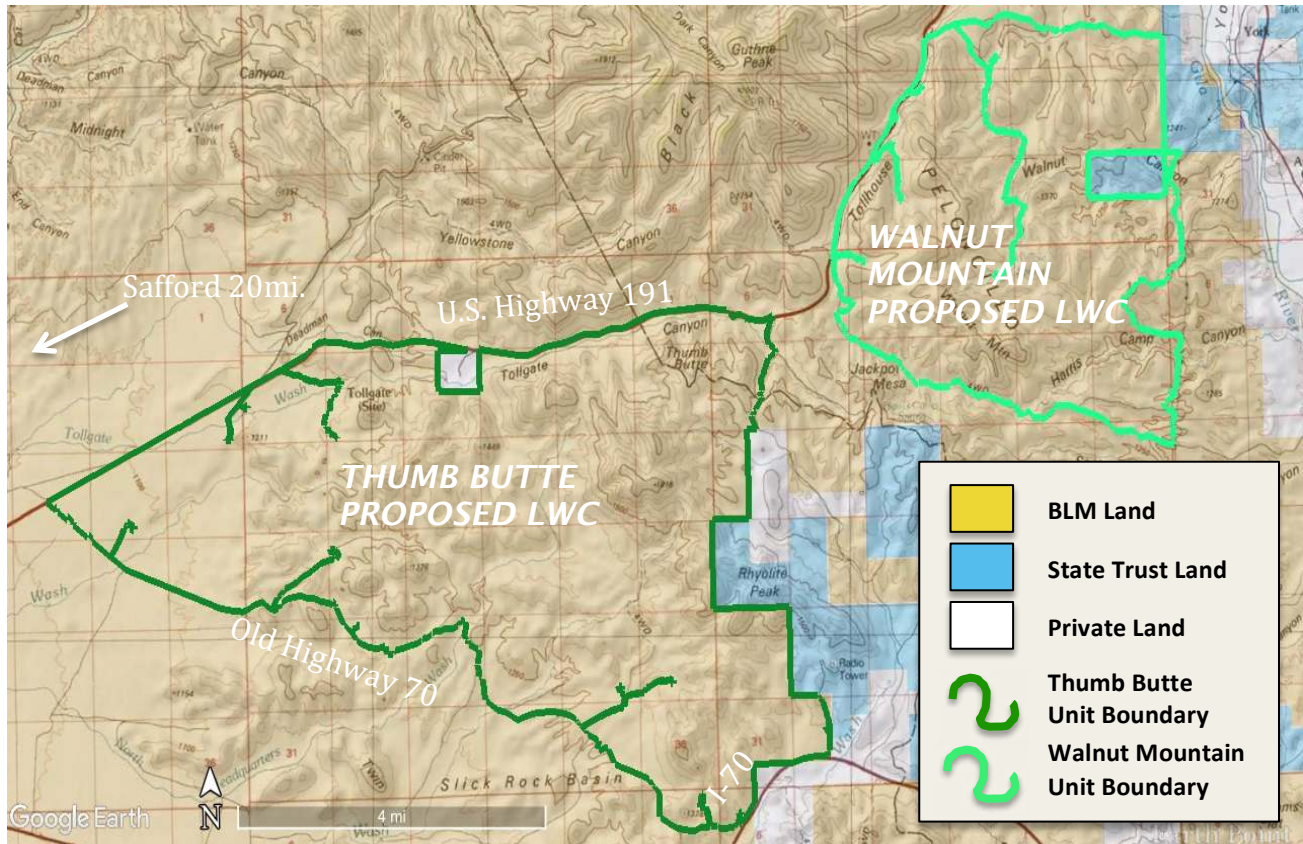
• “Wilderness inventory roads” are routes which have been: (1) *improved and maintained* (when needed), (2) *by mechanical means* (but not solely by the passage of vehicles), (3) *to insure relatively regular and continuous use*.

• “Primitive routes” or “ways” are transportation linear features located within areas that have been identified as having wilderness characteristics and not meeting the wilderness inventory road definition.

• Lands between individual human impacts should not be automatically excluded from the area; no setbacks or buffers allowed; boundaries should be drawn to exclude developed rights-of-way; “undeveloped rights-of-way and similar possessory interests (e.g., as mineral leases) are not treated as impacts to wilderness characteristics because these rights may never be developed”; areas can have wilderness characteristics even though every acre within the area may not meet all the criteria.

**Section 1: Overview of the Proposed Lands with Wilderness Characteristics**

Overview map: showing both unit locations, boundaries, and previously recommended WSA's

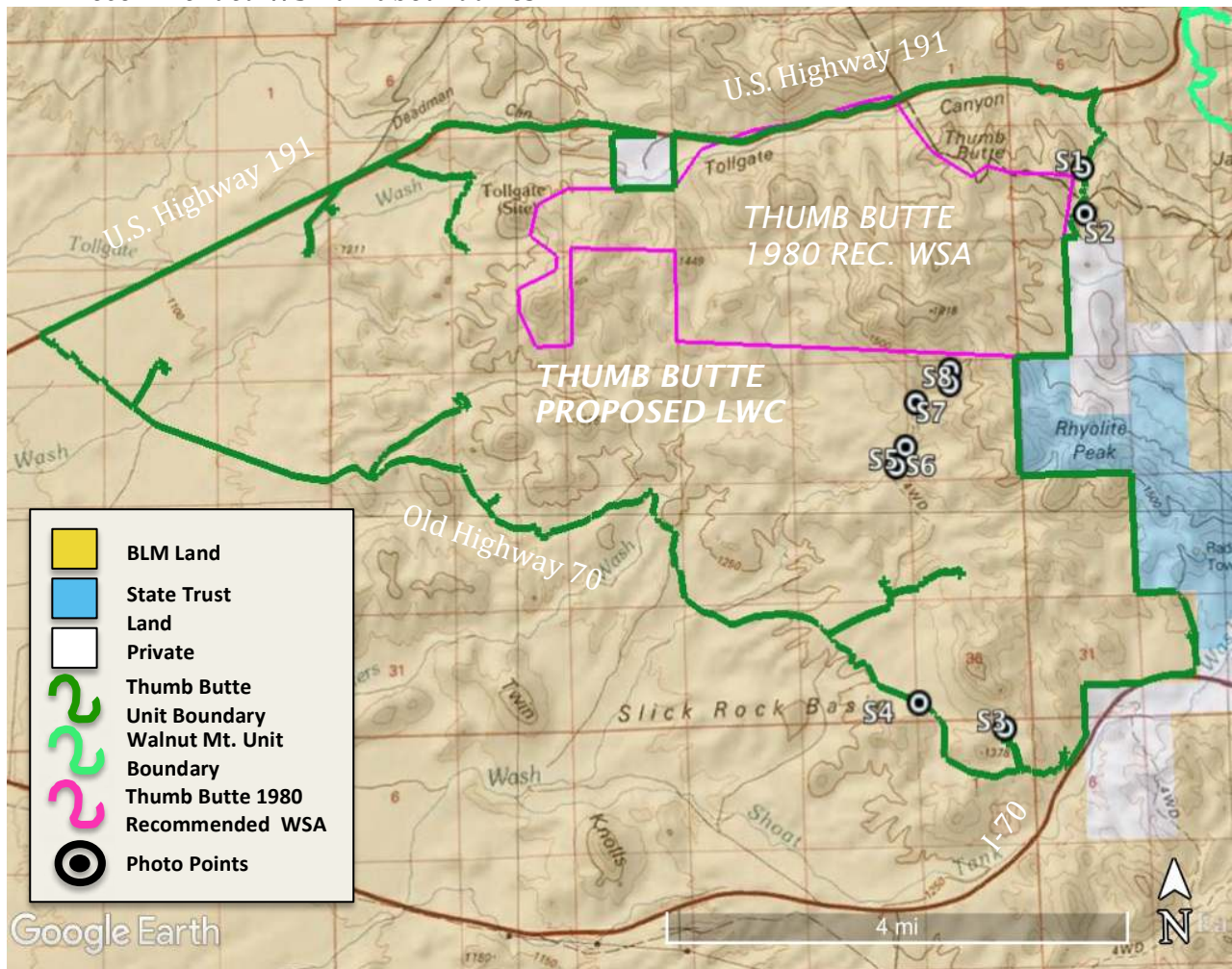


**Summary** – Both units lie approximately 20 miles ENE of the city of Safford, AZ in the Northern Peloncillo Mountains and the Black Hills. They are both located in-between U.S. Highway 191 and Interstate 70. U.S. Highway 191 is a major boundary element of both units. Other major boundary elements are wilderness inventory roads, land ownership, and power lines.

The Thumb Butte proposed LWC encompasses approximately 19,660 acres and the Walnut Mountain proposed LWC encompasses approximately 10,080 acres. The landscapes of both units are remarkably similar in their geography, geology, flora, and fauna, thus also in their essence and their outstanding opportunities for primitive recreation. The Northern Peloncillo Mountains, the Black Hills, and associated foothills, washes, and alluvial fans result in a diversity of aspect and altitude, which result in a breadth of vegetation communities. Furthering this biodiversity, Chihuahuan and Sonoran upland desert scrubs coalesce here, forming a truly unique eco-tone. Higher elevation slopes and drainages consist of semi-arid grasslands, speckled with *Juniperus spp.*, *Quercus spp.*, *Celtis spp.*, *Opuntia engelmannii*, *Cylindropuntia spp.*, *Nolina bigelovii*, and assorted interior chaparral species. Just as the topographic diversity of these units offers a niche for diverse species assemblages, it also offers outstanding opportunities for solitude on its varying slopes and in its meandering canyons. With the exception of a few human impacts, both units are in a state of apparent naturalness. Both units offer ample opportunity for hiking, backpacking, horseback riding, rock climbing, and nature study, all in which are of an outstanding nature. Opportunities to hunt javelina, deer, and quail are excellent as well.

## Thumb Butte & Walnut Mountain Proposed LWCs

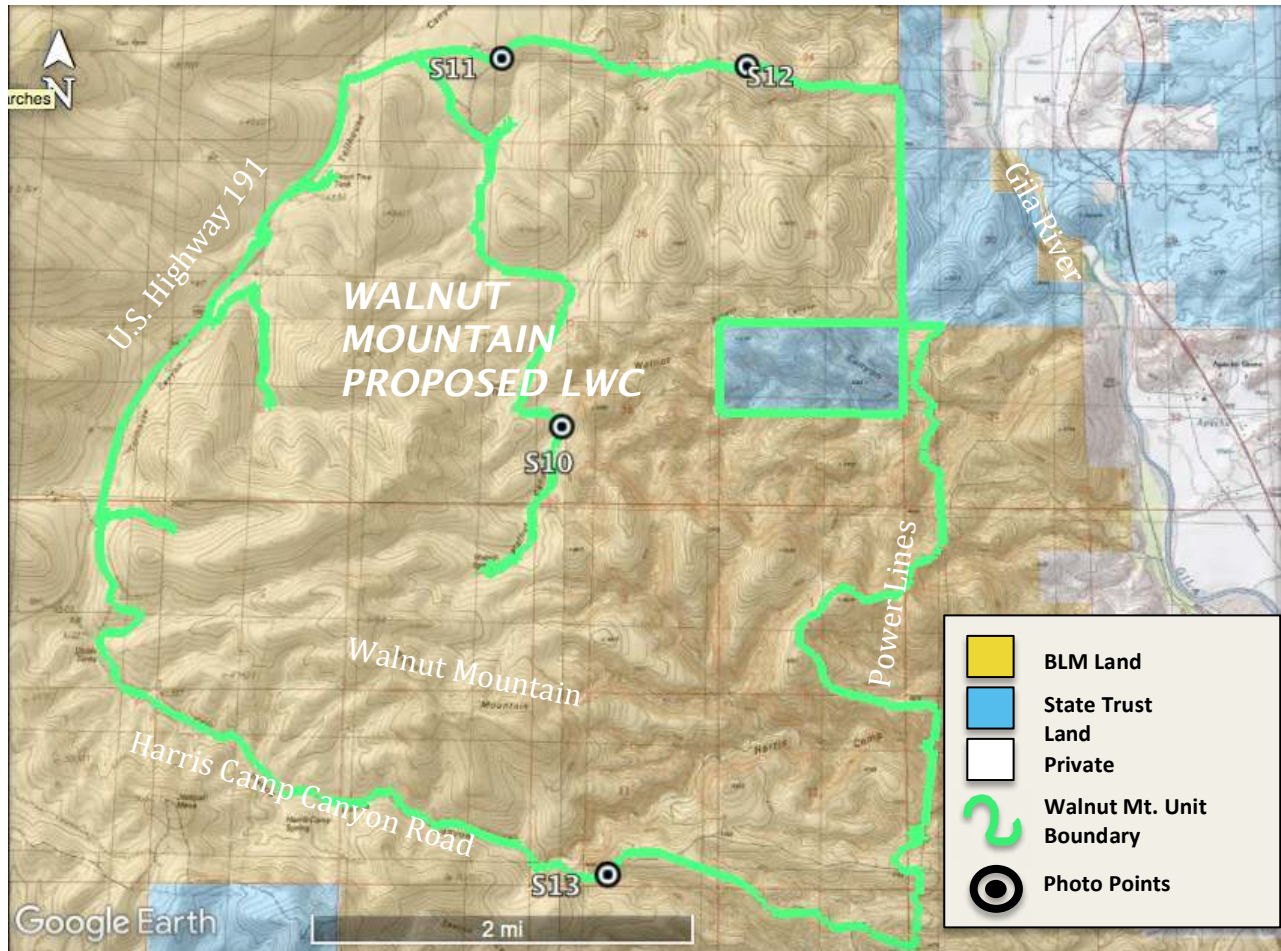
Thumb Butte Proposed LWC Overview Map: Showing unit boundary, scenic photo points, and 1980 recommended WSA unit boundaries



**THUMB BUTTE-** Rising out of the eastern half of the unit are the Black Hills, which contain the unit namesake: Thumb Butte. This area characterizes much of the unit with vertical relief, rolling hills, igneous rock outcrops, canyons, and vegetative diversity. Here, a backcountry traveler can move from vast, flat expanses of Sonoran desertscrub to extensive semi-arid grasslands hosting a mosaic of interior chaparral species, *Opuntia engelmannii*, *Cylindropuntia spp.*, and *Juniperus spp.* Scenic photos S1 – S9 capture the aesthetic grandeur of these hills. From these hills one can obtain incredible views of the SE Arizona, as the Pinaleno, Santa Teresa, Gila, Chiricahua and Whitlock Mountains all come into view. Opportunities for solitude, hiking, backpacking, rock climbing, scrambling, and horseback riding are outstanding in this unit. In 1980 a portion of the current proposal was recommended for a Wilderness Study Area (WSA) but was disqualified. The reasons for this disqualification in 1980 are no longer relevant in this current proposal; discussion on this topic can be found in *Section Two* of this proposal. The unit's northern border is defined by U.S. Highway 191, its southern border by Old Highway 70 and I-70, and its eastern border by private land, state trust land and a wilderness inventory road. Several cherrystems are included in the unit, most of which access a water feature (cistern, game water catchment, stockpond) or a coral. These cherrystems do not disrupt the integrity of the unit's wilderness characteristics, while still allowing access to other assets. Several primitive ways were identified in the unit, some of which may have served a purpose at one point, but no longer do, and are no longer mechanically maintained.

## Thumb Butte & Walnut Mountain Proposed LWCs

Walnut Mountain Proposed LWC map: showing scenic, data, and reference points, and increased detail



**WALNUT MOUNTAIN-** The Walnut Mountain proposed LWC is predominately dominated by semi-arid grasslands and Chihuahuan desertscrub, most commonly occurring in unison. The unit offers many views similar to those of the Thumb Butte proposed LWC, however also offers vast views of the Gila River Valley and the eastern mountain ranges of the Arizona-New Mexico border. Looking north one can see the San Francisco River Valley converge with the Gila. Scenic photos S10–S13 document the scenic beauty of the unit. The unit’s northern border is defined by a wilderness inventory road, the eastern border by state land and power lines, the southern border by Harris Camp Canyon Road, and the west border by U.S. Highway 191. A state-owned inholding is present along the units eastern border. A few cherrystems are included in the unit, which access water features. One of which, is the cherrystem to Walnut Springs. This is a significantly large cherrystem, however, due to readily available topographic screening in the unit, a recreationist can easily be unaffected by its presence. Opportunities for hiking, backpacking, horseback riding, and hunting are outstanding in the high-quality native grasslands of the Walnut Mountain proposed LWC.



Scenic Photos

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*Scenic Photo S1: Taken along the Thumb Butte proposed LWC's eastern wilderness inventory road, heading into the Black Hills, looking northwest. These semi-arid grasslands are intertwined with *Juniperus monosperma*, *Yucca elata*, *Nolina bigelovii*, *Fouquieria splendens*, and *Opuntia engelmannii*. Surrounding drainages contain *Quercus*, *Celtis*, and *Rhus* species.*



*Scenic photo S2: Looking northwest into the Thumb Butte proposed LWC from outside its eastern boundary. These semi-arid grasslands are intertwined with *Juniperus monosperma*, *Yucca elata*, *Nolina bigelovii*, *Fouquieria splendens*, and *Opuntia engelmannii*. Surrounding drainages contain *Quercus*, *Celtis*, and *Rhus* species.*

*Thumb Butte & Walnut Mountain Proposed LWCs*



*Scenic photo S3: Looking northwest in the Black Hills of the Thumb Butte proposed LWC, off of a cherrystem on its southern boundary. Similar habitat to S1. Igneous outcrops, as seen here, are common in the Black Hills, and offer outstanding rock climbing opportunities and animal habitat.*



*Scenic photo S4: Aesthetic topography of the Black Hills and Slick Rock Basin. *Opuntia englemannii*, *Gutierrezia sarothrae*, and *Larrea tridentata* cover much of this landscape; interspaces are filled with desert pavement and grasses. Travelling along unit boundary Old Highway 70.*

*Thumb Butte & Walnut Mountain Proposed LWCs*

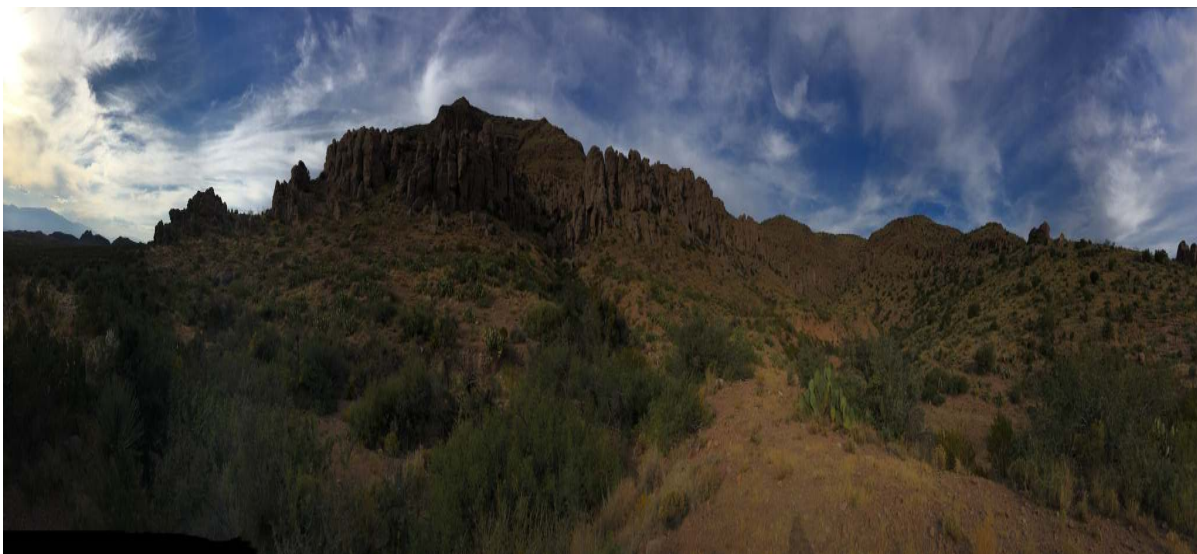


*Scenic Photo S5: Looking southeast into the foothills of the Black Hills. Similar habitat to S4. Notice the archaeological site off to the right; it adds wilderness character because it is being reclaimed by nature and evokes a feeling of wonder.*



*Scenic Photo S6: Looking northeast into the Black Hills. *Opuntia engelmannii*, *Gutierrezia sarothrae*, and *Larrea tridentata* cover much of this landscape; interspaces are filled with desert pavement and grasses.*

*Thumb Butte & Walnut Mountain Proposed LWCs*

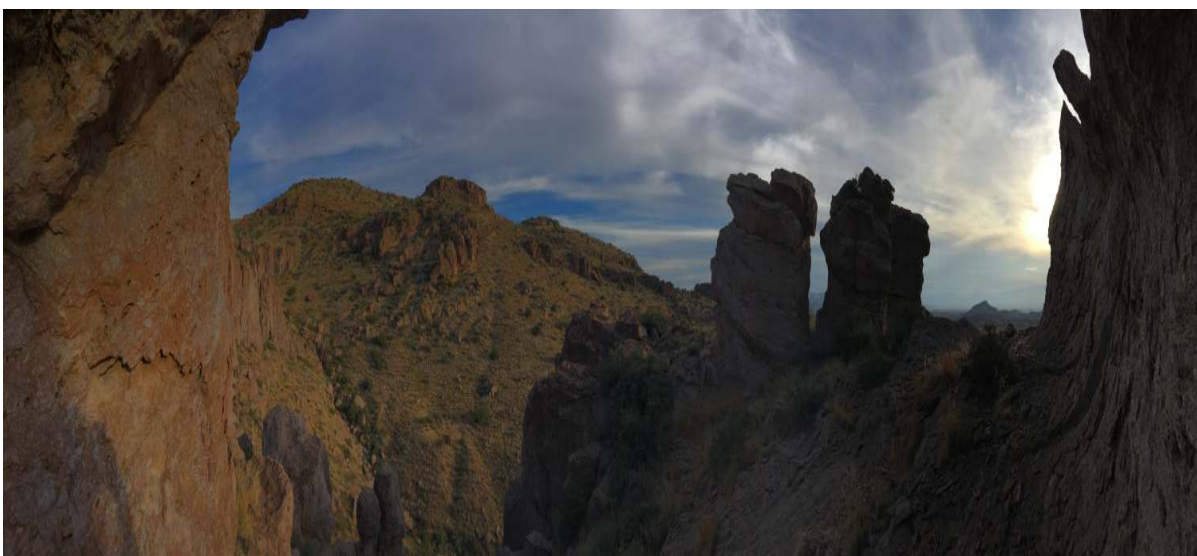


*Scenic Photo S7: Looking east into the Black Hills. Upland Sonoran desert scrub meets semi-arid grasslands here.*



*Scenic Photo S8: In the Black Hills. In this area beneath the towering, black basalt outcrops common in the Black Hills, lay beige, sharp rock formations of pillars, fins, chutes, and big walls. These unique rock formations define the landscape in this area.*

*Thumb Butte & Walnut Mountain Proposed LWCs*



*Scenic Photo S9: Looking south in the Black Hills. Immersed in rock; solitude is plentiful here. The canyon below houses several tinajas. This canyon and its surrounding hills offer outstanding opportunities for scrambling, rock climbing, hiking, and would be excellent for multi-day backpacking.*



*Scenic Photo S10: Taken along the Walnut Springs cherrystem in the Walnut Mountain proposed LWC. The semi-arid grasslands here contain *Opuntia engelmannii*, *Larrea tridentata*, *Prosopis velutina*, and *Acacia constricta*. Similar to the Black Hills of the Thumb Butte proposed LWC, basalt outcrops are abundant.*

*Thumb Butte & Walnut Mountain Proposed LWCs*



*Scenic Photo S11: Looking east along the northern boundary of the Walnut Mountain proposed LWC.*



*Scenic Photo S12: Looking east within close proximity to the eastern boundary of the Walnut Mountain proposed LWC. The Gila River Valley is in the distance. Chihuahuan desert scrub influence is very prevalent in regards to overall lack of biomass, especially in comparison to other parts of the unit.*

*Thumb Butte & Walnut Mountain Proposed LWCs*



*Scenic Photo S13: Looking north into the Walnut Mountain proposed LWC from the southern boundary road: Harris Camp Canyon Road. Looking across Harris Camp Canyon towards Walnut Mountain (center). Much of the unit boundary follows Harris Camp Canyon, however downstream of this photo the canyon enters the unit and significantly increases the topographical diversity.*

## ***Section 2: Documentation of Wilderness Characteristics***

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### ***Size: Both proposed LWC's meet the minimum size criteria for roadless lands***

The Thumb Butte proposed LWC contains approximately 19,660 acres and the Walnut Mountain proposed LWC contains approximately 10,080 acres. Both of these units far exceed the minimum size criteria of 5,000 acres specified in BLM Manual 6310.

### ***Naturalness: The proposed LWC's are affected primarily by the forces of nature***

The Thumb Butte and Walnut Mountain proposed LWC's both exist in a state of apparent naturalness. The rolling hills, basalt outcrops, deep canyons, vast grasslands, harsh desertscrubs, and wide-open spaces of these units' envelop outstanding wilderness characteristics, are influenced primarily by natural function, and are truly wild. Human impact is limited in both units, often only existing as range improvements, which minimally affect naturalness. Those that do affect naturalness have been excluded from the units, along with their access routes in order to preserve their use. Cherrystemmed features, and other outside impacts have all been deemed acceptable because they are predominately non-disruptive in nature, the proposed LWC unit acreage is substantial to dwarf any outside impact, and topographic/vegetative screening is plentiful. State and private land bordering the unit is largely undeveloped and natural, with the exception of stockponds and other non-impactful range improvements. This statement is also true for the majority of the surrounding landscape of both units, which undoubtedly makes the units feel larger than they are.

In specific regards to the Thumb Butte proposed LWC, the 1980 recommended Wilderness Study Area 04-30, titled 'Thumb Butte' (see unit boundary on page 7), was deemed to be substantially in a natural state.

*"Most of the unit is essentially natural in character. The imprint of man's work, in the form of range improvements, mining activities and vehicle routes, is substantially noticeable on only small portions of its area" (BLM 1980)<sup>1</sup>.*

This assertion holds true for the area it was spoken of in 1980, and also the additional acreage of the current Thumb Butte proposed LWC and the Walnut Mountain proposed LWC.

Primitive routes do not have a substantial impact on naturalness in the Thumb Butte and Walnut Mountain proposed LWC's. Relatively few primitive routes (ways) penetrate the unit boundaries, and those that do are substantially unnoticeable. They are unnoticeable because they are often highly eroded, being encroached on by creosote and other desert shrubs, lack any improvements, or simply follow a natural wash. Examples of these ways can be seen at points: 010, 039, 040, 044, 050, 051, 053 – 055, 079, 080, 084, and 092-094 (some points are of the same way). In a few cases, ways started off navigable, but quickly deteriorated into non-navigable, reclaimed states; e.g. points 050-051 and 052-055, and 078-080.

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<sup>1</sup> BLM. 1980a. Wilderness Review: Intensive Inventory of Public Lands Administered by Bureau of Land Management. Proposal Report. Bureau of Land Management, Arizona State Office, Phoenix, AZ.



## *Thumb Butte & Walnut Mountain Proposed LWCs*

Cherrystemmed roads exclude human impacts, which are small, localized, do not affect the naturalness within the unit, and may still be in use. The Thumb Butte proposed LWC includes nine cherrystems and the Walnut Mountain proposed LWC includes four cherrystems. Naturalness within a unit can be affected by cherrystemmed features, however, in the case of these thirteen cherrystems across both units, this is not the case. Discussion on this topic can be found in the *Narrative Description of Proposed LWC Boundary and Vehicle Routes* section of this proposal report.

Other human impacts are small, insignificant, and uncommon. For example, points 011, 042, 047, and 048 show old stockpond dams in the Thumb Butte proposed LWC. These stockpond dams are substantially unnoticeable because of where they are located in steep topography and canyons, and thus topographically screened. Stockponds are scattered throughout both units, many without access roads; all of these stockponds are substantially unnoticeable. A radio tower exists near the eastern boundary of the Thumb Butte proposed LWC, however it is largely blocked out of view by the portion of the Black Hills existing outside of the unit boundary. Much of the eastern boundary of the Walnut Mountain proposed LWC is defined by power lines and related access roads. These power lines are often unnoticeable within the unit because of adjacent steeper, deep topography in the eastern portion of the unit, which creates topographic screening. Both units have U.S. Highway 191 as a boundary element; topographic screening and unit acreage dwarfs the visual and audial impacts of this highway. This hold true for the portion I-70 sharing boundary with the Thumb Butte proposed LWC.

