

Proposed Lands with Wilderness Characteristics:
Hualapai Mountains



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



ARIZONA WILDERNESS COALITION

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Cover Photo: Burch Peak, viewed from the eastern unit boundary (BLM Route 7248).

All Photos by the authors.

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 the 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.¹

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 Resource Area of northwestern Arizona, based on new, accurate, and up-to-date information according to **Manual 6310**.²

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

Minimum standards for LWC proposals are described in Manual 6310 in section .06.B.1. There are three things required in a citizens' 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. (.06.B.2). This proposal report provides the three necessary criteria listed above.

¹Memorandum 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

² 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

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

Requirements for determining lands have wilderness characteristics are found in section .06.C.2 of Manual 6310. 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 stock ponds.

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.

INTRODUCTION: Report Content & Organization

This proposal report is divided into four component sections, described below.

SECTION 1: Proposed LWC Overview: A Map & Photo Based Tour of the Landscape

The large size of this LWC proposal required the generation of a wide array of maps, sufficient to show the detailed place names, photo-data points, and other important information. The first map, on page 6, illustrates the unit's location in relation to surrounding developed areas and geographic features. The map on page 7 shows regional land ownership and the names of geographic features referenced throughout the report. A unit-scale map is provided on page 8 that displays the general unit boundaries, consisting of BLM land ownership, wilderness inventory roads, and excluded areas. This map also provides brief descriptions of cherrystemmed routes, inholdings, and boundary adjustments.

The size of the unit required that most map information was divided into twelve "zoomed in" detail maps, shown between pages 10 and 34 of Section 1 under the heading **Detail Maps and Discussion of Wilderness Characteristics**. The map on page 9 is a key to these twelve topographic detail maps. Each detail map shows waypoint and photopoint data, locations of landscape photos, BLM route inventory data, BLM route names & numbers (if applicable), springs, and more geographic name information.

Each detail map is accompanied by information that is organized in the following manner:

- At the top of each page, above the map, is a list of what the map is intended to illustrate.
- Below each map is a discussion of human features and their **impacts to naturalness**.
- On the page following the detail map is a panoramic landscape photo showing the area encompassed by the map. Each landscape photo is named to match the detail map name, with a prefixed "L#" symbolizing "Landscape" and the number of the corresponding map. The key to detail maps on page 9 also shows the location of all 12 of the landscape photos.
- Below and left of each landscape photo is an inset terrain map that clearly shows the location and direction of the panorama. Symbology is consistent with the map legend provided on the key to detail maps on page 9, but all other map labels are excluded to simplify the map.
- Below and right of each landscape photo is a general discussion of: 1) the area's vegetation, geology, and terrain; 2) **supplemental values** such as sensitive species, unique habitats, and historic sites; 3) a description of the **outstanding opportunities for solitude and/or primitive and unconfined recreation** that occur in the area covered by the detail map.

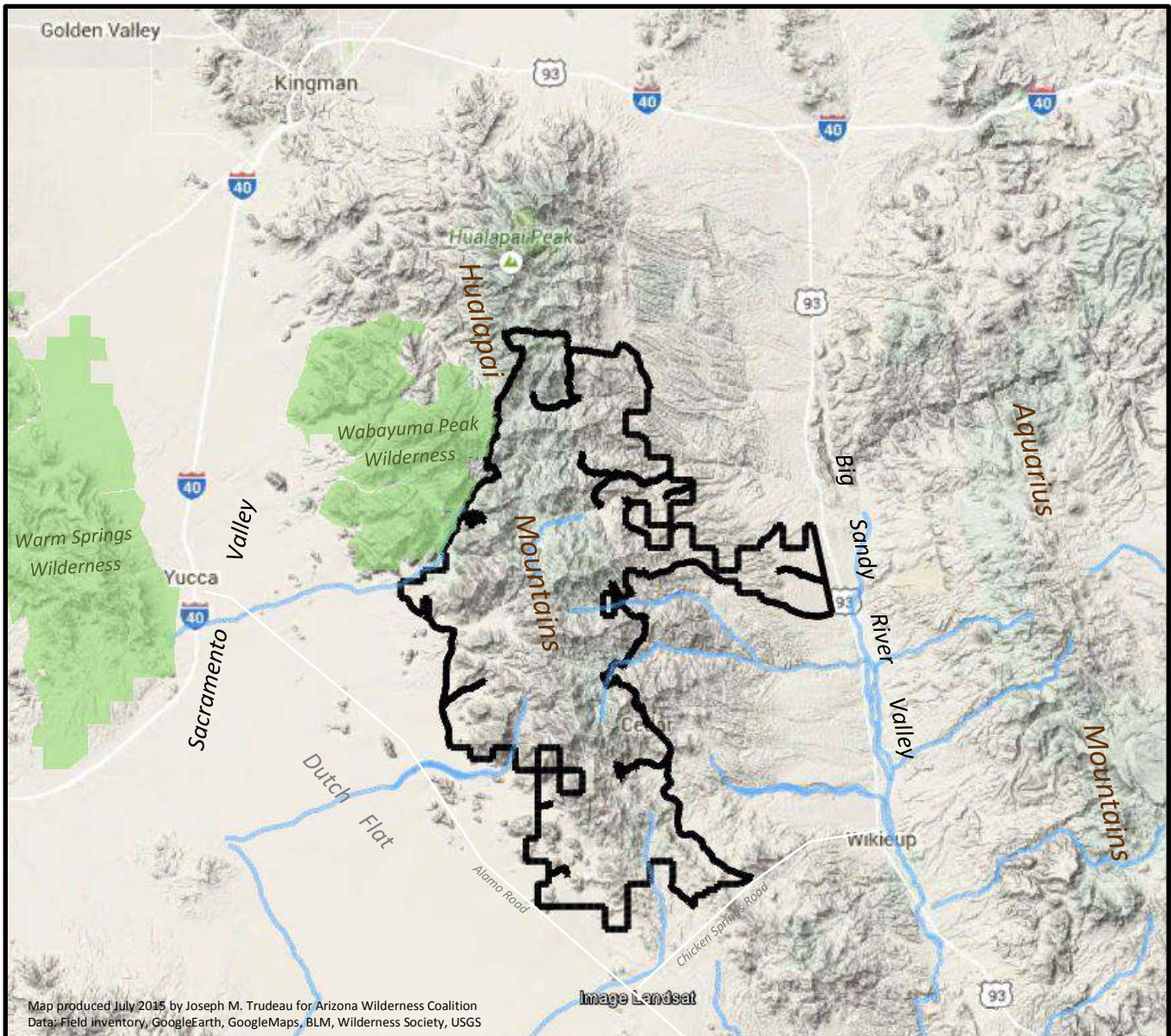
SECTION 2: Summary of Wilderness Characteristics

This section provides a final summary of the required discussions of wilderness characteristics, including the unit's size, apparent naturalness, and outstanding opportunities for solitude and/or primitive and unconfined recreation. This is just a summary, and the full depth of the discussion is found through Section 1, and the detailed boundary description is in Section 3.

SECTIONS 3 & 4: Detailed Boundary & Routes Description and Photopoint Data

These sections provide a narrative tour around the unit boundary and describe every wilderness inventory road and primitive route encountered during the April, 2015 field inventory, followed by photographs at each point with informative tables

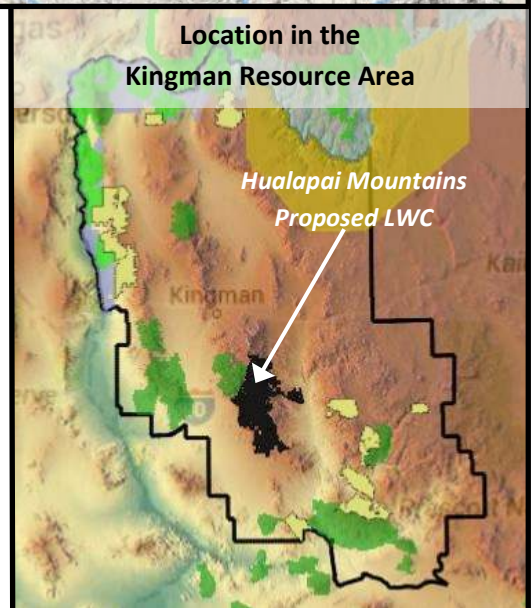
MAP: Location of the Hualapai Mountains Proposed Lands with Wilderness Characteristics (LWC)



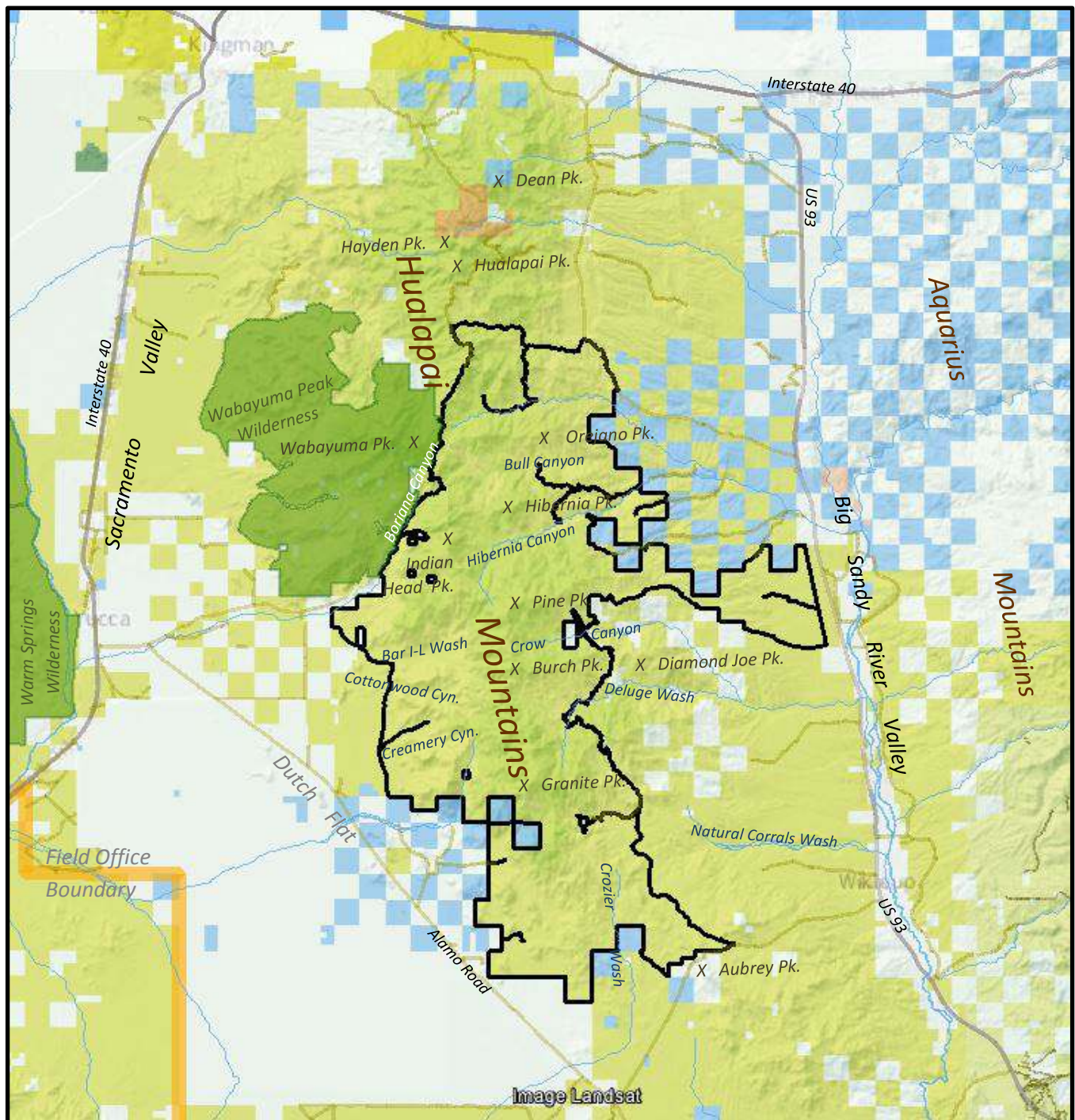
Map produced July 2015 by Joseph M. Trudeau for Arizona Wilderness Coalition
 Data: Field inventory, GoogleEarth, GoogleMaps, BLM, Wilderness Society, USGS

Hualapai Mountains Proposed LWC

The Hualapai Mountains Proposed Lands with Wilderness Characteristics encompasses 128,943 acres in Mohave County, Arizona, 15 miles south of the city of Kingman. The unit contains the southern two-thirds of the Hualapai Mountains, a 40-mile long “sky island” range that rises almost 7,000 feet above the Sacramento Valley to the west, and over 6,000 feet above the town of Wikieup in the Big Sandy River to the east. The proposed LWC contains a number of prominent peaks and canyons that form the scenic views from U.S. Highway 93 on the east, Interstate 40 on the north and west, and Alamo and Chicken Springs Roads on the west and south. The unit, containing more than 200 square miles, spans 26 miles from north to south, and 18 ½ miles from west to east, and features vast Mohave Desert plains, rolling high desert grasslands, steep brush-covered hillsides, and soaring peaks clad in pine-oak forest and woodland. The area has history of mining, most of which is now inactive, and ranching, which is still a vibrant contributor to the local economy.



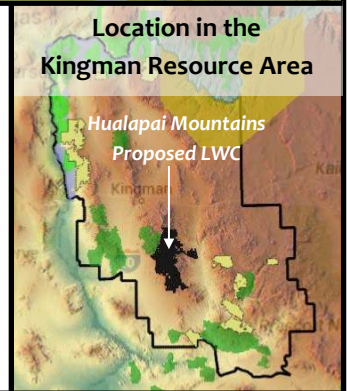
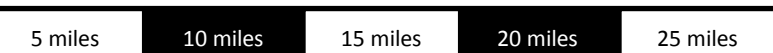
MAP: Land Ownership & Major Natural Features in the Hualapai Mountains Area



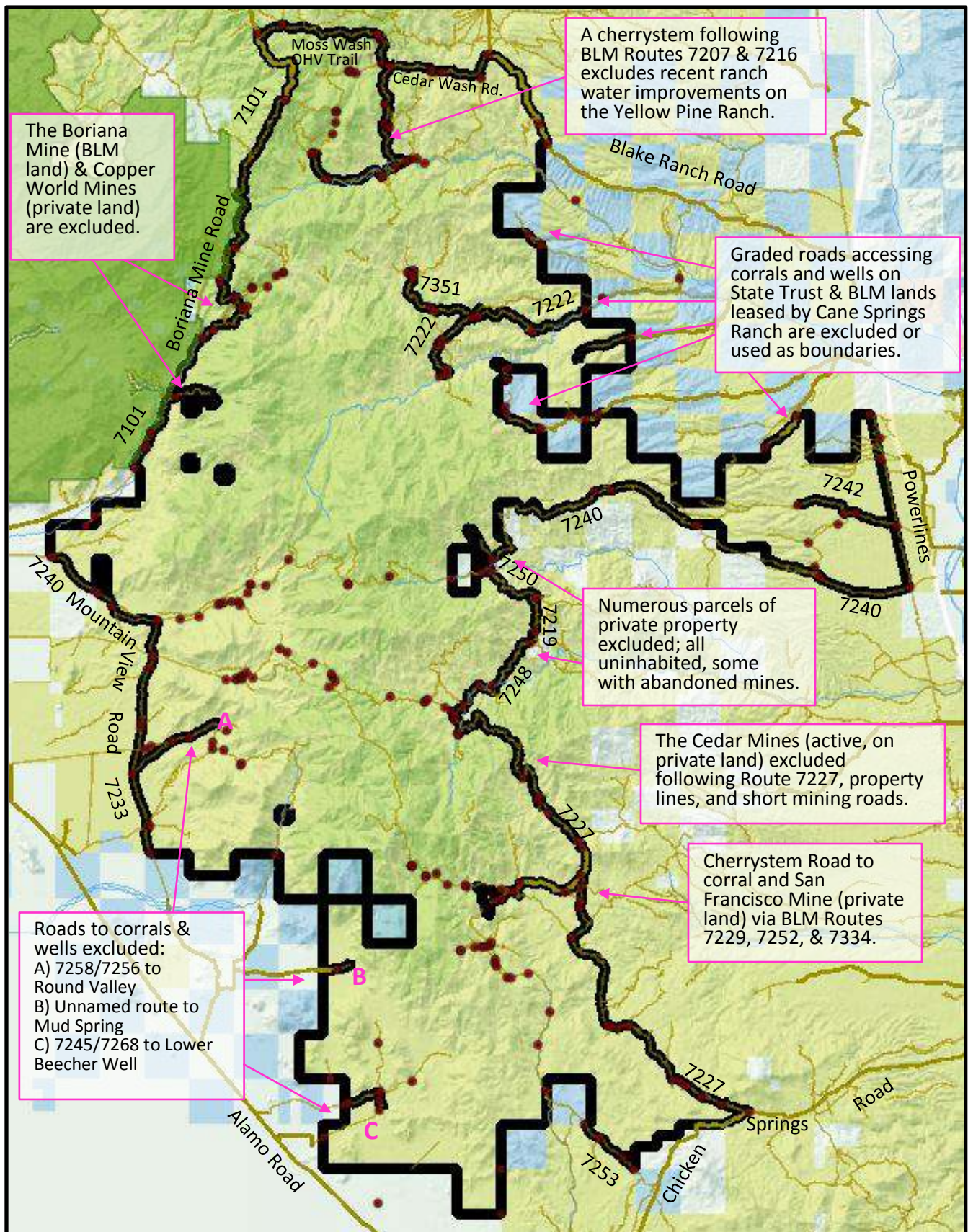
Hualapai Mountains Proposed LWC

- | | |
|---------------------------|-------------------------------|
| Bureau of Land Management | Az. State Trust Land |
| LWC Unit Boundary | Wilderness Areas |
| Private Land | Hualapai Mountain County Park |
| Streams & Washes | Major Roads |

Map produced September 2016 by Joseph M. Trudeau for Arizona Wilderness Coalition
 Data: Field inventory, Google Earth, Google Maps, BLM, Wilderness Society, USGS, Landsat



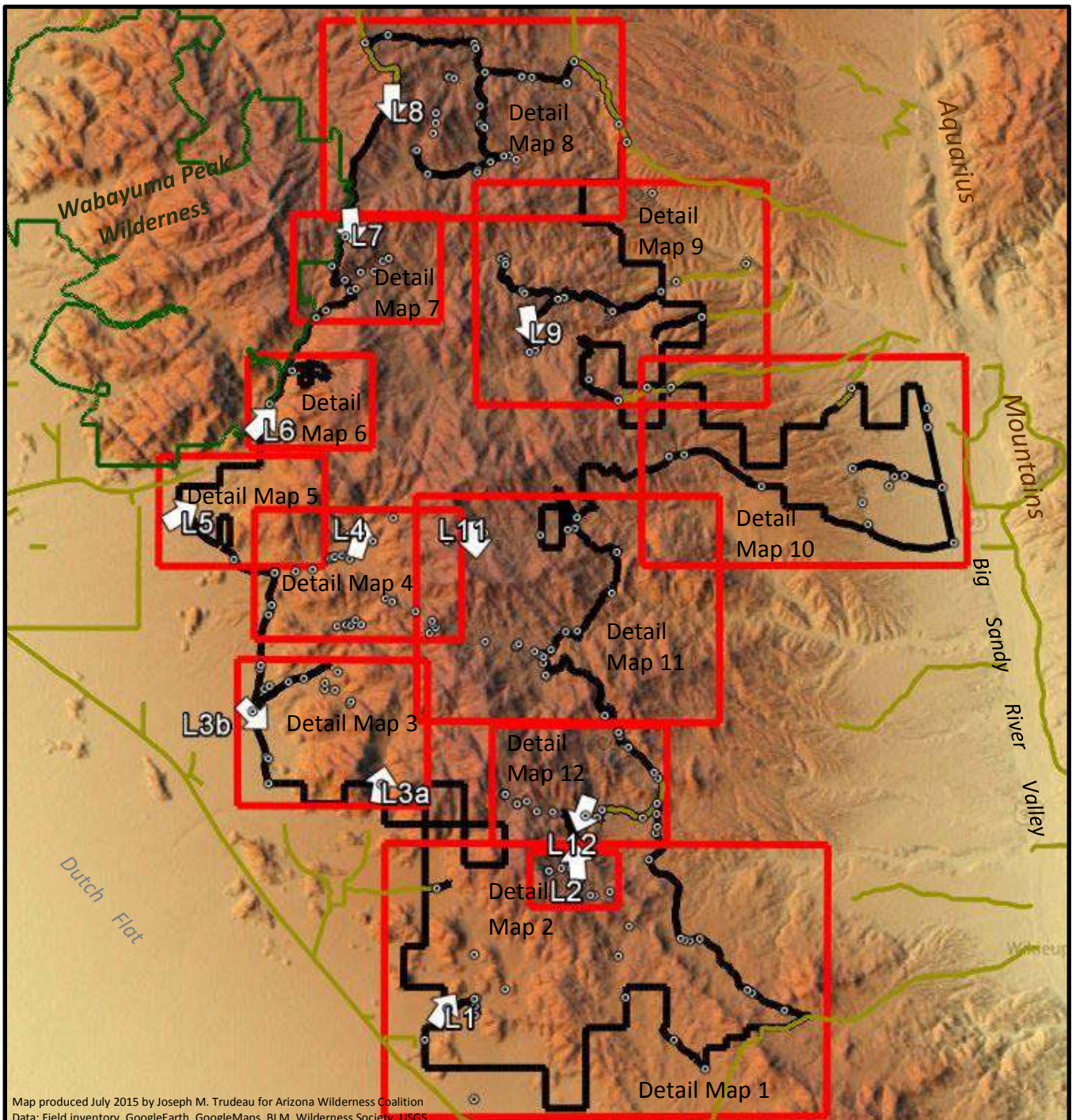
MAP: Hualapai Mountains Proposed LWC Unit Boundary & Excluded Areas



Map shows LWC boundary (black line), boundary routes, excluded areas, cherrystems, and photopoints (red dots).

BLM Route Inventory	
	-BLM Primary & Secondary Routes are in thick brown.
	-Tertiary Routes are in thin brown (includes "need-to-verify", "photointerp", and "reclaimed" routes).