*The proposed LWC's have outstanding opportunities for solitude and/or primitive and unconfined recreation*

### **Thumb Butte Proposed LWC**

The acreage of the Thumb Butte proposed LWC is substantial enough that in and of itself, solitude is not difficult to find because distances between outside impacts can become so great. Furthering this, topographic screening is bountiful in the canyons and on the slopes of the Black Hills in the unit (e.g. scenic photos S7-S9). The terrain of the area is ideal for getting away from any unit-exterior sights and sounds. Within the Thumb Butte proposed LWC unit boundaries there were two areas recommended for WSA designation in 1980 (see page 7). The area titled "04-30: Thumb Butte" was deemed to lack opportunities for solitude. The cited reasons for this in BLM's 1980 Wilderness Review are its "attenuated shape" and its proximity to roads (BLM 1980). The substantially increased acreage of this up-to-date proposal inevitably remediates both of these issues by decreasing confinement and ensuring less disruptions to solitude from unit-exterior factors. **The topography, acreage, and occasionally the vegetation of this unit offer outstanding opportunities for wilderness-quality solitude.**

The BLM 1980 Wilderness Review also wrote that the 1980 recommended WSA had little opportunities for outstanding primitive/unconfined recreation also due to its "attenuated shape". This argument is no longer valid because the present day proposal encompasses approximately four times the acreage of the 1980 proposal, in a non-attenuated shape. **There are outstanding opportunities for outstanding primitive/unconfined recreation in this unit.** An incredible hiking/backpacking route could be into the Black Hills starting from Point 039. From here,

following the path of scenic photos S5-S9, a recreationist will follow an incredible canyon. This canyon is formed of rock unique to the unit, thick with *Juniperus spp.*, *Celtis spp.*, and *Quercus spp.*; surrounded by grassy slopes and Sonoran desertscrub, and towering basalt cliffs. Several tinajas are found in this canyon, which could supply water for a multi-day trip. The recreationist could continue to the north and summit one a peak in the Black Hills. The fins, chutes, pillars, and walls of the unique rock type in this area create outstanding opportunities for scrambling around, and indeed would interest a technical, traditional rock climber.

### **Walnut Mountain Proposed LWC**

Although smaller in acreage, **the Walnut Mountain proposed LWC offers outstanding opportunities for solitude and primitive/unconfined recreation**, resulting from topographic screening predominately created by Walnut Canyon and Harris Camp Canyon, and their associated tributaries. A look at a USGS topographic map conveys this topographic diversity. The field of fluvial geomorphology predicts this topography too; the juxtaposition of Walnut Mountain's elevation to the adjacent Gila River Valley's implies a steeper stream gradient, which results in a quicker rate of incision, and thus the topographic diversity seen in the unit. Here, a hiker/backpacker can easily find shelter from surrounding views and sounds, and thus solitude, while also finding excellent, appealing travel routes. This topography also mediates any solitude that may be compromised by the Walnut Springs cherrystem.

The rolling grasslands and drainages of the Walnut Mountain proposed LWC offer calming, simple travel to the backcountry hiker/backpacker. Here, one can wander these drainages and interspersed hills indefinitely, constantly in a state of solitude and non-confinement. An excellent day hike could be to follow Harris Camp Canyon up stream from the western boundary, veer out of the main canyon, and summit Walnut Mountain for incredible views of southeastern Arizona.

### **Regarding Both Units**

The Arizona Game and Fish Department's online conservation tool, Habimap<sup>2</sup>, ranks the majority of both units as high in their Species of Economic and Recreational Value (SERI) model. Arizona Game and Fish uses their SERI model to represent *"the economic and recreational importance of 13 of Arizona's huntable species. The distribution of these species influences important aspects of wildlife related recreation and the distribution of consumer spending across the state. Together, the economic and recreational importance of game species to hunters, the community, and the Department provide a realistic view of the importance of game habitat for conservation"* ([www.habimap.org](http://www.habimap.org)). Thirteen species are considered in this model; those most common in these two units include mule deer, javelina, mountain lion, and gambel's quail. The large swathes of undeveloped land comprising these two units thus offer exceptional hunting opportunities.

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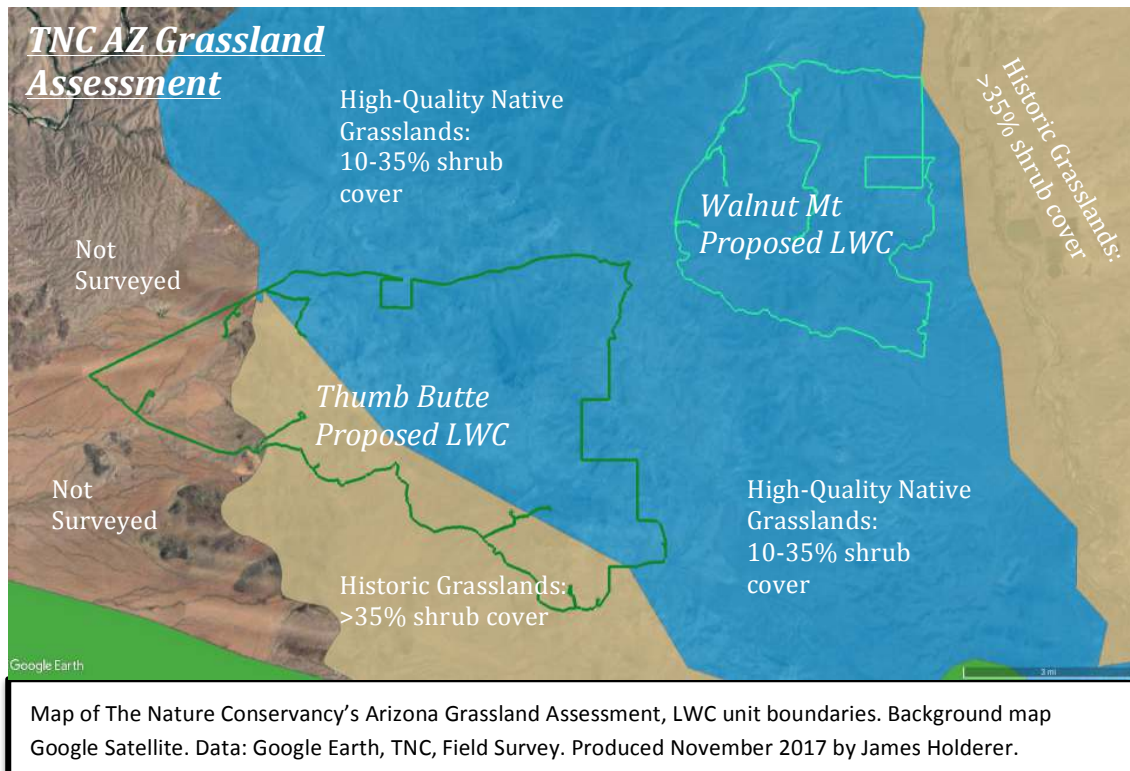
<sup>2</sup> AZGFD. Habimap. Date accessed: November 13, 2017. Online tool available at: [www.habimap.org](http://www.habimap.org).

## Supplemental Values

### **Both units contain high-quality native grasslands, a rarity in SE Arizona**

The Nature Conservancy (TNC) is an international conservation organization dedicated to preserving life in all of earth's ecosystems, through the use of objective science. TNC and partners delineated the spatial extent and ecological condition of grasslands in much of the southwest, and created a regional map to show this<sup>3</sup>. The following map shows the proposed LWC unit boundaries and the extent of grassland conditions within them and the region.

In the map below, notice that a large portion of the Thumb Butte proposed LWC and the entirety of the Walnut Mountain proposed LWC are documented as being "high-quality native grasslands: 10-35% shrub cover". Areas titled "Historic Grasslands: >35% shrub cover" were once grasslands, likely prairies, but no longer are. These high-quality native grasslands are relics of the past, having survived a century of poor grazing practices. These high-quality native grasslands are semi-arid grasslands: an eco-tone of prairie grasslands, desertscrub, and interior chaparral, different from the true prairies of the SE Arizonan valleys. However different from the fabled, true prairies of SE Arizona, these semi-arid grasslands are also becoming rare, equally prone to shrub encroachment and negative effects of poor grazing practices. Designating these units as LWC's will help preserve these rare, native desert grassland ecosystems.

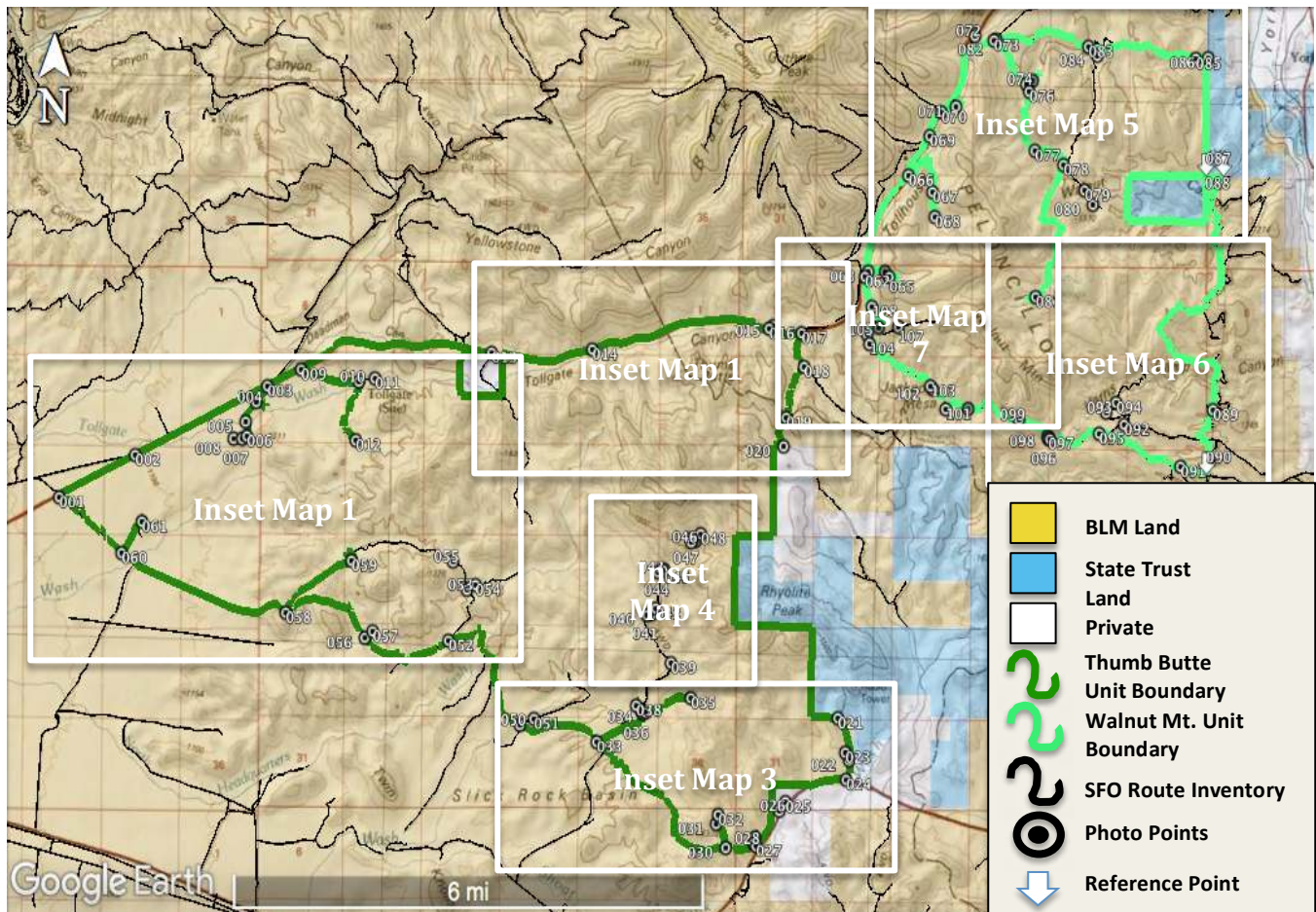


<sup>3</sup> Gori, David F., and Carolyn A.F. Enquist. 2003. An assessment of the spatial extent and condition of grasslands in central and southern Arizona, southwestern New Mexico, and northern Mexico. Prepared by The Nature Conservancy, Arizona Chapter. Available online at: [http://azconservation.org/downloads/category/grassland\\_assessment](http://azconservation.org/downloads/category/grassland_assessment).

**Both units are home to sensitive species of concern listed by Arizona Game and Fish**

The Heritage Data Management System, administered by Arizona Game and Fish Department, lists special-status species by USGS quadrangle. These lists can be found at [www.habimap.org](http://www.habimap.org)<sup>4</sup>. The proposed LWC's covers portions of five quadrangles, shown below. Tollgate Tank and Ash Peak overlap with the Thumb Butte proposed LWC. Ash Peak, Sheldon, York, and Guthrie overlap with the Walnut Mountain proposed LWC. Note the Tollhouse Canyon Talussnail, an endemic to Tollhouse Canyon, which runs along the northern boundary of both units. LWC designation is compatible and beneficial to the protection these species of concern.

**Section 3: Maps and Description of the Unit Boundary, Routes, and Impacts**

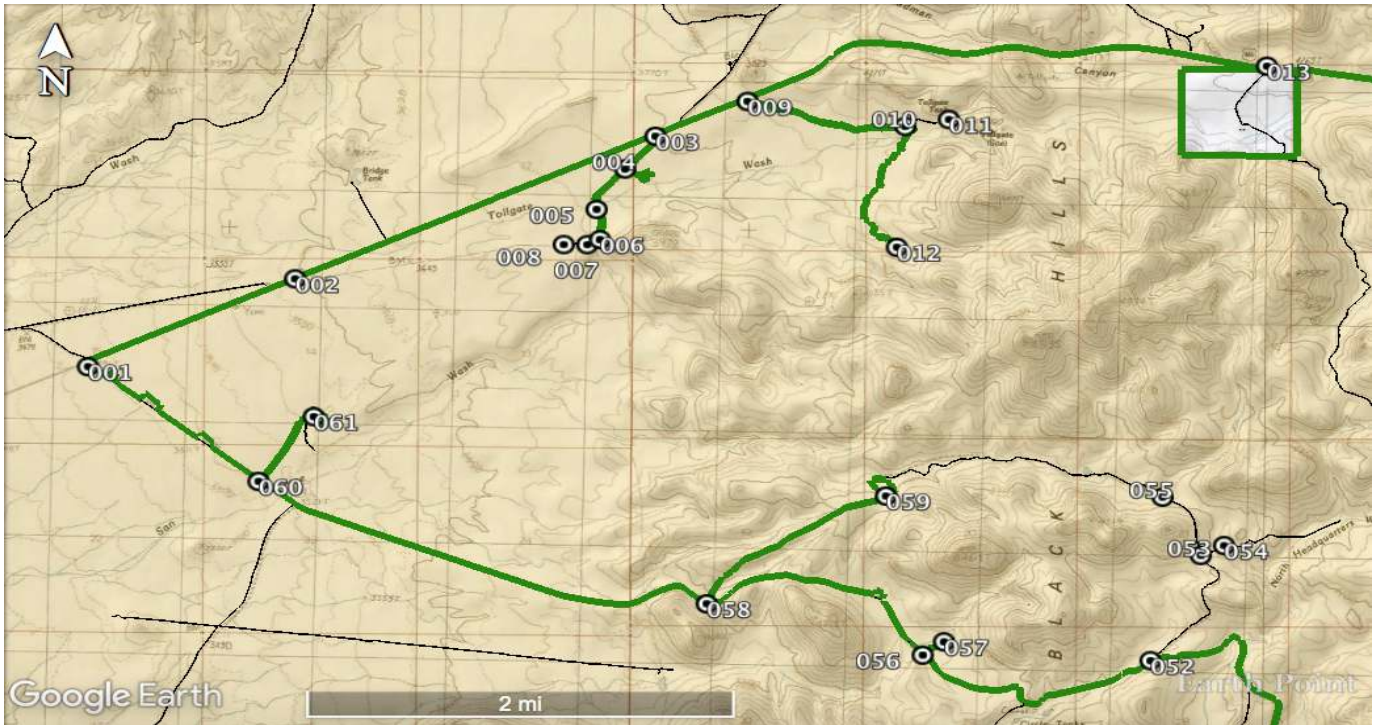


Summary – This map is meant to be used a key to proceeding inset maps for both units. Following this key on pages 22-25, finer-detail maps can be found which offer increased clarity on photo point locations and their context. The layer titled ‘SFO Route Inventory’ reflects spatial data acquired from the BLM regarding the Safford Field Office’s route inventory. ‘Photo points’ reflect location of qualitative data collected during the field survey, viewable in *Section 4* of this proposal. ‘Reference Points’ are points that have been placed on this map to aid in discussion, but have no associated field survey data.

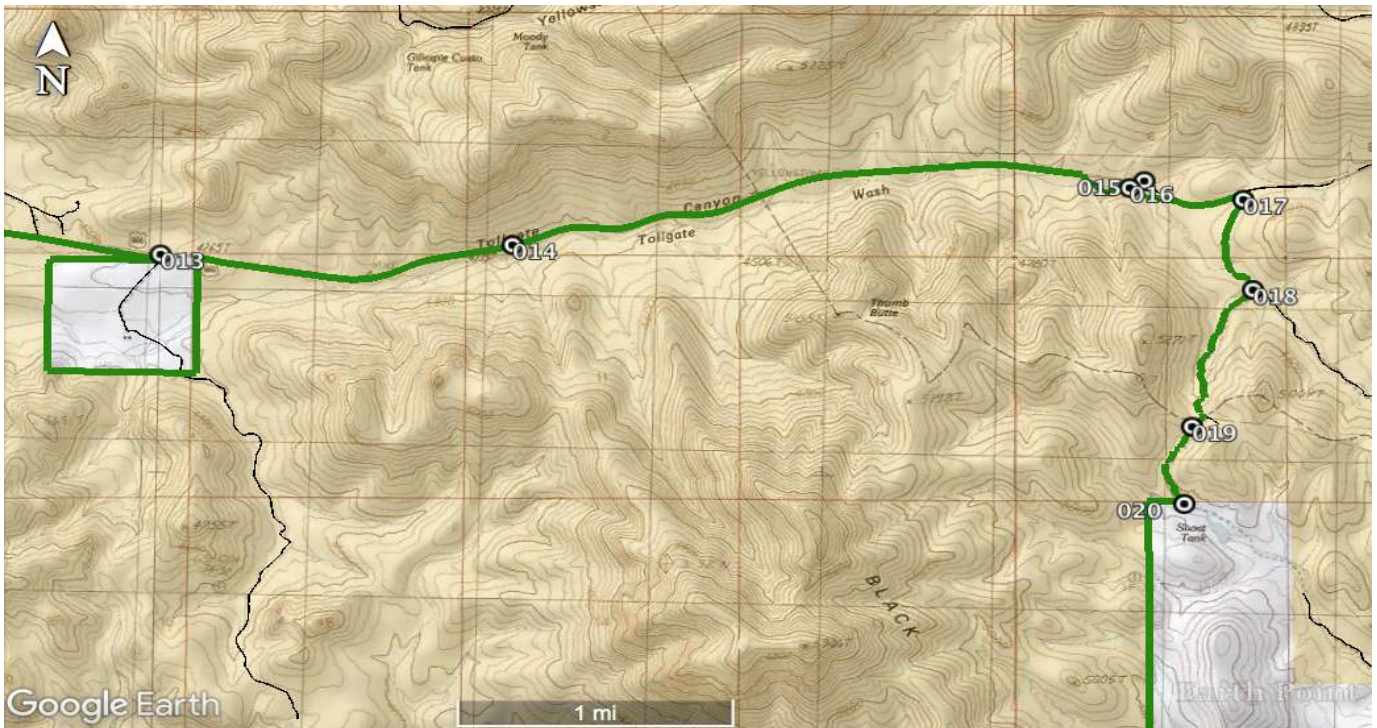
<sup>4</sup> AZGFD. Habimap. Date accessed: November 13, 2017. Online tool available at: [www.habimap.org](http://www.habimap.org).

Detail Maps with Photopoint Locations

Maps 1 & 2



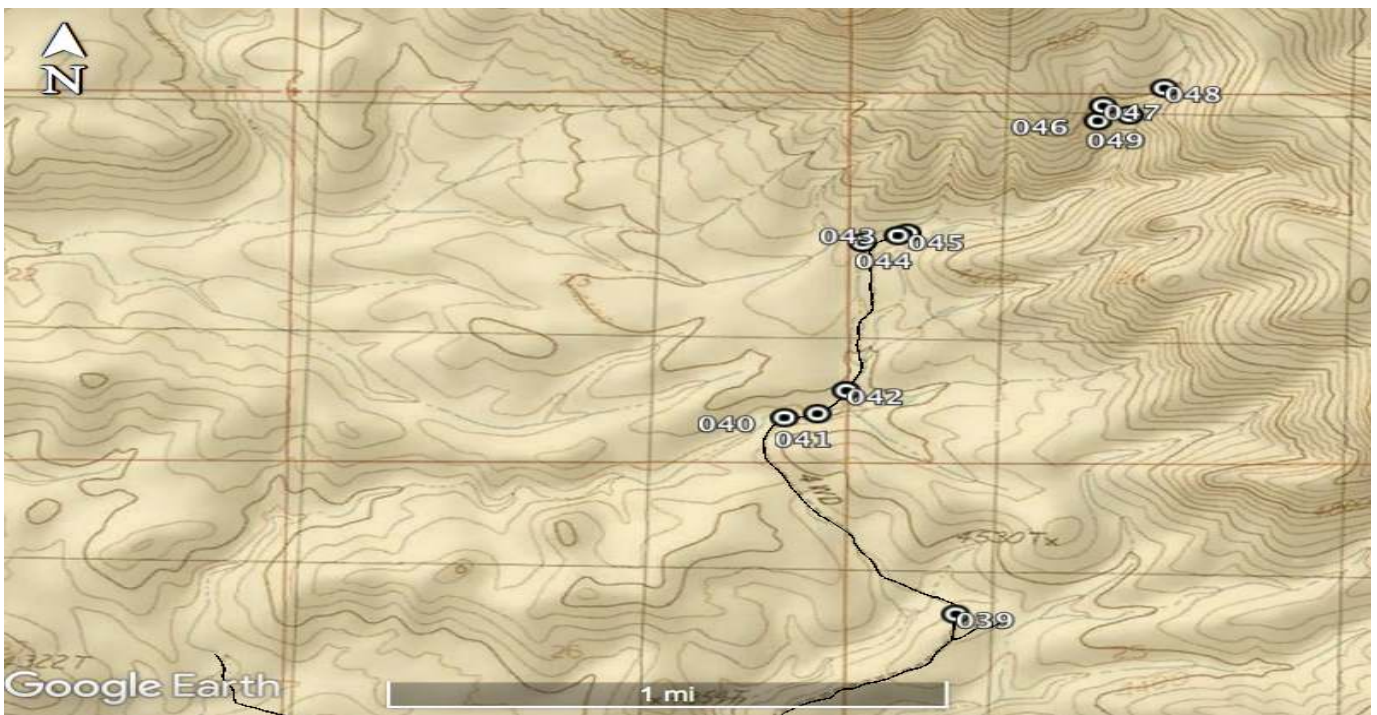
Inset #1 – Showing the western half of the Thumb Butte proposed LWC. Featuring numerous cherrystems, primitive ways, and a private inholding.



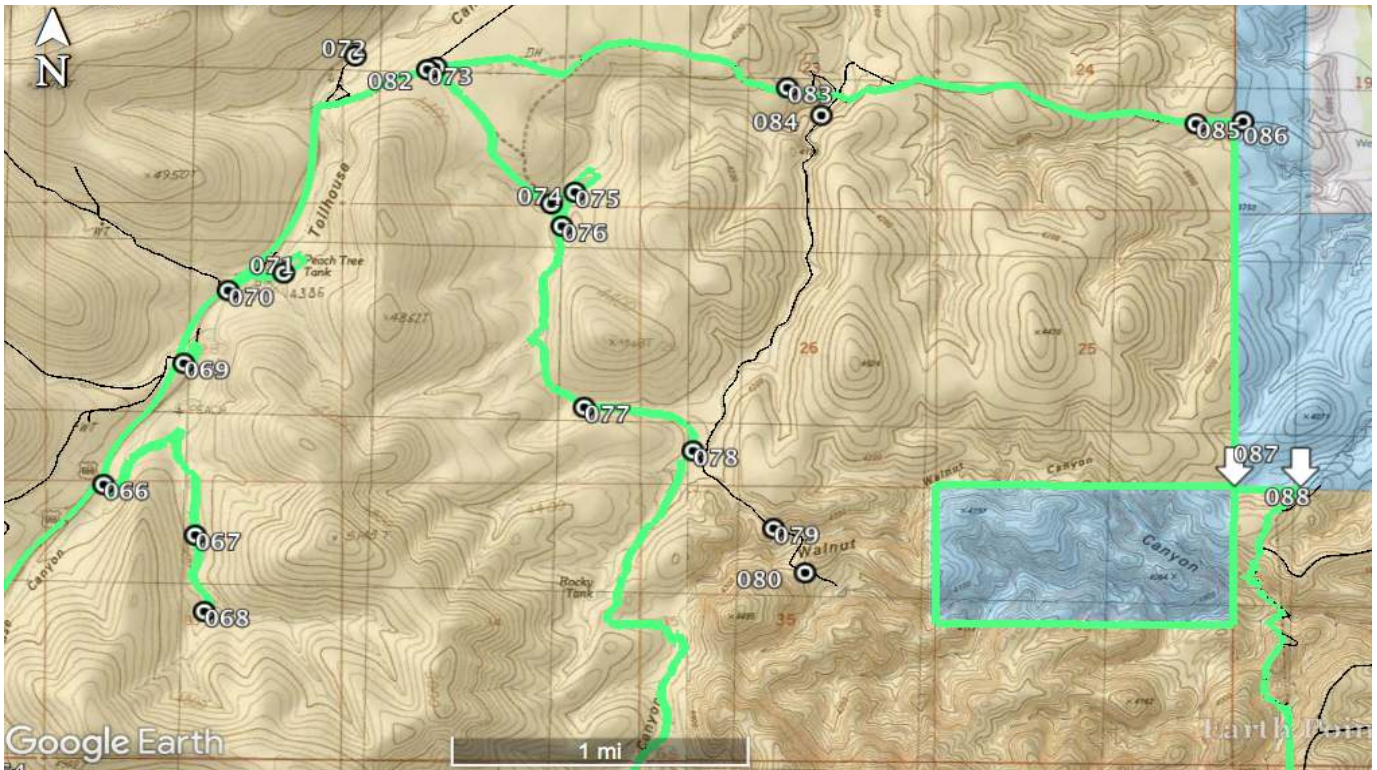
Inset #2- Showing the northeastern corner of the Thumb Butte proposed LWC. Featuring primitive ways, a private inholding, and boundary defined by private land ownership.



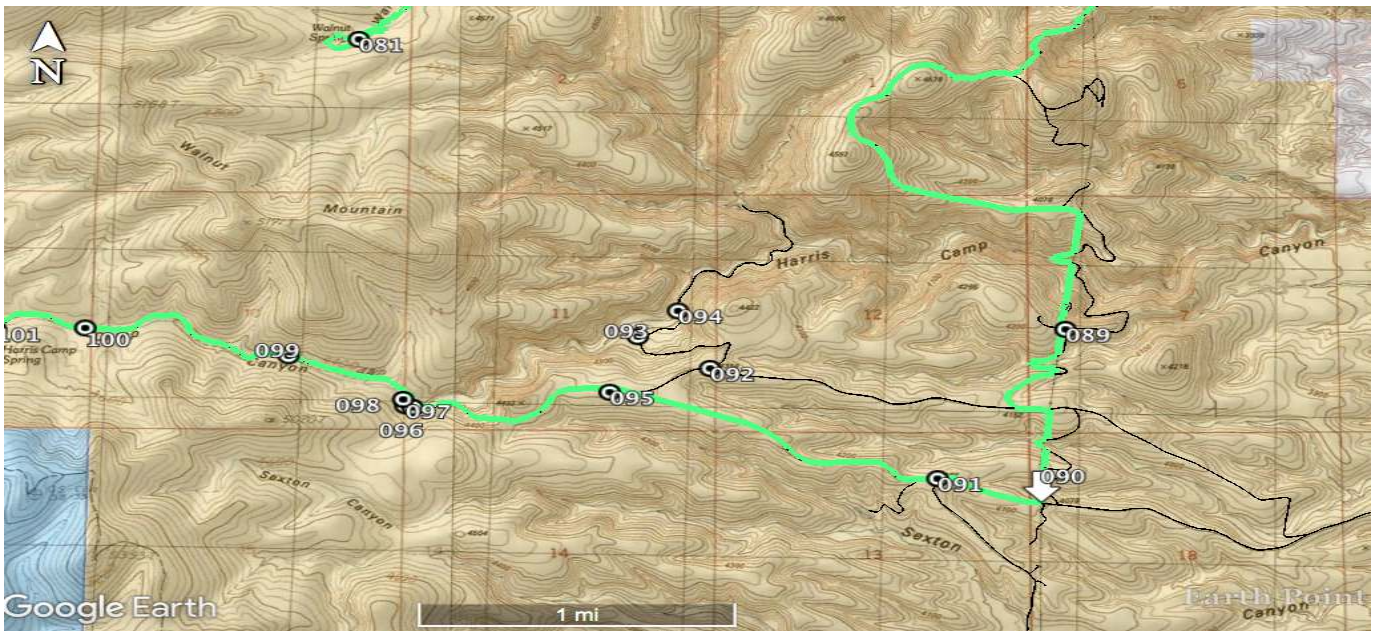
Inset #3- Showing the southeastern corner of the Thumb Butte proposed LWC. Featuring a couple cherrystems, primitive ways, and unit boundaries defined by land ownership.



Inset #4- Showing a primitive way heading north into the Black Hills. Also features several acceptable human impacts.



Inset #5- Showing the northern half of the Walnut Mountain proposed LWC. Features several cherrystems, primitive ways, a state-owned inholding, and boundaries defined by wilderness inventory roads, state-trust land, and power lines.



Inset #6- Showing the southeastern corner of the Walnut Mountain proposed LWC. Showing several ways, topographic diversity, the end of the Walnut Springs cherrystem, and boundaries defined by power lines and wilderness inventory roads. The southern border here is Harris Camp Canyon Rd.



Inset #7- Showing the southwestern corner of the Walnut Mountain proposed LWC. Features two cherrystems and a primitive way.



## Narrative Description of the Proposed LWC Boundary and Vehicle Routes

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### The Thumb Butte Proposed LWC Narrative Description

#### Northern Boundary: Points 001 – 016; U.S. Highway 191/666.

- **001** is taken at the western corner of the unit, and looks down the southern boundary showing the condition of Old Highway 70, a wilderness inventory road.
- **002** and **005** show a reclaimed route, which is visible in satellite imagery. This route was likely used to access/construct the fence line it parallels with.
- **003 – 006** (excluding 005) show road conditions and excluded impacts of a cherrystem.
  - **003** shows the entrance to the cherrystem from U.S. Highway 191. The entrance is gated; construction and maintenance are evident.
  - **004** shows a route used to access a stockpond. Although there are no signs of maintenance on this route, it has been excluded due to close proximity to other impacts.
  - **006** shows a used and maintained corral. It is excluded along the cherrystem.
- **007** shows a reclaimed way travelling south from the previously discussed cherrystem. This way has no apparent purpose, and is in fact blocked off by fencing. It does not affect naturalness.
- **008** shows the end of a BLM route, where it becomes unmaintained, without signs of construction, and without signs of use. It does not effect naturalness and is an acceptable impact.
- **009** and **012** documents a cherrystem.
  - **009** shows the entrance to the cherrystem, which is gated.
  - **012** shows the purpose of the road: access to two maintained water cisterns and a livestock watering trough. This feature is screened by by the surrounding Black Hills and thus does not significantly affect naturalness within the unit.
- **010** shows an unmaintained way which no longer serves a purpose. It leads to a canyon, which contains Tollgate Tank. It minimally effects naturalness and is substantially unnoticeable.
- **011** shows Tollgate Tank canyon. Tollgate Tank itself is visible below the willow tree in the picture. This tank, and the other tank above it, are completely sediment laden and are thus no longer functional. Several long pieces of cut piping litter the ground, adding further evidence to the belief that this tank is no longer used. These tanks are substantially unnoticeable and minimally effect naturalness because they are hidden within a canyon.
- **013** shows a locked, gated entrance to a private inholding. Beyond the fence the route is evidently a road, showing signs of construction, maintenance, use, and purpose. However, this is believed to only be the case within the private inholding. The route is showing in the BLM route inventory to continue out of the inholding, onto BLM land. Upon close analysis of satellite imagery, it is easy to notice the route primarily follows a natural wash and leads to an old stockpond called 'South Tank Reservoir'. Although we could not gain access to this potential impact, we believe it to be a way because it follows a natural wash

and access is constricted by the private inholding. Stockponds are considered acceptable impacts in BLM manual 6310.

- **014** is a photo of the scenic beauty along the northern boundary of the unit, looking south.
- **015** shows where the northern boundary transitions off U.S. Highway 191 onto a graveled, gated road. The graveled road eventually transitioned to striped pavement.
- **016** shows an excluded stockpond. Neighboring this stockpond is a corral and some equipment, which have been excluded too. This exclusion is part of the unit boundary, not a cherrystem.

*Eastern Boundary: Points 017-027. Two wilderness inventory roads, state trust land, and private land constitute this boundary.*

- **017** shows the entrance to unit boundary wilderness inventory road. Although it is in rough shape, much of this route shows signs of maintenance, was obviously constructed, and serves a purpose. A sign at the entrance offers advice to hunters, and it seems to be a key route to access private land to the south.
- **018** shows a junction of two roads. The road which leads off southwest/in the picture to right is the unit boundary.
- **019** documents the condition of the unit boundary. Here it is a two-track lacking signs of recent maintenance.
- **020** shows the southern entrance to a wilderness inventory road, and marks the transition of the unit boundary being defined by a road to being defined by land ownership. From here to point **021**, the unit boundary is defined by a both private and state-owned lands (see unit map on page 7 or Inset Map #2 and #3).
- **022-024** shows a wilderness inventory road as the unit boundary.
  - **022** shows a junction along the unit boundary. The route, which goes northwest/left in the photo, leads to a defunct stockpond at point **023**.
    - This has been cherrystemed out of the unit, regardless of condition.
  - **024** shows the entrance to the unit boundary, wilderness inventory road and its condition.

*Southern Boundary: Points 025-061; I-70 and Old Highway 70.*

- **025** shows a revegetating way leading through private land and then entering BLM land. A locked gate barred access. Condition on BLM land is inferred to be of the same condition seen here. This is an acceptable impact.
- **026** shows a closure point on an old, reclaimed route. The closure point is in the form of a debris pile. We speculate this old route is actually an abandoned section of Old Highway 70. It connects to a massive erosion feature at point **029**.
- From approximately point **026** to **027** the unit boundary is I-70.
- **027** shows the entrance to Old Highway 70, the wilderness inventory road, from I-70.
- **028-029** show a cherrystem of an old, abandoned part of Old Highway 70. This section of road likely connected to the closure point of **026**. However, access to Old Highway 70 to I-70 has been rerouted to point **027**. This is cherrystemed because the road has clearly been maintained recently and is in excellent shape, even though it serves no evident purpose anymore.

## *Thumb Butte & Walnut Mountain Proposed LWCs*

- **030-032** show a cherrystem which excludes a water cistern, catchments, and related access roads.
  - **030** shows the entrance to the cherrystem from the southern unit boundary.
  - **031** shows the used and maintained water cistern.
  - **032** shows piping which channels water from a Boy Scout project created concrete water catchment, to the water cistern downslope at point **031**.
- **033-038** show a cherrystem feature, which excludes two stockponds and their related access routes. A primitive way continues north of this cherrystem.
  - **033** shows the entrance to this cherrystem.
  - **034** shows the condition of a road leading to a stockpond at point **035**.
  - **036-037** show the conditions of a road leading to a stockpond, titled North Rock Tank on USGS topographic maps, at point **038**.
- **039-040** show the typical condition of the way heading north from the points **033-038** cherrystem. Signs of construction are present in a few locations along this way. This way extends to point **044**. There is no evidence of maintenance along this way and no apparent purpose. It is severely eroded in areas and is being reclaimed by vegetation. It minimally effects naturalness and is substantially unnoticeable. If access were halted, it would rapidly revegetate.
- **041** shows a ruin/archaeological site. The dilapidated, run-down state of this feature shows it is dominated by the forces of nature, and thus minimally affects naturalness. It in fact adds wilderness character for this reason.
- **042** shows a small rock dam. It minimally effects naturalness and is substantially unnoticeable because it is tucked in a drainage.
- **043** shows a run-down, dilapidated corral which is being revegetated. It minimally effects naturalness and is substantially unnoticeable, because it is over-grown and broken down.
- **045** shows a stockpond. It minimally effects naturalness and is substantially unnoticeable because it is tucked into the steep topography of the Black Hills.
- **046** and **049** show the wilderness character of a canyon in the Black Hills.
- **047-048** show two separate stockpond dams. They minimally effect naturalness and are substantially unnoticeable because of the topography they are set into.
- **050-051** show a low impact way. At the beginning the way it is debatably navigable, however as one travels down, it becomes highly revegetated and unrecognizable. It minimally effects naturalness and is substantially unnoticeable.
- **052-054** show ways with no apparent purpose and a lack of maintenance.
  - **052** shows the entrance to the way, looking maintained, however this is the best section of the way, and its condition quickly deteriorates further down.
  - **053** shows the lack of maintenance of the way, in the form of large creosote bushes growing in the middle of the way.
  - **054** shows another way heading into the hills with no apparent purpose. This picture show erosion and revegetation. It is not maintained.
  - **055** shows an impassable point in the route, featuring high amounts of erosion and revegetation. This hasn't been maintained. Beyond this impassable point, the road continues to be eroded and is in a state of revegetating. It seems at one point there was historic connectivity to point **058**. However, this connection is no longer maintained and serves no purpose.
- **056-057** shows a short cherrystem to a water cistern.

- **056** shows the entrance to the cherrystem, and the road which is the access route for the water cistern.
- **057** shows a used and maintained water cistern. It is fed by pipes leading to a catchment in the canyon just north of it.
- **058-059** show a cherrystem to an AZGFD game water catchment.
- **060-061** show a cherrystem to a substantial stockpond. Other ranching equipment was present at this stockpond during the time of field survey, implying use as a general ranching access point.

## **The Walnut Mountain Proposed LWC Narrative Description**

### *Western Boundary: Points 062 -071; U.S. Highway 191.*

- **062** shows the entrance to the southern unit boundary, Harris Camp Canyon Road, from the western unit boundary, U.S. Highway 191.
- **063-065** show a short cherrystem which encompasses several excluded impacts.
  - **063** shows maintained construction equipment, which implied this area is actively used.
  - **064** shows an unidentified piece of equipment. Seems to be used and maintained.
  - **065** shows an actively used stockpond. The cherrystem ends at the far end of this stockpond.
- **066-068** show another cherrystem which include a water cistern, livestock watering trough, a stockpond, and an access route. All impacts here are excluded.
  - **066** shows the entrance to the cherrystem and the condition of the route.
  - **067** shows a water cistern and livestock watering trough.
  - **068** shows a stockpond.
- **069** shows a gated, graveled lot. There is no apparent purpose, however it has been excluded from the unit because of close proximity to the unit boundary, and an unnatural appearance.
- **070-071** show a cherrystem to an excluded stockpond.
  - **070** shows the typical condition of the stockpond access route: maintained, constructed, and used.
  - **071** shows the stockpond and equipment. This area is clearly in used and is maintained, and should thus be excluded from the unit.

### *Northern Boundary: Points 072-086, wilderness inventory road w/ unknown name that accesses state trust land.*

- **072** is not actually in the unit, it shows the access point to the wilderness inventory road which is the unit boundary. This stretch of road is clearly maintained, constructed, and used, as it connects to many routes in the unit.
- **073-077** and **081** show the large Walnut Springs cherrystem. This cherrystem excludes Walnut Springs and the cistern and corral found there, as well as a stockpond on the way. This cherrystem is of significant size, however due to the topographic diversity surrounding it, a backcountry recreationist can be easily unaffected by it and its use. Two ways branch off of this cherrystem at points **074** and at **078-080**.
  - **073** and **077** show the typical condition of the cherrystem: constructed, maintained, and used.

*Thumb Butte & Walnut Mountain Proposed LWCs*

- **074** shows a way that has no apparent purpose, is eroded, revegetating, and thus clearly has not been maintained. This minimally effects naturalness and is substantially unnoticeable.
- **075-076** show a stockpond, equipment, and an access route. This has been excluded from the unit along the Walnut Springs cherrystem because it is clearly in use by ranchers.
- **081** shows the water cistern at Walnut Springs. West of here is the actual geologic feature, Walnut Springs, which has been manipulated to feed the cistern. This too is excluded. The corral east of the cistern is also excluded. All impacts are small in comparison to the surrounding landscape. Thus, they minimally effect naturalness and are substantially unnoticeable from within the unit. Furthermore, these impacts are screened by lush vegetation, result of Walnut Springs and a corresponding higher water table.
- **078-080** show an eroded way which leads to a stockpond.
  - **078** shows the way looking somewhat maintained, however this is the best section of the route. It is kept open solely by the passage of the vehicles. It suspected this section of the route isn't eroded and impassable like the rest of the route due to forgiving topography.
  - **079-080** show eroded, barely navigable section of the route. This way has not been maintained. This way minimally effects naturalness and is substantially unnoticeable. If use were ceased, it would reclaim rapidly.
- **082, 083, 085** show the typical condition of northern unit boundary road. There is no evidence of recent maintenance, but indeed old evidence. It was clearly constructed. It is likely used to access the state trust land east of the unit.
- **084** shows a reclaimed way which follows a wash and would have connected to the Walnut Springs cherrystem. It is completely revegetated and impassable.
- **086** shows the unit boundary corner, where the wilderness inventory road of points **082, 083, and 085**, meets and enters state trust land. Heading south from here the unit boundary is defined by land ownership for much of the way.

*Eastern Boundary: Points **086-090**; state trust land, power lines and correlated access roads. Several **reference points** were placed on this boundary post-field survey to aid in discussion, and thus have no photo data.*

- From **086** to reference point **087** and to reference point **088**, the unit boundary is state trust land. Southwest of reference point **087** is an inholding of state trust land. This inholding has no obvious access route and is largely undeveloped, thus it has no negative effect on naturalness in the unit.
- In between reference points **088** and **090** runs a substantial portion of the eastern boundary. Power lines and their correlated access roads shape this portion of boundary. This portion was not surveyed because power lines are definitive unit boundaries, and regarding the sections of this portion defined by routes, the routes here are indefinitely roads because they are the only means to access the power lines by electric companies.
- **089** shows a short route penetrating into the unit from the power line/eastern boundary. Immediately, the route looks maintained, however a short ways eastward on the route, it becomes unmaintained and is currently revegetating. This route serves no purpose. It is

likely that this immediate appearance of maintenance is due to proximity to the power line access road, which is indeed maintained.

*Southern Boundary: Points 091 – 108; Harris Camp Canyon Road. In general, this road is navigable and serves multiple purposes. It is highly eroded on both ends (unit corners), however is likely to be maintained when needed. Access from the east is very difficult, as a portion of the road is controlled by private landowners at the intersection with Burma Road in the Gila River Valley, who are not keen on letting people through.*

- **091** shows the typical condition of Harris Camp Canyon Road up to point **095** which is a water cistern and corral. The recent maintenance exhibited here ends approximately at point 095.
- **092** shows a way that is completely reclaimed and unrecognizable. The only reason its existence was acknowledged was its record in the BLM route inventory.
- **093-094** show a way which is highly eroded, revegetating, and unmaintained. **094** shows it following a natural wash. There is no apparent purpose.
- **096, 099, and 100** show the typical condition of Harris Camp Canyon Road past point **095**. The road routinely crosses the wash at the bottom of Harris Camp Canyon and meanders back and forth along its flood plains.
- **097** shows an impassable wash-out at a wash crossing. Although impassable, the rest of the route is mostly in good shape. This wash-out will likely be remedied in the near future or as needed.
- **098** shows ranching infrastructure; a cistern and a solar panel are present. This is excluded.
- **101** shows a stockpond located near Harris Camp Canyon Spring. A man was present at the site with a John Deer tractor. Harris Camp Canyon Road was undoubtedly used as his access route.
- **102** shows a barbed wire gate across the road. Heading west from this point, the condition of the road becomes questionable. Notably much less use, and less evidence of maintenance. This is apparent in point **103**. These conditions continue to point **104**. Although less maintenance is apparent on this stretch of road, due to the multiple uses of this road, maintenance is likely if needed.
- **104** shows an impassable wash-out next to a stockpond.
- **105** shows fencing, a highly impacted pasture, and a stockpond in the background. Harris Camp Canyon Road passes through the pasture.
- **106-107** show a way which is eroded and revegetating. It's purpose seems to have been fence line access, but it is no longer maintained.
- **108** shows the condition of Harris Camp Canyon Road in this portion of the unit. Harris Camp Canyon Road meets back with U.S. Highway 191 at point **062**.

*This ends the narrative description.*

**Section 4: Photopoint Data**

This section contains the photos and associated data tables for each point displayed on the inset maps and described in the boundary description. Data are presented in numbered order as they appear in the boundary description. The table associated with each point includes notes recorded in the field using GeoJot, supporting the rationale for including or excluding the feature in the unit. The associated map shows satellite imagery of the exact location and direction the photo was taken in. Maps, photos, and tables were produced in GeoJot Core.

Attributes	
Point	001
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed, Filled
Route:	Graveled
Improvements	
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route:	Road
Determination	
Route: Maintenance	Very recent blade - past year
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

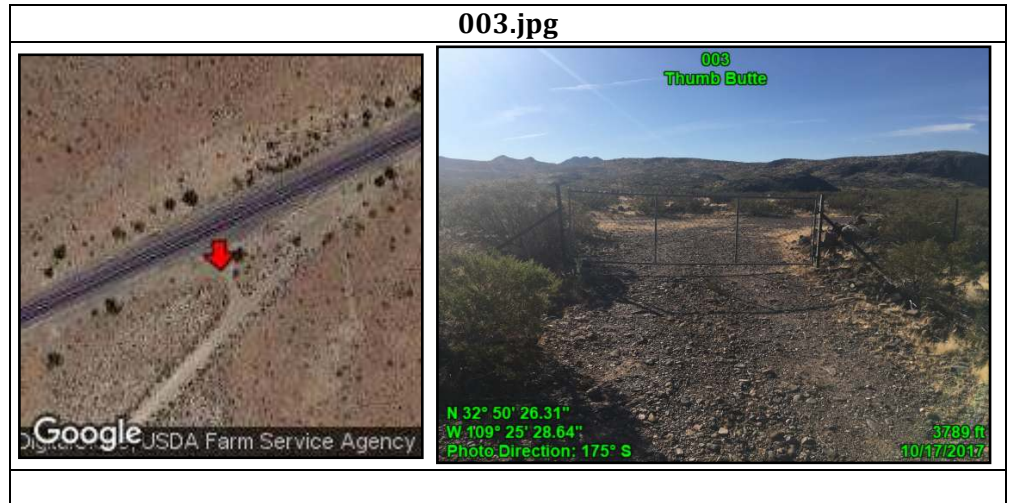
**001.jpg**

Attributes	
Point	002
Unit name	Thumb Butte
Route: name	None
Route: Construction	None
Route:	None
Improvements	
Route: Use	Abandoned
Route: Purpose	Historic fence line access
Route:	Reclaimed & unused
Determination	
Route: Maintenance	None
Other notes	None
Feature	Revegetated and naturalized
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

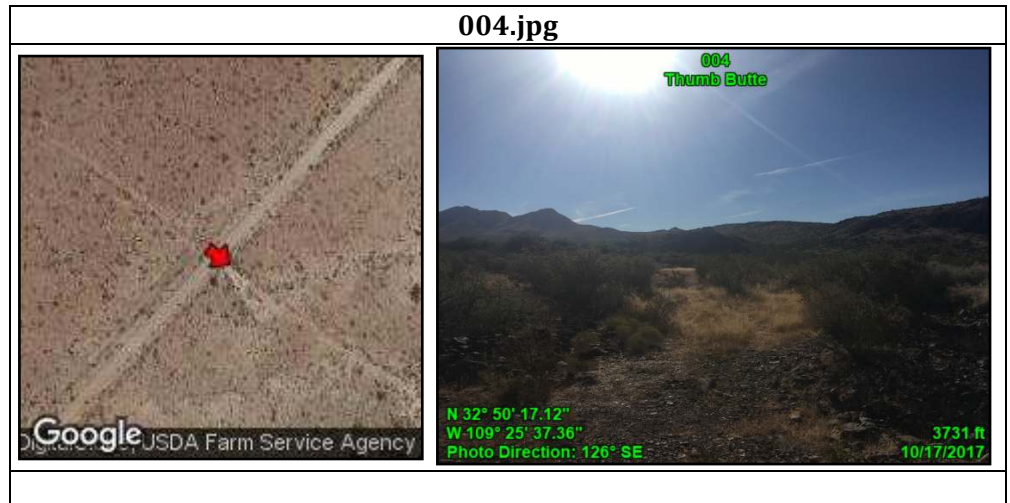
**002.jpg**

Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	003
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	Gated
Route: Use	2-WD Vehicles
Route: Purpose	Corral access
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Unlocked gate
Feature Class	Boundary Element



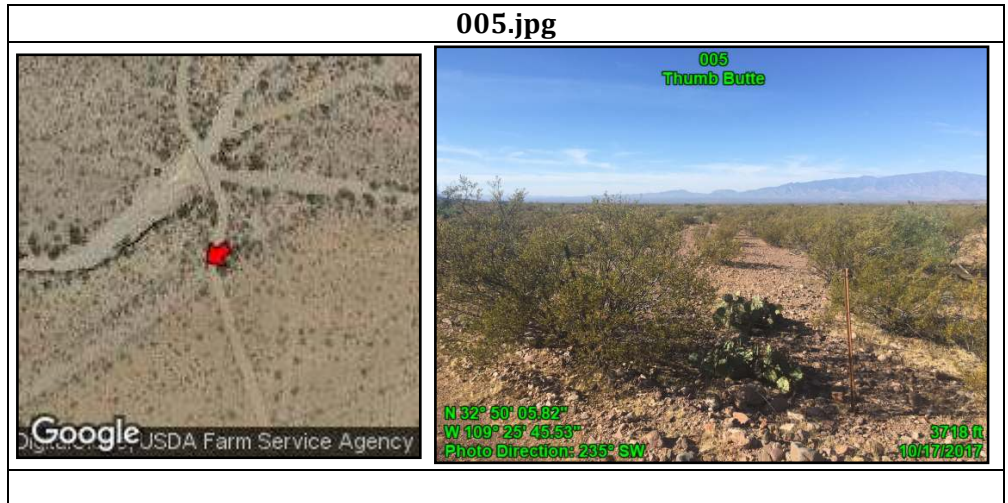
Attributes	
Point	004
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stock pond access
Route: Determination	Road
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	Exclude stock pond at end of road
Feature Class	Boundary Element



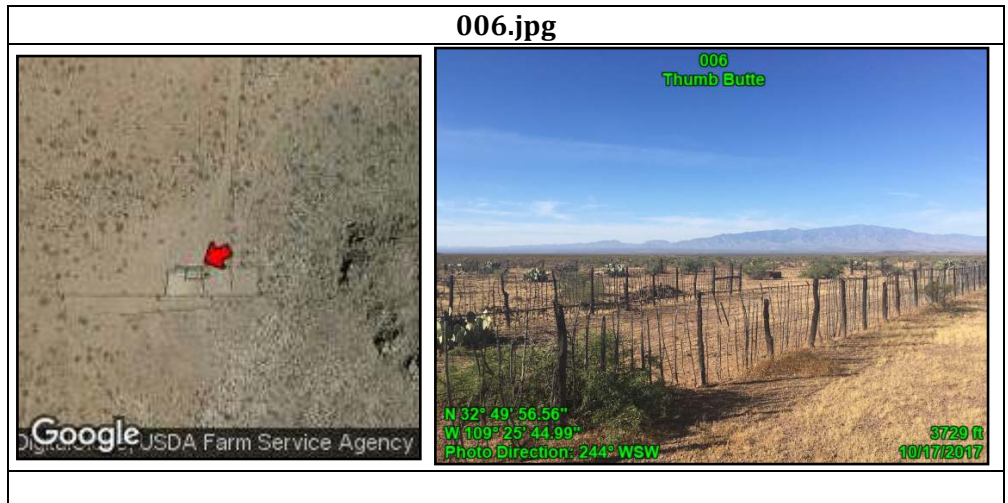


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	005
Unit name	Thumb Butte
Route: name	None
Route: Construction	None
Route: Improvements	None
Route: Use	Abandoned
Route: Purpose	Historic fence line access
Route: Determination	Reclaimed & unused
Route: Maintenance	None
Other notes	Blocked by fence
Feature	Revegetated/Naturalized
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

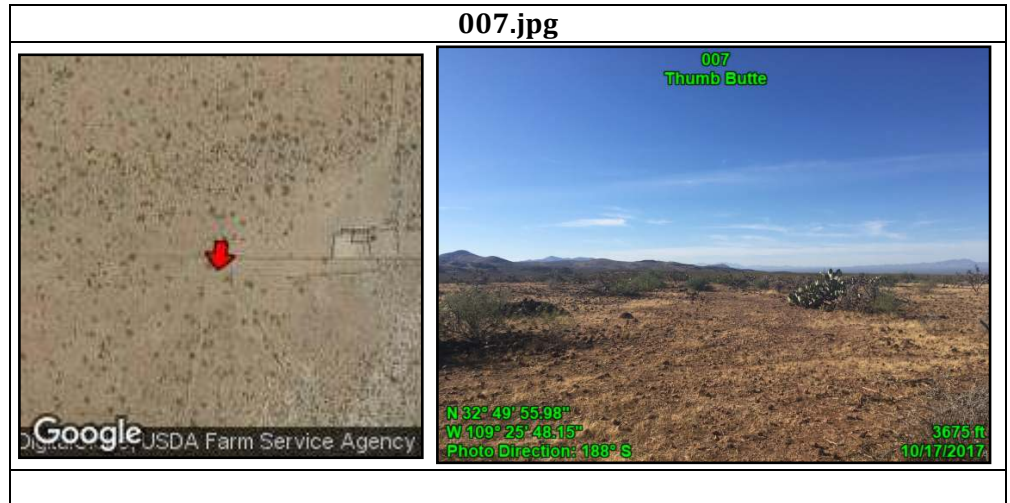


Attributes	
Point	006
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Corral
Feature notes	Maintained and used
Feature Class	Impact: Excluded

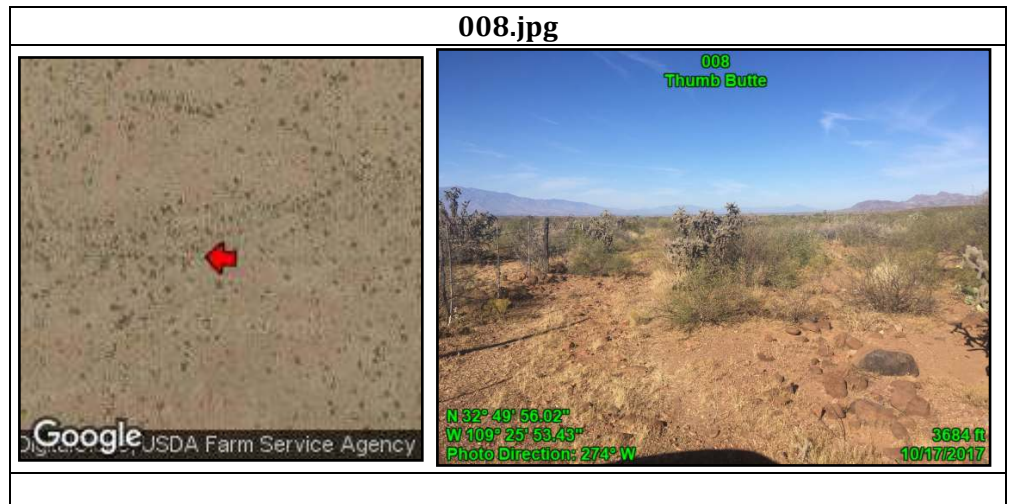


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	007
Unit name	Thumb Butte
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Blocked by fence
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

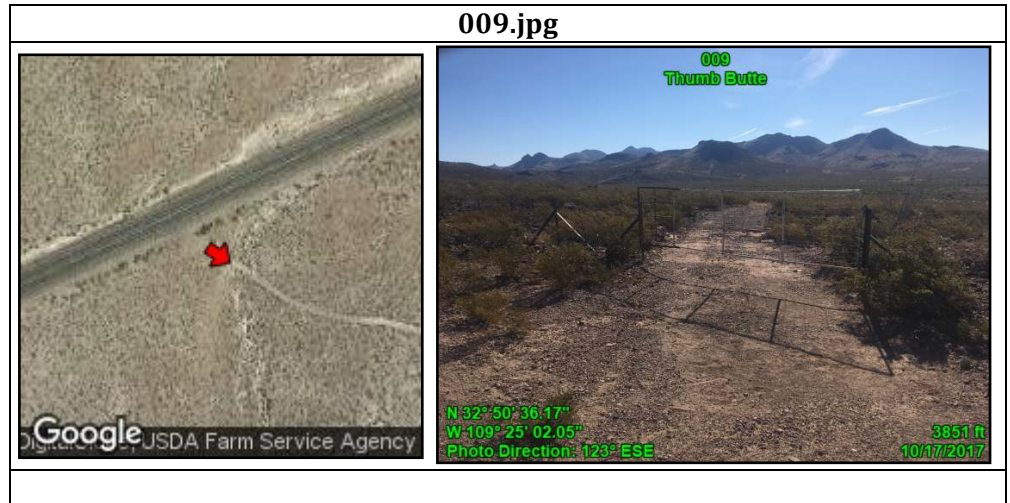


Attributes	
Point	008
Unit name	Thumb Butte
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Follows fence line
Feature	Revegetated/Naturalized
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

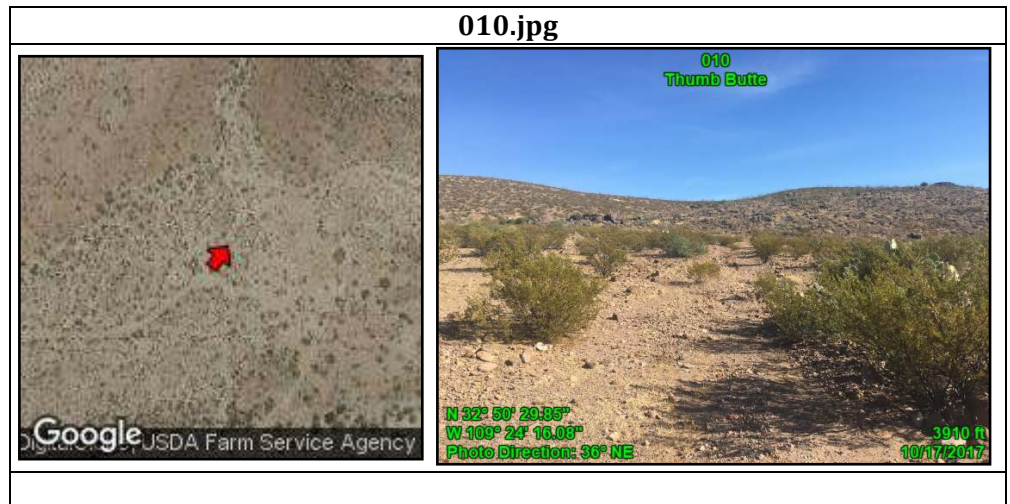


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	009
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	Culverts
Route: Use	4-WD Trucks
Route: Purpose	Water cistern/livestock watering station access
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Gated
Feature Class	Boundary Element