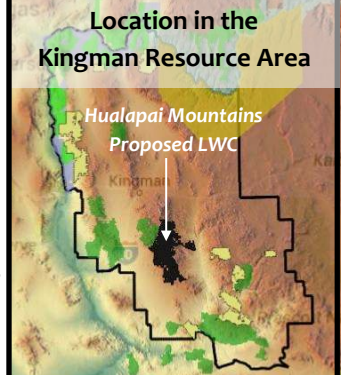
MAP: Key to Detail Maps Showing Photopoints and Other Data



Map produced July 2015 by Joseph M. Trudeau for Arizona Wilderness Coalition
 Data: Field inventory, GoogleEarth, GoogleMaps, BLM, Wilderness Society, USGS

<p> Detail Maps – reference these introductory maps for key to symbology</p> <p>Map 1: Southern end of Unit Map 2: Pipeline Spring Area Map 3: Creamery Canyon/Cow Creek Area Map 4: Bar I-L Wash/Cottonwood Canyon Area Map 5: Happy Jack Wash Area Map 6: Copper World Mine & Boriana Mine Road Map 7: Boriana Mine/Bull Canyon Mines Area Map 8: Cedar Wash/Orejano Peak Area Map 9: Bull & Hibernia Canyons Map 10: Pilgrim Wash bajada Map 11: Burch Peak/Crow Canyon/Deluge Wash Area Map 12: San Francisco Mine/Cedar Millsite Area</p>	<p> Photopoints (see Detail Maps for #'s)</p> <p> Waypoints (only shown on Detail Maps)</p> <p> Landscape Photopoints (following Detail Maps)</p> <p> Primary & Secondary Roads</p>
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Five Miles

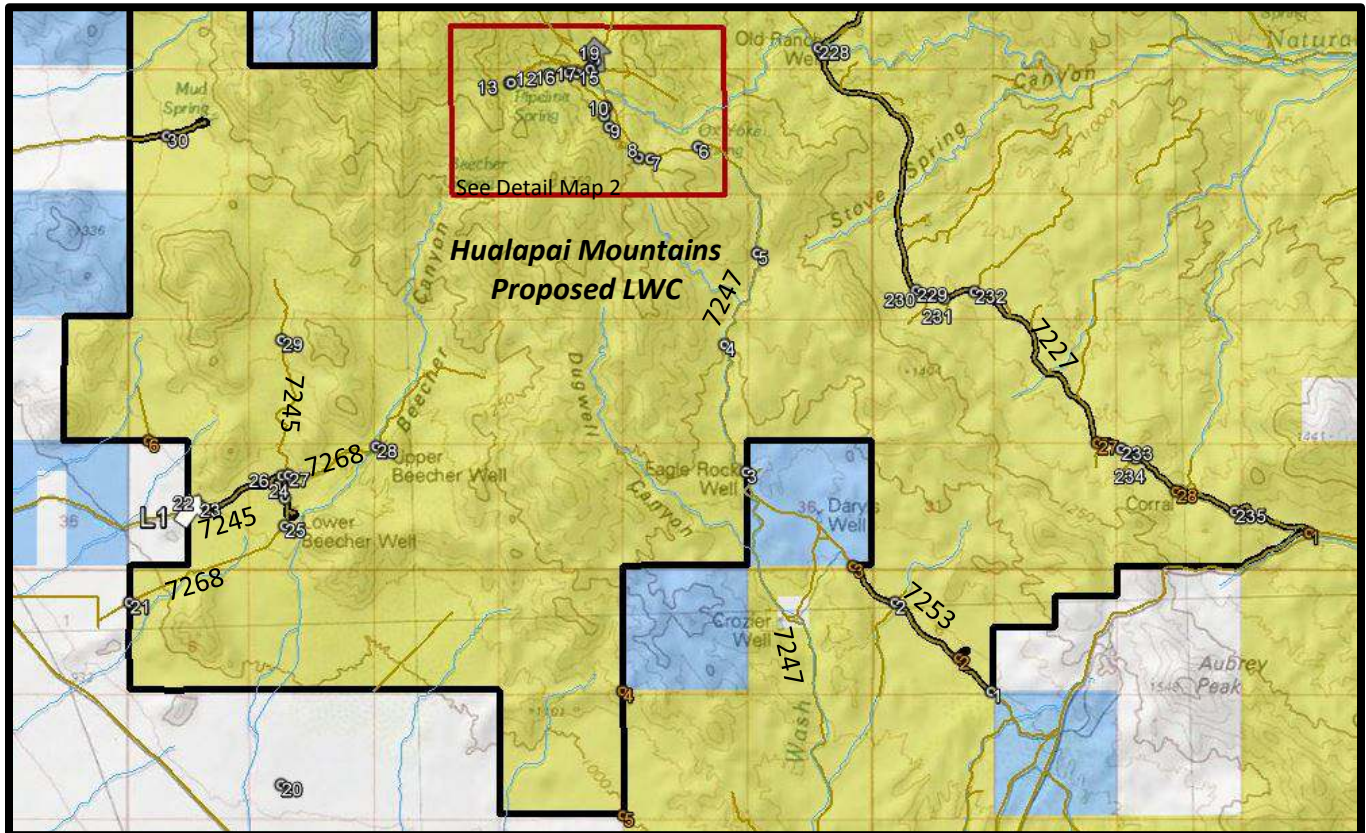


Detail Maps and Discussion of Wilderness Characteristics

Detail Map 1: Southern Area of Proposed LWC

Showing:

- Photopoints 1-3 along BLM Route 7253, a portion of the southern unit boundary
- Photopoints 3-19 within Pipeline Spring/Crozier Wash area (see Detail Map 2 for closer detail)
- Photopoints 20-29 in the Beecher Canyon Area, including cherrystemmed route to Lower Beecher Well and corral (BLM Routes 7245 & 7268)
- Photopoints 228-235 on the southeastern boundary road (BLM Route 7227)
- Photopoint 30 at the Mud Spring exclusion
- Waypoints 1-5, 27, & 28 at points of orientation or excluded ranching installations
- excluded State Trust Lands that form the southern unit boundary



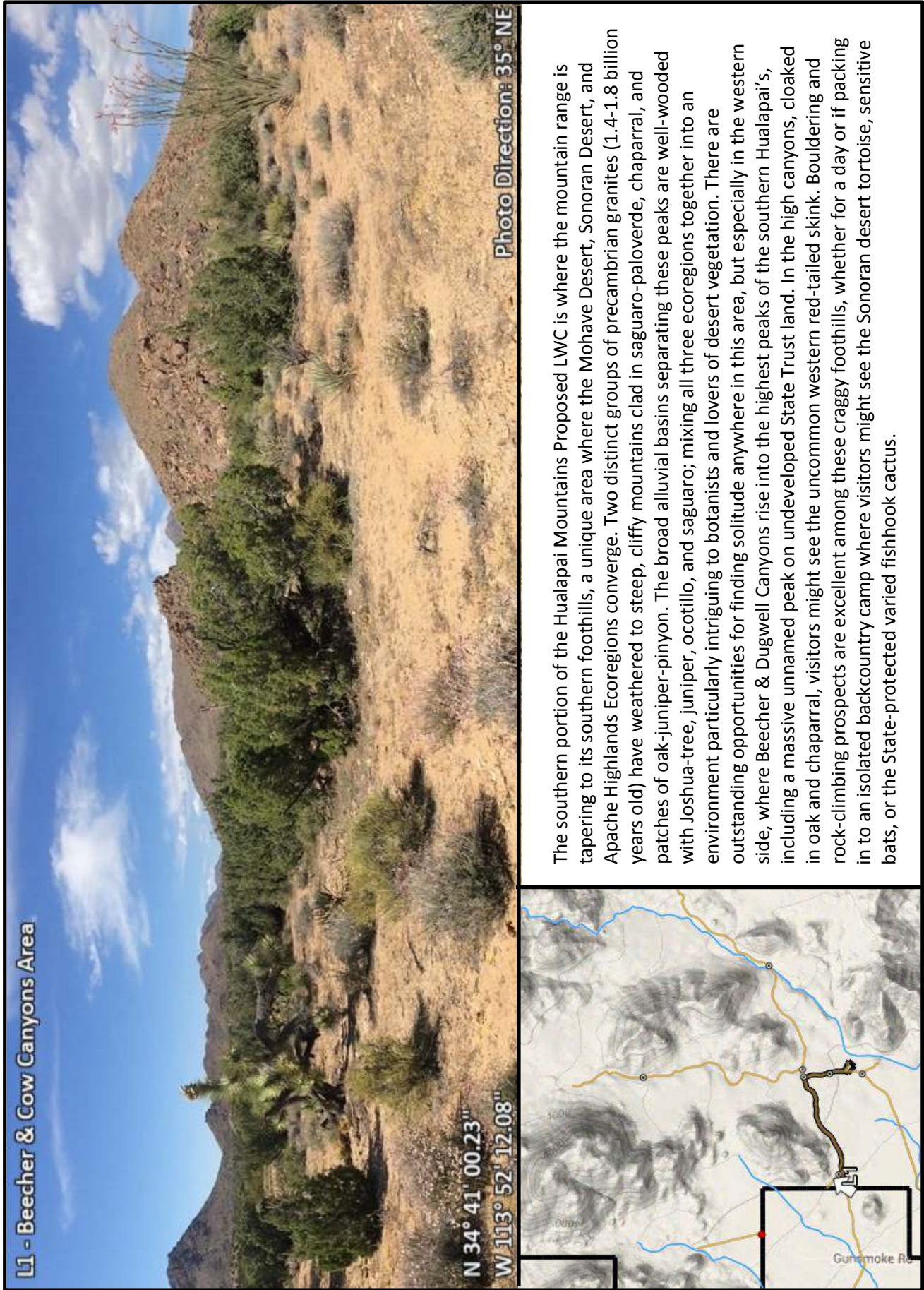
Discussion of Human Impacts to Naturalness

Eastern Boundary (BLM Route 7227): No substantive impacts to naturalness occur within the unit along this portion of Route 7227. Vehicle ways at Photopoints 228-231 are natural washes or reclaimed and only intrude a few hundred feet. Ways at points 233-235 are also short and are used for recreation. One small corral was excluded from the unit.

Crozier Wash Area: Points 2-5 show the unimproved nature of these routes that mostly follow natural washes. Waypoint 2 shows an excluded corral of no impact to the unit interior. State Trust Lands and BLM lands closer to Chicken Springs Road are excluded because of numerous ranch-related impacts to naturalness and numerous camp sites.

Beecher Well Area: The maintained ranching infrastructure has been excluded from the unit. Points 25-29 show that the other routes in the area have been abandoned or simply follow washes. A historic site at Upper Beecher well would benefit from the closure of route 7268 to protect the site from theft and vandalism. Route 7268 from point 21 is in good condition but unnecessary because of the quality of the cherrystemmed routes.

Mud Spring Well and Corral: This minimal impact is excluded. It sits at the base of a steep, rocky mountainside and is not visible from the rugged interior of the unit.



L1 - Beecher & Cow Canyons Area

N 34° 41' 00.23"
W 113° 52' 12.08"

Photo Direction: 35° NE

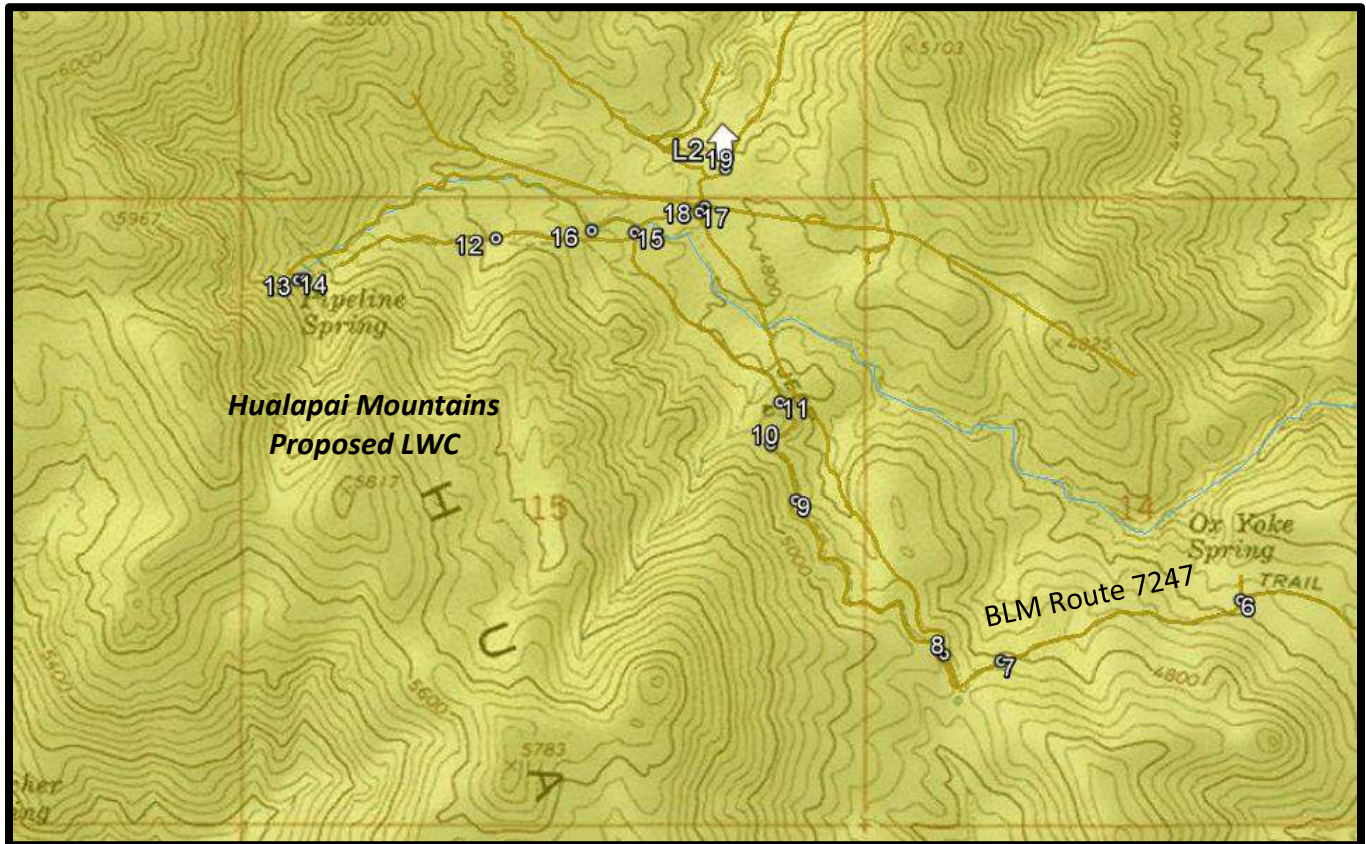
The southern portion of the Hualapai Mountains Proposed LWC is where the mountain range is tapering to its southern foothills, a unique area where the Mohave Desert, Sonoran Desert, and Apache Highlands Ecoregions converge. Two distinct groups of precambrian granites (1.4-1.8 billion years old) have weathered to steep, cliffy mountains clad in saguaro-paloverde, chaparral, and patches of oak-juniper-pinyon. The broad alluvial basins separating these peaks are well-wooded with Joshua-tree, juniper, ocotillo, and saguaro; mixing all three ecoregions together into an environment particularly intriguing to botanists and lovers of desert vegetation. There are outstanding opportunities for finding solitude anywhere in this area, but especially in the western side, where Beecher & Dugwell Canyons rise into the highest peaks of the southern Hualapai's, including a massive unnamed peak on undeveloped State Trust land. In the high canyons, cloaked in oak and chaparral, visitors might see the uncommon western red-tailed skink. Bouldering and rock-climbing prospects are excellent among these craggy foothills, whether for a day or if packing in to an isolated backcountry camp where visitors might see the Sonoran desert tortoise, sensitive bats, or the State-protected varied fishhook cactus.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 2: Pipeline Spring Area

Showing:

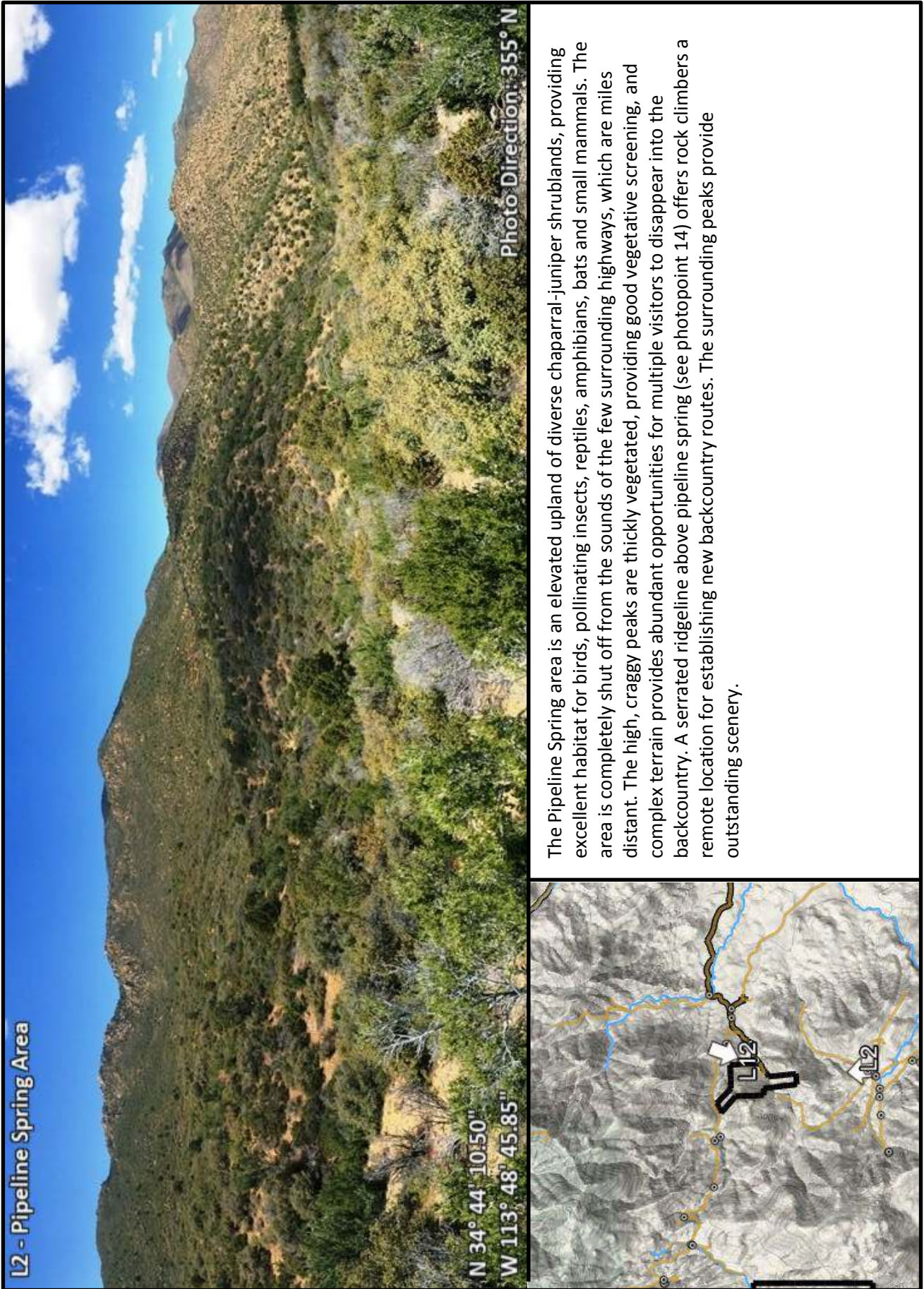
-Photopoints 6-19 at the Pipeline Spring area, documenting primitive routes, fencelines, washes, and pipelines



Discussion of Human Impacts to Naturalness

Pipeline Spring Area: BLM Route 7247 is a substantial route, but is severely degraded. Because of the height of the chaparral in this area the route is barely noticeable unless you are on it. The route was constructed to access Pipeline Spring and was used as the pipeline corridor.

Fencelines and Waterline Corridors: Points 8, 13, 14, 16, 17, 18, and 19 show a number of linear features which are not vehicle routes but rather fences, waterline corridors, or natural washes, which have no impact on the surrounding area. They are currently used by cattle. Management of the spring and livestock/wildlife water systems could be accomplished by horseback.

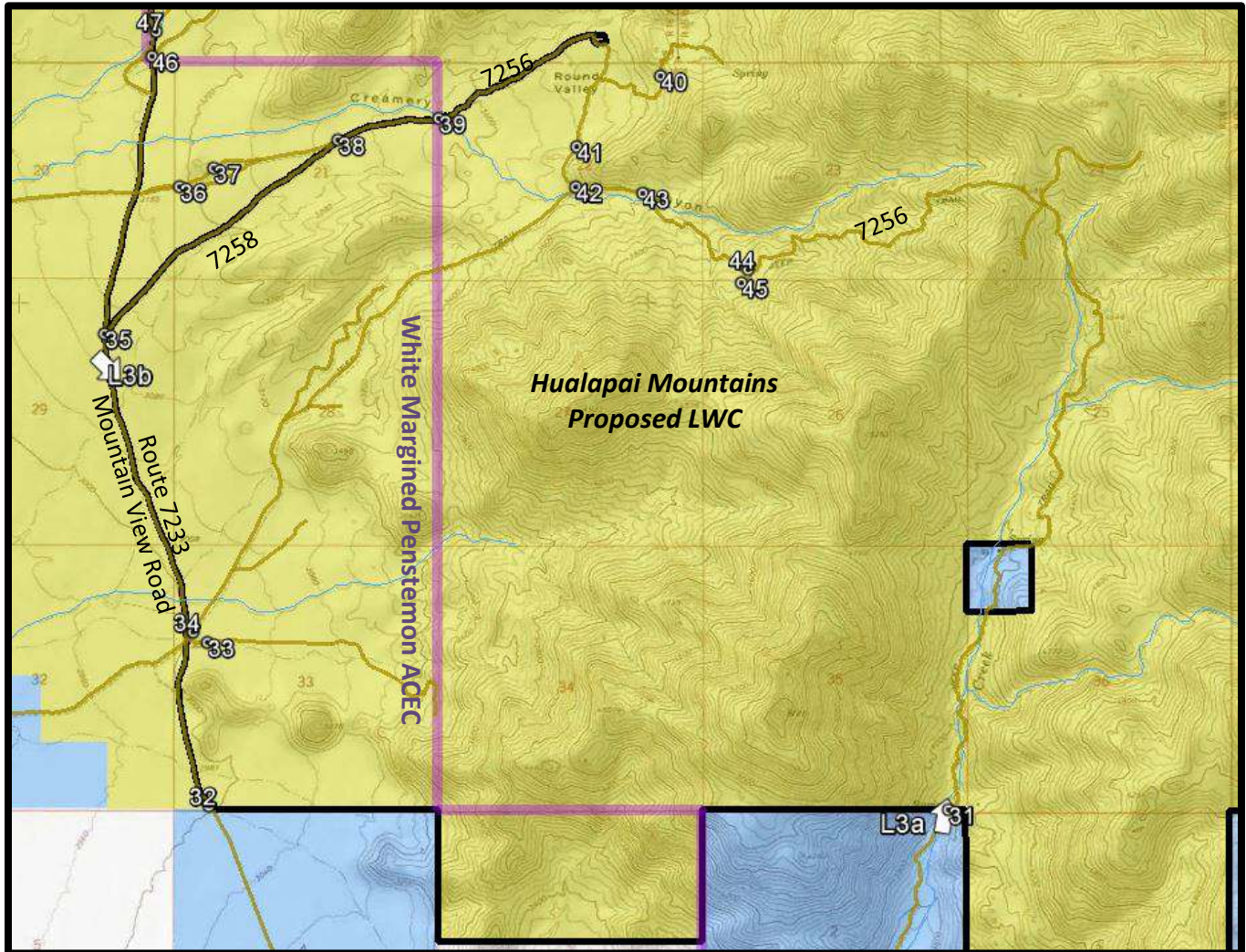


Detail Maps and Discussion of Wilderness Characteristics

Detail Map 3: Creamery Canyon & Cow Creek Areas

Showing:

- Photopoint 31 in Cow Creek documenting the primitive route that accesses undeveloped State Trust land
- Photopoints 32-35 and 46-47 along the western unit boundary, Mountain View Road (BLM Route 7233)
- Photopoints 36-44 in Creamery Canyon and Round Valley
- the cherrystemmed route (BLM Routes 7258 & 7256) to the excluded corral and well at Round Valley
- the southeastern edge of the White Margined Penstemon ACEC (purple line)



Discussion of Human Impacts to Naturalness

Cow Creek: The route up Cow Creek (see point 31) is disappearing and does not affect naturalness. This canyon is a spectacularly beautiful area displaying an interesting mixture of Sonoran and Mohave Desert plants.

Round Valley Ranching: Maintained infrastructure has been excluded, including the corral and water trough at the end of the maintained portion of route 7256. The route to the spring is an extremely narrow ATV route with little impact to the surrounding area.

Creamery Canyon Mining Prospects: Points 33, 34 and 42-45, show several routes that are disappearing. They were built for mine prospecting and are naturalizing. Route 7256 past the Round Valley Corral is an impact to naturalness, but has no apparent purpose and will continue to naturalize, eventually disappearing like the route up Cow Creek, which is the other end of this route.



L3a - Lower Cow Canyon

N 34° 45' 48.98"
W 113° 53' 51.33"

Photo Direction: 10° N



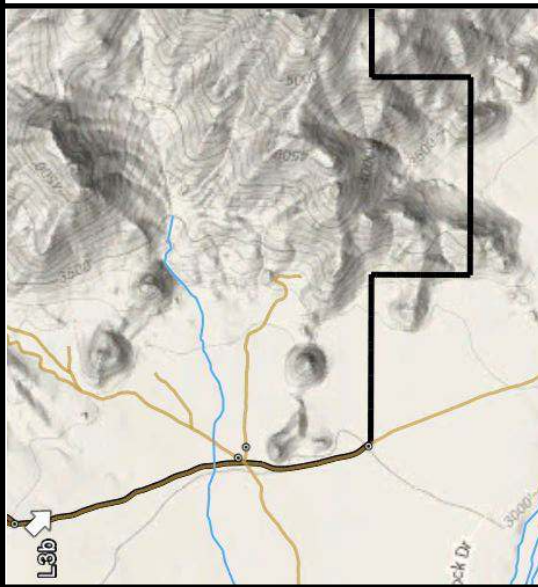
This photo shows Amber hiking on the vehicle way that follows Cow Creek by an abandoned windmill on State Trust Land and over a pass into Creamery Canyon. The route is a typical example of a naturalized way that is kept open solely by the passage of vehicles, which for this trail requires advanced driving skills and a tough rig. The presence of this route, upon which grows cacti, shrubs, and grasses, does not affect the naturalness of this truly wild canyon. Outstanding opportunities for solitude exist in Cow Creek Canyon, with many steep washes converging among boulders and cliffs. The canyon is almost completely isolated from the outside world, is buffered from private lands by undeveloped State Trust lands. An excellent 2-3 day backpacking trip could be had, linking Cow Creek (3,600') to Granite Peak (7,069) by following abandoned vehicle ways and challenging bushwhacking routes that climb from Mohave desertscrub to Great Basin Pinyon-Juniper Woodlands. If done during the rainy season, visitors might get to see one of the many flash floods that has shaped the tossed boulders and polished bedrock of Cow Creek. Extremely challenging scrambling routes lure the desert mountaineer upward towards the jagged ridges and summits of the soaring peaks.

L3b - Creamery Canyon Area



N 34° 47' 16.90"
W 113° 57' 11.45"

Photo Direction: 135° SE



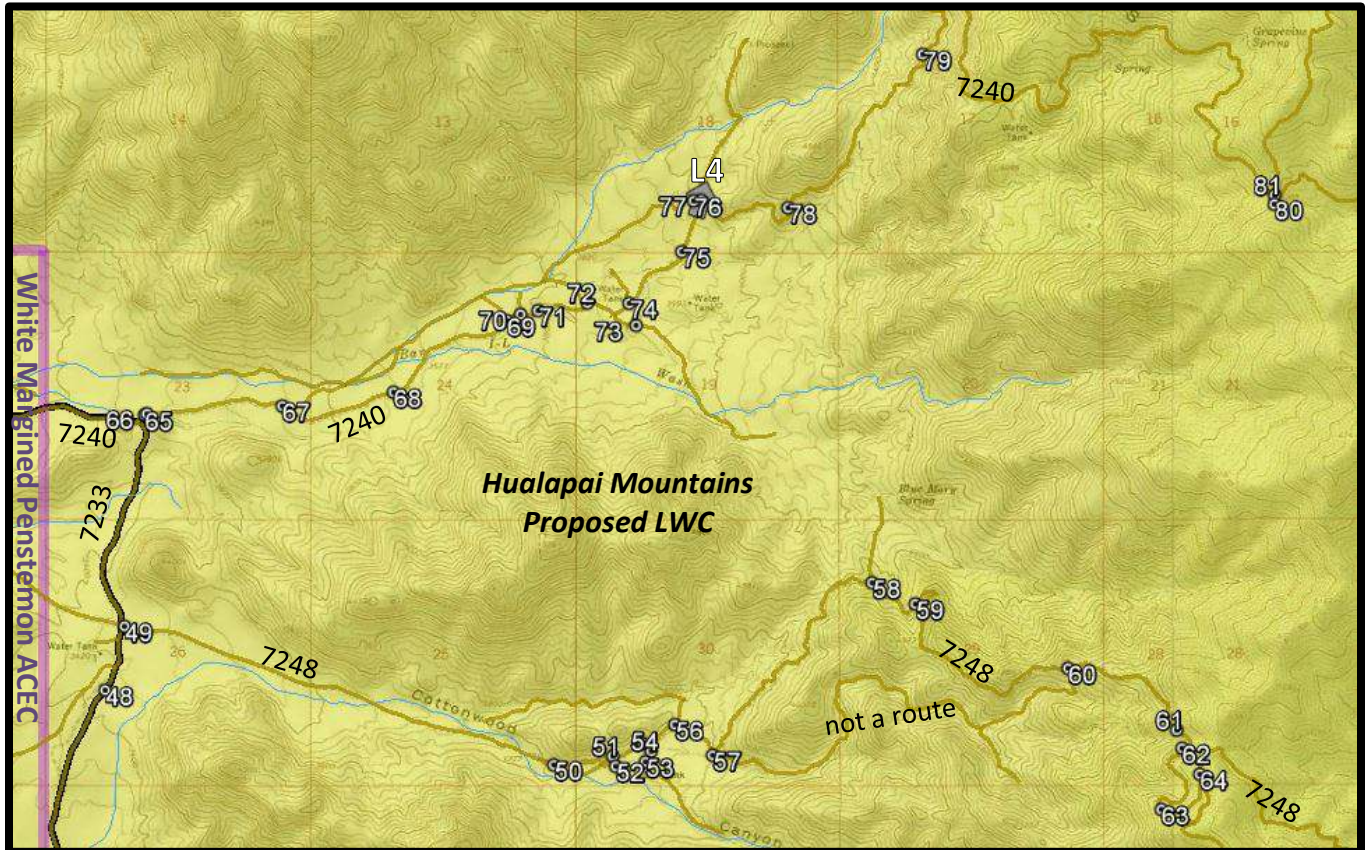
The Creamery Canyon area is typical of the southwestern Hualapai Mountains area, straddling the ecoregional boundary between the Mohave Desert and the Apache Highlands. Rugged granite peaks rise more than 2,500 feet above the sprawling desert plains of Dutch Flat, offering multiple challenging routes to the isolated summits that provide outstanding views of the crest of the Hualapai Mountains immediately to the east. The boulder-strewn slopes are prime habitat for the Sonoran desert tortoise, the banded Gila monster, and the northern three-lined boa, and the sandy desert flats below are known critical habitat for the white-margined penstemon (critically imperiled in Arizona) and the linearleaf sand spurge (vulnerable in Arizona). Solitude is abundant whether among the complex terrain of the mountains, or within the sea of mature creosotebush, Joshua-tree, and ocotillo in the surrounding flats. The cherrystemmed route to the Round Valley corral is a minute impingement on the wilderness experience, and the presence of the excluded route should not impact the naturalness of the lands between it and other impacts (BLM Manual page 9).

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 4: Bar I-L Wash & Cottonwood Canyon Areas

Showing:

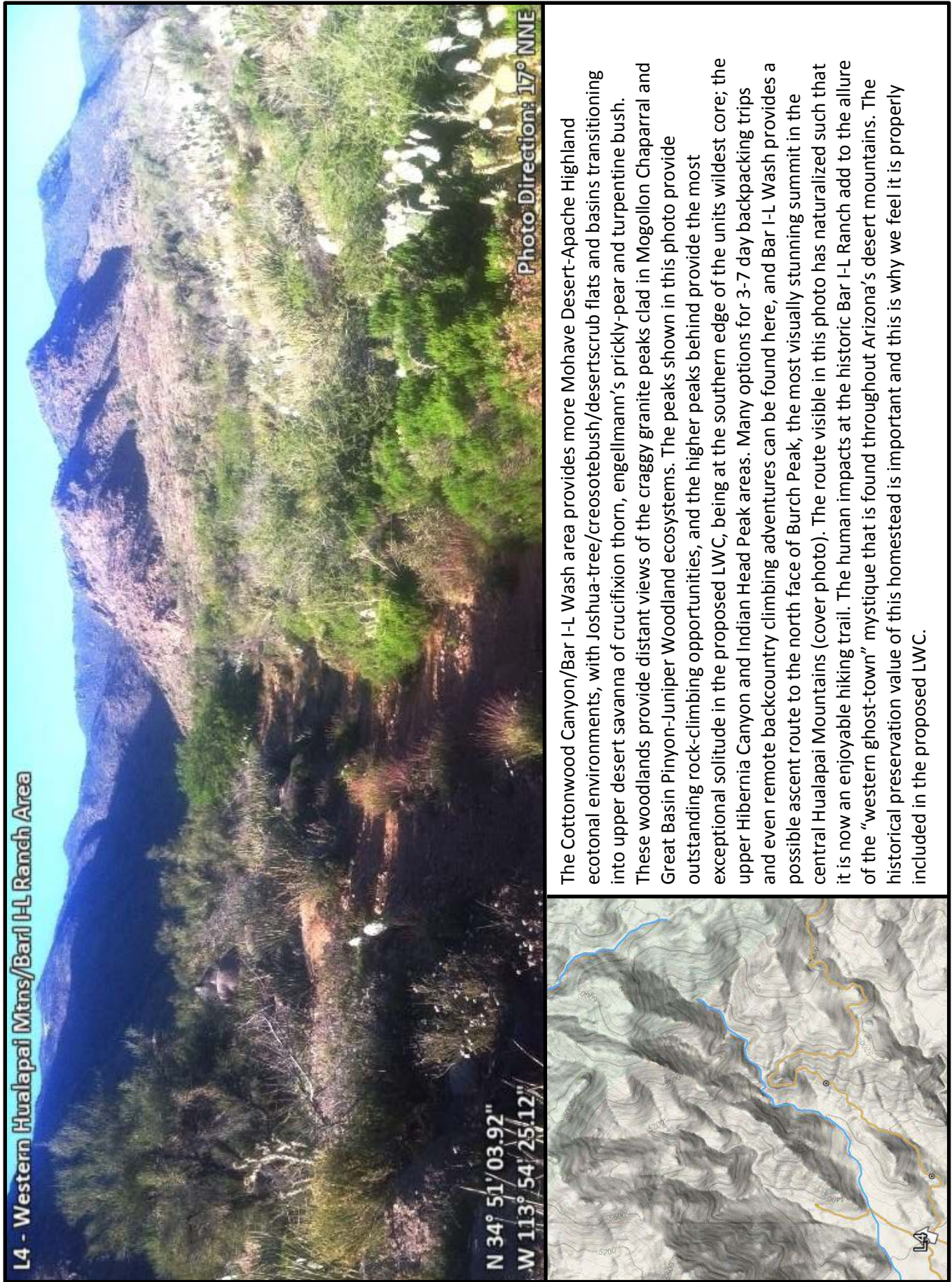
- Photopoints 48-64 in Cottonwood Canyon
- Photopoints 65-81 in Bar I-L Wash
- the eastern edge of the White Margined Penstemon ACEC



Discussion of Human Impacts to Naturalness

This map shows the most substantial impacts to naturalness in the entire proposed LWC. Despite these impacts, we are including the area because the incredible scenery, the historic value of an abandoned homestead, and the outstanding opportunities for solitude & primitive recreation that can be found in this portion of the Hualapai Mountains. There appears to be no active ranching in these basins; all equipment appears abandoned. **Cottonwood Canyon (BLM Route 7248):** Route 7248 leads to a deteriorating and abandoned well and corral (point 52), then continues over the pass between Burch & Granite Peaks, where a Mohave County ALERT Flood Warning Antenna has been installed. Because the route is a “through way” to the eastern unit boundary roads, it may be considered a substantial impact to naturalness, which is amplified by the presence of the weather radio, although the BLM has not granted a formal right-of-way to access the site. However, our photo data proves the condition of these routes is exceptionally poor, being grown in with chaparral/desertscrub vegetation (points 51, 53, 54, 56, 63, 64) or narrow, eroded, off-camber two-tracks that are blending in with the uneven terrain (points 50, 55, 58, 59, 61, 63). These vehicle routes are unnecessary and LWC management can restore ecological integrity to the otherwise very wild and scenic Cottonwood Canyon.

Bar I-L Wash (BLM Route 7240): BLM Route 7240 is another “through way”, but it is in even more naturalized condition than 7248 as it climbs toward the saddle between Burch and Pine Peaks on its way towards the eastern LWC boundary at the Chappo Spring private land. The Route passes the historic Bar I-L Ranch headquarters, which is long-since abandoned and provides a window into the ranching history of the area. Management of this area as an LWC would quicken the restoration of the wilderness values that are naturally returning following the abandonment of ranching in these canyons.



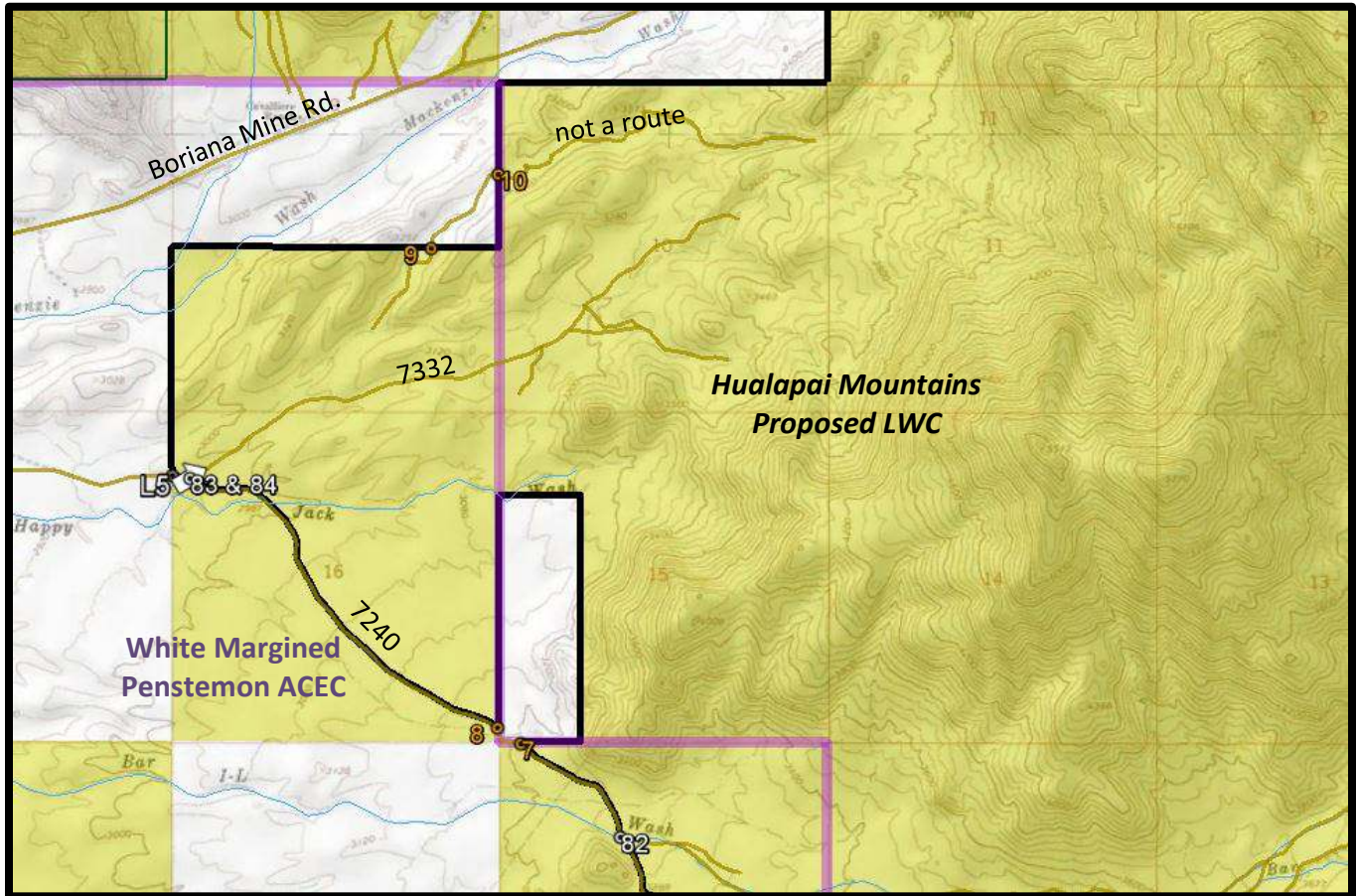
The Cottonwood Canyon/Bar I-L Wash area provides more Mohave Desert-Apache Highland ecotonal environments, with Joshua-tree/creosotebush/desertscrub flats and basins transitioning into upper desert savanna of crucifixion thorn, engellmann's prickly-pear and turpentine bush. These woodlands provide distant views of the craggy granite peaks clad in Mogollon Chaparral and Great Basin Pinyon-Juniper Woodland ecosystems. The peaks shown in this photo provide outstanding rock-climbing opportunities, and the higher peaks behind provide the most exceptional solitude in the proposed LWC, being at the southern edge of the units wildest core; the upper Hibernia Canyon and Indian Head Peak areas. Many options for 3-7 day backpacking trips and even remote backcountry climbing adventures can be found here, and Bar I-L Wash provides a possible ascent route to the north face of Burch Peak, the most visually stunning summit in the central Hualapai Mountains (cover photo). The route visible in this photo has naturalized such that it is now an enjoyable hiking trail. The human impacts at the historic Bar I-L Ranch add to the allure of the "western ghost-town" mystique that is found throughout Arizona's desert mountains. The historical preservation value of this homestead is important and this is why we feel it is properly included in the proposed LWC.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 5: Happy Jack Wash Area

Showing:

- Photopoints 82-84 along the western boundary, Mountain View Road (BLM Route 7240)
- Waypoints 9-10 documenting primitive routes and washes
- Waypoints 7 & 8 at the excluded, inhabited private land
- Wabayuma Peak Wilderness (shaded green)
- the northeastern edge of the White Margined Penstemon ACEC (purple line)



Discussion of Human Impacts to Naturalness

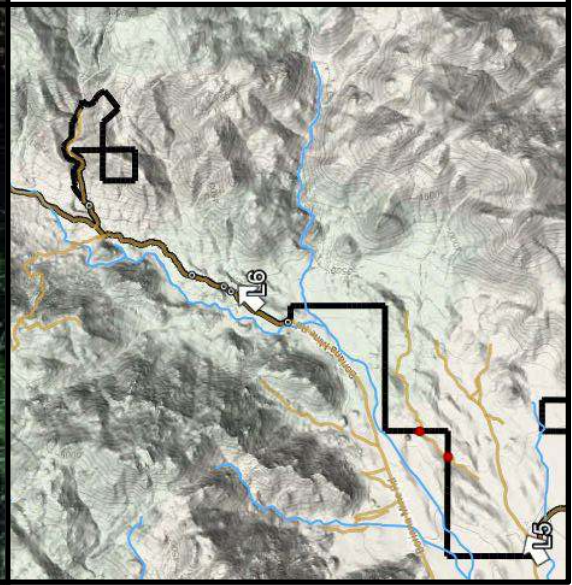
Happy Jack Wash Area: A few very minor routes occur here that stem from BLM Route 7332 which itself is an unmaintained way that is currently revegetating (see photopoint 83). These routes are classified as ‘reclaiming’ or ‘need to verify’ in the BLM Route Inventory, and they do not affect naturalness at all, especially since most of them are just natural washes. There are essentially no human impacts in this section of the unit. The private land enclosed at waypoints 7 and 8 is nestled at the base of a steep hillside that blocks the impacts there from the unit interior.



L5 - Indian Head Peak & Boriana Canyon

N 34° 51' 35.60"
W 113° 59' 05.07"

Photo Direction: 59° ENE



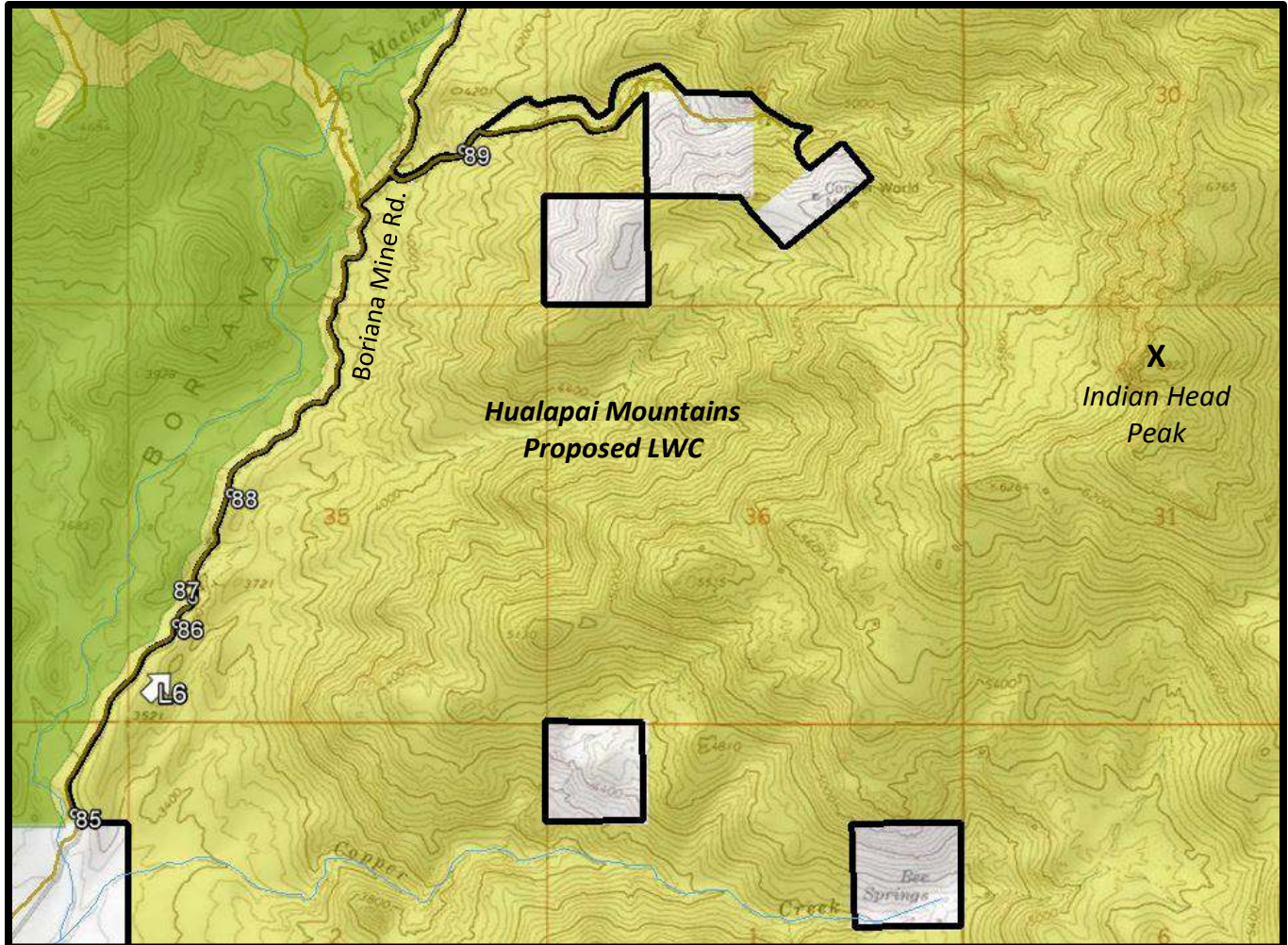
There is no denying the unequivocally huge scale of the Hualapai Mountains. There are hundreds of peaks to climb, canyons to traverse, isolated basins to explore, and pristine natural surroundings to make one feel truly alone and insignificant among the greatness of nature. The imprints of man's work are scattered widely and being reclaimed by nature, such as this vehicle way that is simply two sandy tracks through the footslopes of head-high creosotebush and Joshua-trees. The proposed LWC is not just a contiguous wild area, but it is situated in a region that is still lightly developed. Because of this, it takes only a few minutes of hiking off of the boundary roads to feel totally isolated and surrounded by nothing but mountains. This sensation is amplified tremendously when hiking or riding a horse deep into the units many canyons and mountains. Where vegetative screening is lacking, solitude is still ensured by the size of the area and its complicated terrain with huge vertical relief. Opportunities for long trips are abundant here, as one could rely on good water from September to April, and even in the summer during monsoon season. Wildlife encounters here are inspiring, as the area is populated by elk, mule deer, mountain lion, kit fox, javelina, and many of Arizona's species of greatest conservation need.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 6: Copper World Mine & Boriana Mine Road Prospects Areas

Showing:

- Photopoints 85-88 documenting the western unit boundary road (Boriana Mine Road) and roadside prospects
- Photopoint 89 and the excluded areas associated with the inactive privately owned Copper World Mine
- Two ~40 acre private inholdings which have no vehicle access or developments
- Wabayuma Peak Wilderness (shaded green)



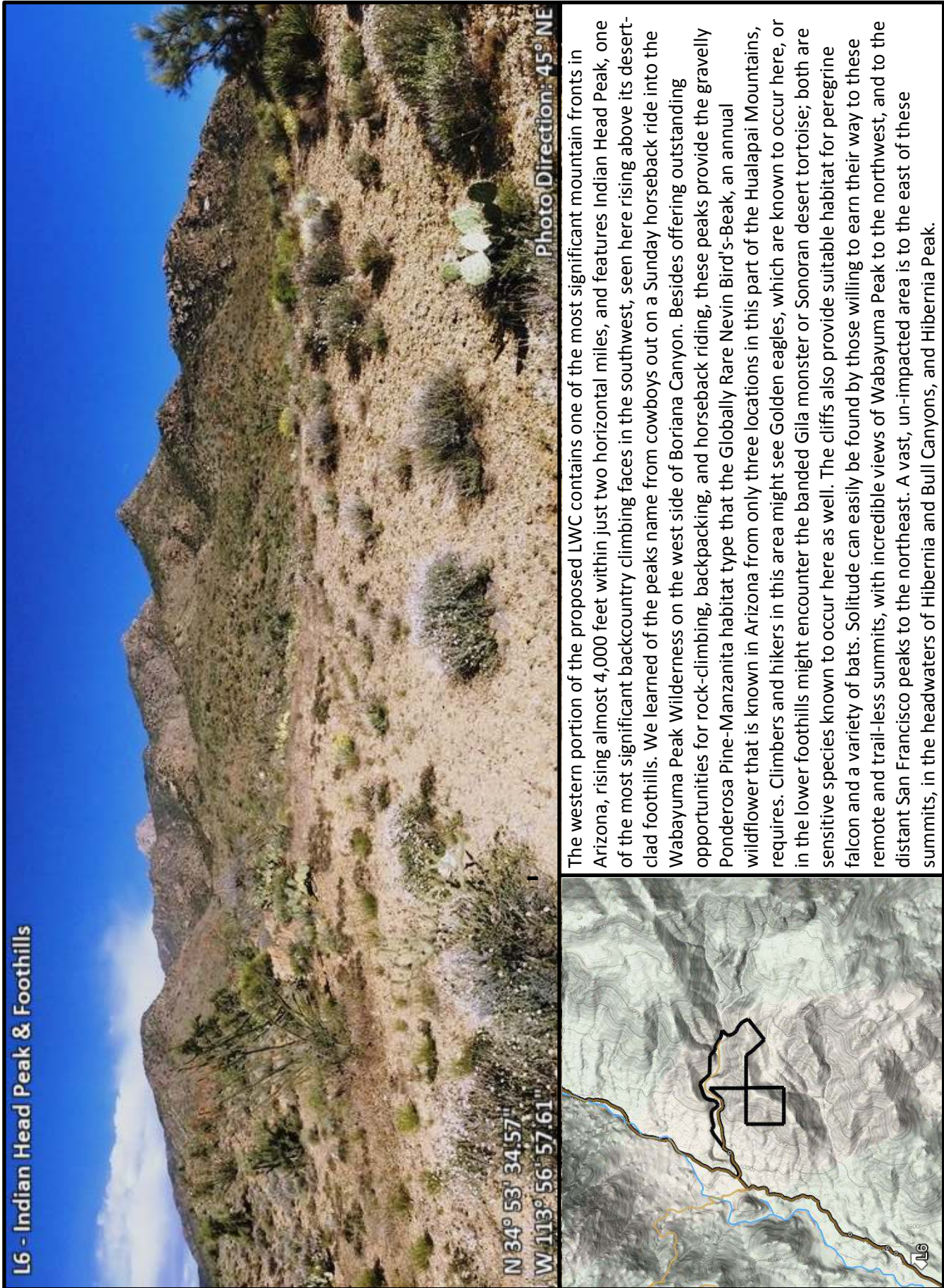
Discussion of Human Impacts to Naturalness

Copper World Mine (see photopoint 89): An area of approximately 130 acres was excluded from the proposed LWC, including the access to Copper World Mine via BLM Route 7101W, the portions of the wash that are impacted by mine spoils, three parcels of private land totaling approximately 90 acres, and BLM lands that are impacted by mine tailings, large structures, excavated areas, and other significant impacts. The area is tucked into a steep-walled basin and is completely enclosed by the basin, having almost no impact to the unit interior.