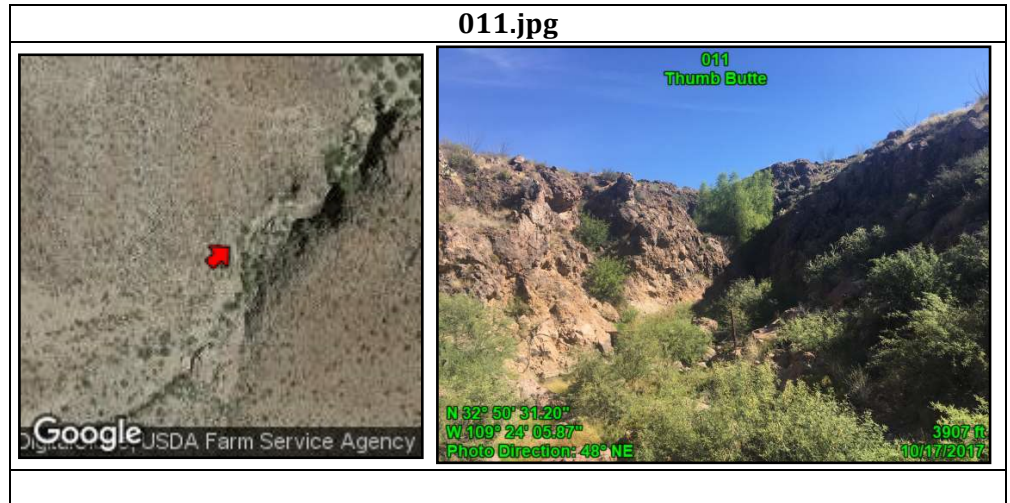


Attributes	
Point	010
Unit name	Thumb Butte
Route: name	None
Route: Construction	Probably only bladed once
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	Tollgate Tank access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

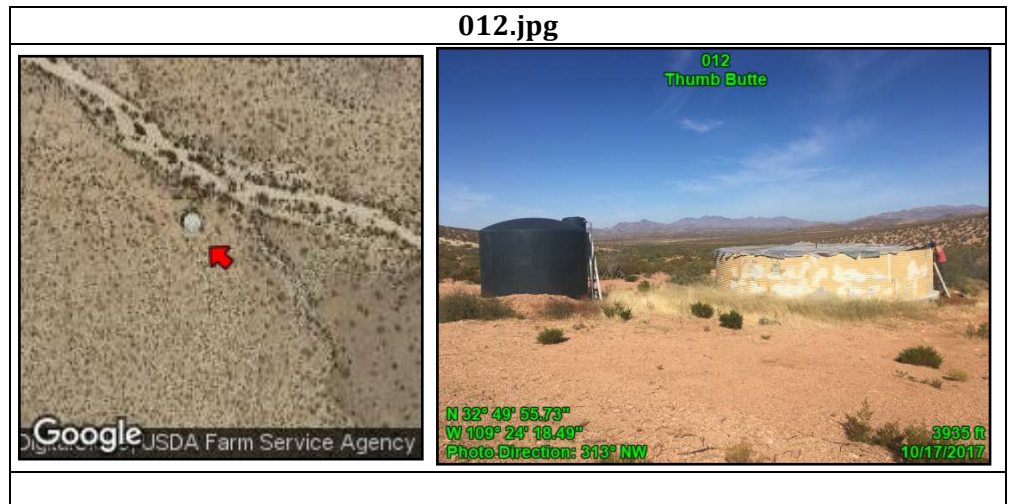


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	011
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Tanks are completely filled with sediment and are thus unfunctional
Feature	Tollgate Tank(s) in this canyon
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

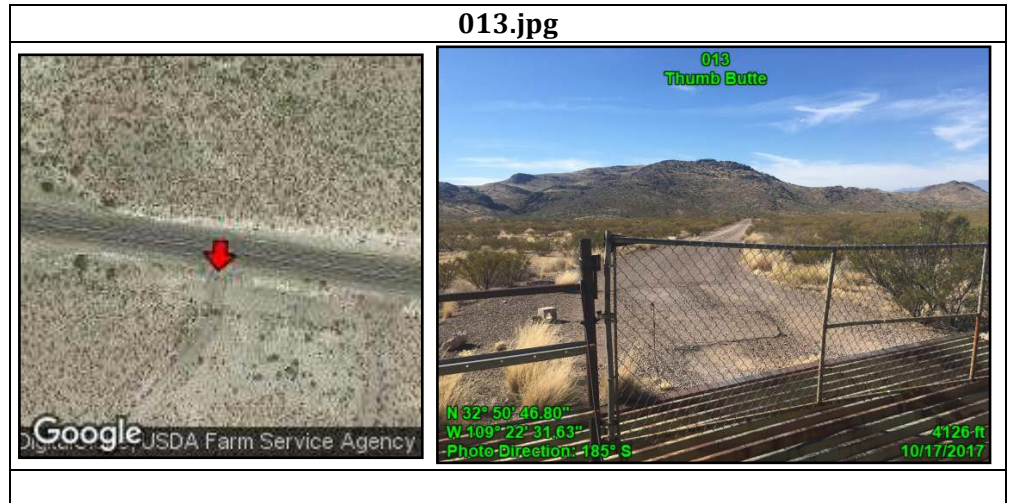


Attributes	
Point	012
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Water cisterns and livestock watering station
Feature notes	Used and maintained
Feature Class	Impact: Excluded

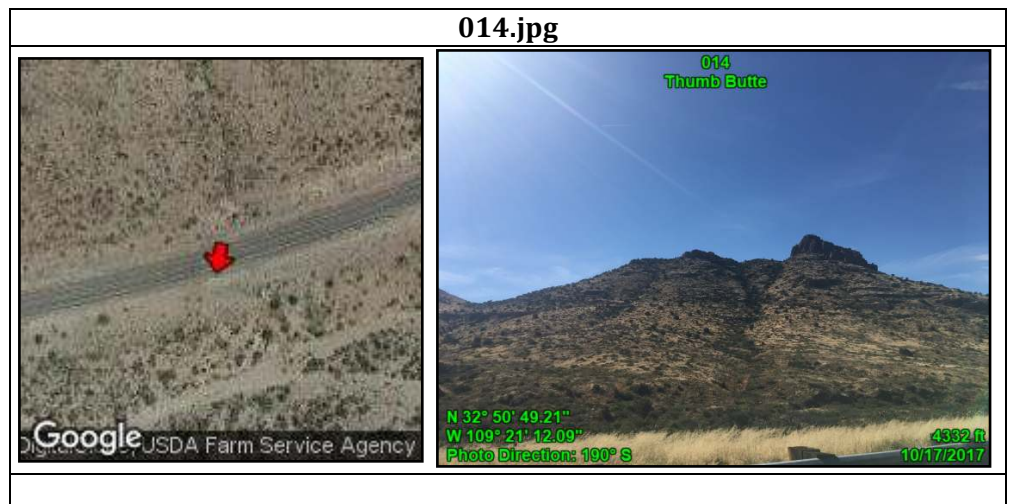


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	013
Unit name	Thumb Butte
Route: name	None
Route: Construction	Unknown
Route: Improvements	Unknown
Route: Use	Unknown
Route: Purpose	Unknown
Route: Determination	Way. No public access, follows a wash south of private inholding.
Route: Maintenance	Unknown
Other notes	SFO route inventory shows route continuing along wash, into BLM land from the private inholding. Inferred to be a way.
Feature	Private inholding, access to SFO route
Feature notes	Locked gate
Feature Class	Primitive Route

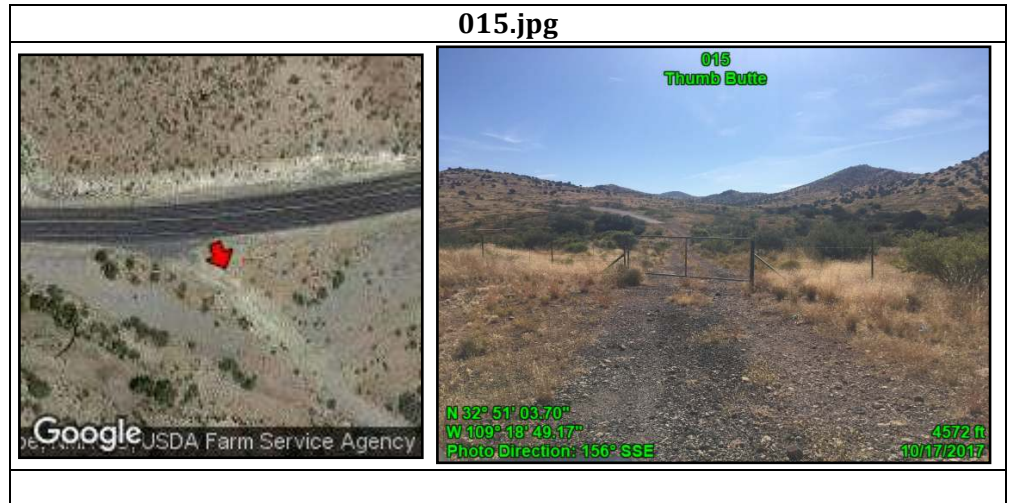


Attributes	
Point	014
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Igneous outcrops like this are abundant in the unit
Feature	Basalt outcrops
Feature notes	Scenic and rock climbing opportunities
Feature Class	Wilderness Character

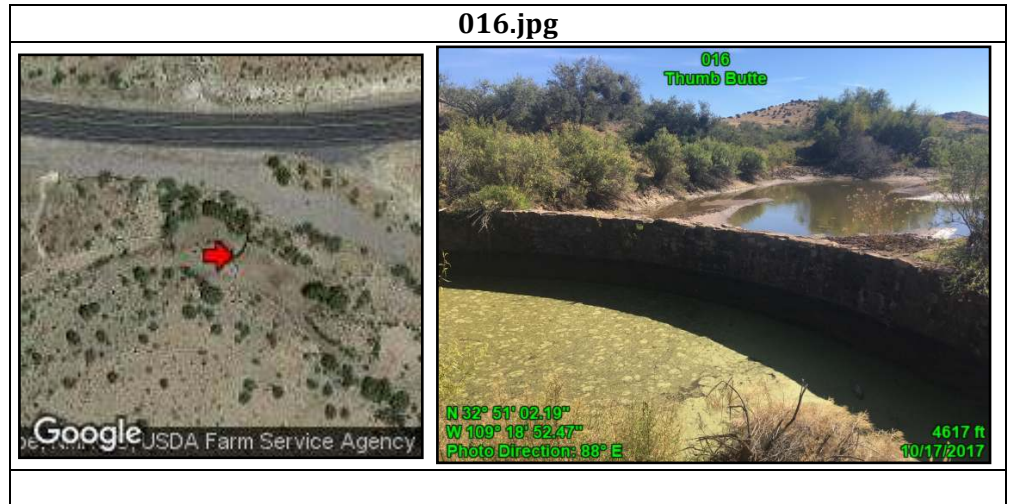


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	015
Unit name	Thumb Butte
Route: name	None
Route: Construction	Paved/chip-sealed/gravel surfaced
Route: Improvements	Paved
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

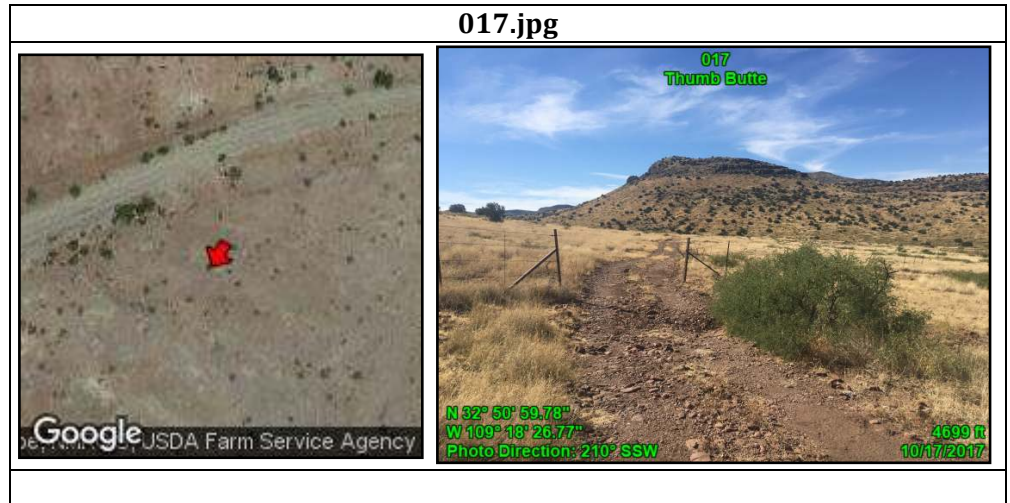


Attributes	
Point	016
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cumulatively impacted area; corral and equipment nearby
Feature	Dam
Feature notes	None
Feature Class	Boundary Element

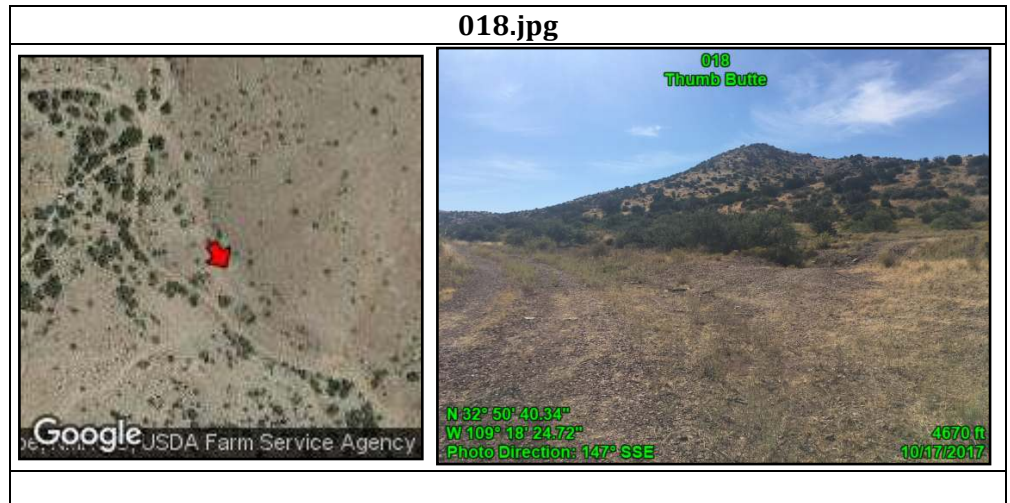


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	017
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	Signed (for hunters)
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Private land access, hunting access
Feature Class	Boundary Element



Attributes	
Point	018
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	None
Feature	Junction of Routes
Feature notes	Unit boundary continues right (in photo)/southwest
Feature Class	Boundary Element



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	019
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route:	Road
Determination	
Route: Maintenance	Recent earthwork
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

**019.jpg**

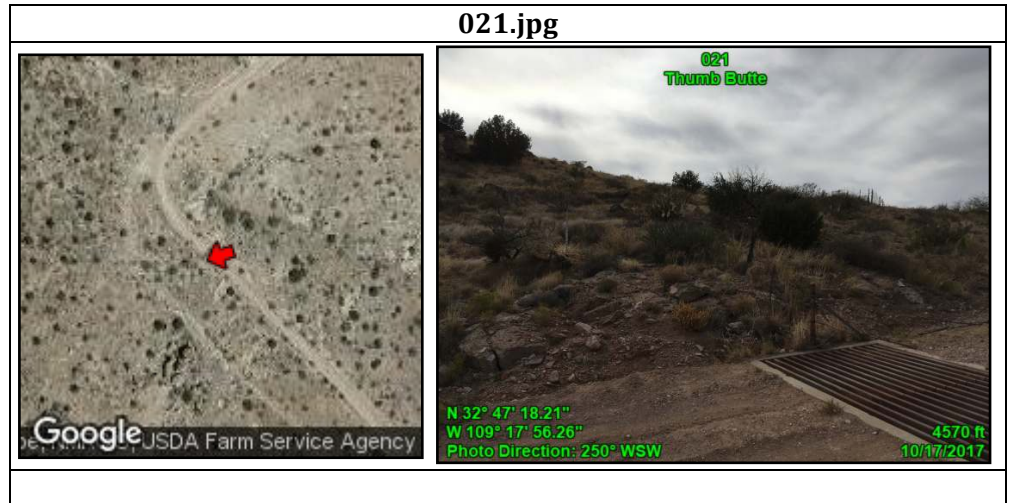
Attributes	
Point	020
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route:	Road
Determination	
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Road enters unit from private land
Feature Class	Boundary Element

**020.jpg**

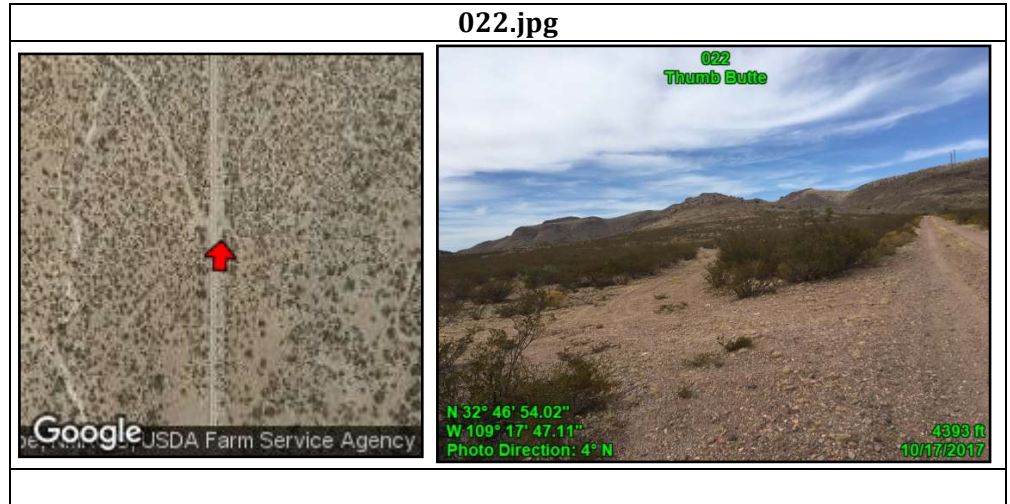


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	021
Unit name	Thumb Butte
Route: name	None
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	None
Other notes	Unit Boundary
Feature	Property line
Feature notes	None
Feature Class	Boundary Element

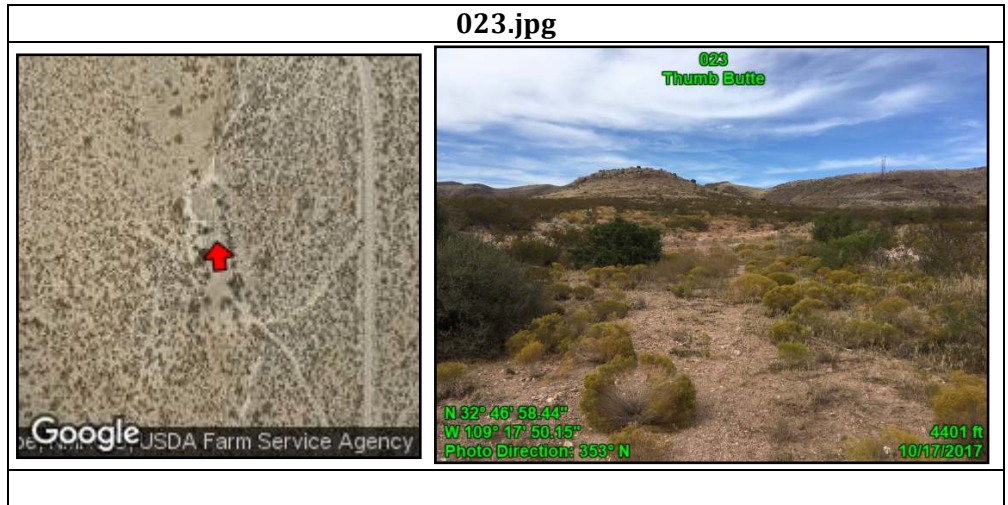


Attributes	
Point	022
Unit name	Thumb Butte
Route: name	
Route: Construction	Bladed
Route:	
Improvements	
Route: Use	No evidence of use
Route: Purpose	Defunct stockpond access (to the north/northwest)
Route:	Way
Determination	
Route: Maintenance	
Other notes	Also shows junction of roads, eastern route is boundary elements
Feature	Typical Condition of Route
Feature notes	
Feature Class	Impact: Acceptable

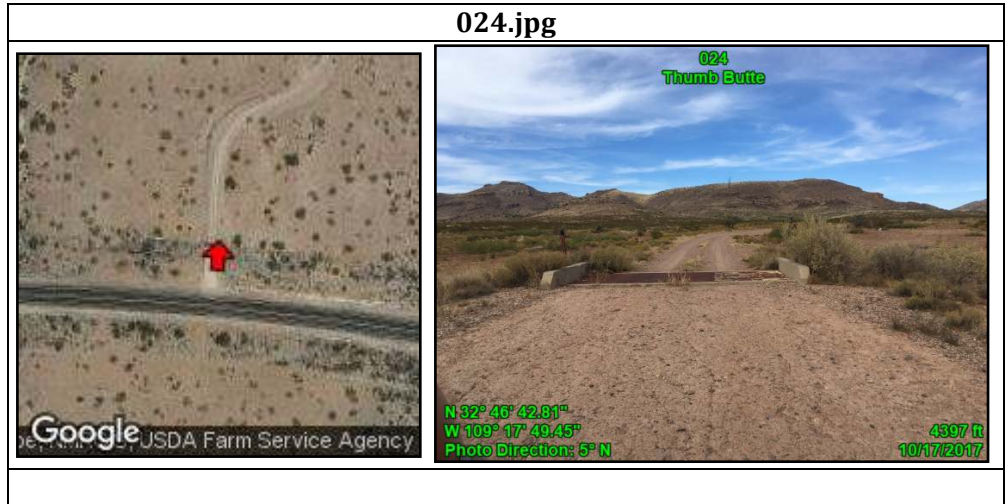


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	023
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Defunct stockpond
Feature	Revegetated/Naturalized
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

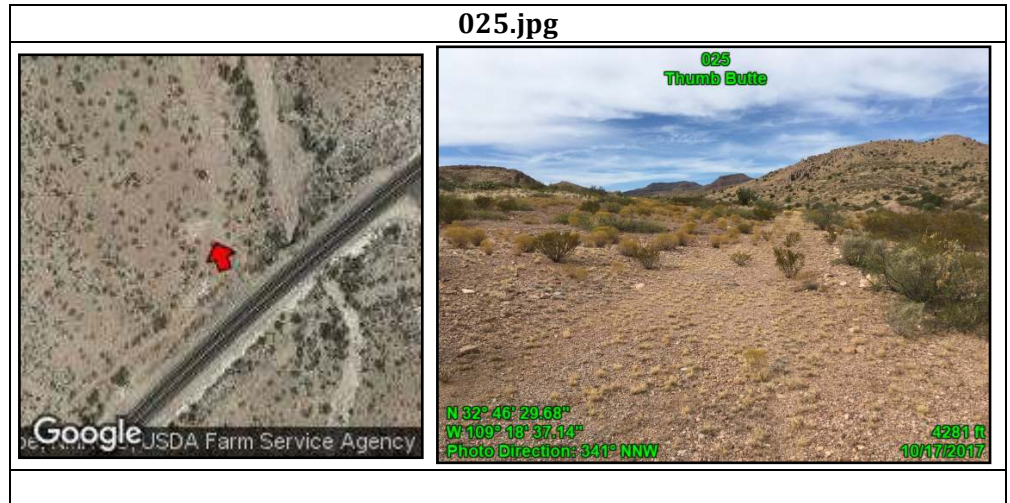


Attributes	
Point	024
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	Cattle Guard
Route: Use	2-WD Vehicles
Route: Purpose	Utility access/ROW
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Radio tower access
Feature Class	Boundary Element

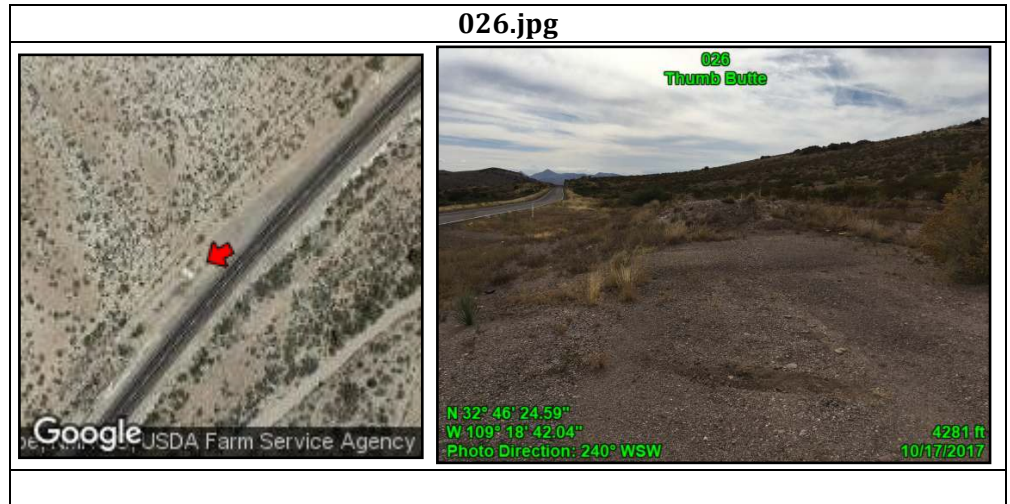


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	025
Unit name	Thumb Butte
Route: name	None
Route: Construction	Probably only bladed once
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	Private land access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	Route continues through private land into SFO land
Feature Class	Primitive Route

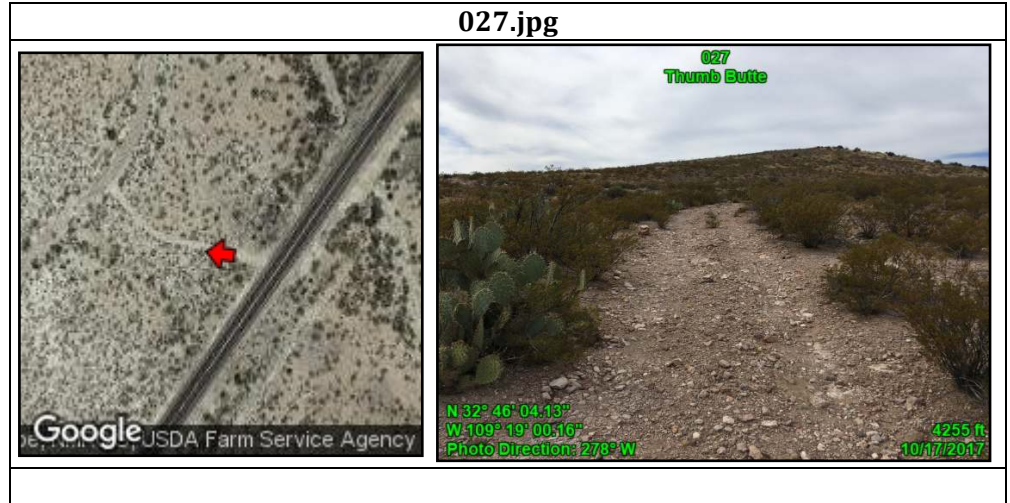


Attributes	
Point	026
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Reclaimed & unused
Route: Maintenance	None
Other notes	Historically connected to Point 029 (Old Highway 70)
Feature	Closure point
Feature notes	Soil and rock piled up to facilitate closure
Feature Class	Primitive Route



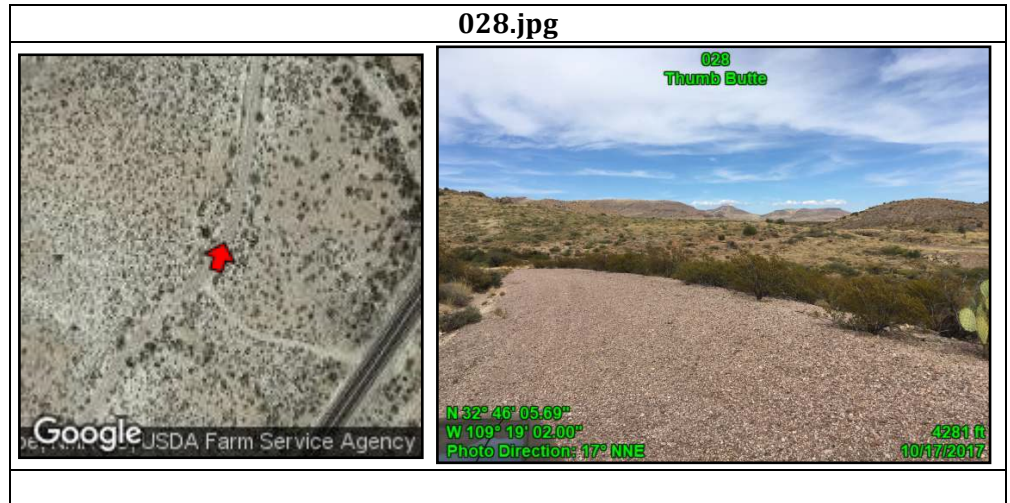
Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	027
Unit name	Thumb Butte
Route: name	Old Highway 70
Route: Construction	Bladed
Route: Improvements	Gated
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	This section of road seems to be the reroute proceeding the wash-out at Point 029.
Feature Class	Boundary Element