Boriana Mine Road Prospects (see photopoints 86-88): Three small prospects occur along the side of the western boundary. They are substantially revegetated and do not affect the sense of naturalness in the unit.

Private Inholdings: Two private parcels of land, each approximately 40 acres, are undeveloped and cannot be reached by a vehicle. These inholdings do not impact the naturalness of the proposed LWC.

Indian Head Peak is a 600+ foot gneissic cliff that provides absolutely outstanding opportunities for challenging backcountry rock-climbing, offering several existing multi-pitch traditional routes and unclimbed sections of vertical wall for future route establishment. This is one of the most demanding and rewarding climbing objectives in Arizona.



L6 - Indian Head Peak & Foothills

N 34° 53' 34.57"
W 113° 56' 57.61"

Photo Direction: 45° NE

The western portion of the proposed LWC contains one of the most significant mountain fronts in Arizona, rising almost 4,000 feet within just two horizontal miles, and features Indian Head Peak, one of the most significant backcountry climbing faces in the southwest, seen here rising above its desert-clad foothills. We learned of the peaks name from cowboys out on a Sunday horseback ride into the Wabayuma Peak Wilderness on the west side of Boriana Canyon. Besides offering outstanding opportunities for rock-climbing, backpacking, and horseback riding, these peaks provide the gravelly Ponderosa Pine-Manzanita habitat type that the Globally Rare Nevin Bird's-Beak, an annual wildflower that is known in Arizona from only three locations in this part of the Hualapai Mountains, requires. Climbers and hikers in this area might see Golden eagles, which are known to occur here, or in the lower foothills might encounter the banded Gila monster or Sonoran desert tortoise; both are sensitive species known to occur here as well. The cliffs also provide suitable habitat for peregrine falcon and a variety of bats. Solitude can easily be found by those willing to earn their way to these remote and trail-less summits, with incredible views of Wabayuma Peak to the northwest, and to the distant San Francisco peaks to the northeast. A vast, un-impacted area is to the east of these summits, in the headwaters of Hibernia and Bull Canyons, and Hibernia Peak.

ADVENTURE JOURNAL: Climbing the Hualapai Wall (Indian Head Peak)



Years ago I heard climbing adventure tales of a place near Kingman called the Hualapai Wall. I heard that it was big, wild, and relatively unexplored. One evening, driving east from California on I-40, I spotted the feature way up in the heights of the southern Hualapai Mountains as it caught the golden light of the sunset, and I knew that it was the mysterious wall I had heard of. In 2008 I managed to make a trip out there with two friends and just getting to the place where we parked our truck was a rugged adventure. We spent three days out there. We had very little and vague information about the place, so when we hiked up to explore the wall for the first time we might as well have been the first people to attempt a climb. I was so impressed with the wildness and beauty of the place that I created a web page on a global rock-climbing forum (www.mountainproject.com). My page features information about some of the high quality adventure climbing that we did there, and expresses the potential for further exploration. On that page I described the feature (which local cowboys refer to as Indian Head) as “an extremely remote, 600+ foot tall gneissic, ‘desert alpine’ formation in a rugged, dramatic setting.” The place has incredible exposure as it sits high above the floor of the Colorado River Basin.

During that first trip out there my friends and I, using binoculars, spotted a natural crack system that goes right up the center of the wall to the summit, and we climbed it. To this day I still consider it to be one of the best adventure climbs that I have explored in Arizona, and the three of us agreed that the middle segment of the route contained some of the most aesthetic, fun, beautiful moderate traditional climbing that we have experienced anywhere. Just the color scheme of the rock in and of itself was breathtakingly beautiful. One can never be sure if those feelings are warranted as sometimes the thrill of exploration colors the true quality of the climbing. However, at least one more team has climbed the route I described, and confirmed in the internet forum I mentioned above, that it is an exceptional route. A year later we made another trip out there and discovered several more beautiful adventure routes. Aside from the climbing, the views from the summit of the mountain are outstanding, and basic, non-technical exploration of “Indian Head” and its accompanying spires, caves, and pillars is extremely rewarding. This feature of the proposed LWC area, in and of itself, is notable and worthy of enhanced conservation, and provides a truly outstanding opportunity for backcountry adventure climbing.

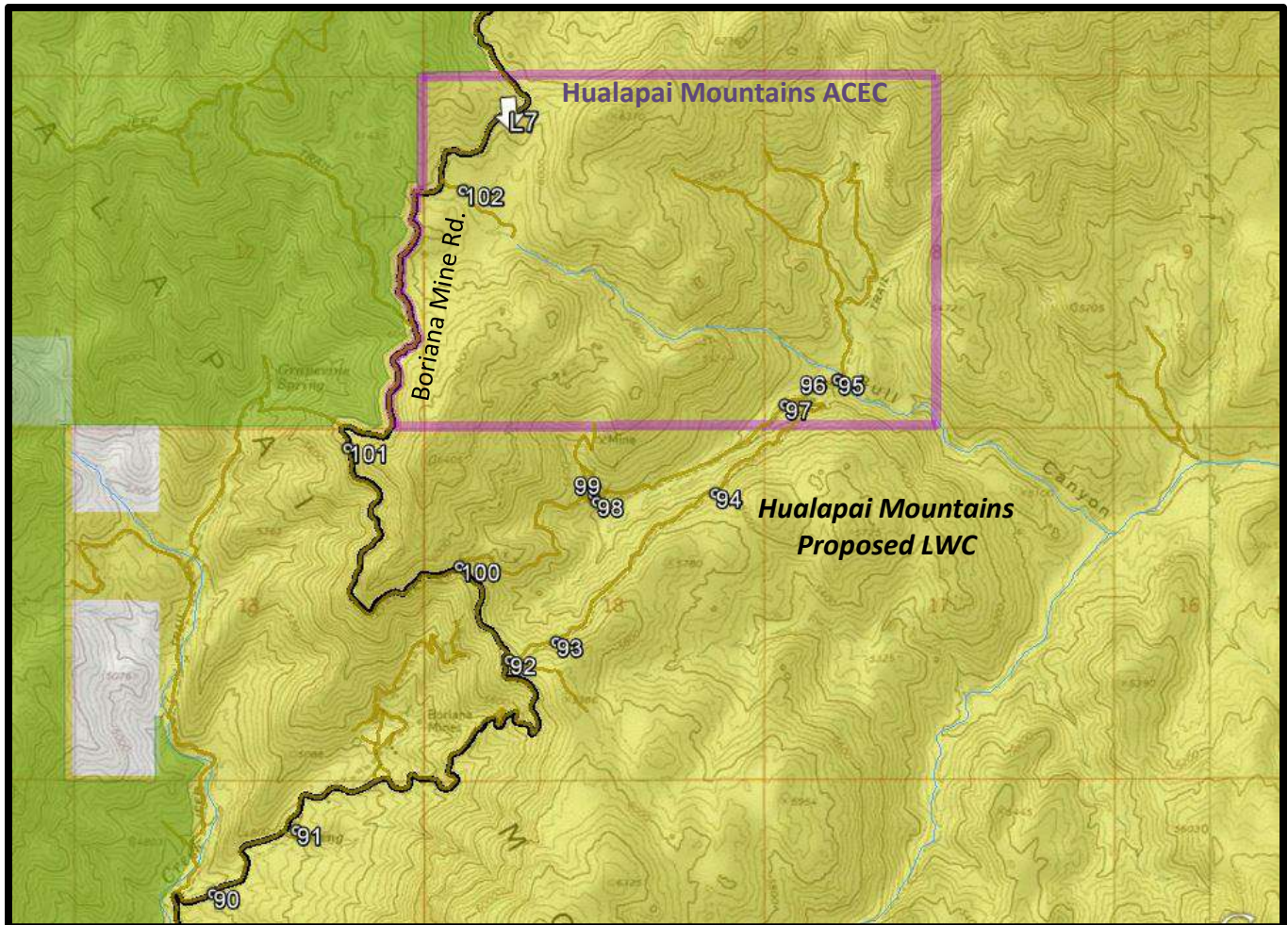
Jed Gantert is an outdoor educator & backcountry guide based in Prescott, AZ.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 7: Boriana Mine/Bull Canyon Group Area

Showing:

- Photopoints 90-91, and 101-102 along the western unit boundary (Boriana Mine Road)
- Photopoints 92-100 documenting the primitive routes associated with the abandoned Bull Canyon Group of mines
- Wabayuma Peak Wilderness (shaded green)
- a section of the Hualapai Mountains ACEC (purple rectangle).



Discussion of Human Impacts to Naturalness

Bull Canyon Group of Mines (see photopoints 92-100):

Minerals in this area were discovered in 1928 and mining operations commenced from 1941 through 1956. Routes are heavily grown-in and the loop on BLM Route 7220 is passable only by ATV's. A small decaying structure is hidden in a dense grove of trees by photopoint 96; it is only visible from the immediate surroundings. A very old shack is located at photopoint 99. This structure features very beautiful rusted roof and wall panels and contributes to the sense of history in the area, and is proof of nature's powerful restorative capacity. The presence of unused, historical structures is not inconsistent with the presence of wilderness characteristics, as a number of similar structures exist at wilderness areas throughout the southwest. The rest of this area is completely pristine. Photopoints 95 & 96 convincingly show how grown in these routes are.

L7 - Pine Forests in Upper Bull Canyon Area

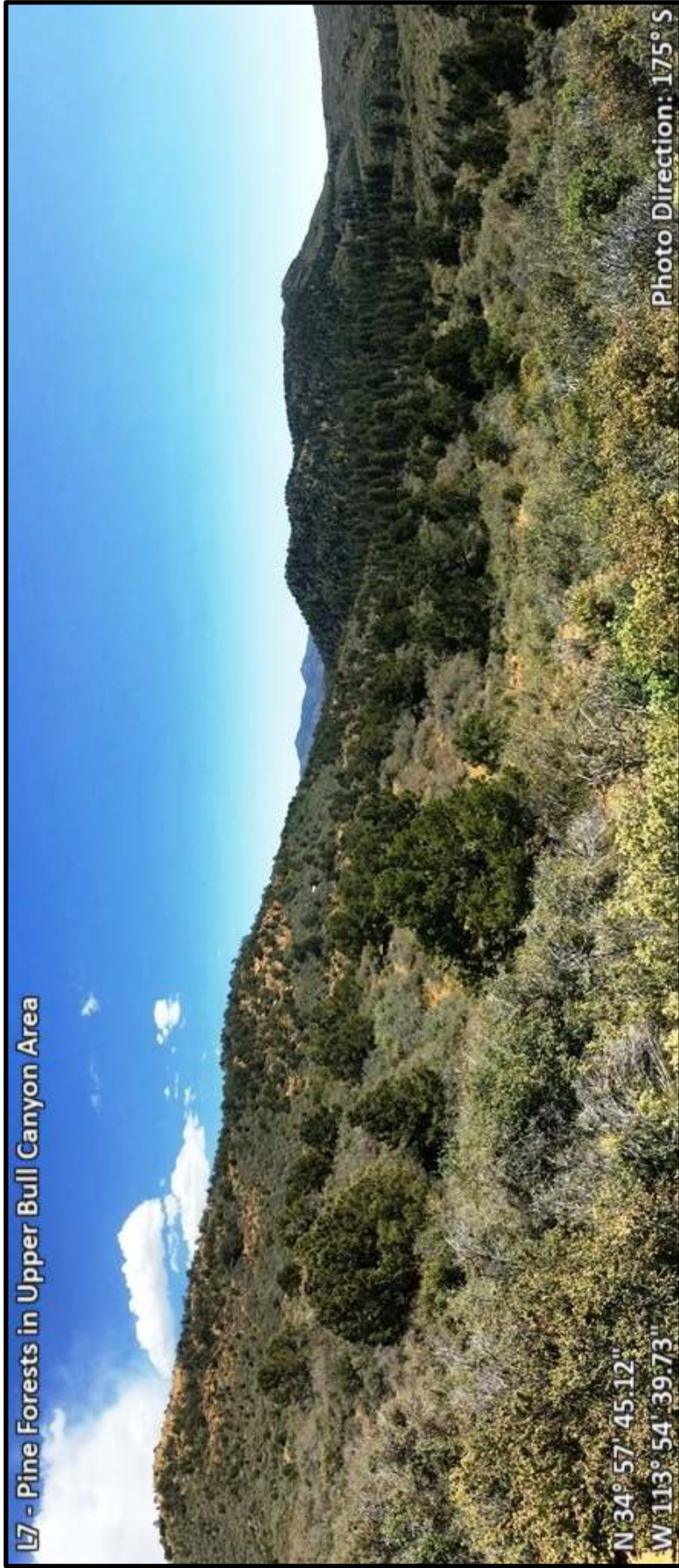



Photo Direction: 175° S

The Hualapai Mountains are a true “sky-island” range, rising from harsh deserts to high peaks draped with pine forests. This photo shows three of the isolated stands of old-growth ponderosa pine: the closest hill shows the magnificent stand found at the top of Bull Canyon, and reached by BLM Route 7101R (at photopoint 102). This stand is technically protected by an Area of Critical Environmental Concern because of the occurrence of the Hualapai Mexican Vole, a small mammal that relies on the grasses and sedges that grow alongside the creek in this comparatively cool, moist location. The distant peaks seen beyond the saddle are the north faces of Pine and Burch Peaks, which also support Pine-Oak Forests and the headwaters to multiple riparian woodlands that are incredibly important for the survival of many of Arizona’s species of greatest conservation need. Many of the forests in the Hualapai Mountains appear to have never been commercially logged, which is extremely rare in Arizona. Many of these secluded pine stands are a day’s walk from the nearest vehicle route, making them outstanding destinations for backpackers looking to witness the primeval forests of the pre-settlement landscape, affected only by past grazing and fire suppression.

**N 34° 57' 45.12"
W 113° 54' 39.73"**

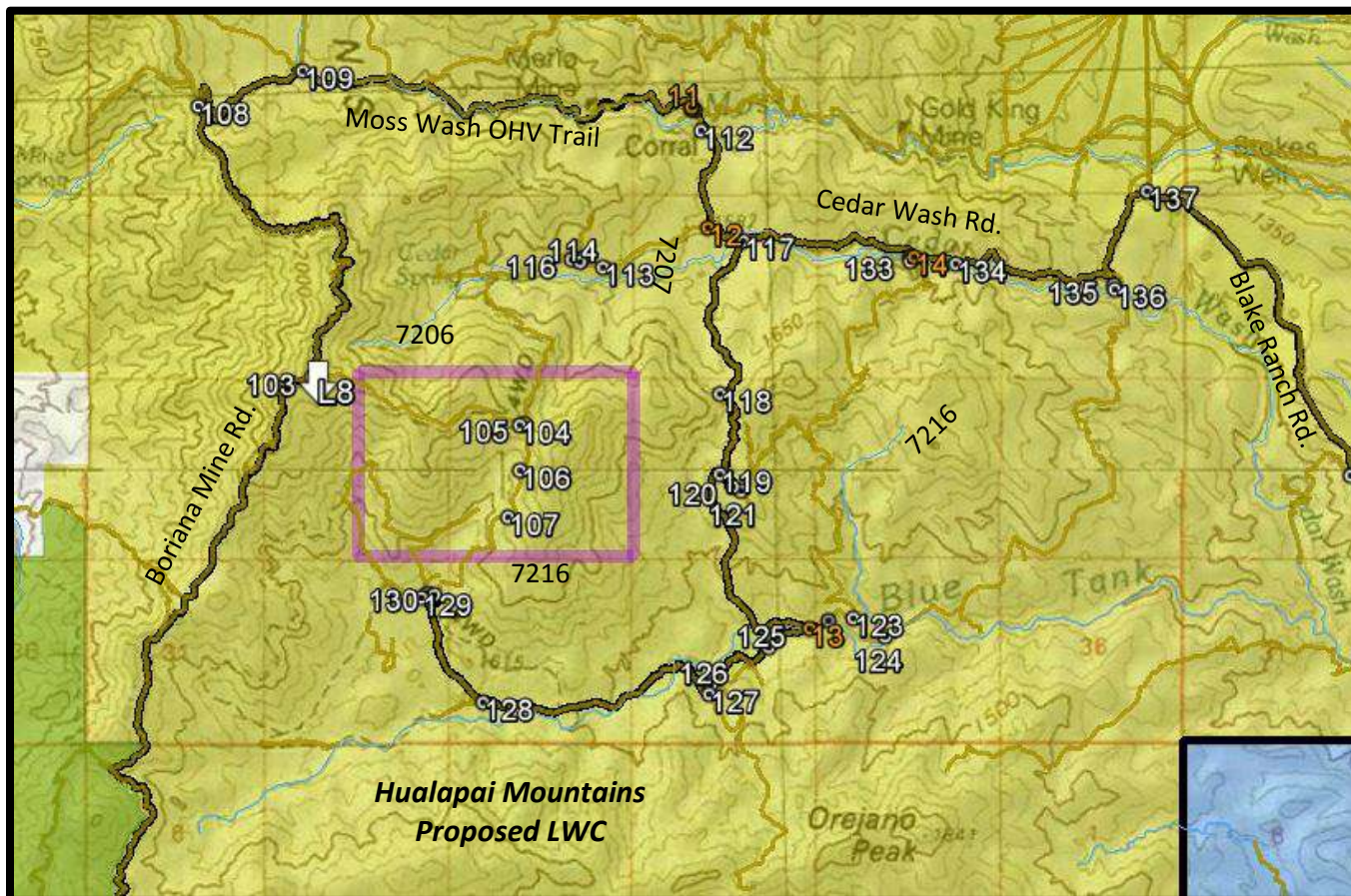


Detail Maps and Discussion of Wilderness Characteristics

Detail Map 8: Cedar Wash/Orejano Peak Area

Showing:

- Photopoints 108-139 and the northern portion of the proposed LWC
- Wabayuma Peak Wilderness (shaded green)
- a section of the Hualapai Mountains ACEC (purple rectangle)
- the cherrystemmed route to a recently improved earthen-bermed water tank (BLM Routes 7207 & 7216).



Discussion of Human Impacts to Naturalness

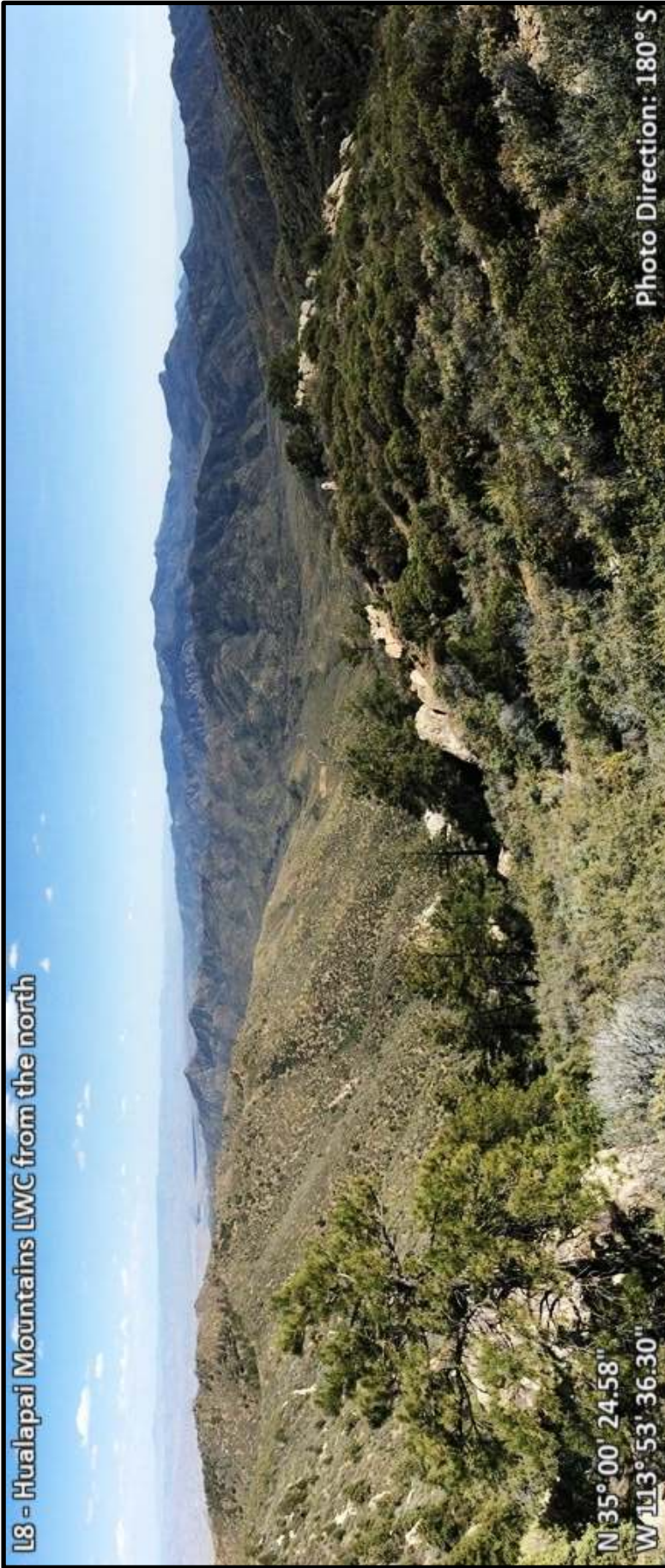
BLM Route 7206 (see photopoints 103 & 104)

This route follows a ridgeline and is not visible from elsewhere in the unit. It connects to BLM Route 7216, which from a distance looks like a significant road, but as photopoints 106 & 107 clearly show, this route is well vegetated and has not been improved or maintained for decades, showing that nature is reclaiming this route. From the junction of these routes, 7206 drops to the north and, as shown in photopoint 105, is a narrow, unmaintained route that is no different than a wide trail. It connects to a cluster of brushy, narrow routes in upper Cedar Wash, described in detail in Section 4.

Blue Tank Wash Area Routes: Several routes exist in the eastern side of this area which are mostly faint paths with no impact on naturalness (see photopoints 120-124 and 133). Route 7216 is impassable at both sides (at points 126 & 135) and sees almost no vehicle use, causing negligible impact to naturalness.

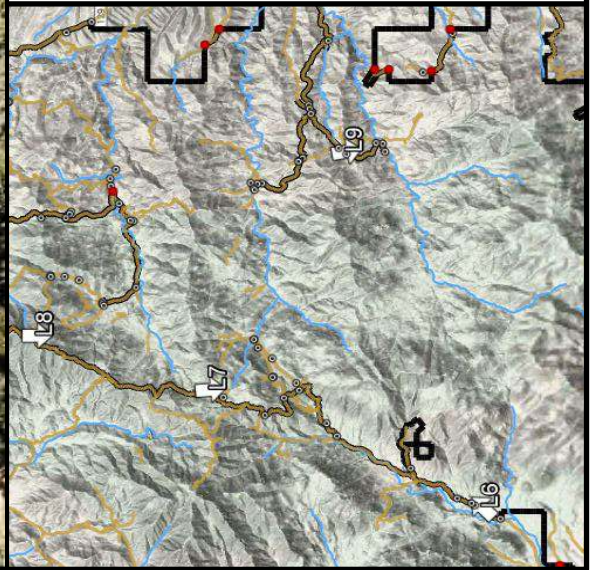
Blue Tank Cherrystem: Routes 7207 & 7216 have been recently graded as part of maintenance of Blue Tank (at photopoint 130) and another tank at photopoint 119. These earthen-bermed tanks, and one well at photopoint 122, have been excluded from the unit. The disturbed soils will quickly regenerate with grasses and wildflowers. Abandoned mining and ranching ways along this cherrystem are all fading into obsolescence (see photopoints 118, 126, 127, 129, and 131).

L8 - Hualapai Mountains LWC from the north



N 35° 00' 24.58"
W 113° 53' 36.30"

Photo Direction: 180° S



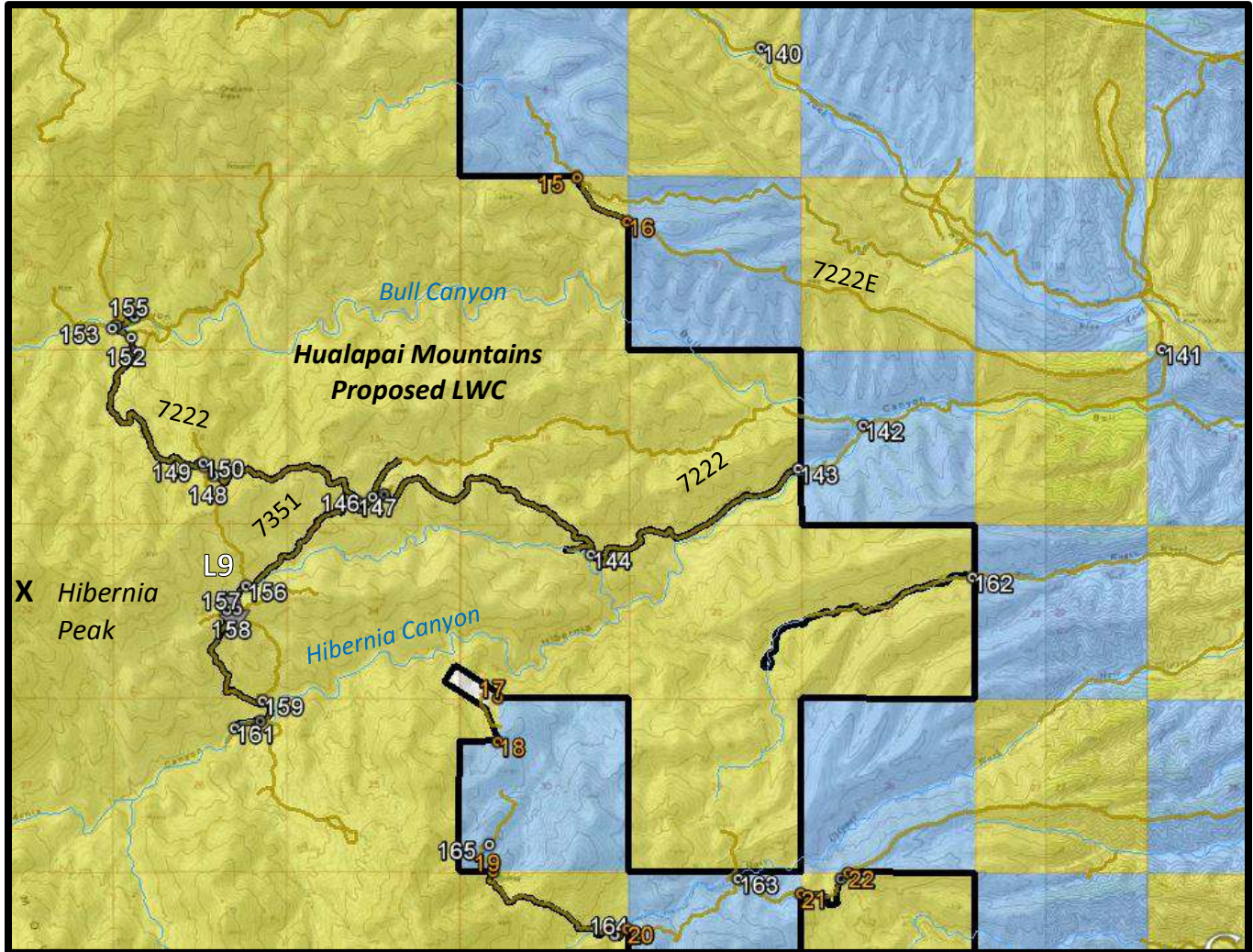
This photo shows almost the entire proposed LWC, wherein several cherrystemmed routes to wells, corrals, or tanks do occur, but the contiguous landscape is so big that these excluded impacts can easily be avoided. The upland heart of this scene is the wildest core of the unit, including Hibernia, Pine, and Indian Peaks. This photo also shows some human impacts: the ridge above the pine tree on the left side of the photo is traversed by BLM Route 7206, which is barely noticeable from this vantage. In the center of the photo is the recently maintained earth-bermed tank in upper Blue Tank Wash on BLM Route 7216. The excluded site is only visible because it was just reworked within the last 18 months; as it revegetates it will blend into the scene and become barely noticeable. Besides route 7206, not a single vehicle way is visible anywhere in the scene, even though upper Blue Tank Wash is actually quite bisected by abandoned routes, many of which were not catalogued by the BLM Route Inventory. A full mapping of these routes would help inform a recreational strategy for providing enjoyable horse- and backpacking trails, as many of these naturalized routes are now excellent paths through the, at-times, dense chaparral vegetation. The re-purposing of reclaimed vehicle ways as primitive-use trails has been successfully implemented in the Kachina Peaks, Superstition, Mazatzal, Kendrick Peak, Mount Tipton, Castle Creek, and other wilderness areas in Arizona.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 9: Bull & Hibernia Canyons Area

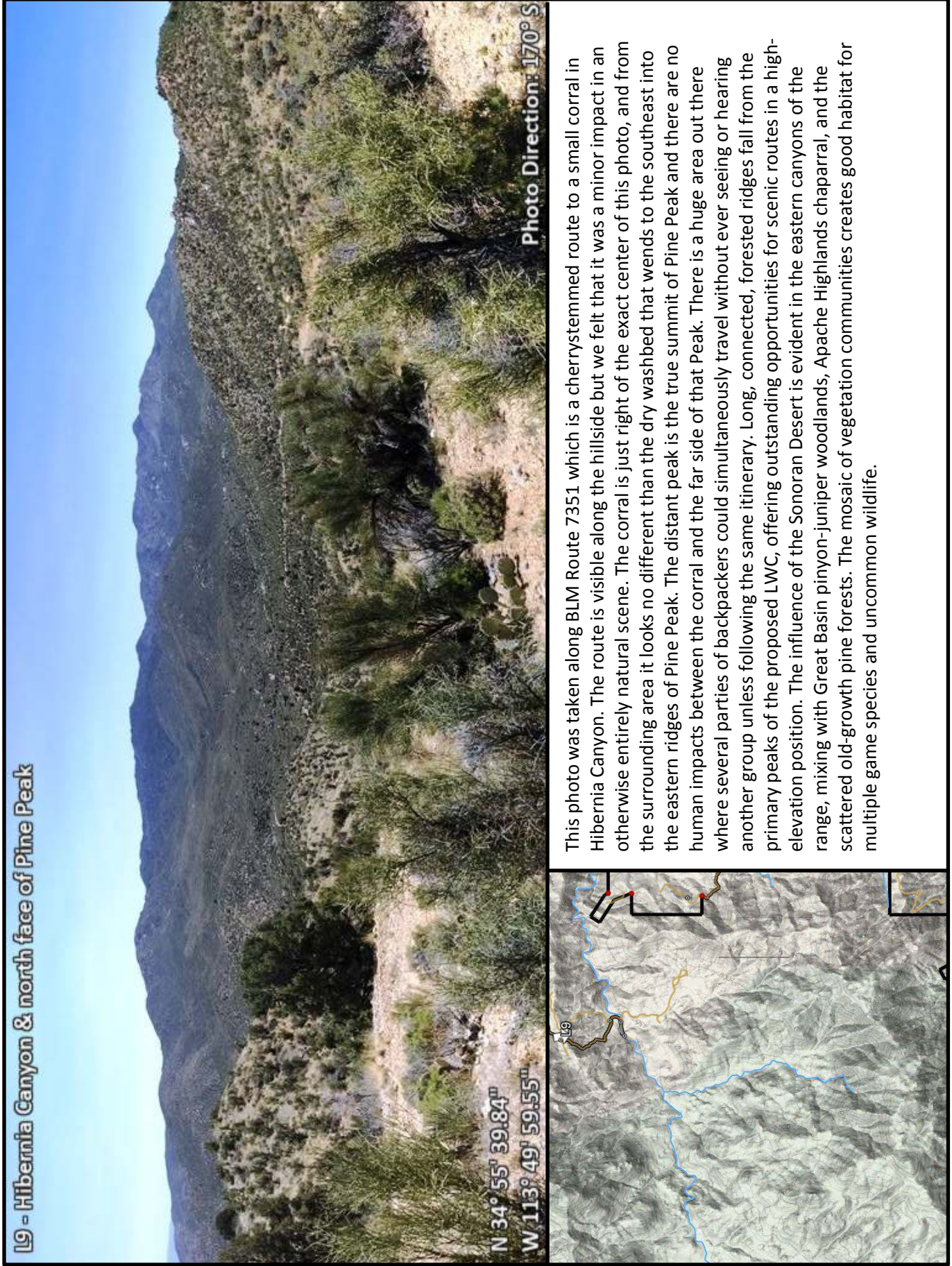
Showing:

- The eastern boundary of the proposed LWC bordering checkerboarded BLM and State Trust Land
- Photopoints 140&142 documenting that these routes on the BLM Route inventory do not exist
- Photopoint 141 and Waypoints 15 & 16 documenting a wilderness inventory road (BLM Route 7222E)
- Photopoints 142-161 documenting a cherrystemmed network of ranching roads and associated primitive routes
- Photopoint 162 documenting a cherrystemmed route to a well and tank
- Photopoints 163-166 & Waypoints 17-22 documenting wilderness inventory roads and excluded State Trust & private lands



Discussion of Human Impacts to Naturalness

Cane Springs Ranch Cherrystems/Boundaries: Maintained roads lead to well-kept corrals and wells at the end of Routes 7222, 7351, 7222H, 7222E, and unnumbered routes at points 144, 162, and 166. The Cane Springs Ranch manages these sites and keeps them in tidy shape with no trash or excessive impacts. Recreational vehicle use in this area is extremely low, perhaps because access is restricted at the Cane Springs Ranch headquarters. Every spur route shown on the map is completely unused and reclaiming to natural vegetation. There are absolutely no human impacts outside of these compact corrals. The area southwest of the corral at point 160 is the heart of the proposed LWC unit, encompassing more than 50,000 acres with no discernable impacts of human activity. This is profoundly wild country, offering phenomenal backpacking opportunities for linking meandering canyons and forested mountaintops in an area with dramatic views of nothing but mountains in every direction.



19 - Hibernia Canyon & north face of Pine Peak

N 34° 55' 39.84"
W 113° 49' 59.55"

Photo Direction: 170° S

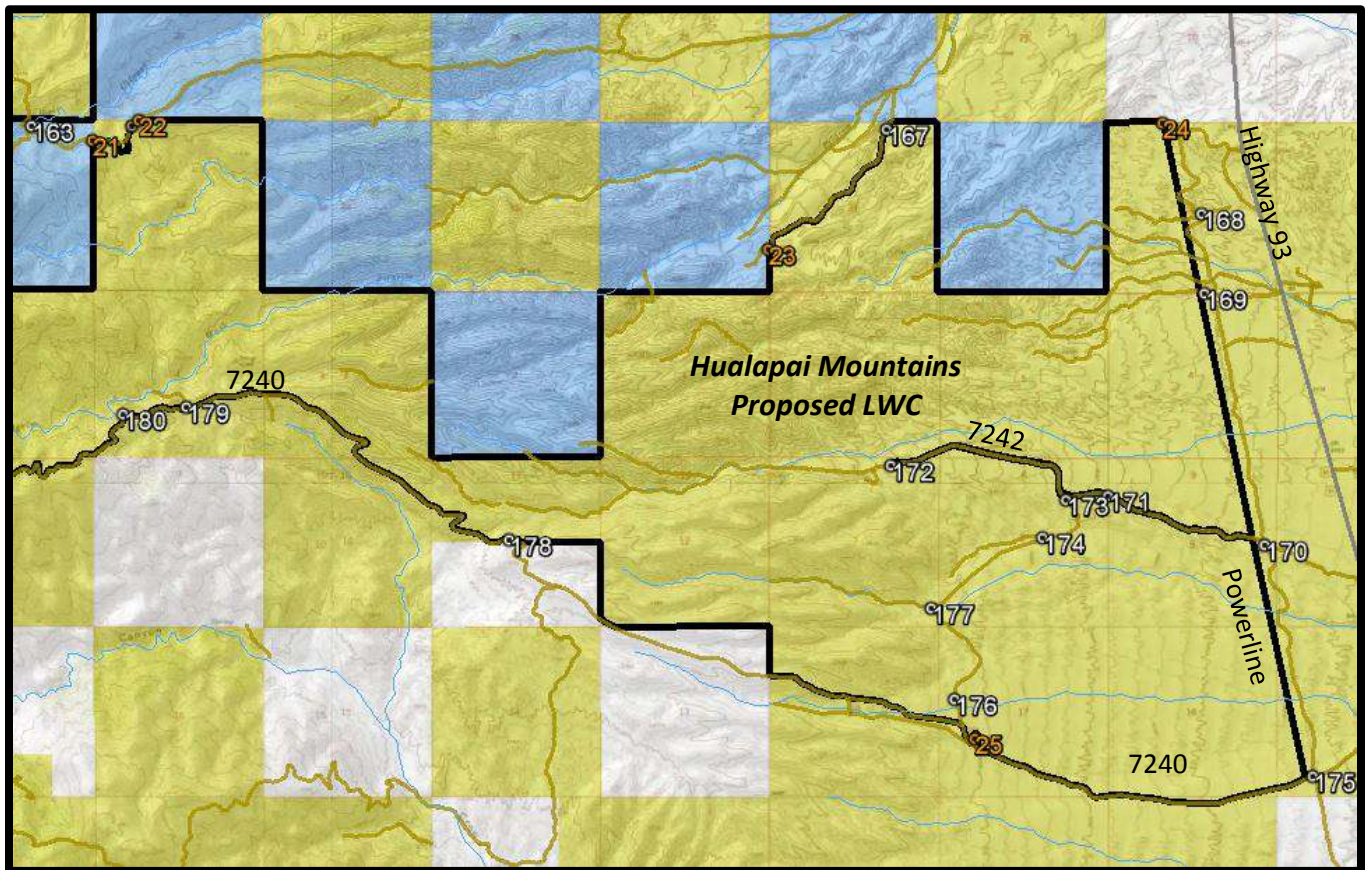
This photo was taken along BLM Route 7351 which is a cherrystemmed route to a small corral in Hibernia Canyon. The route is visible along the hillside but we felt that it was a minor impact in an otherwise entirely natural scene. The corral is just right of the exact center of this photo, and from the surrounding area it looks no different than the dry washed that winds to the southeast into the eastern ridges of Pine Peak. The distant peak is the true summit of Pine Peak and there are no human impacts between the corral and the far side of that Peak. There is a huge area out there where several parties of backpackers could simultaneously travel without ever seeing or hearing another group unless following the same itinerary. Long, connected, forested ridges fall from the primary peaks of the proposed LWC, offering outstanding opportunities for scenic routes in a high-elevation position. The influence of the Sonoran Desert is evident in the eastern canyons of the range, mixing with Great Basin pinyon-juniper woodlands, Apache Highlands chaparral, and the scattered old-growth pine forests. The mosaic of vegetation communities creates good habitat for multiple game species and uncommon wildlife.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 10: Pilgrim Wash bajada

Showing:

- Photopoints 166&167, and Waypoints 21-23 documenting wilderness inventory roads forming the unit boundary
- Photopoints 175&178 documenting the unit boundary (BLM Route 7240), and 179-180 showing primitive spur routes
- Photopoints 168-170 documenting the unit boundary (a powerline) and non-existent primitive routes
- Photopoints 171-176 documenting a cherrystemmed route to a well, and primitive spur routes
- Waypoint 25 documenting an excluded water tank
- Checkerboarded State Trust and private lands surrounding the unit



Discussion of Human Impacts to Naturalness

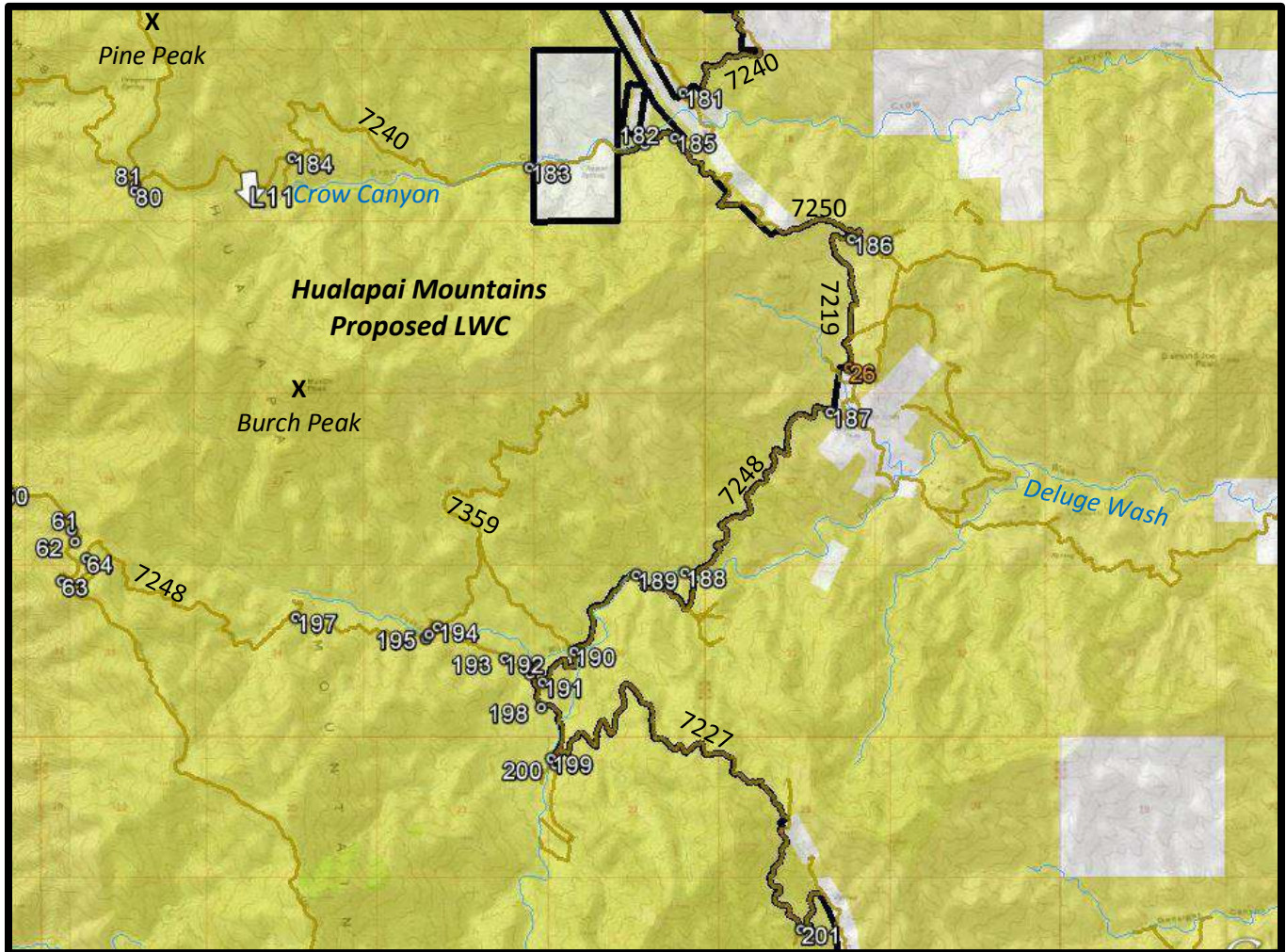
Ranching Infrastructure: This area is included in the proposed LWC because it is contiguous with the heart of the unit. As with most of the unit, the only human impacts are occasional ranch waters and corrals, all of which are excluded from the unit (at waypoints 23 & 25, and photopoints 166, 172 & 173). The cherrystem from point 170 was provided to two recently drilled wells, although there are no tanks, solar panels, or any other systems on site. Other than these minor impacts, there are no other human-influenced sites within this lobe of the unit.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 11: Burch Peak, Crow & Deluge Canyons Area

Showing:

- Photopoints 61-64 along BLM Route 7248 at pass between Burch & Granite Peaks (also shown on Detail Map 4)
- Photopoints 193-197 documenting the eastern side of BLM Route 7248 and some primitive spur routes
- A Mohave County Weather Alert radio tower at aforementioned saddle (purple dot)
- Excluded private lands (Chappo Spring and Hollingsworth Mine) around Photopoints 181-185
- Photopoints 80, 81, 183, & 184 documenting BLM Route 7240 crossing between Burch & Pine Peaks is primitive route
- Photopoints 186, 187, 191, 192, & 198 documenting the eastern boundary and a short cherrystem to ranch infrastructure
- Photopoints 188 & 200 at AZGFD water catchments built in 1966 and now appearing defunct



Discussion of Human Impacts to Naturalness

Private lands: All private lands in this section are excluded from the unit by following wilderness inventory roads and property lines; none are inhabited, and mining or ranching impacts on them are minimal.

Routes 7240 & 7248: These routes are “through-ways” to the western side of the unit, but are exceptionally grown in (photopoints 64, 183 & 196), eroded (193), and all of the spurs off of them are even more revegetated (points 63, 81, 184, 190, 194, 197). Use on these routes is very rare, and they are impassable by 4WD truck, only an ATV can use them. Burch and Pine Peaks offer outstanding opportunities for peakbagging of some of Arizona’s most remote and unheard-of summits (cover photo is of Burch Peak). This is a remarkably wild and pristine section of the range.

Wildlife Water Catchments: Deteriorated steel apron water catchments, built in 1966, at points 187 and 200 are barely discernable and being overgrown with brush.