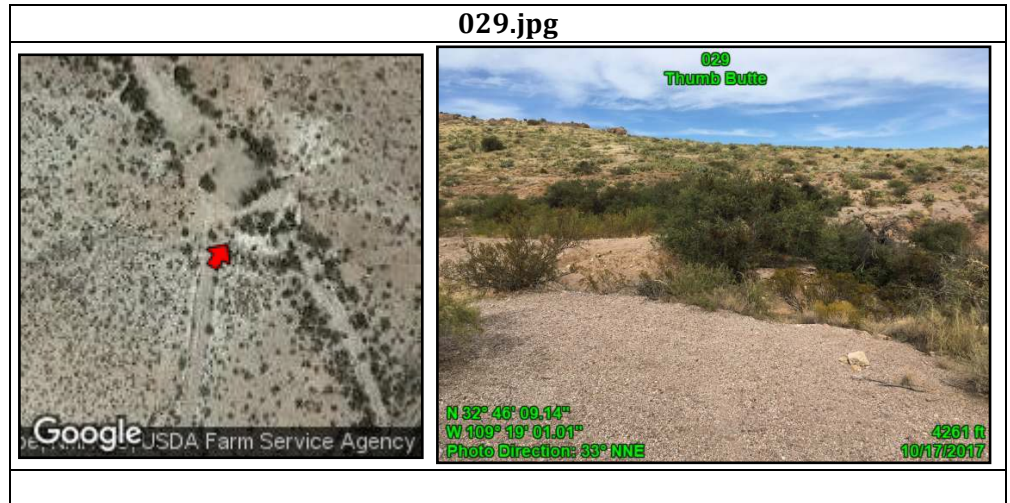
Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	028
Unit name	Thumb Butte
Route: name	Old Highway 70
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No evidence observed
Route: Purpose	Historically multiple uses, now without purpose due to wash out (Point 029) and reroute (Point 027).
Route: Determination	Road
Route: Maintenance	Old Evidence - 3-5 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Goes to Point 029 wash-out. Although without purpose, the condition of the route dictates it's exclusion.
Feature Class	Boundary Element

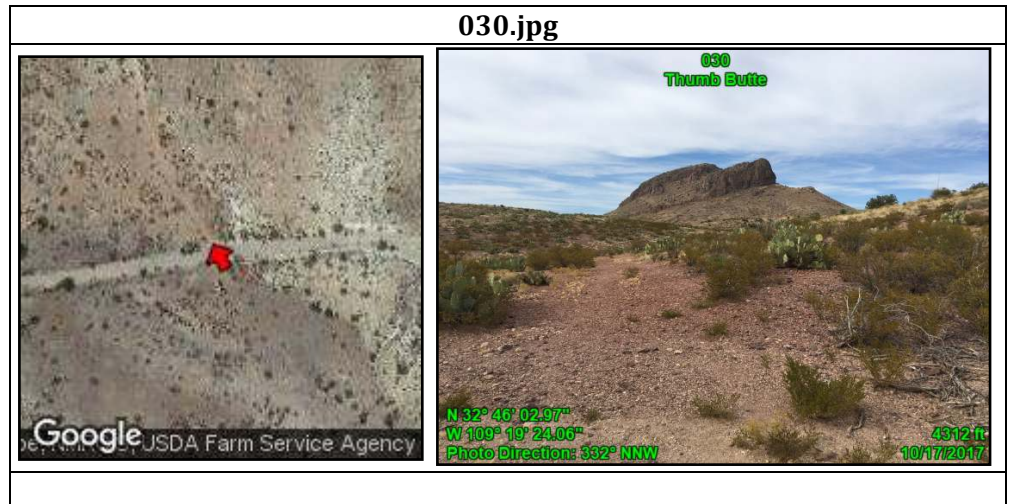


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	029
Unit name	Thumb Butte
Route: name	Old Highway 70
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	Historically multiple uses, now without purpose due to wash-out
Route: Determination	Road until this point
Route: Maintenance	Old evidence, wash-out happened post-maintenance
Other notes	Cherrystem
Feature	Dead end at wash-out
Feature notes	The cause for the Point 027 reroute
Feature Class	Boundary Element

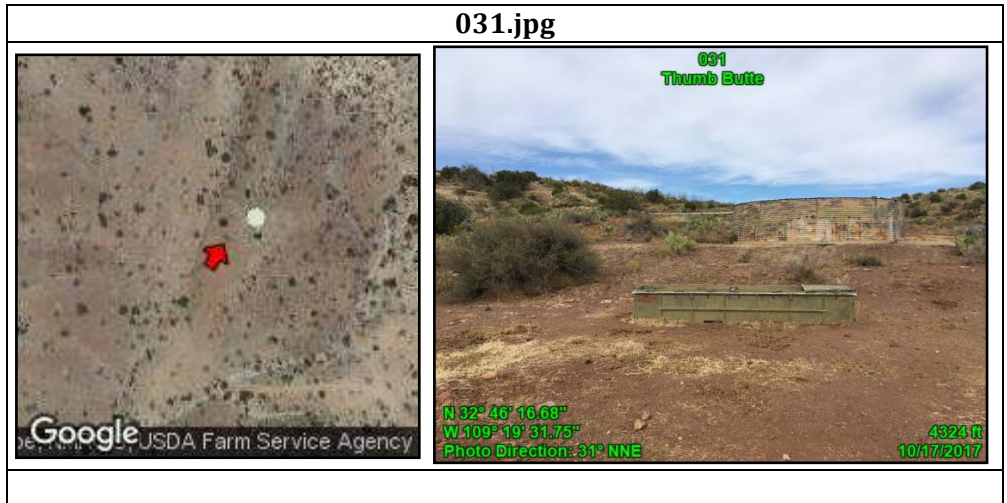


Attributes	
Point	030
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	Water cistern/livestock watering station access
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Primitive Route

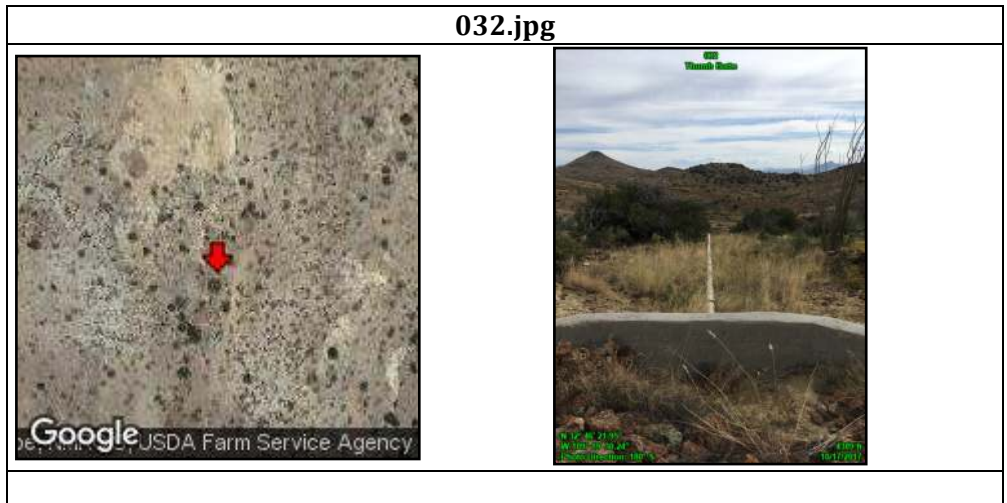


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	031
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Water cistern and livestock watering station
Feature notes	Used and maintained
Feature Class	Impact: Excluded

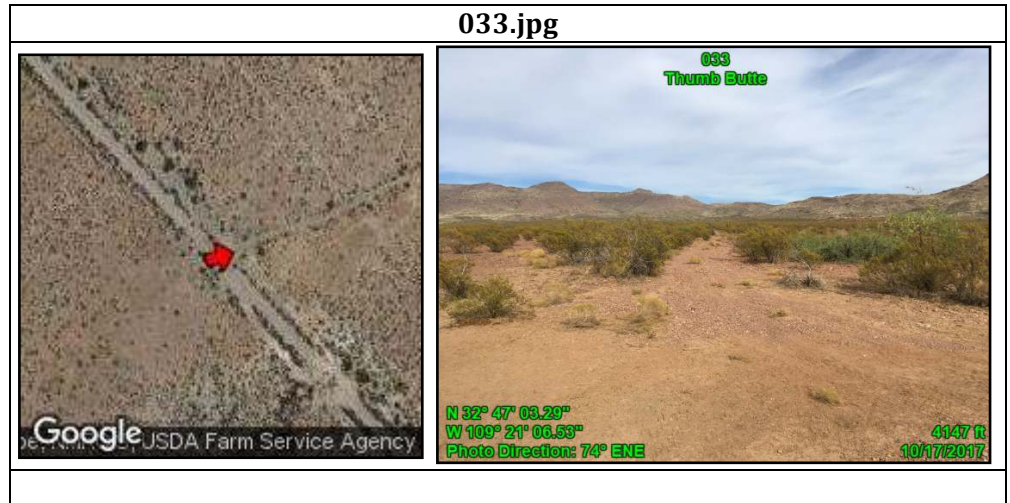


Attributes	
Point	032
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Water catchment for downslope water cistern (Point 031)
Feature notes	None
Feature Class	Impact: Excluded

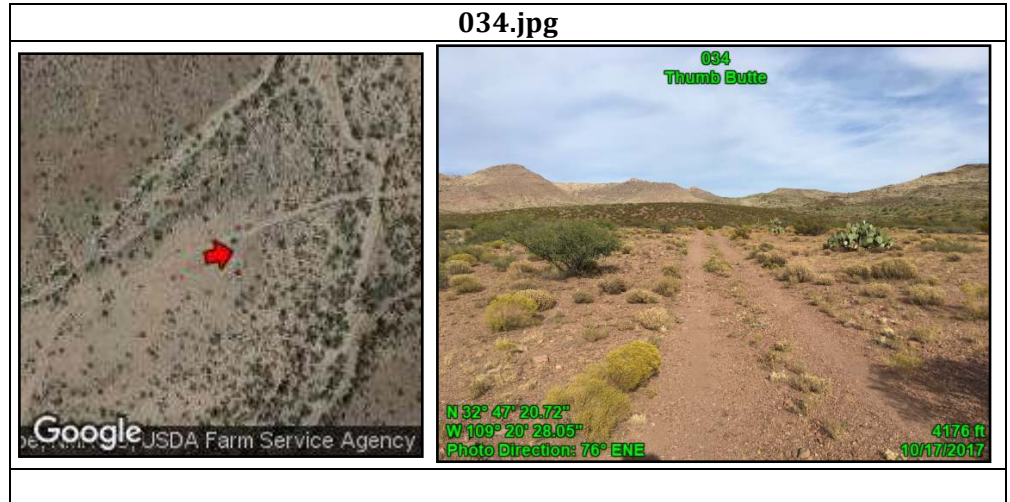


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	033
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Boundary Element



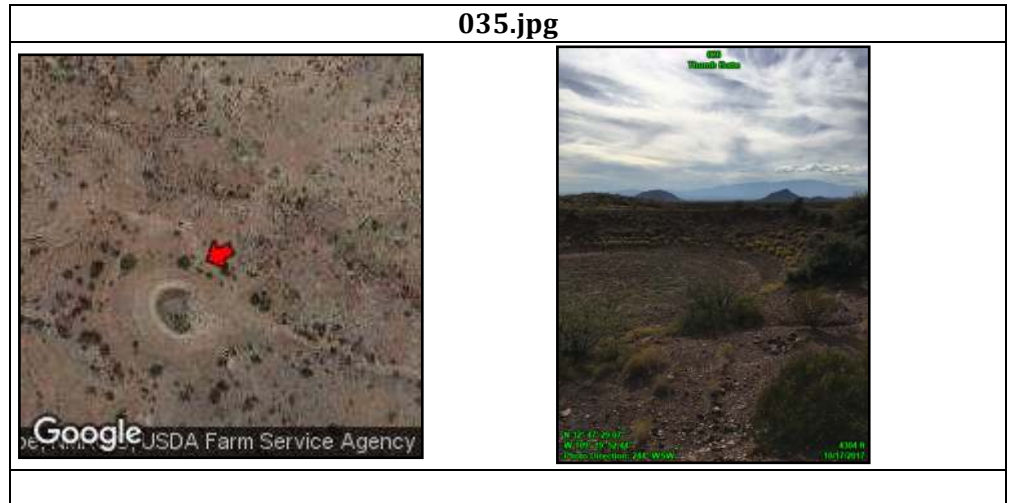
Attributes	
Point	034
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Boundary Element



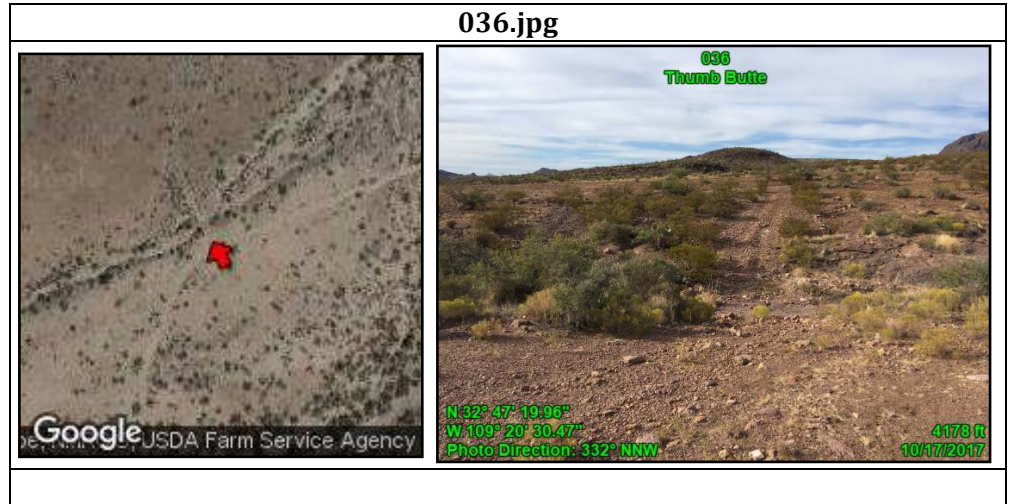


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	035
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Stockpond
Feature notes	None
Feature Class	Impact: Excluded

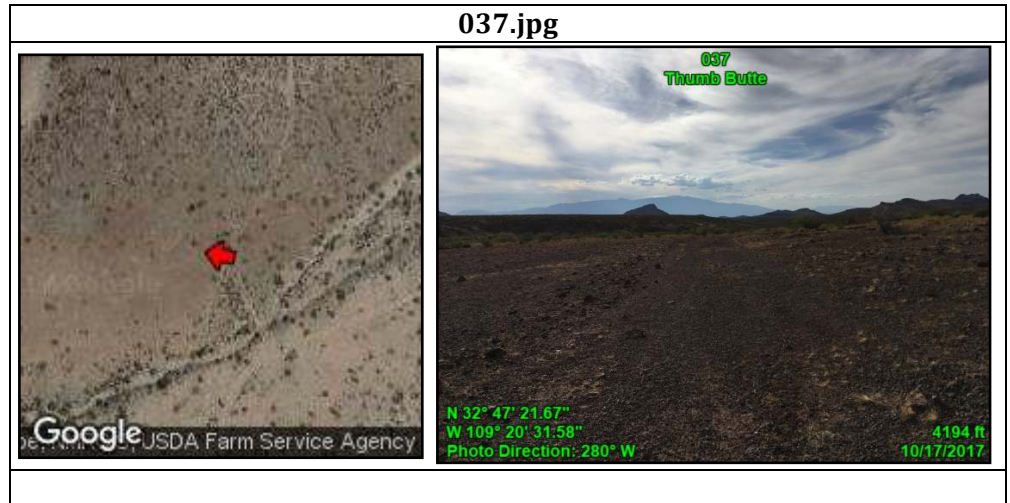


Attributes	
Point	036
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	2-WD Vehicles
Route: Purpose	Dam/stockpond access
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

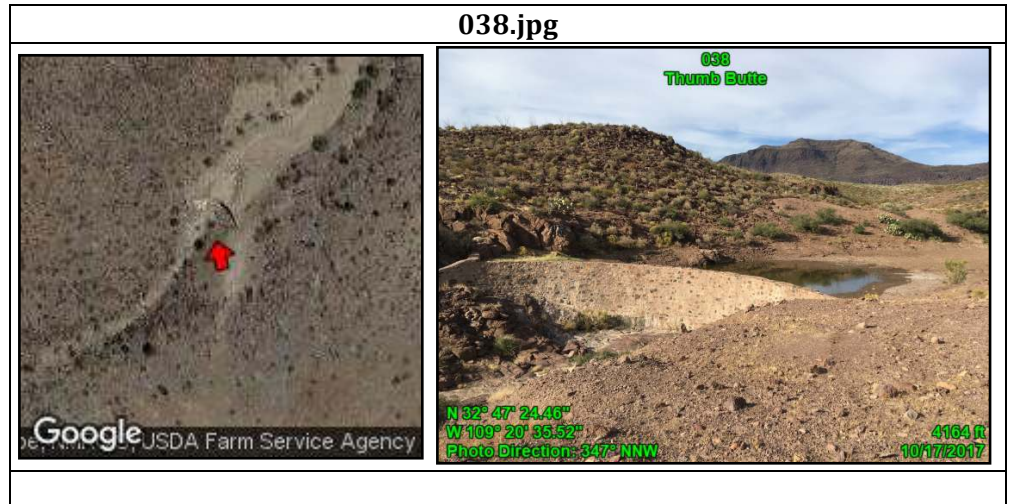


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	037
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route:	Road
Determination	
Route: Maintenance	Likely if needed
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Primitive Route

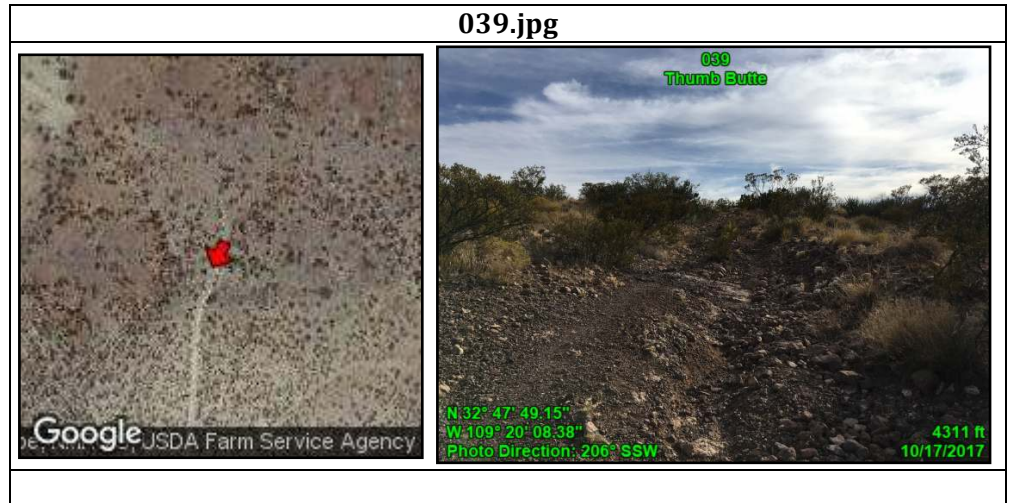


Attributes	
Point	038
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Dam/stockpond
Feature notes	None
Feature Class	Impact: Excluded

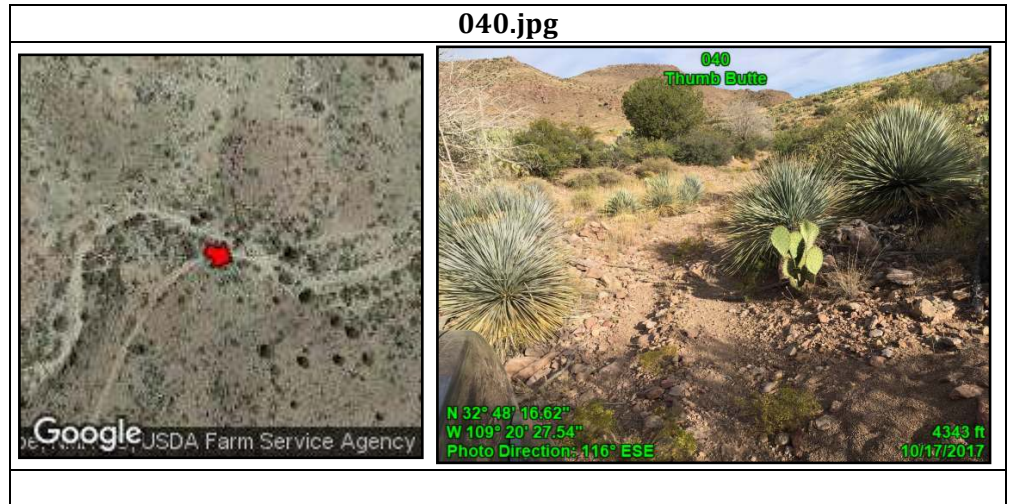


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	039
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Historic corral, stockpond access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route: Eroded and revegetating
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route





Attributes	
Point	040
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Historic corral, stockpond access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route: Eroded and Revegetating
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route



Thumb Butte & Walnut Mountain Proposed LWCs



Attributes	
Point	041
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Adds wilderness character
Feature	Archaeological site
Feature notes	Acceptable/beneficial impact
Feature Class	Wilderness Character

**041.jpg**

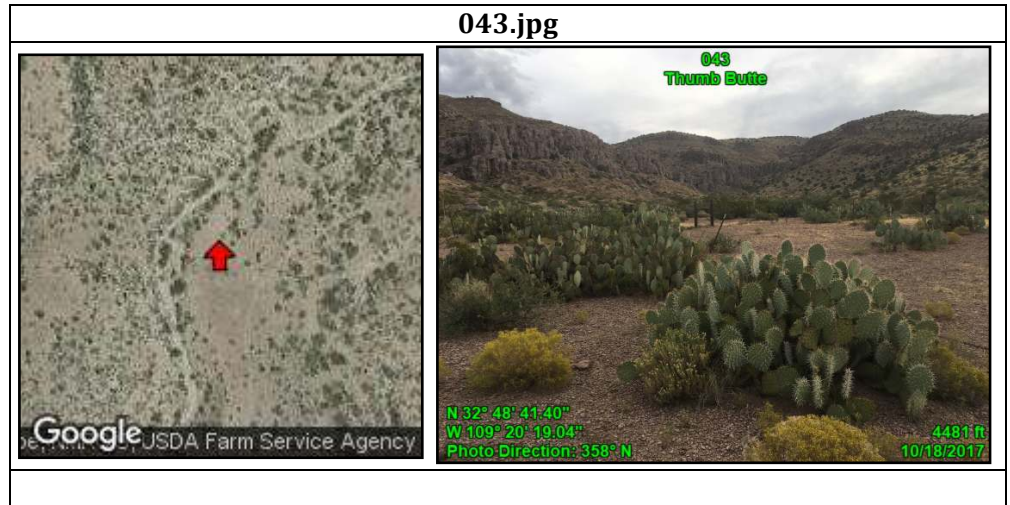
Attributes	
Point	042
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Dam
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

**042.jpg**

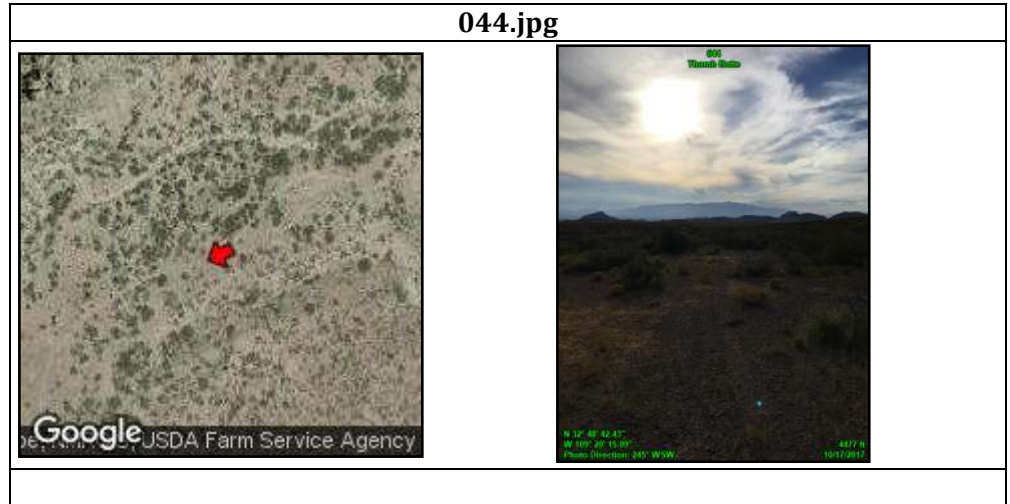



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	043
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Defunct, revegetated corral
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

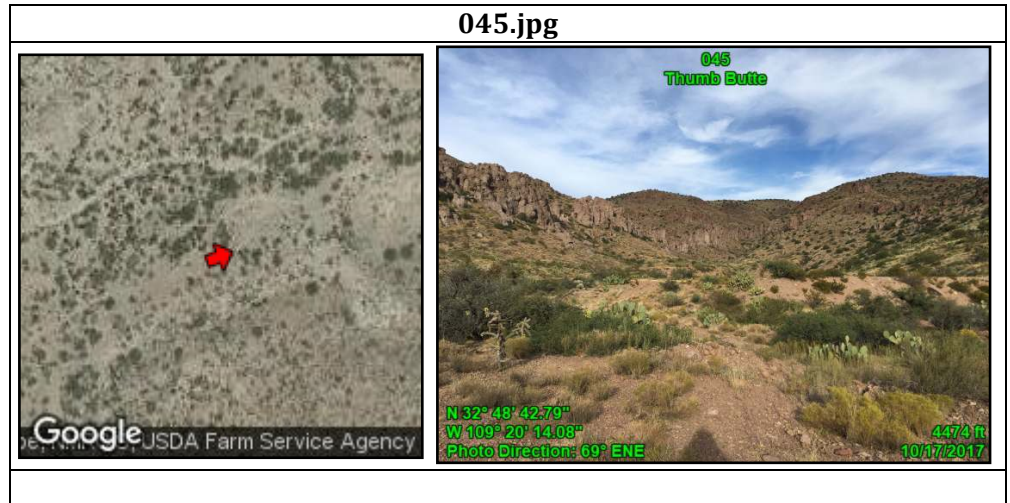


Attributes	
Point	044
Unit name	Thumb Butte
Route: name	None
Route: Construction	No evidence
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route: Revegetating
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

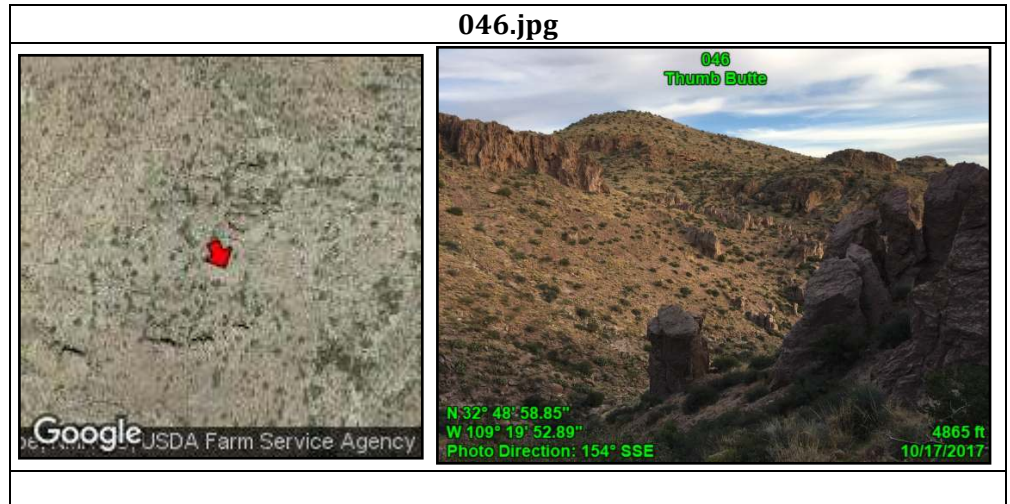


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	045
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Dry stockpond
Feature notes	Feature minimally affects naturalness
Feature Class	Impact: Acceptable

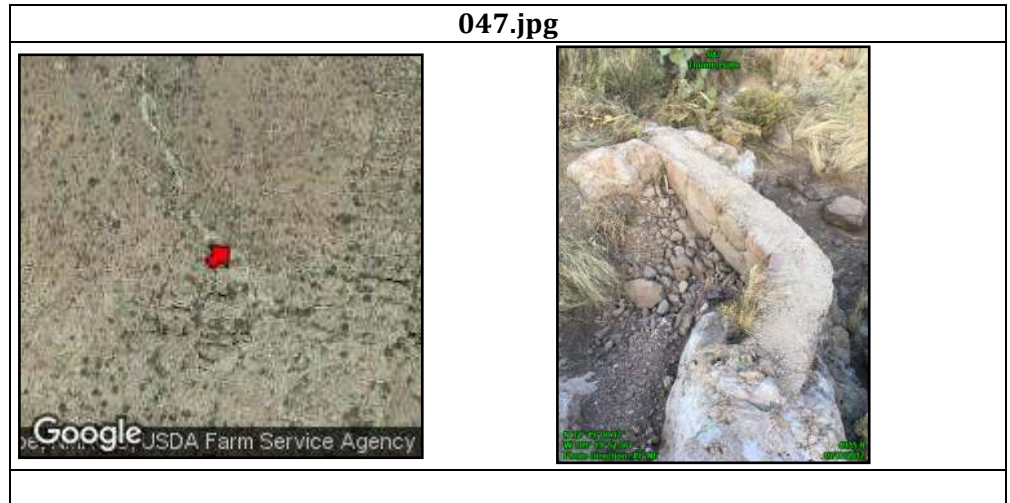


Attributes	
Point	046
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Canyon in the Black Hills, interesting geology
Feature notes	Opportunities for solitude are abundant in the hills and drainages of the Black Hills.
Feature Class	Wilderness Character