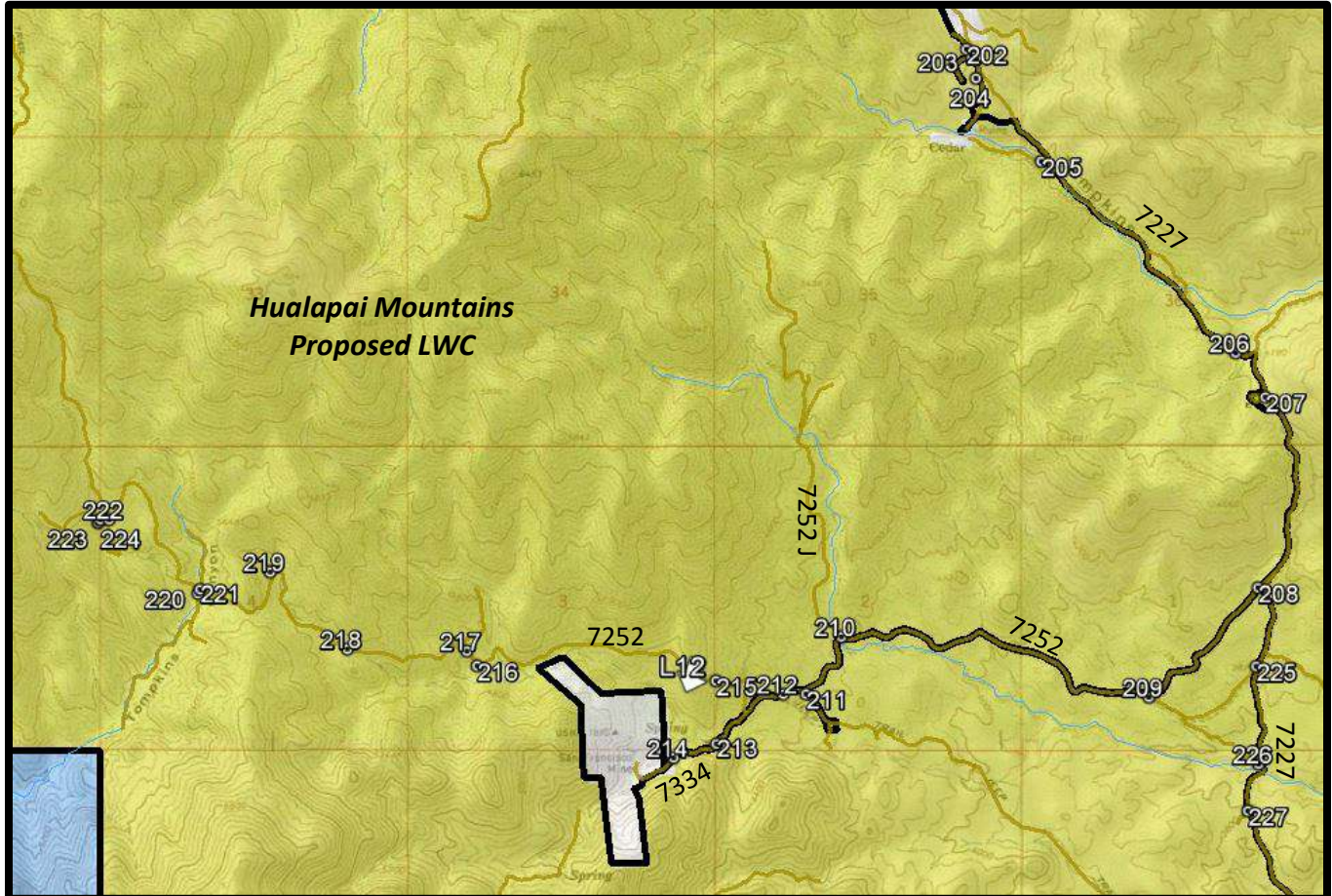
This photo was taken along BLM Route 7240, which is a rough, narrow route that crosses the proposed LWC from Chappo Spring on the east to Bar I-L Wash on the west. The route pre-dates BLM's acquisition of this land and no is no longer used to access any active ranching or mining activities. The route is barely visible crossing the hillside on the right as it traverses above Crow Canyon. This visual impact is no different than looking at a hiking trail in one of Arizona's many shrub-cloaked wilderness areas. Woodlands of mature Gambel's oak grow along Crow Canyon, and mix with ponderosa pine further up, and to the left, on the north face of Burch Peak. Not visible from this vantage, there is a drainage that starts high up on Burch Peak and joins Crow Canyon that features beautiful groves of Gambel's oak growing among lush, grassy meadows, leading up through huge ponderosa pine to the summit of Burch Peak, which must be one of the truly magical spots in the Hualapai Mountains. This route presents yet another incredible opportunity to find solitude while experiencing an incredible hike through truly wild, remote country, especially if done in the autumn when colors in this area provide an outstanding opportunity to witness the change of seasons as the oak-chaparral vegetation lights up in reds and yellows.

Detail Maps and Discussion of Wilderness Characteristics

Detail Map 12: San Francisco Mine/Cedar Millsite Area

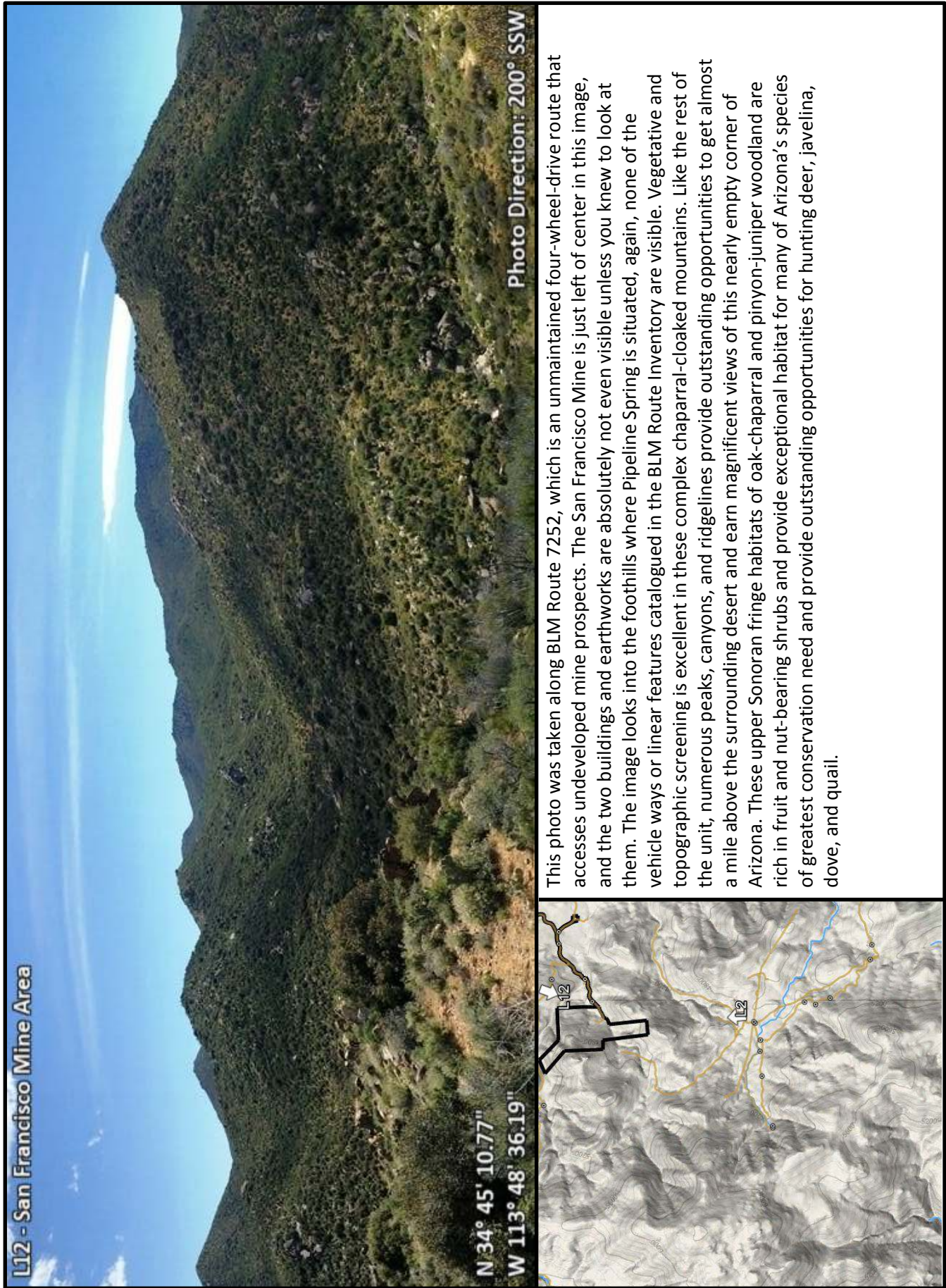
Showing:

- Photopoints 203-207 along the eastern unit boundary (Cedar Mine Road) near the ruins of the Cedar Millsite (excluded)
- Photopoints 208-215 along the cherrystem that excludes BLM Route 7252, a corral, & the San Francisco Mine
- Photopoints 216-224 along the unmaintained portion of BLM Route 7252 and the abandoned mine prospects beside it
- Photopoints 225-227 documenting primitive routes along the eastern boundary road (BLM Route 7227)



Discussion of Human Impacts to Naturalness

Mining: The San Francisco Mine is cherrystemmed to exclude it from the unit. Two small structures and some tailings are a destination for mining history enthusiasts, and do not markedly detract from the grandeur of the surrounding mountainsides. The Cedar Mines are excluded as well, on the other side of boundary road 7227. These active operations are well concealed as they are tucked into Tompkins Canyon so they do not detract from the wilderness experience within the unit. Points past photopoint 215 document abandoned vehicle ways to undeveloped mineral prospects. This area rises to the rugged skylines of Granite Peak and an unnamed Peak on undeveloped State Trust Land, providing outstanding opportunities for challenging backcountry hiking and mountain climbing.



This photo was taken along BLM Route 7252, which is an unmaintained four-wheel-drive route that accesses undeveloped mine prospects. The San Francisco Mine is just left of center in this image, and the two buildings and earthworks are absolutely not even visible unless you knew to look at them. The image looks into the foothills where Pipeline Spring is situated, again, none of the vehicle ways or linear features catalogued in the BLM Route Inventory are visible. Vegetative and topographic screening is excellent in these complex chaparral-cloaked mountains. Like the rest of the unit, numerous peaks, canyons, and ridgelines provide outstanding opportunities to get almost a mile above the surrounding desert and earn magnificent views of this nearly empty corner of Arizona. These upper Sonoran fringe habitats of oak-chaparral and pinyon-juniper woodland are rich in fruit and nut-bearing shrubs and provide exceptional habitat for many of Arizona's species of greatest conservation need and provide outstanding opportunities for hunting deer, javelina, dove, and quail.

SECTION 2: Summary of Wilderness Characteristics

The proposed LWC meets the minimum size criteria for roadless lands

The proposed LWC encompasses 128,943 acres. All non-BLM lands within the unit that have maintained human developments or substantial impacts to naturalness have been excluded from the unit and provided with cherrystemmed access routes. The following non-BLM lands are within the unit and are not accessed by any vehicle routes (acreage has been deducted from unit total:

- 1) two private 40 acre parcels near the Copper World Mine are completely undeveloped
- 2) a 40 acre parcel of State Trust land in Cow Canyon which has a dilapidated well & water tank
- 3) two 640-acre undeveloped parcels of State Trust Land in the southwestern corner of the unit

The proposed LWC is affected primarily by the forces of nature

The previous section provided a detailed index of human impacts documented in and around the proposed LWC. The incredible size of this unit naturally leads to there being many human impacts. The point to remember is that the impacts are predominantly antique, consisting of abandoned ranching and mining sites. The land surrounding these minute, localized impacts is entirely dominated by the forces of nature, including wildfires, windstorms, flash floods, bark beetle outbreaks, heavy snows and ice, windblown sand, and more. The power of nature is evident throughout the unit, where the works of man are continuously battered and decomposed by the earth's forces of erosion and decay. When considering the numerous impacts we have documented, it's important to revisit BLM Manual 6310:

“Examples of human-made features that may be considered substantially unnoticeable in certain cases are: trails, trail signs, bridges, fire breaks, pit toilets, fisheries enhancement facilities, fire rings, historic properties, archaeological resources, hitching posts, snow gauges, water quantity and quality measuring devices, research monitoring markers and devices, minor radio repeater sites, air quality monitoring devices, fencing, spring developments, barely visible linear disturbances, and stock ponds.” (Policy 6310, page 6)

Primitive Routes

This is a large proposed LWC unit and there are numerous primitive routes (ways) that enter its boundaries. However, these routes, described in great detail in Section 3, are predominantly lightly used, single lane two-tracks that do not detract from the natural magnificence of the Hualapai Mountains Proposed LWC. Indeed, a few roads are substantial bench-cuts, but these too have been determined to be primitive ways because of their deteriorated condition and apparent lack of purpose or regular use. It is our determination that the existence of these routes does not substantially affect the wilderness user experience, and the rehabilitative potential of the land to reclaim these routes is proven at dozens of such abandoned routes that are no longer passable. A conservation-minded approach to managing the Hualapai Mountains should recognize the damage caused by off-road recreation, and approach the future management of these routes as part of a broader strategy of promoting primitive uses of these corridors through the chaparral and pine-oak woodlands. Regarding the cherrystemmed routes to ranching infrastructure, BLM Manual 6310 (page 9) states that *“lands located between individual human impacts should not be automatically excluded from the area”* so it is important to recognize that contiguous wilderness values still occur around and between cherrystems.

Ranch Infrastructure

The most significant impacts in the proposed LWC are corrals and wells, however, ranch improvements have long been considered to be compatible with wilderness-style management. The facilities on the Yellow Pine and Cane Springs Ranches, in particular, are benign, clean, minimally impacted sites.

Wildlife Water Catchments

Arizona Game & Fish Department has installed 2 water catchments in the area, described on Detail Map 11. Currently, AZGFD maintains catchments in several existing wilderness areas in the Kingman Resource Area. It is our determination that, because such installments can be accommodated within LWCs, these in particular do not substantially affect the naturalness of the unit, especially considering that it appears that they have been abandoned, and they are very close to the boundary roads.

Inactive Mining

No current mining activity was observed in the unit. The only active mining observed was a relatively small operation at the Cedar Mines, which is outside of the unit. Many abandoned mines and prospects were documented and described on the Detail Maps. In general, most excavations are revegetating with native plants and do not create a substantial visual impact to the casual visitor. Old mines associated with private lands were excluded. Claim stakes occur sporadically throughout the unit at claim corners, but no active mineral exploration appears to be currently underway. The presence of mineral claims does not affect naturalness, as “undeveloped possessory interests (e.g., mineral leases) are not treated as impacts to wilderness characteristics because these rights may never be developed” (BLM Manual 6310, page 10).

Burch Peak Weather Radio

Mohave County maintains a system of 172 fully automated weather monitoring stations. Called the “Mohave County ALERT (Automated Local Evaluation in Real Time) Flood Warning System”, these sites are distributed throughout the county across land ownership. Currently, one such site has been installed within the unit, along BLM Route 7248 at the saddle between Burch and Granite Peaks. It is our determination that this installation has no effect on naturalness to the average visitor unless he or she were right at the site. Furthermore, BLM Manual 6310 states that “*water quantity and quality measuring devices, research monitoring markers and devices, minor radio repeater sites, air quality monitoring devices*” are acceptable impacts, which would include this single weather radio.

Summary of Human Impacts

Collectively, the impacts documented above do not substantially detract from the naturalness of the proposed LWC as they are substantially unnoticeable when viewed against the vast scale of the unit in its entirety. The unit is affected primarily by the forces of nature, and the impacts documented are considered to be relatively minor. BLM Manual 6310 cautions the BLM against using an overly strict approach to assessing naturalness, and it states that outside impacts are not to be considered. By excluding the most established human impacts, we have identified an area that certainly looks natural to the average visitor who is not familiar with the biological composition of natural ecosystems versus human-affected ecosystems.

Summary of outstanding opportunities for solitude & primitive and unconfined recreation

As described in detail above, the proposed LWC is a very large and wild area. There are human impacts present at several locations, but the entirety of the unit provides abundant opportunities to find solitude, with both vegetative and topographic screening elements nearly everywhere. There are tens of thousands of acres of completely un-impacted areas where solitude can easily be found.

Outstanding opportunities for primitive and unconfined recreation are present throughout the unit. In addition to containing Indian Head Peak, the proposed LWC provides a number of unknown areas for climbing that can be sought out as backcountry climbers push the limits of what's attainable. Beautiful cliffs of good granite occur around Pipeline Spring, on Hibernia Peak, in upper Bull Canyon, and in Cow Canyon. Of all primitive recreational pursuits, this area is prime for extended backpacking trips, incorporating peak-bagging of some of western Arizona's tallest peaks, and offering serpentine canyon bottoms for travel corridors and water sources. The existing network of abandoned primitive vehicle ways provides some pathways through the landscape that can be used in addition to bushwhacking and route-finding. A number of sensitive wildlife species occur here, as well as old-growth ponderosa pine forests and the mixing of species across ecoregional boundaries, making the Hualapai Mountains Proposed LWC a destination for those looking to explore Arizona's natural heritage in a vast landscape that is affected primarily by the forces of nature.

Conclusion

The Hualapai Mountains Proposed LWC meets the criteria set forth in BLM Manual 6310 for identifying lands with wilderness characteristics. The unit is of vastly sufficient acreage to make practicable its preservation and use in an unimpaired condition. The unit is affected primarily by the forces of nature, with minor human impacts occurring as revegetating vehicle ways, obscure fencing, reclaimed inactive mining, earth-bermed stock tanks, deteriorating wildlife water catchments, a single weather radio, very few campsites, and scattered minor ranching impacts. Major impacts have been excluded from the unit and they too do not affect naturalness. The sheer size, complexity of the terrain, and diversity of vegetation provides sufficient screening to shield visitors from the sights and sounds of human recreational activity. The vertical relief, incredible scenery, remoteness, and abundance of points-of-interest provide outstanding opportunities for the unconfined pursuit of hiking, backpacking, mountain-climbing, hunting, nature observation, horseback riding, and scientific or historical study. The unit contains an extraordinary example of northwestern Arizona's vegetation along an elevational gradient, ranging from diverse saguaro/Joshua tree desert to old-growth ponderosa pine forest. Within this range of plant communities there is rich habitat for sensitive wildlife species, lush riparian woodlands, two Areas of Critical Environmental Concern, and historical sites that supplement the primary wilderness values. Because of these factors, we recommend that the 128,943 acre Hualapai Mountains unit be managed for the preservation of wilderness characteristics.

SECTION 3: Detailed Boundary & Routes Description

Narrative Description of the Proposed LWC Boundary

This section of the report provides a detailed boundary description for the Hualapai Mountains Proposed LWC unit, including all wilderness inventory roads that comprise the unit boundary, all of the primitive routes/ways that permeate the unit boundary, and all other boundaries, such as land ownership, utility corridors, and other excluded areas. Many portions of the unit boundary have been determined according to wilderness inventory road identification protocols described in BLM Manual 6310, which states that a “way” maintained solely by the passage of vehicles does not constitute a “road” for purposes of inventorying lands with wilderness characteristics. Furthermore, the fact that a “way” is used on a regular and continuous basis does not make it a road. A vehicle route that was constructed by mechanical means, but is no longer being maintained by mechanical methods is not a road. A wilderness inventory road, by comparison, is a vehicle route that has “been improved and maintained by mechanical means to ensure relatively regular and continuous use” (Manual 6310, p. 11). Based on these criteria, the Hualapai Mountains Proposed LWC unit contains 128,943 contiguous roadless acres, with few primitive routes permeating the unit boundary, and none cutting into its core. The Photopoints described here of the Hualapai Mountains Proposed LWC are listed in detailed tables with photographs following this description. Beginning at Waypoint 1, the proposed LWC unit description will move clockwise around the unit.

Southern Boundary

From Waypoint 1, the Hualapai Mountains LWC unit bound is BLM Route 7266, otherwise known as Chicken Springs Road. Heading west from Waypoint 1, BLM Route 7266 is the unit boundary for only six-tenths of a mile at which point the BLM property line leaves BLM Route 7266. At this point, the BLM property bound continues to act as the southern Hualapai Mountains LWC unit boundary. Continuing west, the BLM property line is the proposed LWC unit bound until Photopoint 1. At Photopoint 1, the LWC unit boundary becomes BLM Route 7253, which is a recently bladed road that turns to the northwest. Waypoint 2 marks a corral that the LWC unit boundary excludes. Photopoint 2 depicts a way that enters the proposed LWC unit. As the photograph illustrates, this primitive route is in a natural wash that contains no evidence of construction or maintenance. The way shown in Photopoint 2 is a primitive route that has no apparent purpose and ends after a short distance at some boulders. BLM Route 7253 continues to act as the unit boundary until Waypoint 3. At Waypoint 3, the Hualapai Mountains LWC unit boundary once again becomes the BLM property line. Photopoint 3 displays an image of BLM Route 7247 which is a way that enters the LWC unit in a dry wash. This primitive route appears to get mainly off-road vehicle use; is most likely used for ranching purposes; and eventually leads to a spring. However this way is maintained solely by the passage of vehicles, and is therefore a way, not a road as defined by BLM Manual 6310.

BLM Route 7247 (pictured in Photopoint 3) continues north into the proposed Hualapai Mountains LWC unit. The following photopoints document this primitive route and others stemming from it.

Photopoint 4 was taken looking at a windmill just off of BLM Route 7247. As with BLM Route 7247, this short way leading to this windmill is not being maintained and is a primitive route. Photopoint 5 was taken looking at an eroded section of BLM Route 7247, and serves as further evidence that this way is not maintained. Photopoint 6 shows BLM Route 7247B, which is a very short, unmaintained way that leads to a corral and water tank. Continuing north along BLM Route 7247; Photopoint 7 shows that although this way (BLM Route 7247) was constructed, it is not currently being mechanically maintained, is in a state of disrepair and is being eroded. Photopoint 8 was taken looking up an old route that has since revegetated and currently seems to only get used by cattle. The old route in Photopoint 8 is no longer a road or a way because it cannot support vehicular use anymore. Photopoint 9 displays another image of BLM 7247 which shows that this primitive route contains a buried water pipeline that is being exposed by erosion. Again, as Photopoint 9 supports, BLM Route 7247 is kept open solely by the passage of vehicles; and is a way, not a road. Photopoint 10 depicts an old way stemming from BLM 7247 that has been reclaimed by nature, and is therefore not a road or a way. Photopoint 11 also shows an old way that is revegetating; is not in the BLM Route data; and was probably related to old prospecting. Photopoint 12 is another image of BLM Route 7247 after an intersection where this way turns to the west. As Photopoint 12 shows, this way is badly eroded with old pipe broken and exposed. Photopoint 12 serves as further evidence that BLM Route 7247 is an unmaintained primitive route. Photopoint 13 was taken at the top of BLM Route 7247 looking down to where this way is most badly eroded. Photopoint 14 is an image of the spring enclosure at the end of BLM Route 7247. Photopoint 15 displays an image of a way (BLM Route 7247A) that stems from BLM Route 7247. As the image shows, this is an unmaintained way that appears to receive only off-road vehicle traffic. To the west of Photopoint 15, the BLM Route data shows a “Need to Verify” route that eventually ends at the spring. Photopoint 16 documents that this supposed route is nothing more than a natural wash that is definitely not getting vehicular use. There are two more “Need to Verify” routes in the BLM Route data to the north of Photopoint 16 that are also natural washes that are getting no vehicular use. Photopoint 17 depicts an old way that has revegetated and been reclaimed by nature. As Photopoint 17 shows, this is now just a cow path. Photopoint 18 documents that this BLM “Need to Verify” route is just a fence line, not a road or a way. This fence line continues west from Photopoint 18 as well. Photopoint 19 is another “Need to Verify” route in this area that is revegetating, and now is just a cow path. Additionally, all of these “Need to Verify” routes to the north of Photopoint 18 are inaccessible to vehicles due to the fence line shown in Photopoint 18.

Returning to Photopoint 3, the BLM property line continues to act as the Hualapai Mountains Proposed LWC unit boundary until Waypoint 4. At Waypoint 4, the LWC unit bound heads due south to Waypoint 5; to exclude an area with a high concentration of routes, ATV use and campsites. At Waypoint 5, the LWC unit boundary is once again the BLM property line as it goes to the west, then north, and then to the west again. Photopoint 20 was taken off of BLM property of a fence line that the BLM Route data has as a “Need to Verify” route. Photopoint 20 serves as evidence that this is not a route, but just a fence line. The BLM property line serves as the rest of the southern proposed LWC boundary to the far southwest unit corner where the LWC boundary turns to the north.

Western Boundary

The BLM property line makes up the western Hualapai Mountains Proposed LWC boundary along with several wilderness inventory roads. Continuing along the BLM property line and the LWC unit bound, Photopoint 21 displays a way that shows no evidence of maintenance or improvements. Farther north, Photopoint 22 shows BLM Route 7245 that forms a cherrystem into the Hualapai Mountains LWC unit. This cherrystemmed road has received a recent blade and eventually leads to BLM Route 7268, which is used to access Lower Beecher Well and corral that have also been excluded from the proposed LWC unit. Traveling east up BLM Route 7245, Photopoint 23 shows a way that stems to the north for a short distance. As the photo displays, this route shows no evidence of maintenance, appears to be kept open solely by the passage of vehicles, and leads to a campsite. The primitive route in Photopoint 23 is a way, not a road, according to BLM Manual 6310. Farther east on BLM Route 7245, the maintained road turns to the south and becomes BLM Route 7268. Photopoint 24 displays evidence that this route is being maintained, and is therefore a road that is also a cherrystem that is excluded from the LWC unit. Mechanical road maintenance ends at the corral. Photopoint 25 was taken south of the corral looking down a primitive route that is revegetating, has no apparent purpose, is not being maintained; and is a way, not a road. Returning to the north of the excluded well and corral, Photopoint 26 was taken looking to the east down BLM Route 7245 where the maintenance ends. The vegetation in the middle of the way indicates a lack of mechanical maintenance. BLM Route 7245 is a primitive route from Photopoint 26 and beyond. At Photopoint 27, BLM Route 7245 turns to the north and BLM Route 7268 continues east. As Photopoint 27 depicts, BLM Route 7268 (which leads to the old Beecher homestead) is not being maintained, and is therefore a way, not a road. As Photopoint 28 shows, this way gets no use past Upper Beecher Well ruins, has no apparent purpose, and gets more and more eroded the farther east it goes. As stated above, BLM Route 7245 turns to the north at Photopoint 27. Farther north on BLM Route 7245, Photopoint 29 shows this primitive route as it heads north up a dry wash. There is no evidence of maintenance along this way, which eventually ends at some thick vegetation. Furthermore, no purpose for the existence of this primitive route could be identified.

Returning to the Hualapai Mountains Proposed LWC unit boundary, the BLM property line continues to serve as the unit boundary heading north. Waypoint 6 marks the spot where a user-created way enters the LWC unit from private property. This way was created and is maintained solely by the passage of vehicles; and is therefore a way, not a road as defined by BLM Manual 6310. Furthermore, there is no public access to this primitive route because the only way to get there is through private land.

Continuing north, the BLM property line continues to serve as the Hualapai Mountains Proposed LWC unit boundary. The next point of interest is Photopoint 30. Photopoint 30 depicts an unnamed, unmaintained route that leads to a windmill and corral at Mud Springs. The lower portion of this way is in a dry wash, while the upper section leading to Mud Spring is eroded. Despite the road classifying as a way, we are excluding the route and the corral/well because of impacts on naturalness and because the route probably is required for use of the ranching infrastructure. Photopoint 31 displays the image of a way as it enters the LWC unit. As the photo shows, this primitive route is extremely

rugged; not maintained; has a use-level described in the BLM Route data as “non-existent”; and is a way, not a road as defined by BLM Manual 6310. Traveling west from Photopoint 31, the BLM property line continues to be the LWC unit boundary. Photopoint 32 is the southwestern LWC unit corner; and marks the spot where both the proposed LWC unit bound and BLM Route 7233 turn to the north. Photopoint 32 displays an image of BLM Route 7233 (Mountain View Road) which is a maintained road that receives periodic mechanical maintenance, and has drainage improvements.

Heading north along BLM Route 7233 (unit boundary), Photopoint 33 portrays an image of BLM Route 7260 entering the Hualapai Mountains LWC unit. As the photograph illustrates, this primitive route is not maintained, which is evidenced by the vegetation growing in the middle of the way. Furthermore, BLM Route 7233 appears to be kept open solely by the passage of vehicles, and serves no evident purpose. Photopoint 34 was taken looking northeast up an unnamed primitive route. This way shows no evidence of maintenance, has no apparent purpose, is kept open solely by the passage of ATVs and/or dirtbikes, and is revegetating.

Continuing north along the Hualapai Mountains Proposed LWC unit boundary, Photopoint 35 is the next point of interest. Photopoint 35 displays an image of BLM Route 7258, which is a recently maintained road and a cherrystem into the LWC unit. This cherrystem leads to a stock tank and a corral that also have been excluded from the LWC unit. Returning to the LWC unit boundary and heading north, Photopoint 36 shows an unnamed, reclaimed way within the unit. As Photopoint 36 displays, this old way has completely revegetated and been reclaimed by nature. Photopoint 37 depicts BLM Route 7256, which as the photo shows is not being maintained. Because there is another route that is more heavily used that accesses the stock tank to the east; BLM Route 7256 serves no purpose. Due to a lack of maintenance, this portion of BLM Route 7256 (seen in Photopoint 37) is a way, not a road as defined by BLM Manual 6310. Continuing east, BLM Route 7256 becomes the cherrystem to the stock tank and corral. Photopoint 38 shows this intersection. In the photograph, the road is on the left and the way is on the right. Just to further clarify, to the west of Photopoint 38, the cherrystem is BLM Route 7258; while to the east of Photopoint 38, the cherrystem is BLM Route 7256. Photopoint 39 shows the location where BLM Route 7256 has recently been maintained at a wash crossing.

Continuing to the east, past the excluded stock tank and corral that the cherrystem leads to, there are some primitive routes that have been photo-documented. Photopoint 40 depicts BLM Route 7256A that accesses a spring and stems from BLM Route 7256. As Photopoint 40 illustrates, this primitive route is not being maintained and has evidence of significant erosion, and is therefore simply a way. Returning to BLM Route 7256, Photopoint 41 helps to document that the maintenance ends at the stock tank and corral. As Photopoint 41 displays, BLM Route 7256 is being eroded and is definitely not being maintained; making it a way, not a road. There is a waterline associated with this primitive route that was destroyed and never repaired. Photopoint 42 was taken at the other end of the primitive route displayed in Photopoint 34. As Photopoint 42 documents, whatever route used to exist here has been completely reclaimed by nature. Farther east on BLM Route 7256, Photopoint 43 was taken where BLM Route 7256B stems to the east. Photopoint 43 stands as evidence that this route is barely

used, definitely not maintained, and it therefore a way, not a road. This way that is naturalizing and revegetating leads to an abandoned stock tank and water trough that are in disrepair. Continuing east on BLM Route 7256, Photopoint 44 displays a section of this primitive route that stands as further evidence of a lack of maintenance on this way; and documents some extremely bad erosion. Photopoint 45 documents an unnamed way that branches to the south from BLM Route 7256. As the photograph shows, this way is revegetating, gets very low use, has no purpose, and is a way, not a road.

Returning to the western Hualapai Mountains Proposed LWC boundary; BLM Route 7233 continues to serve as the LWC unit boundary heading north from where BLM Route 7256 enters the unit. Photopoint 46 displays the image of a supposed route that the BLM has labeled as a “Need to Verify” in their route data. However, as Photopoint 46 shows, this is a natural dry wash that is not being used by vehicles at all. Therefore, the wash shown in Photopoint 46 is neither a road nor a way. Photopoint 47 depicts BLM Route 7233B, which was not constructed, contains no evidence of maintenance, and has no apparent purpose; making it a way, not a road as defined by BLM Manual 6310. Heading north up BLM Route 7233 (LWC unit bound), Photopoint 48 shows a photo of a way entering the LWC unit. This unnamed way in the valley bottom has no evidence of construction, is not being maintained, and has no obvious purpose. Continuing north, Photopoint 49 displays an image of BLM Route 7248. Although this primitive route was constructed in places, it contained no evidence of maintenance at the time of this inventory. Because of a lack of mechanical maintenance, and because this way is kept open solely by the passage of vehicles; BLM Route 7248 is a way, not a road as defined by BLM Manual 6310.

BLM Route 7248 is used to access a number of primitive routes within the Hualapai Mountains Proposed LWC unit. The following paragraph will document the photopoints and details of the ways accessed via BLM Route 7248. Photopoint 50 depicts BLM Route 7248 as it passes through a tight section of boulders, which is only wide enough for ATVs. Photopoint 50 stands as further evidence that BLM Route 7248 is a way, not a road. Photopoint 51 displays an image of a primitive route that was constructed, but shows no evidence that it is being maintained; as is indicated by the vegetation growing in the median. Due to a lack of maintenance, the primitive route shown in Photopoint 51 is a way, not a road. Photopoint 52 depicts a dilapidated windmill and corral accessed via BLM Route 7248A, which stems from BLM Route 7248. As Photopoint 52 depicts, this ranching infrastructure is in disrepair with broken piping strewn in the wash below. Photopoint 53 shows a branch of BLM Route 7248A that is growing in with vegetation, and obviously not maintained making it a way as defined by BLM Manual 6310. Photopoint 54 serves as further evidence that BLM Route 7248A is not being maintained. Returning to BLM Route 7248, Photopoint 55 shows evidence of erosion, which substantiates the fact that this way is not being maintained. Photopoint 56 displays an unnamed route with no apparent purpose, no evidence that it was constructed, and no signs of maintenance. The photograph shows the typical condition of this way until it meets a natural wash. As the photo proves, this primitive route is revegetating. Due to a lack of maintenance, the route shown in Photopoint 56 is just a way, not a road. Photopoint 57 depicts a natural wash that the BLM Route data has labeled as “Need to Verify”. As the photograph illustrates, this natural wash is getting no vehicular use, and is not

a road or a way. Continuing northeast up BLM Route 7248, Photopoint 58 was taken looking down an unnamed way that leads to Blue Mary Spring. This primitive route contains no obvious evidence of construction, is not being maintained (vegetation growing in median), receives some OHV use, and appears to be kept open solely by the passage of vehicles. Due to a lack of maintenance, the primitive route in Photopoint 58 is a way, not a road. Photopoint 59 depicts another image of BLM Route 7248 in which a lack of maintenance is quite obvious. Continuing east, Photopoint 60 was taken looking at a supposed route that the BLM has identified as a "Need to Verify". As Photopoint 60 shows, this is not a road or even a way. Photopoint 61 depicts a section of BLM Route 7248 that is very off-camber. This indicates that this route was not constructed, and continues to lack signs of maintenance. Photopoint 62 displays an image of BLM Route 7248 in which there is visibly only enough room for an ATV to fit through boulders lining this primitive route. Photopoint 63 was taken looking up an old, unnamed route stemming from BLM Route 7248. As the photograph depicts, this way is extremely eroded, not being maintained, and gets no use; therefore making it a way, not a road. Photopoint 64 shows another old route that meets up with the one in Photopoint 63. The unnamed way in Photopoint 64 is revegetating, is obviously not being maintained, appears to have no clear purpose, and gets extremely rare ATV and/or dirtbike use. Because the primitive routes displayed in Photopoints 63 and 64 are in such poor condition and clearly not maintained, they stand as evidence that the tertiary ways that they lead to are also primitive, unmaintained routes. Returning to BLM Route 7248, this way continues up to the mountain pass where Mohave County has installed a small weather station in the saddle near Burch Peak. The county holds no legal right-of-way to this weather station. The remaining routes on the eastside of the mountain pass along BLM Route 7248 will be described in detail below in the section describing the eastern Hualapai Mountains LWC unit boundary.

Going back to the western LWC unit boundary, BLM Route 7233 continues to serve as the proposed Hualapai Mountains LWC unit boundary heading north. Photopoint 65 displays an image of BLM Route 7240 heading east. Photopoint 66 depicts an image of this primitive route in the same area heading west. As these two Photopoints illustrate, this primitive route in a dry wash shows no evidence of construction, contains no evidence that it is being maintained, and is therefore a way, not a road as defined by BLM Manual 6310. The rest of this paragraph is devoted to describing the primitive routes to the east that stem from BLM Route 7240. Photopoint 67 was taken looking at a fork of two primitive routes (BLM Routes 7240 and 7244). Both ways access an abandoned homestead, and neither way contains evidence of maintenance. The left way (BLM Route 7244) is redundant, going to the same place as the way on the right (BLM Route 7240). Photopoint 68 shows some erosion along BLM Route 7240, indicating a lack of maintenance. Photopoint 69 depicts an unnamed primitive route that bridges the gap between BLM Routes 7240 and 7244. As Photopoint 69 shows, this way is not maintained; evidenced by the uneven surface and erosion within the primitive route. Photopoint 70 was taken looking north up an old route. As Photopoint 70 illustrates, this old route has revegetated and reclaimed by nature; making it neither a road nor a way. Photopoint 71 displays clear evidence that BLM Route 7240 is not a maintained. Photopoint 72 was taken at the eastern end of BLM Route 7244. This photograph shows vegetation growing in the middle of this primitive route; clearly a sign that this way is receiving no mechanical maintenance. The way in Photopoint 72 appears to be used for ranch

use, as a pipeline follows its course. However, all the pipes appear to be broken. Traveling east, Photopoint 73 depicts BLM Route 7240C, which now seems to have no purpose. It used to access Blue Mary Spring, but the infrastructure is no longer functional. The primitive route in Photopoint 73 was not constructed, contains no evidence of maintenance, is kept open solely by the passage of vehicles, and is therefore a way, not a road. Farther north, Photopoint 74 was taken looking down BLM Route 7240D, which accesses some ranching infrastructure that has been abandoned and is falling apart. As Photopoint 74 displays, this primitive route does not appear to have been constructed, shows no signs of maintenance, and is kept open only by the passage of vehicles; making it a way, not a road. Continuing north, Photopoint 75 displays more evidence that BLM Route 7240 is an unmaintained way. BLM Route 7240 is kept open solely by the passage of vehicles, and gets rougher the farther it goes. Continuing north, Photopoint 76 depicts an unnamed, unmaintained, revegetating primitive route. The way in Photopoint 76 is another primitive route that stems from the other end of BLM Route 7244 (which is also a way). Photopoint 77 was taken looking up BLM Route 7240E, which access some abandoned prospecting sites. As Photopoint 77 displays, this primitive route is growing in with vegetation, is quite narrow, is not maintained, and is kept open solely by the passage of vehicles; making it a way, not a road as defined by BLM Manual. 6310. Heading east, Photopoint 78 further documents the lack of maintenance of BLM Route 7240. Photopoint 79 exhibits the narrowness of BLM Route 7240; there is barely enough room for an ATV to fit through the boulders. Continuing up to the mountain pass, Photopoint 80 documents an unnamed primitive route that goes just a short distance to an abandoned mine. This way receives no maintenance and receives only foot-traffic; making it a way, not a road. Photopoint 81 looks north up an old route that has revegetated, and appears to receive only light foot traffic. The reclaimed way in Photopoint 81 would make a great trail, as it goes almost to the top of Pine Peak. Although BLM Route 7240 continues through the mountain pass to the east side of the Hualapai Mountains, the photopoints farther to the east will be described below with the eastern LWC boundary descriptions.

Returning to the Hualapai Mountains Proposed LWC boundary near Photopoint 65, the proposed LWC unit boundary turns to the west. At this point, the unit boundary road becomes BLM Route 7240 (Mountain View Road). To clarify, BLM Route 7240 is a maintained wilderness inventory road where it forms the unit boundary, but becomes an unmaintained way (to the east) once it enters the proposed LWC unit near Photopoint 65. Photopoint 82 depicts an unnamed route heading southeast into the LWC unit. This primitive route in a dry wash contains no evidence of construction, no signs of maintenance, and serves no apparent purpose; making it a way, not a road as defined by BLM Manual 6310. Waypoint 7 marks the location where the Hualapai Mountains Proposed LWC unit boundary follows the BLM property line until Waypoint 8. At Waypoint 8, the proposed LWC unit boundary becomes BLM Route 7240 once again. Farther northwest up the LWC boundary, Photopoint 83 displays an image of BLM Route 7332. As the photo shows, this primitive route shows no evidence of construction, is not being maintained, and is kept open solely by the passage of vehicles; making it a way, not a road.

Photopoint 84 was taken looking southeast down the Hualapai Mountains Proposed LWC unit boundary wilderness inventory road (BLM Route 7240). From Photopoint 84, the BLM property boundary serves as the Hualapai Mountains Proposed LWC unit bound heading north. Waypoints 9 and 10 mark two locations where the BLM Route data displays a “Need to Verify” route entering the LWC unit. However, this is just a natural wash that gets no vehicular use, and is therefore neither a road nor a way.

The Hualapai Mountains Proposed LWC unit boundary continues to follow the BLM property line until Photopoint 85, at which point BLM Route 7101 (Boriana Mine Road) becomes the proposed LWC unit bound. Photopoint 85 shows this wilderness inventory road that is a popular recreational through-route, and is also used for ranching purposes. BLM Route 7101 has a large, heavily-constructed roadbed that is very rough for much of its length, but consistently maintained in spots. BLM Route 7101 is the Hualapai Mountains Proposed LWC boundary for the rest of the western unit bound heading north.

Traveling north up Boriana Mine Road, Photopoint 86 displays an image of an old unnamed route that used to lead to an abandoned mine, but has since been reclaimed. As the photo shows, the entrance has become a borrow pit, and thus impassable. Photopoint 87 depicts an old unnamed route in similar condition that has been reclaimed. Photopoint 88 was taken looking southeast down a primitive route with no apparent purpose, which is revegetating, and contains no evidence of construction or maintenance. Due to a lack of maintenance, the primitive route shown in Photopoint 88 is a way, not a road.

Continuing north, Photopoint 89 depicts BLM Route 7101W, which is an unmaintained route that leads to the abandoned Copper World Mine which closed in 1959. This route is kept open solely by the passage of vehicles. There is an old wooden bridge that has collapsed and is rotting at the location where this route crosses onto private land. Although BLM Route 7101W is not maintained, it is a way, not a wilderness inventory road as defined by BLM Manual 6310. However, we have excluded it from the unit, along with the area impacted by the mine and eroded mine tailings, because of its impact on the naturalness of the unit. Furthermore, we feel it is important to keep the road open so future site restoration and cleanup activities on BLM land can be completed. Photopoint 90 was taken looking down another unnamed primitive route with no obvious purpose. This way is revegetating and is obviously not maintained; making it a way, not a road. Photopoint 91 displays an image of a short primitive route (BLM Route 7101U) and the spring that it accesses. There is no evidence that BLM Route 7101U is being maintained, qualifying it as a way, not a road. We recommend that this way be closed to vehicular use, and the spring restored to a healthier state. The tunneled spring, which is fed from a boxed-in opening, feeds a small pond with goldfish. Water seeps out of the pond into a semi-permanent mini-riparian system with a willow tree.

Continuing north up Boriana Mine Road, Photopoint 92 is the next point of interest. Photopoint 92 was taken looking southeast down BLM Route 7101S. While this primitive route was constructed, it is not

currently being maintained, and is therefore a way, not a road. Additionally, this way gets very low use (no tracks were evident), has no apparent purpose, and is naturalizing. Photopoint 93 was taken of another primitive route (BLM Route 7220) that leads to an abandoned mine and is naturalizing. BLM Route 7220 is kept open solely by the passage of vehicles, and contains no evidence of maintenance; making it a way, not a road. This way gets some ATV and/or dirtbike use, but would make a great trail. Indeed, it is already becoming a trail as it is extremely narrow in places, and the roadbed is growing in with vegetation (see Photopoint 94). Photopoint 95 was taken farther down the canyon looking at BLM Route 7220A, which is an obviously unmaintained way that is in the process of revegetating. BLM Route 7220A leads to a few “Need to Verify” routes that the BLM displays in their route data. However, these supposed routes are only natural washes. Another of these primitive routes is a revegetating way similar to that displayed in Photopoint 95, but with even less use. Photopoint 96 is a very short spur (BLM Route 7222A) that is revegetating. As the photograph shows, this primitive route is not maintained, is kept open solely by the passage of vehicles, and is therefore a way, not a road. BLM Route 7220 loops back to Boriana Mine Road. Photopoint 97 was taken as this way heads back to the main road, and serves as further evidence that this is indeed a primitive route. Photopoint 98 depicts a primitive route that leads to an abandoned mine. As the photo displays, this way is revegetating, and becomes impassable due to thick vegetation after only 100 feet or so. Due to a lack of maintenance, this unnamed route is a way, not a road as defined by BLM Manual 6310. Photopoint 99 was taken looking across the drainage from Photopoint 98. Photopoint 99 shows the abandoned mine, which is naturalizing quite nicely. Photopoint 99 also shows that there is not a route on this hillside, even though the BLM Route data shows a route there. Photopoint 100 was taken at the top of the loop that BLM Route 7220 makes from Boriana Mine Road. Photopoint 100 shows yet again that BLM Route 7220 is an unmaintained way.

Photopoint 101 was taken looking down Boriana Mine Road (BLM Route 7101), which is the boundary road with the Hualapai Mountains Proposed LWC unit to the left of the road. Farther north, Photopoint 102 depicts a primitive route (BLM Route 7101R) that was constructed, but contains no evidence of maintenance; making it a way, not a road. It appears that this way, which leads to a campsite, is kept open solely by the passage of vehicles. BLM Route 7101 continues north as the Hualapai Mountains Proposed LWC boundary. Photopoint 103 pictures BLM Route 7206 near where it meets Boriana Mine Road. As Photopoint 103 depicts, this primitive route is narrow and receives mostly recreational off-road vehicle use. Although BLM Route 7206 was constructed, it contains no signs of maintenance, and is thus a way, not a wilderness inventory road. Photopoint 104 serves as additional evidence that BLM Route 7206 is unmaintained. Photopoint 105 was taken looking down BLM Route 7206 as it turns to the north, and continues to lack signs of maintenance. Heading south from Photopoint 105, Photopoint 106 portrays an image of BLM Route 7216. As the photo shows, this primitive route is extremely eroded and lacking any signs of maintenance; making it a way, not a road. Even the BLM route data states that this way is “Heavily Eroded”. Photopoint 107 further proves a lack of maintenance of BLM Route 7216.

Returning to the Hualapai Mountains Proposed LWC unit boundary, Boriana Mine Road (BLM Route 7101) forms the remainder of its western bound. Photopoint 108 marks the location where the proposed LWC unit boundary turns to the east.

Northern Boundary

The northern Hualapai Mountains Proposed LWC boundary is comprised of BLM Routes 7200, 7207 and 7206. Photopoint 108 displays an image of BLM Route 7200 (a wilderness inventory road), which forms the western portion of the northern LWC unit boundary. This road gets heavy 4-WD traffic, has old evidence of being maintained, and maintenance is likely due to the popularity of this route. Photopoint 109 was taken looking east along BLM Route 7200 where it also becomes known as the Moss Wash OHV Trail. As the photo depicts, this portion of this wilderness inventory road gets even more use, and is also maintained. BLM Route 7200 is the Hualapai Mountains Proposed LWC northern boundary all the way to Waypoint 11. At Waypoint 11, the proposed LWC boundary turns to the south, and becomes BLM Route 7207. Photopoint 110 was taken looking south down BLM Route 7207E. As the photo shows, this primitive route contains no evidence of construction, is not being maintained, and is a way, not a road. Photopoint 111 depicts an image of BLM Route 7207, which is a wilderness inventory road and a unit boundary. This road was constructed and has received a recent blade. Traveling south, Photopoint 112 depicts an image of BLM Route 7207F. This primitive route has no obvious purpose, contains no evidence of construction, is not being maintained, is only the width of an ATV, and is kept open solely by the passage of vehicles; making it a way, not a road.

Traveling south on BLM Route 7207, Waypoint 12 marks the location where BLM Route 7206 turns to the west. Photopoint 113 displays an image of BLM Route 7206, illustrating that this primitive route has been eroded, revegetated, and is definitely not maintained. Due to a lack of maintenance, BLM Route 7206 is a way, not a road. Continuing west, Photopoint 114 documents the condition of BLM Route 7206A. As the photo displays, this primitive route gets no use, has no obvious purpose, and is not maintained; making it a way, not a road. Photopoint 115 depicts an unnamed primitive route that is severely eroded. As the photograph illustrates, this route is not being maintained, and is therefore a way, not a road. Photopoint 116 displays another image of BLM Route 7206; further proving a lack of maintenance on this way. BLM Route 7206 is an extreme 4-WD trail with severe erosion. The BLM route data displays a couple other routes (BLM recorded as a "Need to Verify" and a "Reclaiming") to the west of Photopoint 116, both of which are unmaintained ways.

The proposed LWC unit boundary changes from BLM Route 7207 to BLM Route 7206 from Waypoint 12 heading east. BLM Route 7206 is a maintained wilderness inventory road. At Photopoint 117, BLM Route 7207 takes off to the south and forms a cherrystem into the Hualapai Mountains Proposed LWC unit. Photopoint 117 displays an image of BLM Route 7207, and documents that it is a maintained wilderness inventory road. Continuing south down the cherrystem, Photopoint 118 was taken of a supposed route in the BLM route layer. As Photopoint 118 depicts, this old unnamed route has been reclaimed, and is no longer a road or a way. Farther south, Photopoint 119 documents a short spur (BLM Route 7207G) leading to a stock tank. BLM Route 7207G is also a maintained wilderness

inventory road, and has been excluded, along with the stock tank, from the proposed LWC unit. From the stock tank, Photopoints 120 and 121 display the images of two supposed routes that are in the BLM route data. As the photographs illustrate, these old routes have revegetated and been reclaimed by nature.

Continuing south on the cherrystem (BLM Route 7207) BLM Route 7216 branches off to the east at Waypoint 13. Photopoint 122 documents that this primitive route is not being maintained, and therefore is a way, not a road. Photopoint 123 displays an image of BLM Route 7216C, which was historically used for ranching purposes, but is now revegetating and naturalizing. Due to a lack of maintenance, BLM Route 7216C is now a way that is quickly becoming a trail. Photopoint 124 documents the severely eroded state of this part of BLM Route 7216, which is a way because of the lack of maintenance.