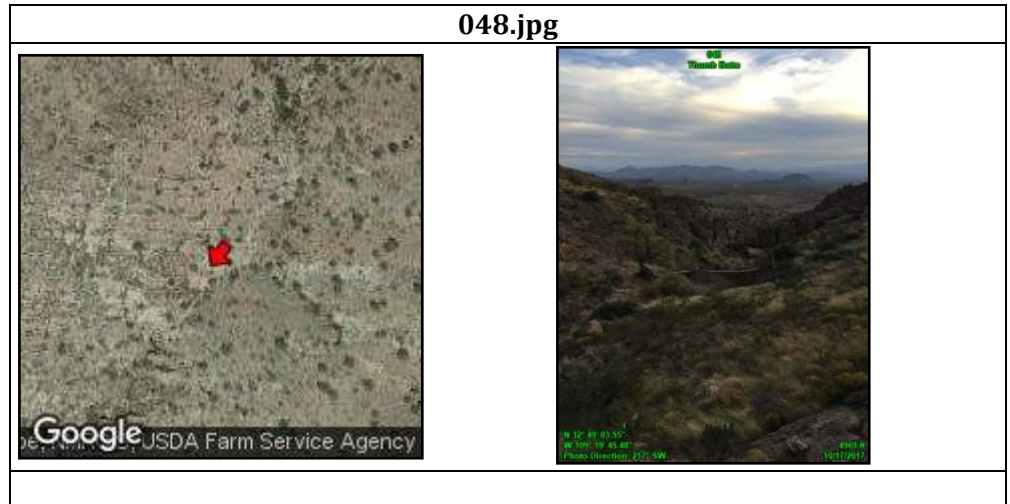


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	047
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Small dam
Feature notes	Feature minimally effects naturalness
Feature Class	Impact: Acceptable

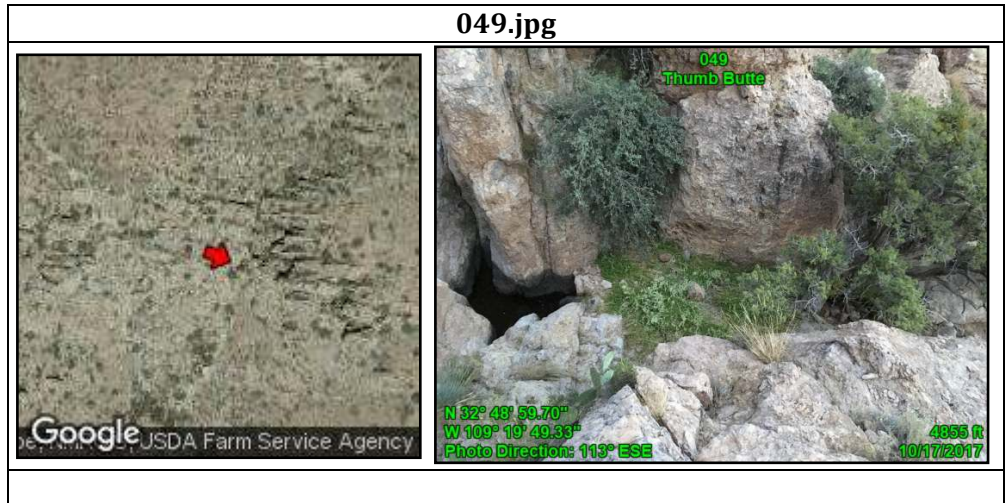


Attributes	
Point	048
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Small dam
Feature notes	Feature minimally effects naturalness
Feature Class	Impact: Acceptable

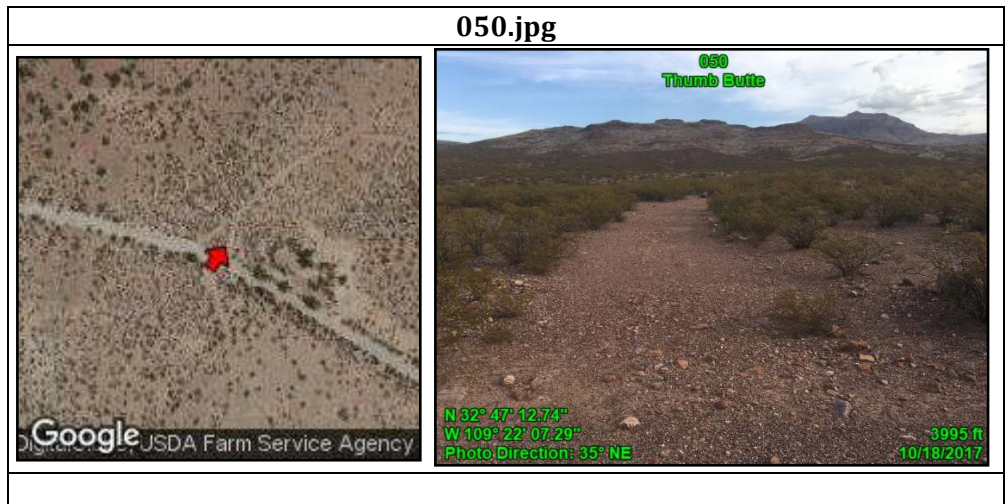


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	049
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	None
Feature	Tinaja in a canyon
Feature notes	None
Feature Class	Wilderness Character



Attributes	
Point	050
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route:	Way
Determination	
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Low use/faint route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route





Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	051
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Low use/faint route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

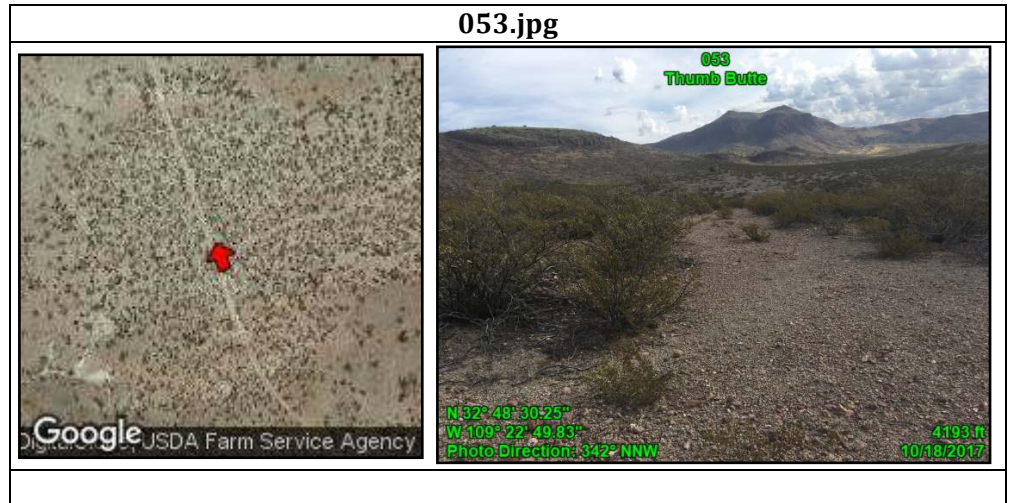
**051.jpg**

Attributes	
Point	052
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	None
Feature	Best section of route
Feature notes	Condition quickly diminishes
Feature Class	Primitive Route

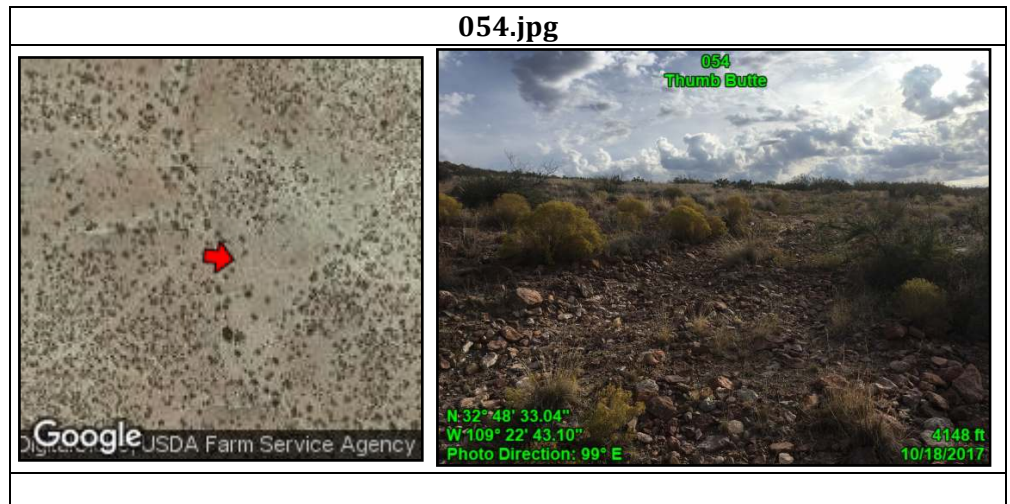
**052.jpg**

Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	053
Unit name	Thumb Butte
Route: name	None
Route: Construction	Baded
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	Feature minimally effects naturalness
Feature Class	Primitive Route

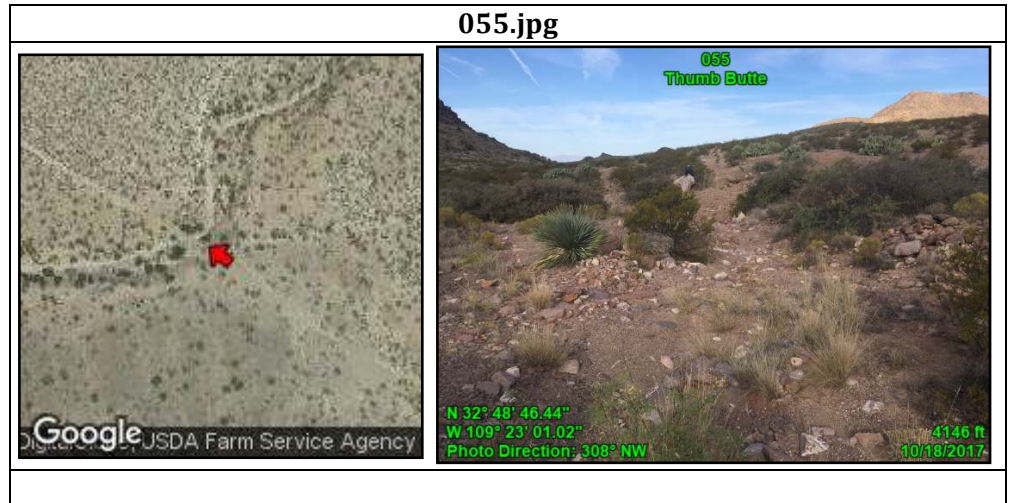


Attributes	
Point	054
Unit name	Thumb Butte
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

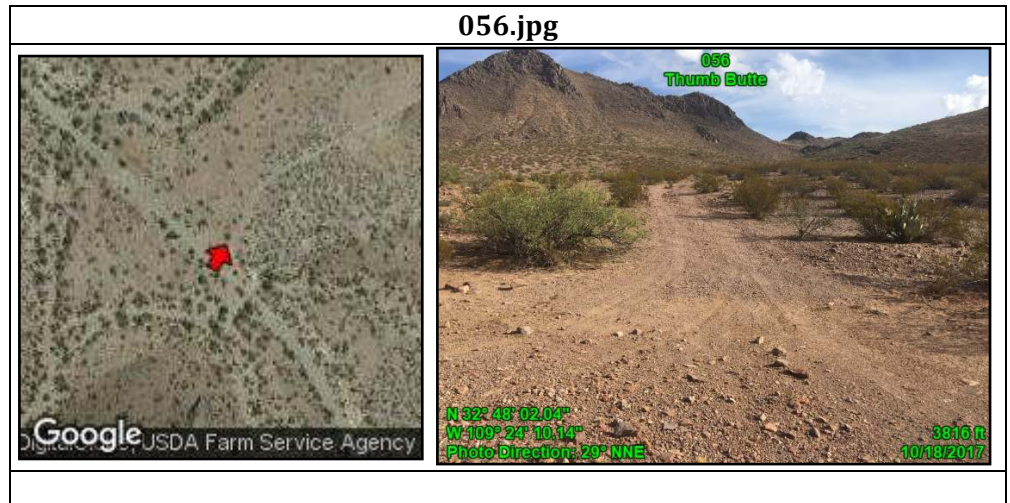


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	055
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Low use/faint route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

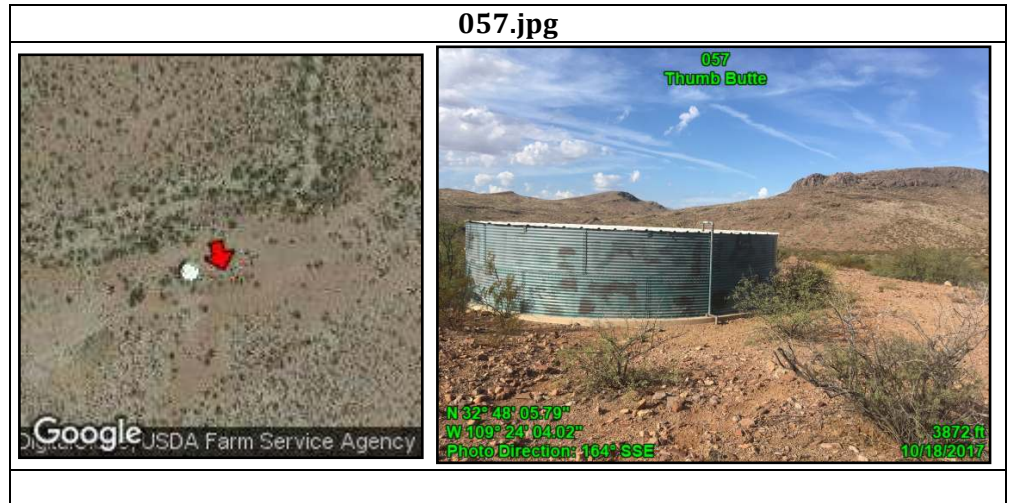


Attributes	
Point	056
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	2-WD Vehicles
Route: Purpose	Water cistern and livestock watering station access
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

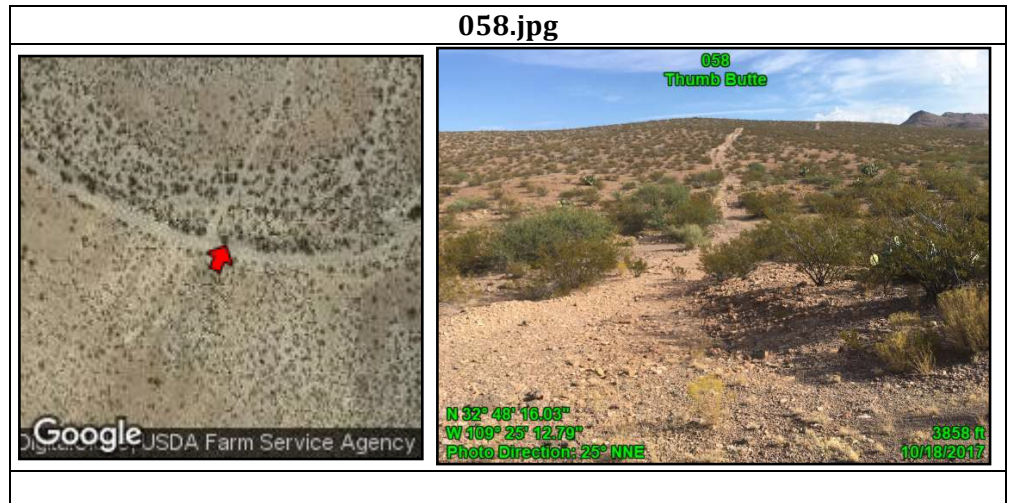


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	057
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	None
Feature	Water cistern and livestock watering station
Feature notes	Used and maintained
Feature Class	Impact: Excluded



Attributes	
Point	058
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	No sign observed
Route: Purpose	Wildlife water catchment access
Route:	Road
Determination	
Route: Maintenance	None
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	059
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Wildlife water catchment
Feature notes	Used and maintained
Feature Class	Impact: Excluded

**059.jpg**

Google Earth image showing a red arrow pointing to a small structure in a field. The photo is labeled '059 Thumb Butte'. The photo direction is 95° E. The photo was taken on 10/18/2017 at an elevation of 4002 ft. The coordinates are N 32° 48' 46.35" and W 100° 23' 21.12".

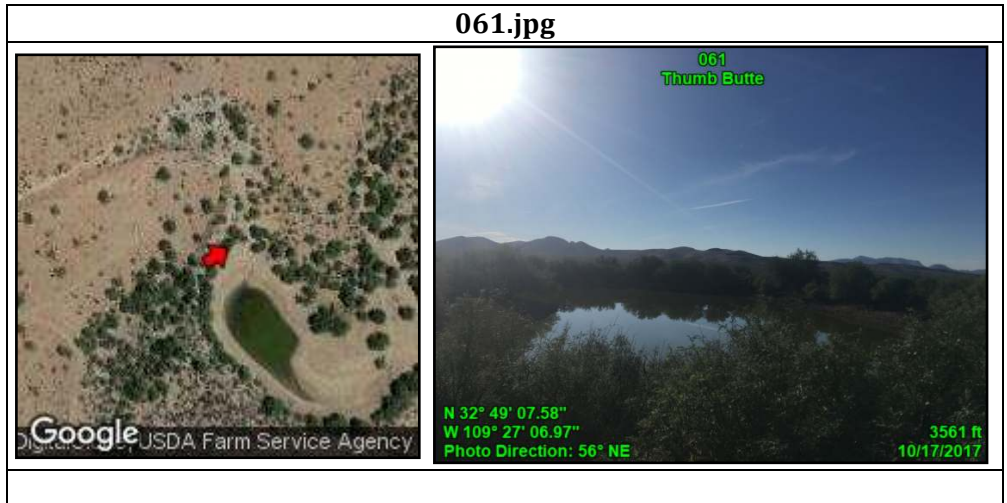
Attributes	
Point	060
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	2-WD Vehicles
Route: Purpose	Stockpond access
Route:	Road
Determination	
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

**060.jpg**

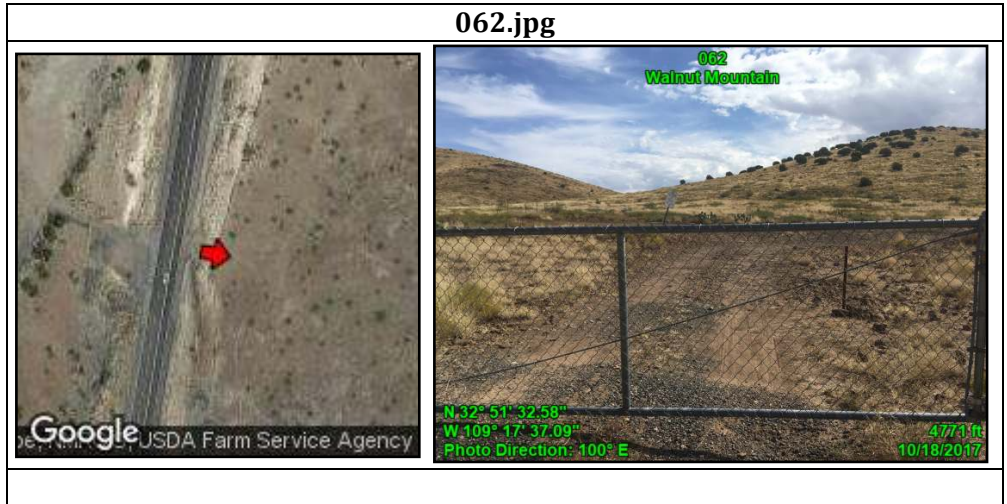
Google Earth image showing a red arrow pointing to a spot on a dirt road. The photo is labeled '060 Thumb Butte'. The photo direction is 34° NE. The photo was taken on 10/17/2017 at an elevation of 3536 ft. The coordinates are N 32° 48' 40.42" and W 100° 27' 22.85".

Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	061
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	None
Feature	Stockpond
Feature notes	None
Feature Class	Impact: Excluded

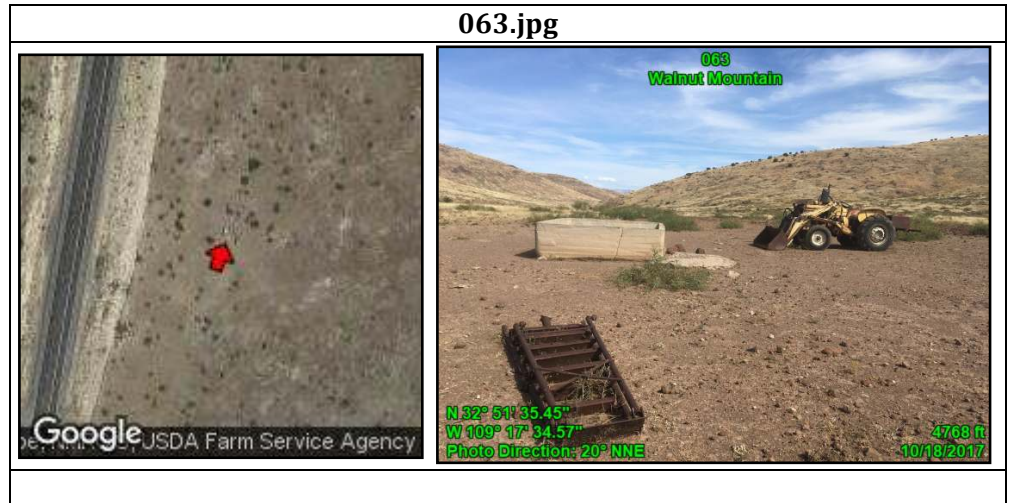


Attributes	
Point	062
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	Gated and signed
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

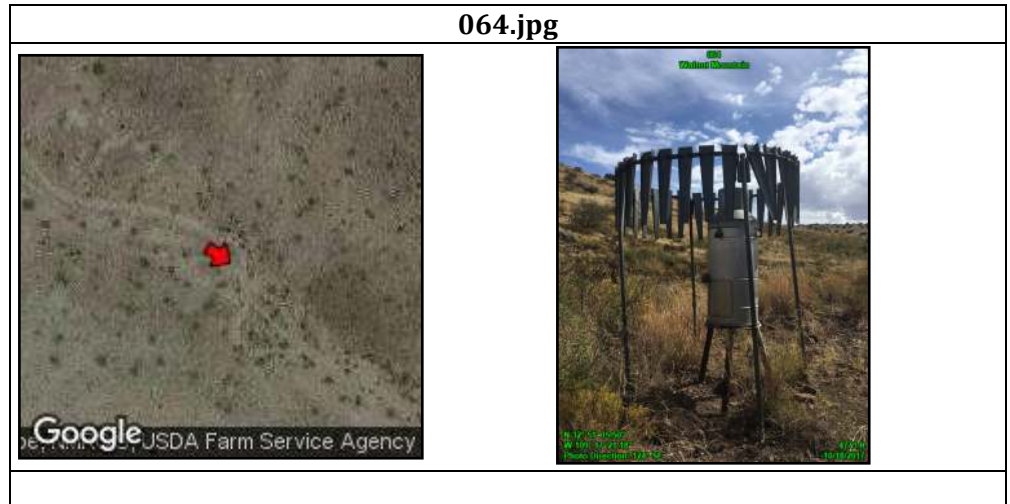


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	063
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	Functional
Feature	Infrastructure and equipment
Feature notes	None
Feature Class	Impact: Excluded

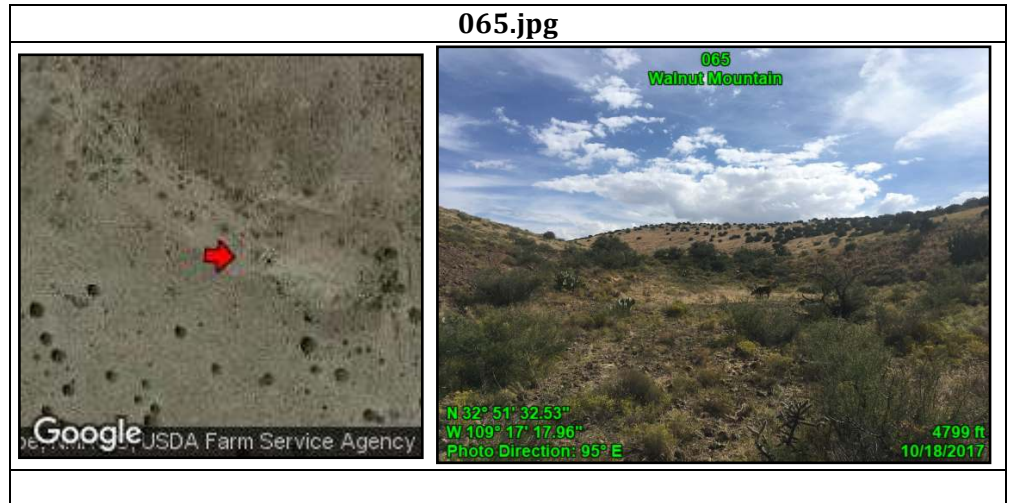


Attributes	
Point	064
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	N/A
Feature	Equipment
Feature notes	None
Feature Class	Impact: Excluded

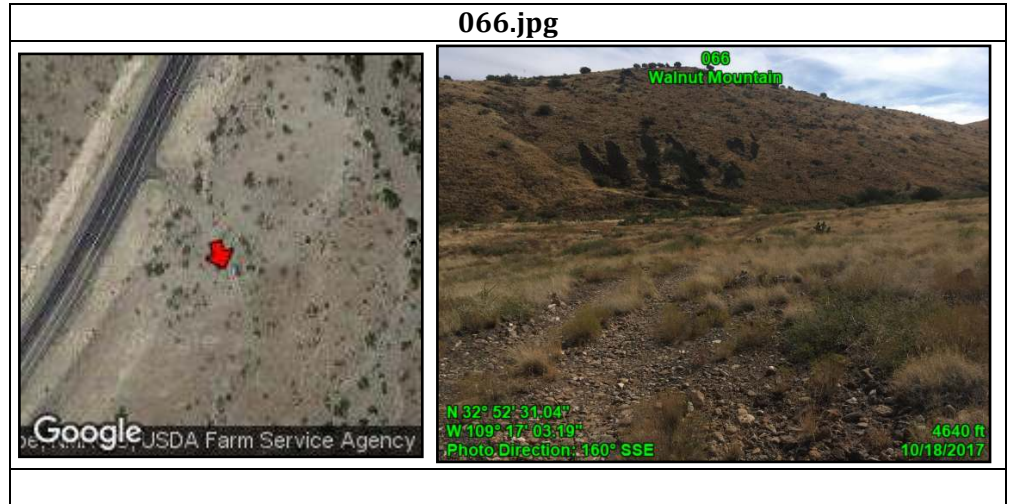


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	065
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Exclude this impact
Feature	Stockpond
Feature notes	None
Feature Class	Impact: Excluded



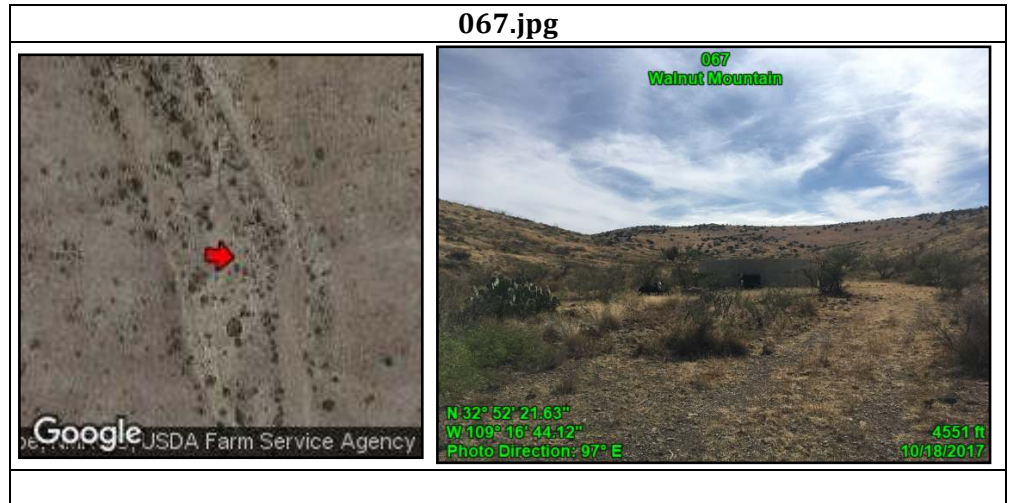
Attributes	
Point	066
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	Retaining berm
Route: Use	4-WD Trucks
Route: Purpose	Water cistern/stockpond access
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element



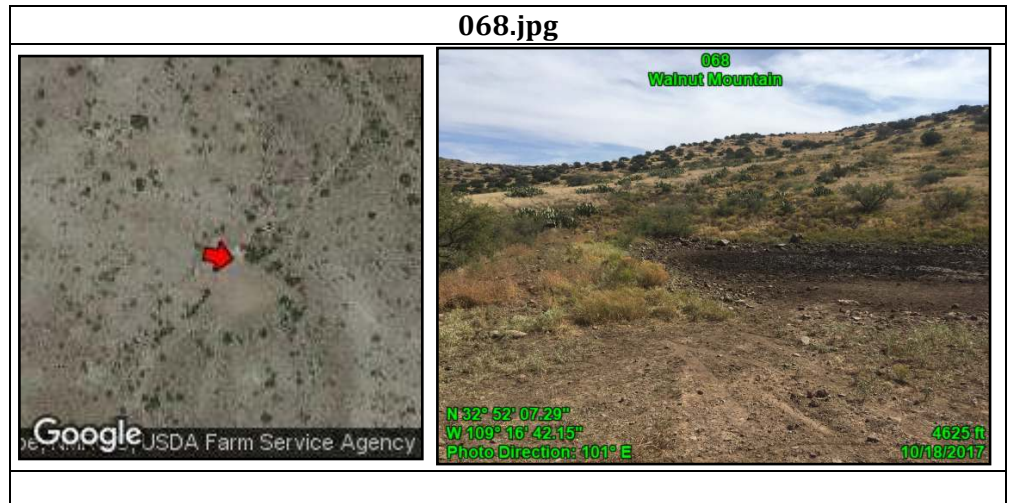


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	067
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Exclude this impact
Feature	Water cistern/livestock watering station
Feature notes	Used and maintained
Feature Class	Boundary Element

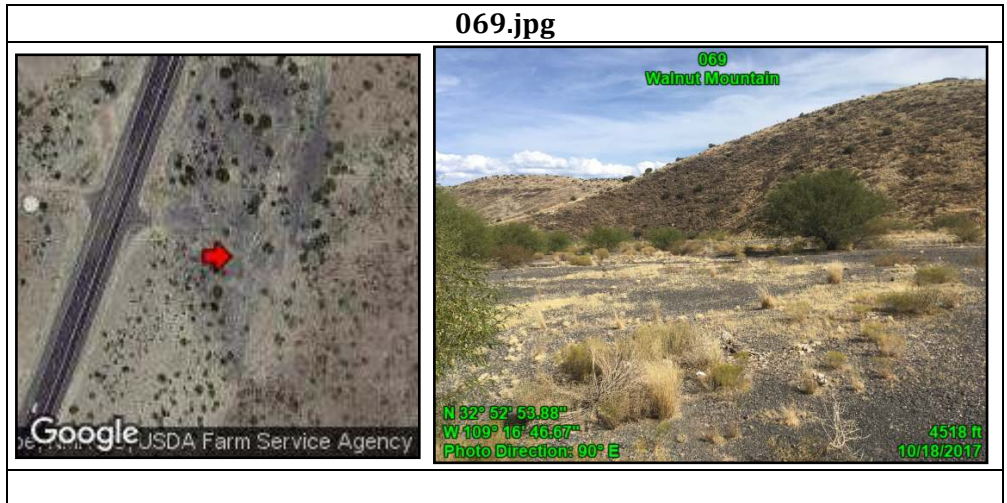


Attributes	
Point	068
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Stockpond
Feature notes	None
Feature Class	Impact: Excluded

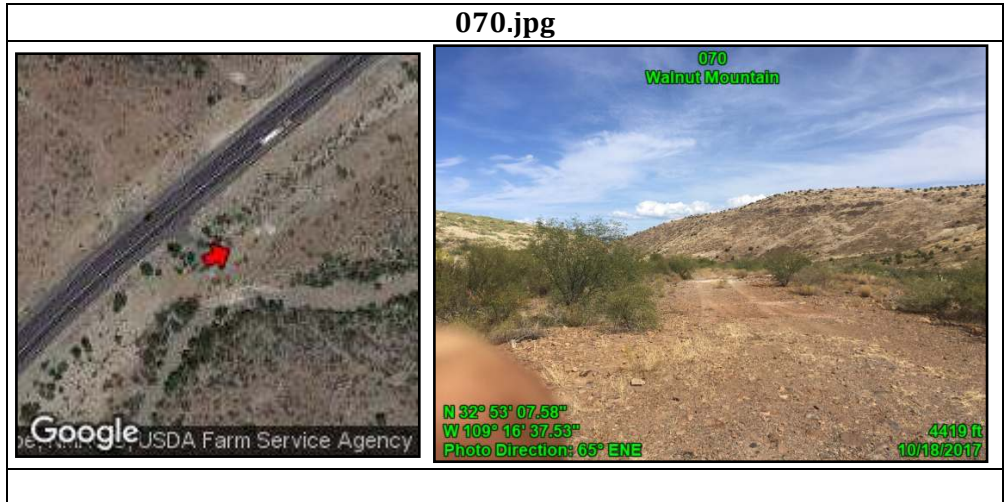


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	069
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Gated and gravelled lot. No apparent purpose.
Feature	Gravel lot
Feature notes	None
Feature Class	Impact: Excluded





Attributes	
Point	070
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	2-WD Vehicles
Route: Purpose	Stockpond access
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element



Thumb Butte & Walnut Mountain Proposed LWCs



Attributes	
Point	071
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Exclude this impact
Feature	Stockpond and equipment
Feature notes	Used and maintained
Feature Class	Impact: Excluded

**071.jpg**

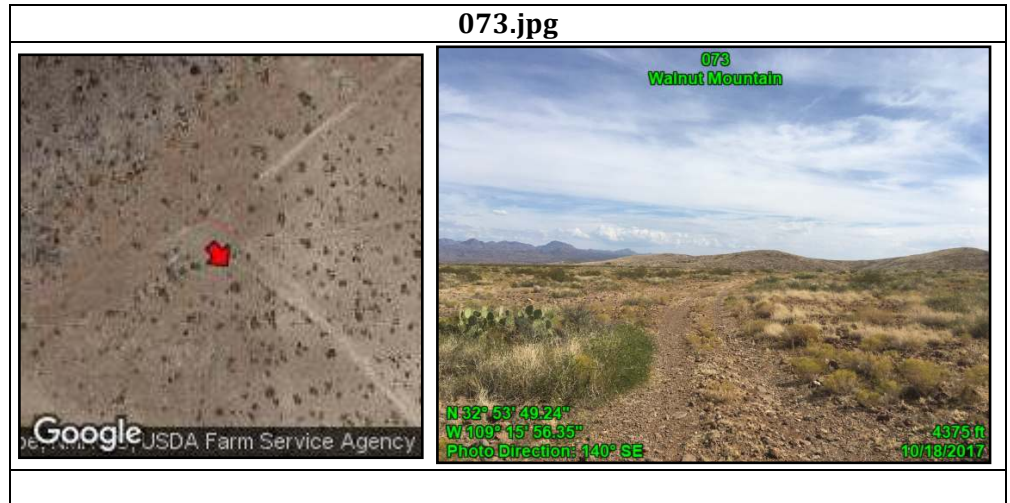
Attributes	
Point	072
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	2-WD Vehicles
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	LWC Unit boundary access
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

**072.jpg**

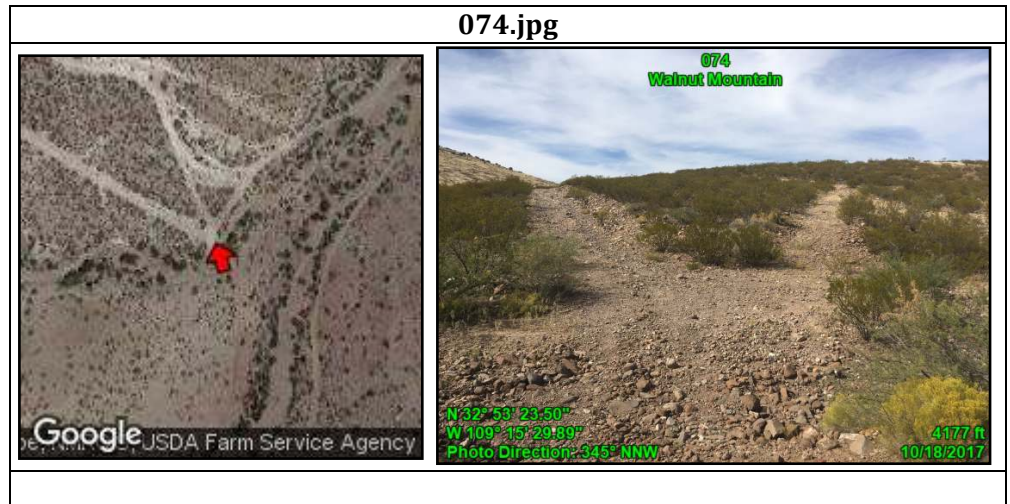



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	073
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Walnut Springs water cistern access
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

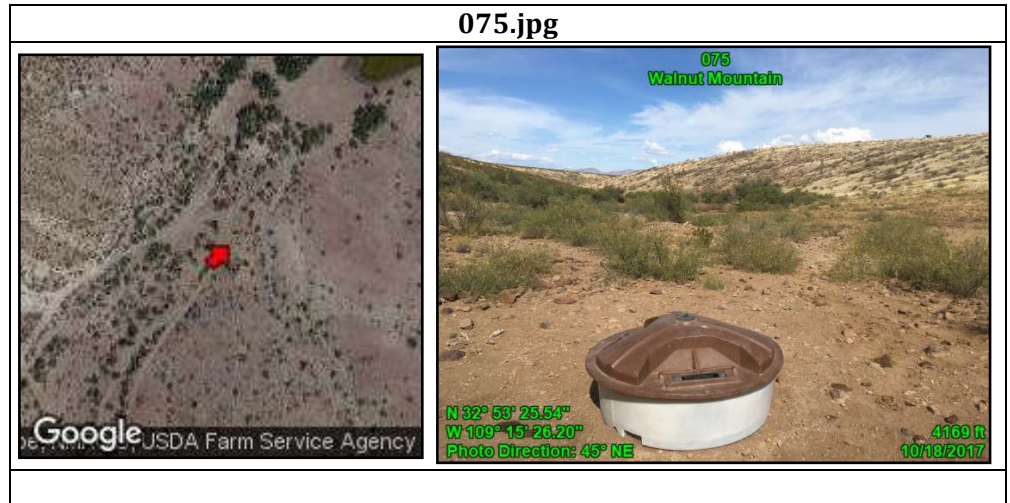


Attributes	
Point	074
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	No evidence
Other notes	Kept open solely by passage of vehicles
Feature	Junction of Walnut Springs Cherrystem and a Way
Feature notes	None
Feature Class	Primitive Route

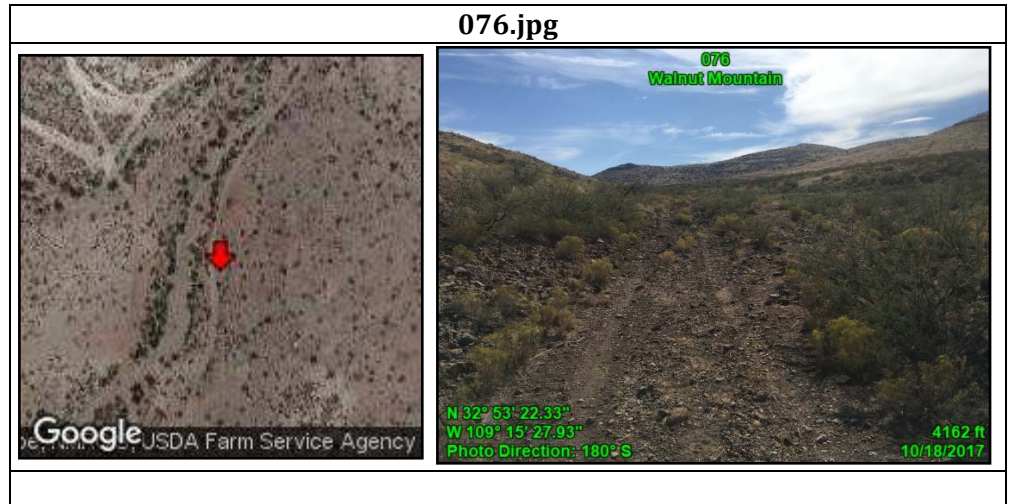


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	075
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Stockpond and equipmen
Feature notes	None
Feature Class	Impact: Excluded

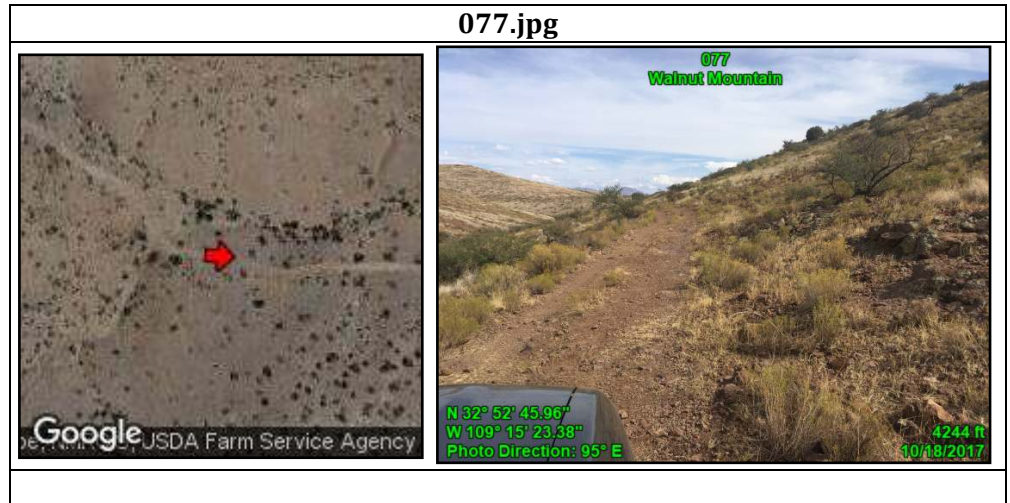


Attributes	
Point	076
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route:	Road
Determination	
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

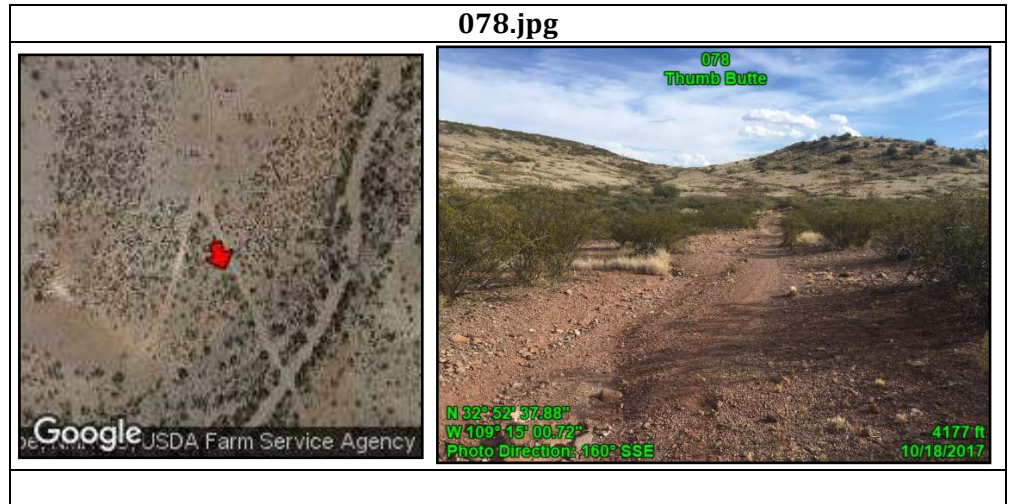


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	077
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed & Cut and Fill
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Walnut Springs cistern access
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Cherrystem
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

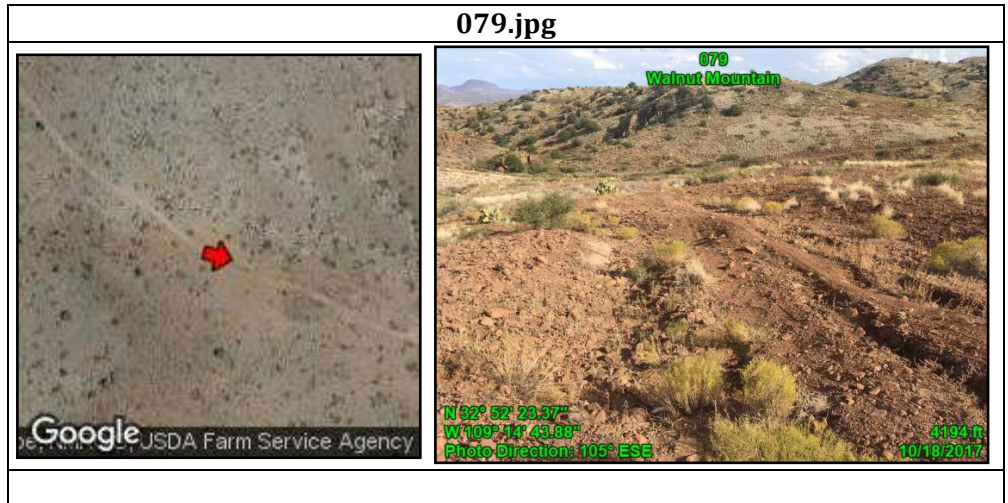


Attributes	
Point	078
Unit name	Thumb Butte
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route: Determination	Way
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	None
Feature	Best section of route
Feature notes	None
Feature Class	Primitive Route

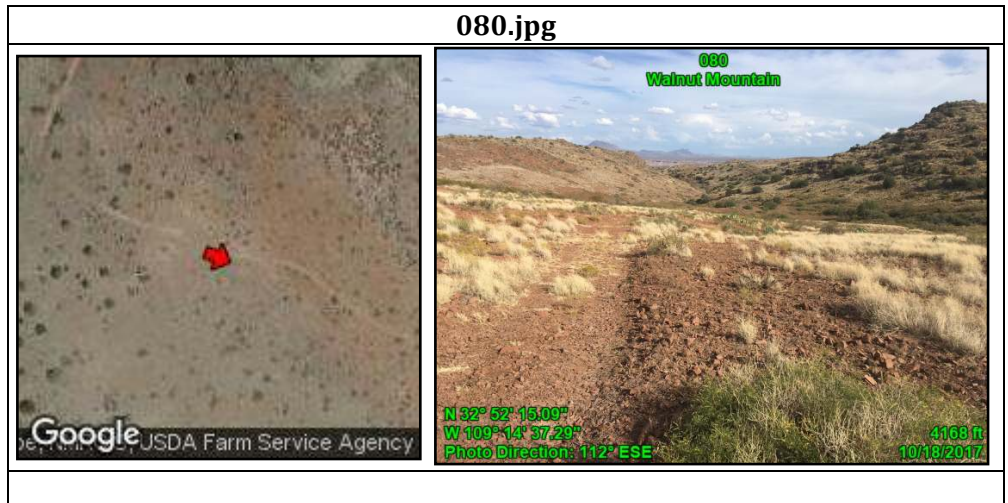


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	079
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Erosion and Revegetating
Feature notes	Typical Condition of Route
Feature Class	Primitive Route

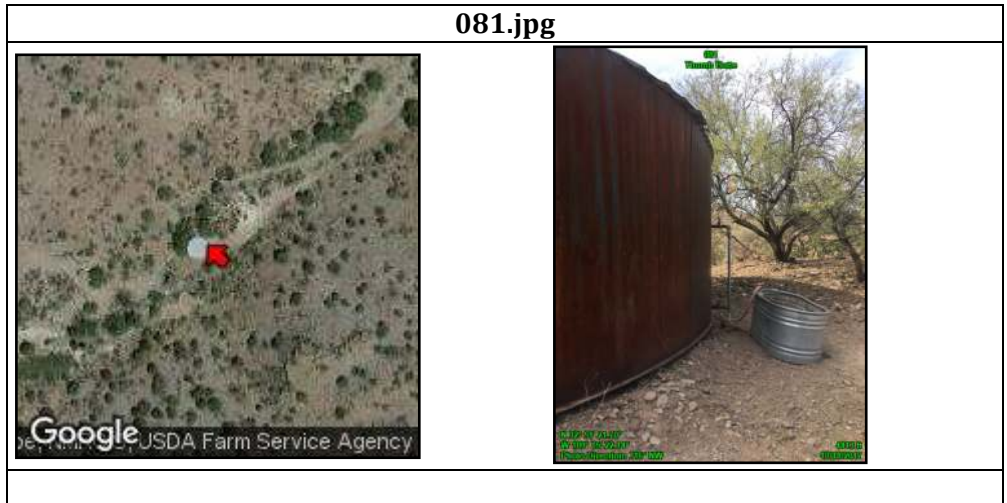


Attributes	
Point	080
Unit name	Walnut Mountain
Route: name	None
Route: Construction	No evidence
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Stockpond access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by the passage of vehicles
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

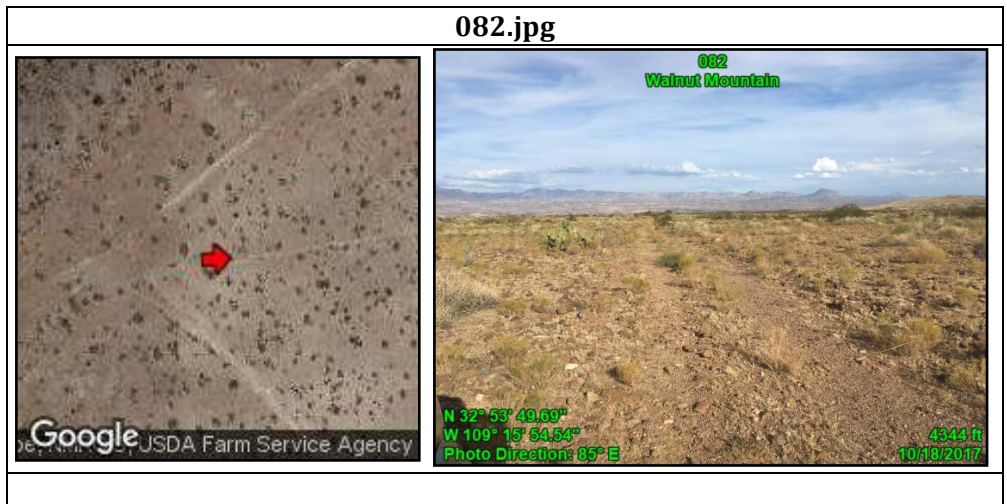


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	081
Unit name	Thumb Butte
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Cherrystem
Feature	Walnut Springs cistern and livestock watering station
Feature notes	Fed by diverted Walnut Springs west of the cistern
Feature Class	Impact: Excluded



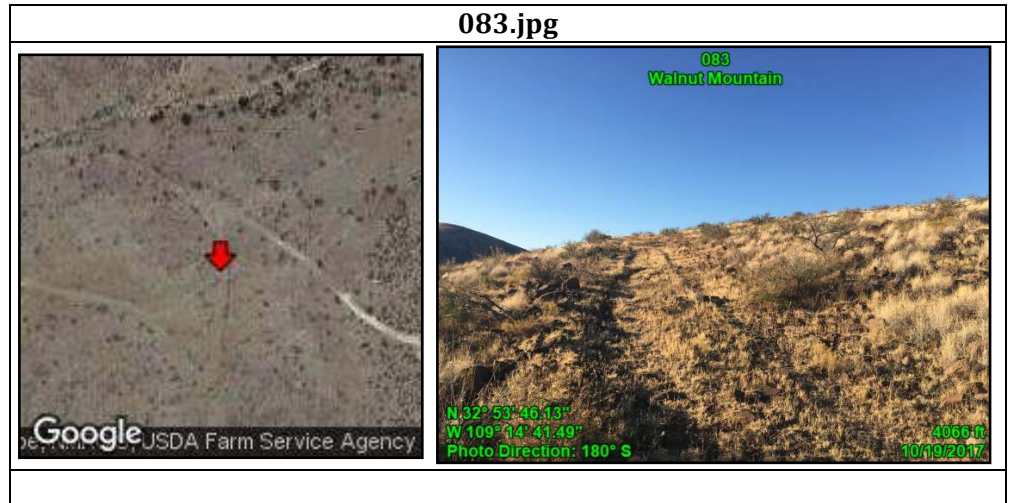
Attributes	
Point	082
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Connects to state trust land
Feature	Unit Boundary
Feature notes	Worst section of route
Feature Class	Boundary Element



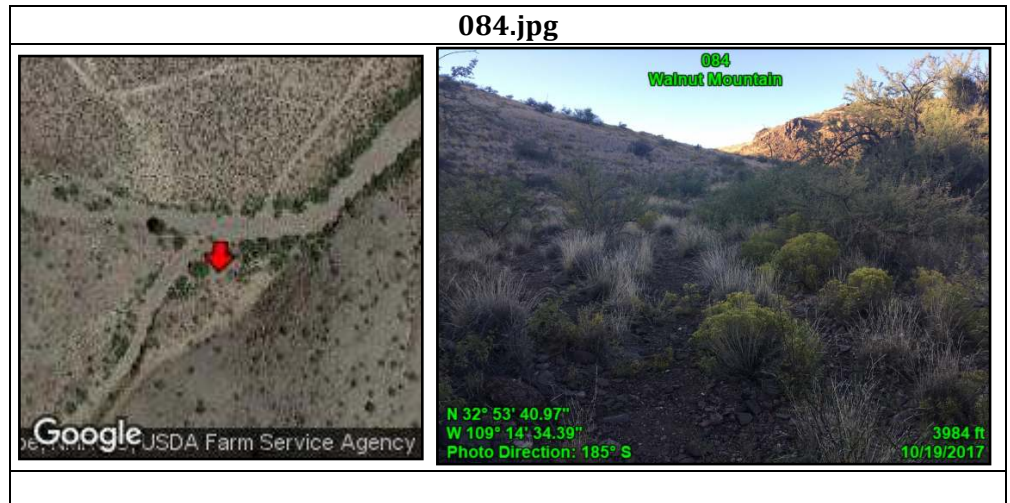


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	083
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed, Cut & Fill
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Boundary Element

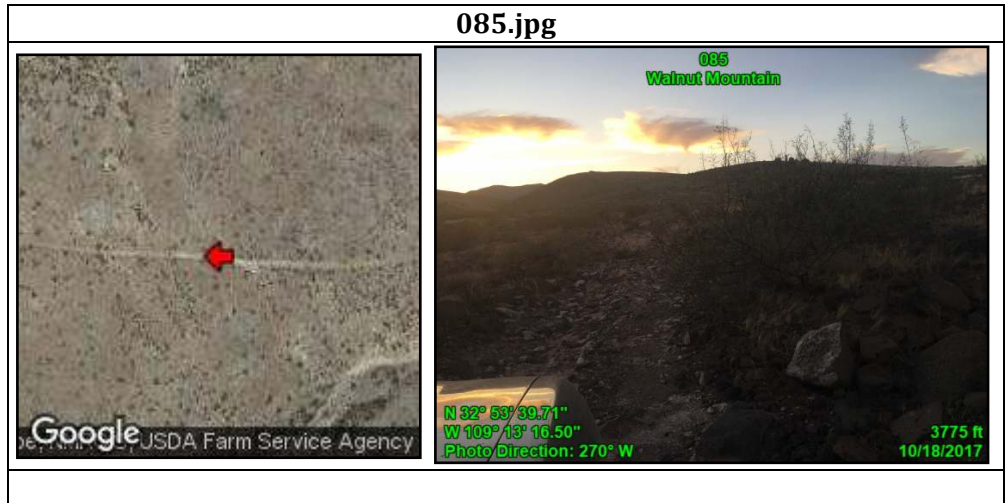


Attributes	
Point	084
Unit name	Walnut Mountain
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Revegetated/Naturalized
Feature notes	Feature minimally effects naturalness
Feature Class	Primitive Route

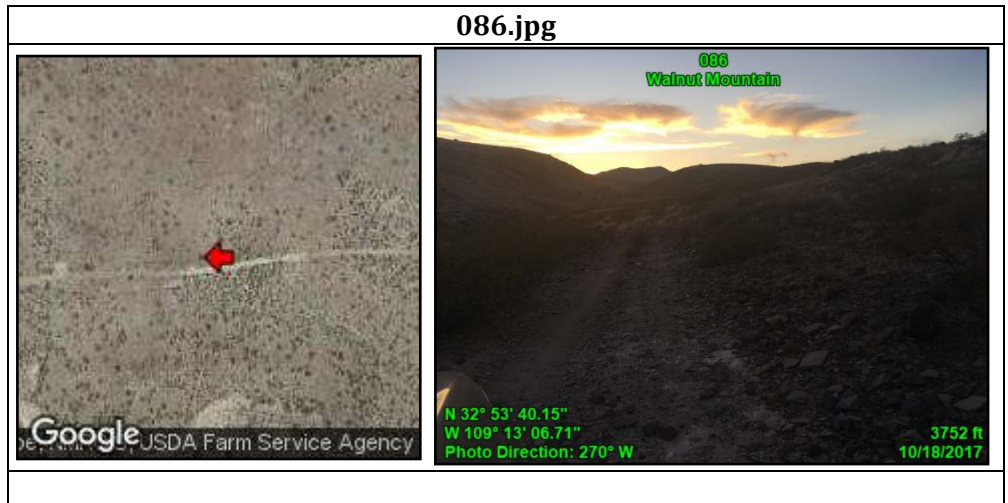


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	085
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old Evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Feature minimally affects naturalness
Feature Class	Boundary Element

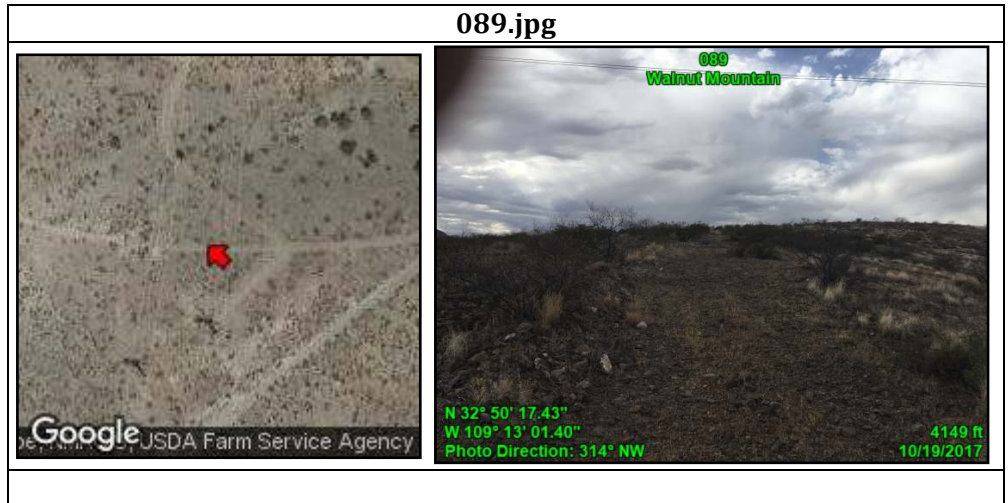


Attributes	
Point	086
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old Evidence - 3-5 years ago
Other notes	Unit Boundary; Wilderness Inventory Road meets state trust land
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

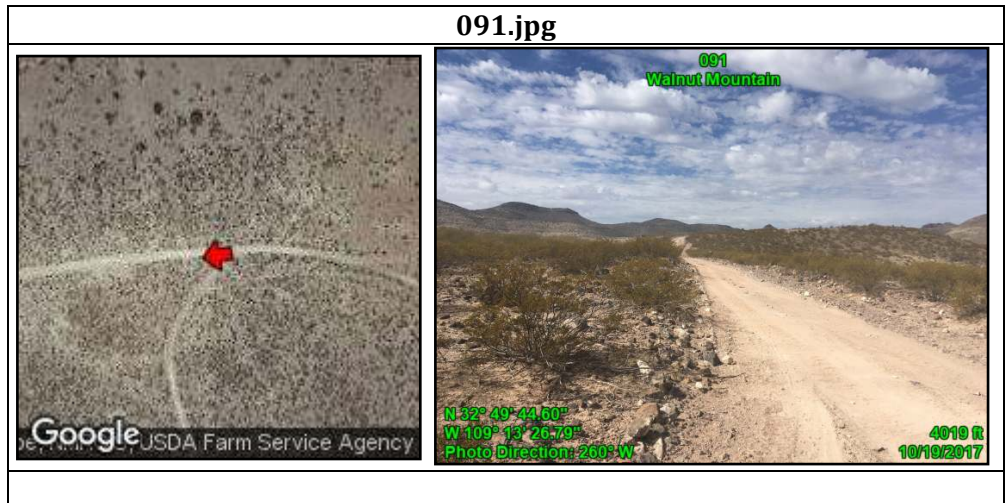


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	089
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	No sign observed
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	No evidence
Other notes	None
Feature	Revegetated/Naturalized
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

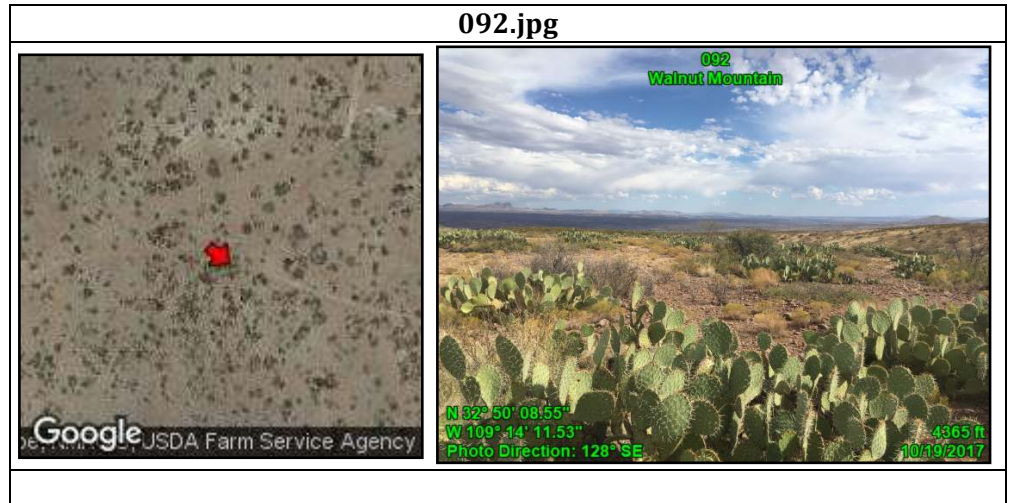


Attributes	
Point	091
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	Best section of route
Feature Class	Boundary Element

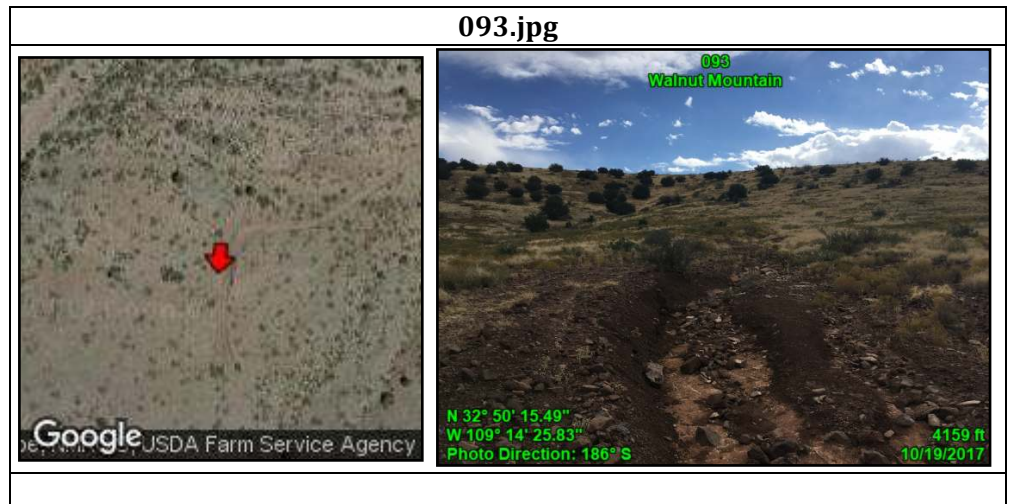


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	092
Unit name	Walnut Mountain
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Reclaimed & unused
Route: Maintenance	None
Other notes	Completely unnoticeable
Feature	Revegetated/Naturalized
Feature notes	None
Feature Class	Primitive Route

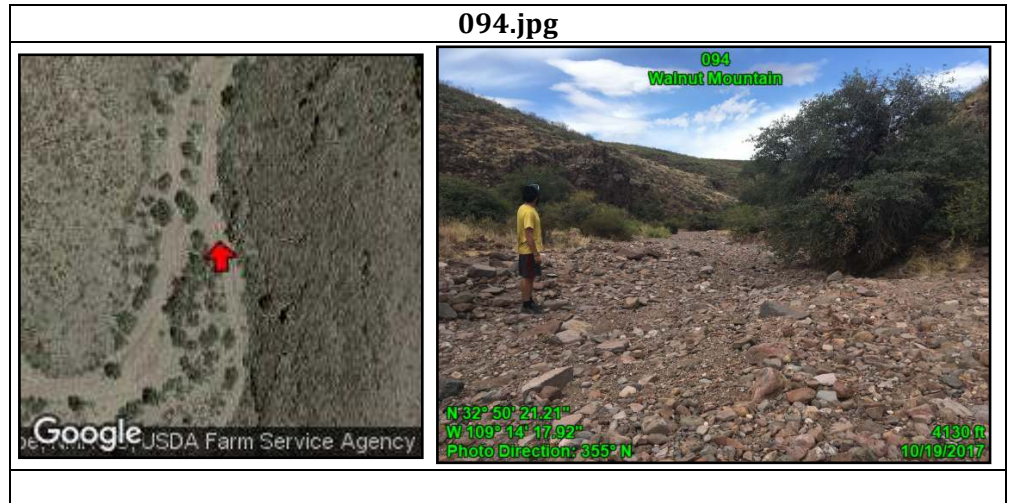


Attributes	
Point	093
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Erosion
Feature notes	Feature minimally affects naturalness
Feature Class	Primitive Route

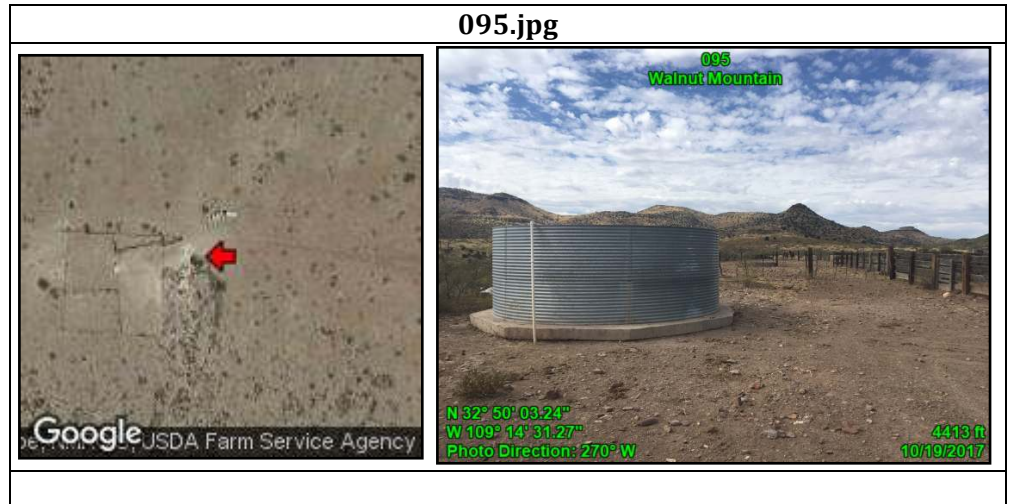


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	094
Unit name	Walnut Mountain
Route: name	None
Route: Construction	None, follows wash
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	No apparent purpose
Route: Determination	Way
Route: Maintenance	None
Other notes	None
Feature	Natural Wash
Feature notes	None
Feature Class	Primitive Route





Attributes	
Point	095
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Recent maintenance of Harris Camp Canyon Road ends here
Feature	Corral and water cistern
Feature notes	Used and maintained
Feature Class	Impact: Excluded



Thumb Butte & Walnut Mountain Proposed LWCs



Attributes	
Point	096
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

**096.jpg**

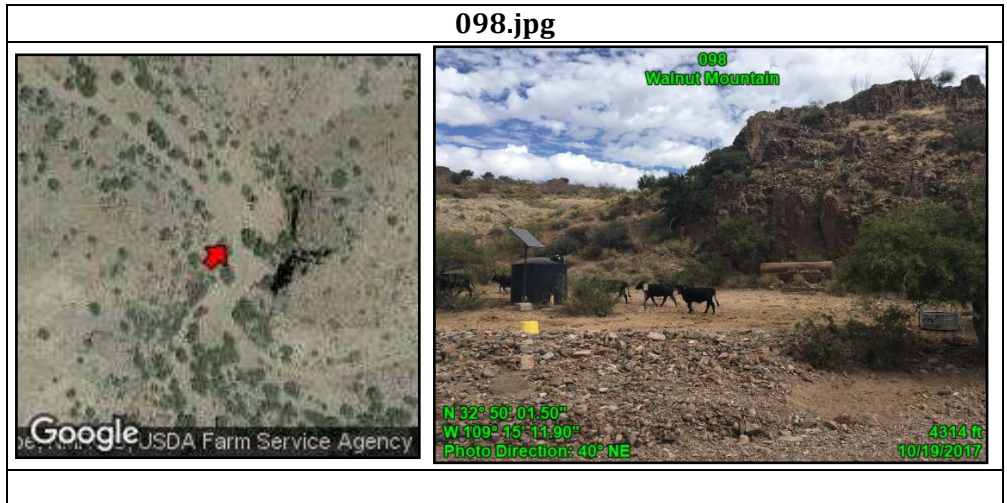
Attributes	
Point	097
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Likely recent erosion from summer rains
Feature	Erosion
Feature notes	Worst section of route
Feature Class	Boundary Element

**097.jpg**

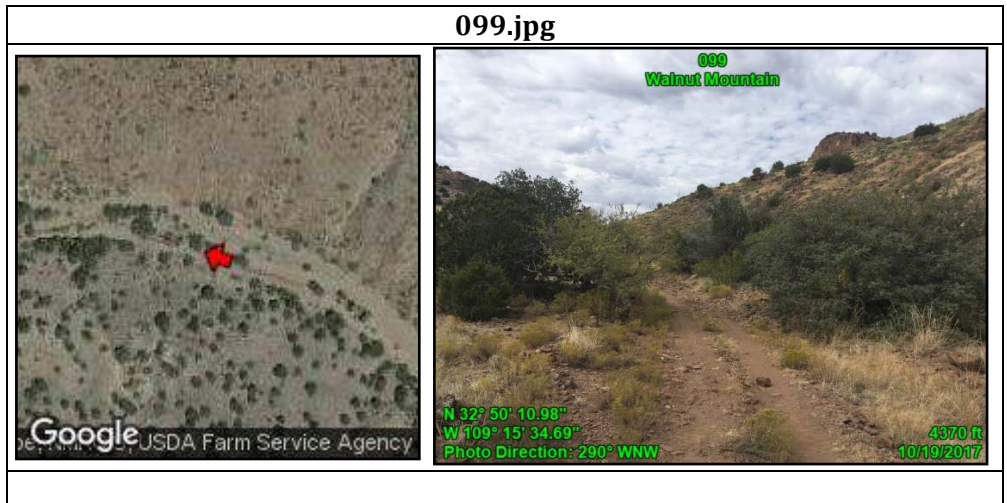



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	098
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	None
Other notes	Unit Boundary
Feature	Water cistern, solar panel, livestock watering station
Feature notes	None
Feature Class	Impact: Excluded

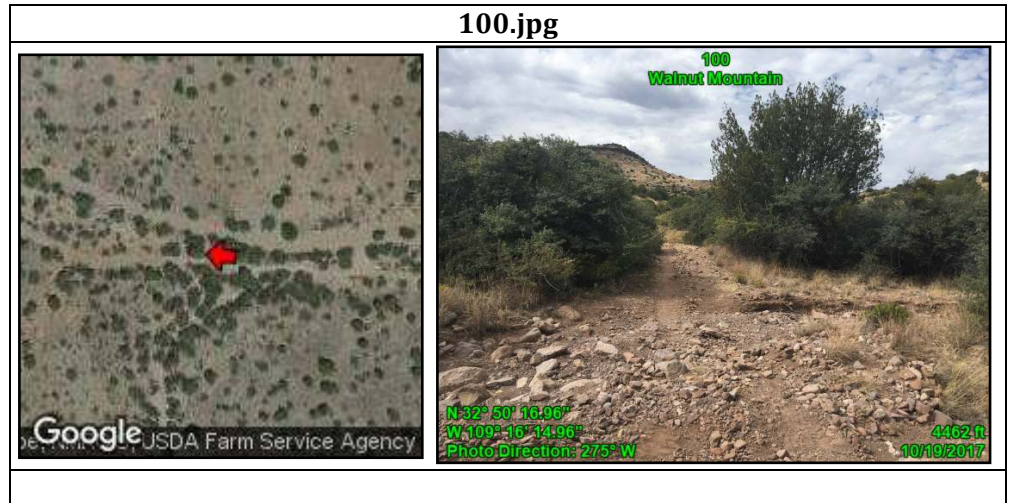


Attributes	
Point	099
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

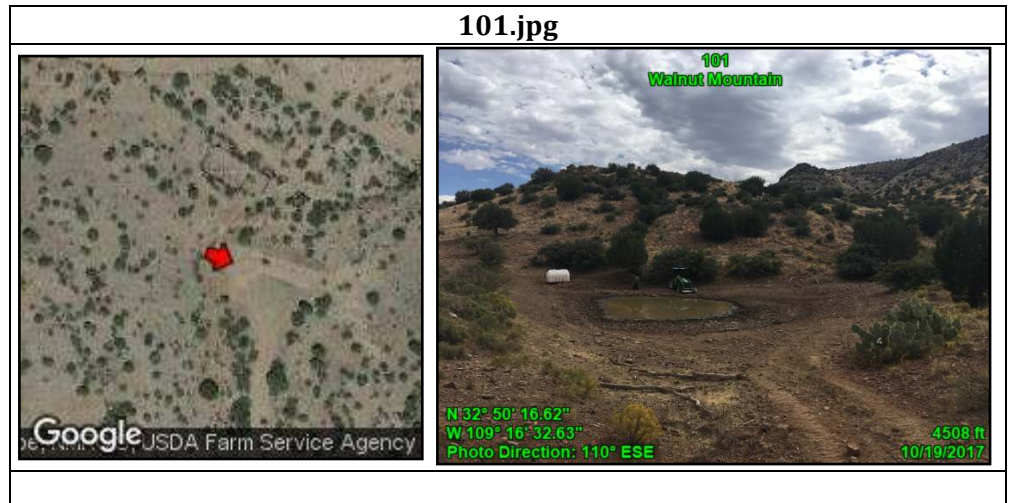


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	100
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	Unit Boundary
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element



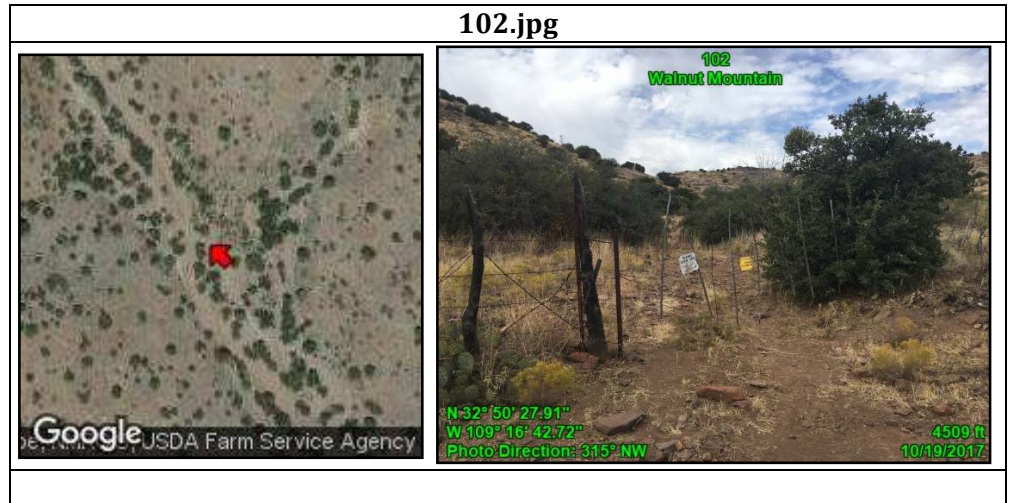
Attributes	
Point	101
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route: Improvements	N/A
Route: Use	N/A
Route: Purpose	N/A
Route: Determination	N/A
Route: Maintenance	N/A
Other notes	Accessed by Harris Camp Canyon Road
Feature	Stock pond and equipment
Feature notes	Harris Camp Spring area
Feature Class	Impact: Excluded



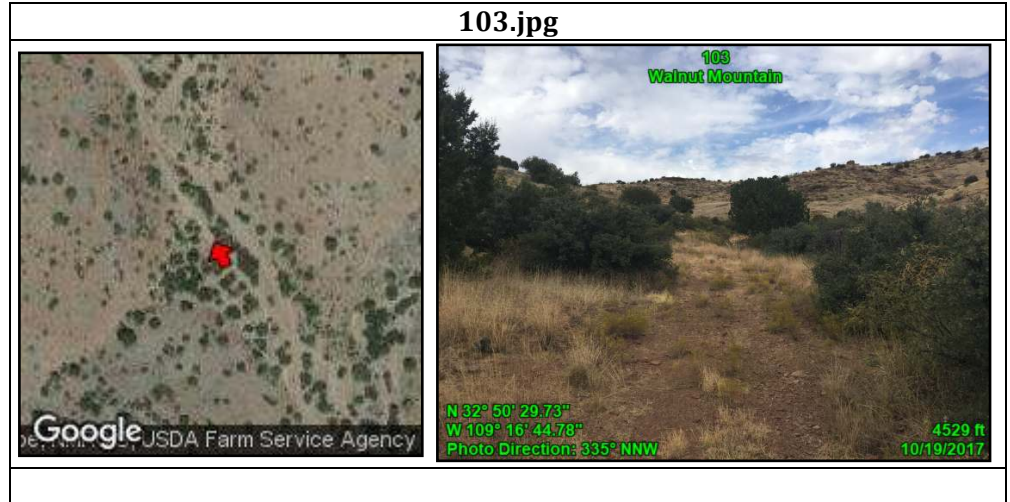


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	102
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks, less usage north of this gate
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Old evidence - 3-5 years ago
Other notes	None
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Boundary Element

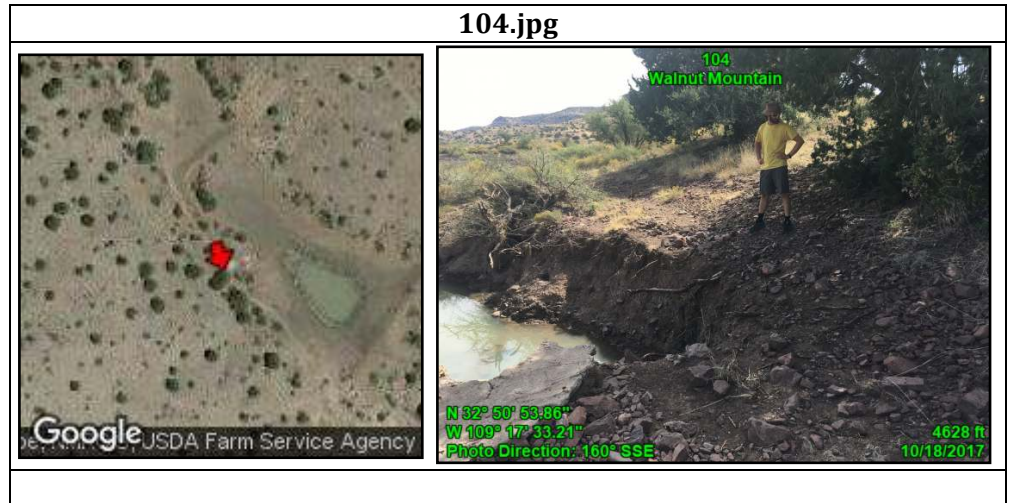


Attributes	
Point	103
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks, minimal evidence of use
Route: Purpose	Multilpe uses
Route: Determination	Road
Route: Maintenance	Likely if needed
Other notes	Unit Boundary
Feature	Typical Condition of Route north of Point 102
Feature notes	None
Feature Class	Boundary Element

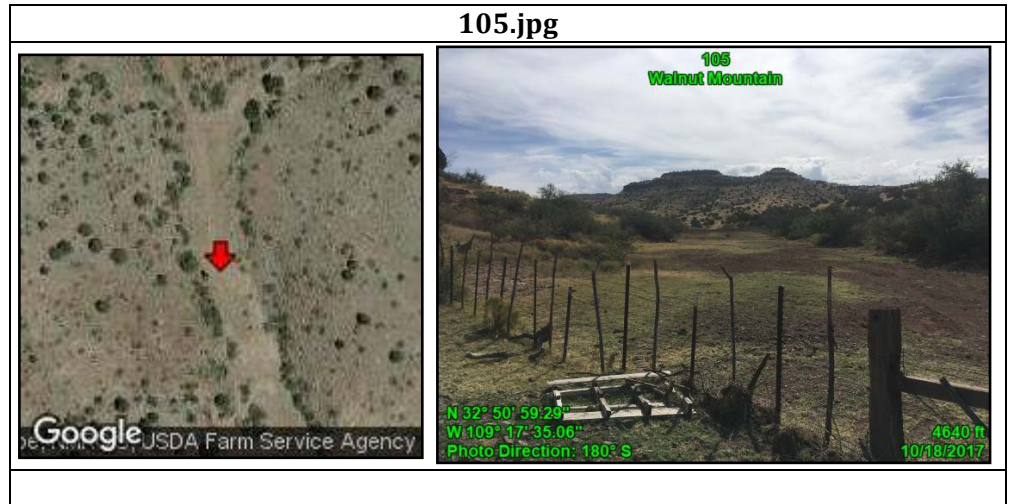


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	104
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route:	None
Improvements	
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route:	Road
Determination	
Route: Maintenance	Likely if needed
Other notes	Unit Boundary
Feature	Erosion
Feature notes	This erosional feature has seemed to halt most use travelling south from here.
Feature Class	Primitive Route

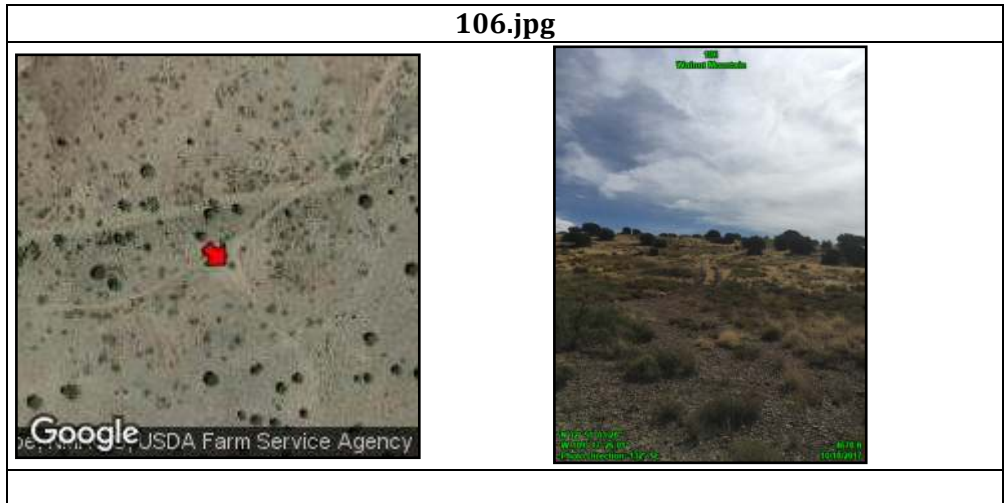


Attributes	
Point	105
Unit name	Walnut Mountain
Route: name	N/A
Route: Construction	N/A
Route:	N/A
Improvements	
Route: Use	N/A
Route: Purpose	N/A
Route:	N/A
Determination	
Route: Maintenance	N/A
Other notes	Unit Boundary
Feature	Pasture and stockpond in distance
Feature notes	Heavy use
Feature Class	Impact: Excluded

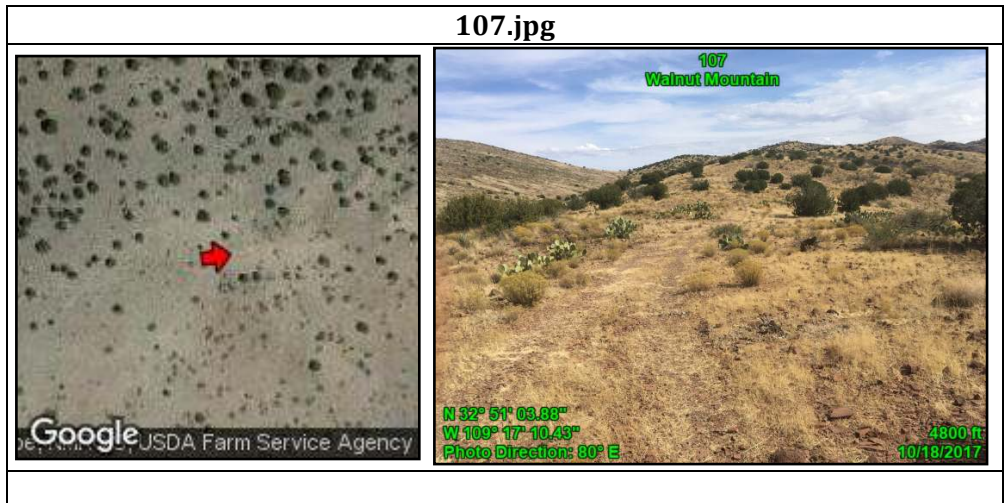


Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	106
Unit name	Walnut Mountain
Route: name	None
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Fence line access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by the passage of vehicles
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Primitive Route



Attributes	
Point	107
Unit name	Walnut Mountain
Route: name	None
Route: Construction	No evidence/user-created
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Fence line access
Route: Determination	Way
Route: Maintenance	None
Other notes	Kept open solely by passage of vehicles
Feature	Typical Condition of Route
Feature notes	None
Feature Class	Primitive Route



Thumb Butte & Walnut Mountain Proposed LWCs

Attributes	
Point	108
Unit name	Walnut Mountain
Route: name	Harris Camp Canyon Rd
Route: Construction	Bladed
Route: Improvements	None
Route: Use	4-WD Trucks
Route: Purpose	Multiple uses
Route: Determination	Road
Route: Maintenance	Semi-recent evidence - 1-3 years ago
Other notes	Unit Boundary
Feature	Best section of northern half of road
Feature notes	None
Feature Class	Boundary Element