Returning to the cherrystem (BLM Route 7207); Waypoint 13 marks the location where the cherrystem changes from BLM Route 7207 to BLM Route 7216. Photopoint 125 displays some recent maintenance along this wilderness inventory road (BLM Route 7216). Photopoint 126 displays an image of a natural wash stemming from BLM Route 7216 that the BLM route data has labeled as a route. However, as the photo shows, this is just a natural wash. Photopoint 127 displays an image of a primitive route that is not being maintained; making it a way, not a road as defined by BLM Manual 6310. However, the way in Photopoint 127 would make a nice trail going nearly to the top of Orejano Peak.

Continuing down the cherrystem (BLM Route 7216), Photopoint 128 is the next point of interest. Photopoint 128 was taken looking southwest down BLM Route 7216D. This primitive route contains no evidence of construction, has no apparent purpose, gets some ATV and/or dirtbike use, is kept open solely by the passage of vehicles, and is not being maintained; making it a way, not a road. The cherrystem wilderness inventory road (BLM Route 7216) ends at a large stock tank that has also been excluded from the Hualapai Mountains Proposed LWC unit. There are several primitive routes leaving the vicinity of the excluded stock tank. Photopoint 129 documents an unnamed primitive route that accesses abandoned mines and is not being maintained; and is therefore a way, not a road. Furthermore, this way is growing in, very rough, and would make a good trail. Photopoint 130 shows that the maintenance on the cherrystem (BLM Route 7216) ends at the stock tank. After the stock tank, BLM Route 7216 is an unmaintained way. Photopoint 131 displays an image of an old unnamed route that has revegetated and been reclaimed by nature.

Returning to Photopoint 117, the Hualapai Mountains Proposed LWC unit boundary continues to the east. BLM Route 7206 (Cedar Wash Road) is the wilderness inventory road that forms this portion of the proposed LWC unit bound. Waypoint 14 marks the location of a corral that has been excluded from the proposed LWC unit because of some evidence of recent maintenance. Photopoint 132 was taken near the corral at the end of the route where recent earthwork has made the next portion of the route inaccessible. Photopoint 133 documents that the blocked-off route has been reclaimed with vehicle

use ending at the corral. The reclaimed way in Photopoint 133 is inaccessible because of the recent earthwork at the corral, and now just used by cattle and wildlife.

Farther east along the unit boundary (BLM Route 7206), Photopoint 134 is the next point of interest. Photopoint 134 was taken of a supposed route that the BLM has identified in their route data. However, as Photopoint 134 shows, this is not a road, or even a way. Photopoint 135 displays the image of BLM Route 7216. This primitive route was constructed (bladed/roadside berms), but is not being maintained and appears to be kept open solely by the passage of vehicles; making this a way, not a wilderness inventory road as defined by BLM Manual 6310. Erosion is typical along this way. This primitive route leads to a beautiful waterfall, and all vehicular use ends at this waterfall. Photopoint 136 documents the condition of this way past the waterfall. As Photopoint 136 depicts, this way shows no signs of travel, and is definitely not being maintained. Photopoints 135 and 136 document the state of BLM Route 7216 on its northern end, while previously described Photopoint 124 documents the unmaintained state of this way at its southern end.

Returning to the northern Hualapai Mountains Proposed LWC unit bound (BLM Route 7206 or Cedar Wash Road); Photopoint 137 documents this wilderness inventory road at its eastern terminus. Photopoint 137 also marks the northeastern LWC unit corner.

Eastern Boundary

The eastern Hualapai Mountains Proposed LWC boundary is comprised of various wilderness inventory roads, the BLM property line, and a powerline corridor. From Photopoint 137, BLM Route 7163 (Blake Ranch Road) is the eastern Hualapai Mountains Proposed LWC unit boundary. Heading south along BLM 7163 (wilderness inventory road), Photopoint 138 is the next point of interest. Photopoint 138 depicts an unnamed primitive route that was constructed, but shows no signs of being maintained; making it a way, not a road. Photopoint 139 was taken looking north up BLM Route 7163 (Blake Ranch Road), and documents that this is a maintained wilderness inventory road.

At Photopoint 139, the Hualapai Mountains Proposed LWC unit boundary becomes the BLM property line, and turns to the west. Photopoint 140 was taken outside of the proposed LWC unit bounds, but serves to document that BLM Route 7328 (which enters the LWC unit to the west of this photopoint) is not a way or a road. Photopoint 140 displays an image of BLM Route 7328 and clearly shows that this old route has been reclaimed. However, this reclaimed way has the potential to make a nice trail. Continuing south along the proposed LWC unit boundary, Waypoint 15 marks the location where the LWC boundary stops being the BLM property line and cuts down to BLM Route 7222E. Photopoint 141 documents that BLM Route 7222E is a maintained wilderness inventory road. BLM Route 7222E serves as the Hualapai Mountains Proposed LWC unit bound from Waypoint 15 to Waypoint 16.

From Waypoint 16, the BLM property line acts as the Hualapai Mountains Proposed LWC unit boundary going south. Photopoint 142 documents that a "Need to Verify" route that the BLM displays in their route data is not a road, or a way. Photopoint 143 depicts BLM Route 7222, which is a

maintained wilderness inventory road that forms a cherrystem going into the proposed LWC unit. Photopoints 144-161 document this cherrystem and its branches, along with all of the ways stemming off of the cherrystemmed routes. All cherrystemmed routes are maintained wilderness inventory roads. All primitive routes are unmaintained ways. See Photopoints 144-161 for more details.

Returning to the Hualapai Mountains Proposed LWC eastern unit boundary, the BLM property line continues to serve as the LWC boundary heading south from Photopoint 143. Photopoint 162 documents an unnamed wilderness inventory road. This maintained route forms a cherrystem into the proposed LWC unit, which leads to a well that has also been excluded from the LWC unit. Heading south from Photopoint 162, the BLM property line continues to serve as the Hualapai Mountains Proposed LWC eastern unit boundary. Photopoint 163 shows an unmaintained route that enters the proposed LWC unit to the north. As Photopoint 163 displays, this primitive route was constructed, has no apparent purpose, is revegetating, and is not being maintained; making it a way, not a road.

The BLM property line continues to serve as the proposed LWC bound until Waypoint 17. At Waypoint 17, the proposed LWC boundary has been adjusted to exclude a private property inholding in a simple manner. The BLM property line serves as the proposed LWC boundary starting again at Waypoint 18. The property line is the LWC unit bound until Waypoint 19. At Waypoint 19, an unnamed maintained wilderness inventory road (Photopoint 164) serves as the Hualapai Mountains Proposed LWC unit bound until Waypoint 20. A well associated with this unnamed road has also been excluded from the proposed LWC unit. Photopoint 165 was taken to document that the above mentioned unnamed route (Photopoint 164) reaches a point where the maintenance stops and this route becomes an unmaintained way that is revegetating. This documentation was necessary because this way (Photopoint 165) eventually passes back onto BLM property before accessing the private inholding mentioned above.

From Waypoint 20 to Waypoint 21, the BLM property line serves as the Hualapai Mountains Proposed LWC unit bound. At Waypoint 21, an unnamed maintained wilderness inventory road Photopoint 166) acts as the proposed LWC unit boundary until Waypoint 22. From Waypoint 22 all the way to Waypoint 23, the BLM property line serves as the proposed LWC unit bound. At Waypoint 23, an unnamed maintained wilderness inventory road (Photopoint 167) becomes the proposed LWC unit bound. This road has signs of recent earthwork and portions have had a recent blade. This road accesses to a solar run stock tank. Just to the northeast of Photopoint 167, the proposed LWC unit boundary heads east and becomes the BLM property line once again until Waypoint 24.

At Waypoint 24, the powerline and the associated utility right-of-way becomes the Hualapai Mountains Proposed LWC eastern unit boundary. Heading south along the powerline, the following will describe several supposed routes that enter the proposed LWC unit. Photopoint 168 documents that a "Need to Verify" route that the BLM has identified is just a natural wash. Photopoint 169 displays another image of a "Need to Verify" route that the BLM has labeled as such in their route data, but that is just another natural wash. The BLM route data shows three other "Need to Verify" routes

located between Photopoints 168 and 169. However, all three of these supposed routes are natural washes similar to those documented in Photopoints 168 and 169.

Continuing south, Photopoint 170 shows the powerline that serves as the Hualapai Mountains proposed eastern LWC unit bound. At Photopoint 170, this maintained wilderness inventory road becomes BLM Route 7239. Just to the west of Photopoint 170, a maintained wilderness inventory road (BLM Route 7242) forms a cherrystem into the proposed LWC unit. Photopoint 171 displays an image of this road that gets ranching use and leads to some recently drilled wells. Photopoint 172 shows that the maintenance on this route ends after the second well. As Photopoint 172 documents, BLM Route 7242, and all primitive routes that it leads to farther to the west, are unmaintained ways. Heading back to the east along BLM Route 7242, Photopoint 173 depicts an unmaintained way (BLM Route 7243). Traveling to the south, Photopoint 174 was taken looking west up an unnamed dry wash that is not being maintained for vehicular use; making it a way, not a road.

Returning to the Hualapai Mountains proposed eastern LWC boundary, the powerline continues to serve as the boundary heading south. Photopoint 175 was taken near a LWC unit corner. Photopoint 175 depicts BLM Route 7240, a maintained wilderness inventory road, heading west. Traveling west up BLM Route 7240 (unit boundary), Waypoint 25 marks the location of a well that has been excluded from the proposed LWC unit. Northwest of Waypoint 25, a primitive route (BLM Route 7243) enters the LWC unit. Photopoint 176 displays an image of this primitive route that was constructed, is used for ranching purposes, is very rough and eroded, is kept open solely by the passage of vehicles, and is not being maintained; making it a way, not a road. Photopoint 177 documents another unmaintained way to the north that stems from BLM Route 7243.

BLM Route 7240 continues to serve as the Hualapai Mountains Proposed LWC unit boundary continuing west, with two sections deviating to follow the BLM property line. Photopoint 178 displays an image of BLM Route 7240 (wilderness inventory road) just to the west of the second deviation. Continuing west, Photopoint 179 documents an old unnamed primitive route that the BLM has identified as "Reclaiming" in their route data. As Photopoint 179 documents, this old way is not maintained; and has indeed been reclaimed by nature. Photopoint 180 depicts another old way that has been reclaimed.

Continuing west, BLM Route 7240 serves as the Hualapai Mountains proposed unit boundary, alternating with the BLM property line. Photopoint 181 depicts BLM Route 7240F, which is a revegetating, reclaimed way that is not being maintained and leads to an abandoned mine. From Photopoint 181, the BLM property boundary serves as the proposed LWC unit boundary. Photopoint 182 is the next point of interest, which displays an image of BLM Route 7240 (wilderness inventory road) where it forms a cherrystem into the LWC unit that accesses private land. Photopoint 183 documents that as BLM Route 7240 leaves the private land, it becomes an unmaintained way that is kept open solely by the passage of vehicles, and is becoming a trail. BLM Route 7240 continues west as a primitive route that accesses some abandoned and broken ranching infrastructure. Photopoint 184

was taken looking south down an unmaintained way that is very narrow and in the process of revegetating. As BLM Route 7240 gets closer to the mountain pass, it gets more eroded and very gnarly. The primitive routes farther to the west along BLM Route 7240 were all described previously from the western LWC unit boundary.

Returning to the eastern Hualapai Mountains Proposed LWC boundary, Photopoint 185 was taken looking south down BLM Route 7250. As Photopoint 185 depicts, this is a maintained wilderness inventory road that serves as the unit boundary. Heading south/southeast along BLM Route 7250; the proposed LWC unit boundary alternates between this route and the BLM property line. At Photopoint 186, the Hualapai Mountains Proposed LWC unit boundary becomes BLM Route 7219, which is another maintained wilderness inventory road. Heading south, BLM Route 7219 serves as the proposed LWC unit boundary until Waypoint 26. At Waypoint 26, the LWC unit boundary becomes the BLM property line until just to the southeast of Photopoint 187. At this point, the proposed LWC unit boundary becomes BLM Route 7248. Photopoint 187 displays an image of BLM Route 7248, which is a maintained wilderness inventory road.

Heading southwest along BLM Route 7248 (proposed LWC unit bound) Photopoint 188 documents a primitive route that branches off to the west. Photopoint 188 depicts BLM Route 7248C, which is an unmaintained way which leads to the Hualapai Mtns. #1 wildlife water catchment, which the Arizona Game and Fish Department built in 1966. Continuing west, Photopoint 189 displays an image of an unnamed, unmaintained way that goes a short distance to a corral that is currently unused and in disrepair. Farther west, Photopoint 190 documents a supposed route that the BLM has labeled as a "Need to Verify" in their route data. However, as Photopoint 190 shows, this is a natural wash that receives no vehicular use, and is not a road or a way. Photopoint 191 stands as further evidence that BLM Route 7248 is a maintained wilderness inventory road, and an appropriate LWC unit bound.

Just to the west of Photopoint 191, BLM Route 7248 turns to the north and forms a short cherrystem that cuts into the proposed LWC unit. Photopoint 192 documents this cherrystem where it becomes BLM Route 7248B, which is used to access a feed trough. As Photopoint 192 displays, this is a maintained wilderness inventory road. To the west of Photopoint 192, BLM Route 7248 becomes a primitive route and continues heading to the northwest. Photopoint 193 documents the unmaintained condition of BLM Route 7248 in this area, and stands as evidence that it is indeed an unmaintained way that is badly eroded. Photopoint 194 documents a primitive route that stems from BLM Route 7248. Photopoint 194 depicts BLM Route 7359, an unmaintained route that is revegetating and leads to an abandoned mine. Photopoint 195 displays the image of an unnamed, unmaintained way that is kept open solely by the passage of vehicles. Photopoint 196 documents the condition of BLM Route 7248 as it travels up toward the mountain pass. As Photopoint 196 depicts, BLM Route 7248 is still an unmaintained way that is revegetating, and in many places the extremely narrow corridor is severely eroded. Farther to the northwest, Photopoint 197 shows an unnamed, unmaintained with no apparent purpose that is revegetating. Continuing up BLM Route 7248, the photopoints in the mountains pass and on the west side of the pass were discussed earlier in the report.

Returning to the eastern Hualapai Mountains Proposed LWC unit boundary, BLM Route 7227 becomes the eastern unit bound just to the west of Photopoint 191. Photopoint 198 depicts an image of BLM Route 7227, which is a maintained wilderness inventory road. Heading south along this boundary road, Photopoint 199 documents a supposed route that the BLM has labeled as a “Need to Verify” in their route data. As Photopoint 199 shows, this is not a road or a way, but instead just a natural wash. Just to the east, Photopoint 200 depicts BLM Route 7227U, which is an unmaintained way currently kept open solely by the passage of vehicles, and was once used to access mine prospects, and later was used by Arizona Game and Fish Department in 1966 to build the now-defunct Hualapai Mtns. #2 wildlife water catchment. The BLM route inventory data says “Heavily eroded, little use, some vegetation” for BLM Route 7227U.

BLM Route 7227 continues to serve as the proposed LWC eastern unit boundary heading east and south; alternating with the BLM property line. Photopoint 201 depicts BLM Route 7227S, which is an unmaintained way with no obvious purpose. Continuing south, BLM Route 7227 and the BLM property line continue to serve as the Hualapai Mountains Proposed LWC unit boundary. Near Photopoint 202, BLM Route 7227P becomes the unit boundary for just a short distance. Photopoint 202 displays an image of this maintained wilderness inventory road (BLM Route 7227P) that has received a recent blade. Photopoint 203 depicts BLM Route 7227O that is a maintained wilderness inventory road that forms a short cherrystem into the proposed LWC unit. There is no obvious purpose to this road and it dead ends at a turnaround. Photopoint 204 shows another cherrystem (BLM Route 7227N) that is a maintained wilderness inventory road that accesses private land and the Cedar Mill ruins. From BLM Route 7227N, the LWC boundary is the BLM property line until it intersects with BLM Route 7227 once again. BLM Route 7227 serves as the Hualapai Mountains Proposed LWC boundary continuing to the southeast.

Traveling south, BLM Route 7227 continues to act as the Hualapai Mountains Proposed LWC unit bound. Photopoint 205 documents a supposed route that the BLM has identified in their route inventory data. However, as Photopoint 205 shows, this is a natural wash; not a road, or a way. Continuing south, Photopoint 206 displays an image of BLM Route 7227 (maintained wilderness inventory road); the proposed LWC unit boundary. Photopoint 207 shows an unnamed, unmaintained way that is revegetating and leads to a feed shack. We have excluded this short loop route and the nearby corral from the unit because of impacts to naturalness.

Farther south, Photopoint 208 documents a maintained wilderness inventory road (BLM Route 7229) that forms a cherrystem into the Hualapai Mountains Proposed LWC unit. Continuing southwest on BLM Route 7229, Photopoint 209 depicts BLM Route 7252, which to the southeast is an unmaintained way in a natural wash with no evidence of construction, and no obvious purpose. To the west of Photopoint 209, BLM Route 7252 becomes the cherrystemmed route that is a maintained wilderness inventory road. To be clear, from Photopoint 209, the cherrystem route changes from BLM Route 7229 (northeast of Photopoint 209) to BLM Route 7252 (west of Photopoint 209). Traveling west up the cherrystem (BLM Route 7252), Photopoint 210 documents BLM Route 7252J, an unmaintained way

that is kept open solely by the passage of vehicles. As Photopoint 210 depicts, this primitive route is revegetating and eroded as it leads to an abandoned mine which is revegetating. From Photopoint 210, the cherrystem continues to the south. Photopoint 211 documents BLM Route 7252A (a cherrystem), which is a maintained wilderness inventory road that ends at a corral. The BLM Route inventory data displays some routes leaving the vicinity of the corral; however, no routes could be located on the ground. Returning to BLM Route 7252, Photopoint 212 shows the continuation of the route as it proceeds to the San Francisco Mine, a defunct operation on private land. Photopoint 213 shows an unused, unmaintained spur that accesses an abandoned water tank and stone corral. Photopoint 214 shows the steep, eroded section of the route leading into the private land. The route and the impacted area have been excluded from the unit due to impacts on naturalness. Continuing to the west, Photopoints 215-224 document various unmaintained ways that either still exist, have been reclaimed, or are just natural washes.

Returning to the eastern Hualapai Mountains Proposed LWC boundary, BLM Route 7227 continues to serve as the unit bound heading south. Photopoint 225 pictures an unmaintained way that is kept open solely by the passage of vehicles. Continuing south, Photopoint 226 documents the southern end of the way displayed in Photopoint 209. As Photopoint 226 shows, this end of the supposed route is just a natural wash. Indeed, even the BLM route inventory data states that this way is “Blocked”. Farther south, Photopoint 227 depicts BLM Route 7227L, which is an unmaintained way that is kept open solely by the passage of vehicles, and appears to end in only 100 feet. To the south, Photopoint 228 documents an unnamed, unmaintained way that is just a natural wash receiving no vehicular use. Photopoint 228 is the southern end of one of the supposed routes that leaves the cherrystemmed corral near Photopoint 211. From the data collected here, the evidence proves that this route does not exist.

BLM Route 7227 continues south as the eastern Hualapai Mountains Proposed LWC unit boundary. Photopoints 229 to 231 document three supposed routes displayed in the BLM route inventory data. These photopoints serves as evidence that none of the three routes actually exist. Photopoint 232 was taken looking up BLM Route 7227 (wilderness inventory road and unit bound). Farther south, Waypoint 27 marks the location of BLM Route 7227E that the BLM has displayed in their route inventory data. However, there was no evidence of this route on the ground, other than a natural wash that is not getting vehicular use. Photopoint 233 documents an unnamed, unmaintained way that enters the proposed LWC unit and appears to be used for camping. Photopoint 234 depicts BLM Route 7227D, which is an unmaintained way that leads to several user-created spurs used for camping. The BLM route inventory data says that this way “Looks like [an] old road- tracks peter out”. Waypoint 28 marks the location of a corral that has been excluded from the proposed LWC unit. To the east, the last point of interest is Photopoint 235, which displays an image of a short, unmaintained way that leads to a scenic viewpoint. From Photopoint 235, BLM Route 7227 continues to serve as the LWC unit bound the rest of the way to Waypoint 1; completing the detailed description of the Hualapai Mountains Proposed LWC unit boundary.

SECTION 4: Photopoint Data

Data Tables & Photographs to accompany Maps and the Detailed Boundary & Routes Description

Attributes	
Title	Photopoint 001
Unit name	Hualapai Mountains
Route name	BLM Route 7253
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 001. Wilderness inventory road; southern proposed LWC unit bound.



Attributes	
Title	Photopoint 002
Unit name	Hualapai Mountains
Route name	BLM Route 7253B
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 002. A short way in a natural wash.



Attributes	
Title	Photopoint 003
Unit name	Hualapai Mountains
Route name	BLM Route 7247
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 003. Primitive route in a dry wash.



Attributes

Title	Photopoint 004
Unit name	Hualapai Mountains
Route name	Along BLM Route 7247
Determination	Way
Maintenance	None
Feature	Windmill

Photopoint 004. A short spur way leads to this windmill.



Attributes

Title	Photopoint 005
Unit name	Hualapai Mountains
Route name	BLM Route 7247
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 005. Erosion along BLM Route 7247.



Attributes

Title	Photopoint 006
Unit name	Hualapai Mountains
Route name	BLM Route 7247B
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

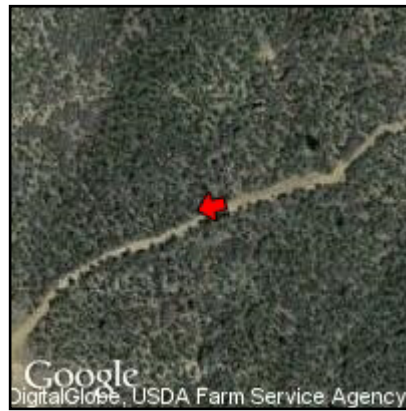
Photopoint 006. A short way leading to a corral & water tank.



Attributes

Title	Photopoint 007
Unit name	Hualapai Mountains
Route name	BLM Route 7247
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 007. More erosion along BLM Route 7247.



Attributes

Title	Photopoint 008
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 008. Looking northwest up a reclaimed way.



Attributes

Title	Photopoint 009
Unit name	Hualapai Mountains
Route name	BLM Route 7247
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 009. Primitive route with exposed pipeline.



Attributes

Title	Photopoint 010
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Erosion

Photopoint 010. An old way that has been reclaimed.



Attributes

Title	Photopoint 011
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not road or way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 011. Another revegetated primitive route.



Attributes

Title	Photopoint 012
Unit name	Hualapai Mountains
Route name	BLM Route 7247
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 012. Primitive route with severe erosion.



Attributes

Title	Photopoint 013
Unit name	Hualapai Mountains
Route name	Above BLM Route 7247
Determination	Foot trail
Maintenance	None
Feature	Severe Erosion

Photopoint 013. Way with pipeline leading from spring.



Attributes

Title	Photopoint 014
Unit name	Hualapai Mountains
Route name	N/A
Determination	N/A
Maintenance	N/A
Feature	Pipeline Spring

Photopoint 014. Spring enclosure.



Attributes

Title	Photopoint 015
Unit name	Hualapai Mountains
Route name	BLM Route 7247A
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 015. Primitive route stemming from BLM Route 7247.



Attributes

Title	Photopoint 016
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 016. A natural wash, not a route.



Attributes

Title	Photopoint 017
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 017. An old way that is now just a cow path.



Attributes

Title	Photopoint 018
Unit name	Hualapai Mountains
Route name	Not a route
Determination	Not a road or a way
Maintenance	N/A
Feature	Fenceline

Photopoint 018. An east-west running fence line.



Attributes

Title	Photopoint 019
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Cow trail

Photopoint 019. Another cow trail.



Attributes

Title	Photopoint 020
Unit name	Hualapai Mountains
Route name	Fenceline
Determination	Not a road or a way
Maintenance	N/A
Feature	Fence line

Photopoint 020. Another fence line that was identified as a potential route in the BLM route inventory.



Attributes

Title	Photopoint 021
Unit name	Hualapai Mountains
Route name	BLM Route 7268
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 021. A primitive route heading northeast.



Attributes	
Title	Photopoint 022
Unit name	Hualapai Mountains
Route name	BLM Route 7245
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 022. A wilderness inventory road that forms a cherrystem into the proposed LWC unit.



Attributes	
Title	Photopoint 023
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 023. A way leading to a campsite.



Attributes	
Title	Photopoint 024
Unit name	Hualapai Mountains
Route name	BLM Route 7268
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 024. A cherrystemmed wilderness inventory road.



Attributes

Title	Photopoint 025
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 025. A revegetating primitive route.



Attributes

Title	Photopoint 026
Unit name	Hualapai Mountains
Route name	BLM Route 7245
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 026. Maintenance has ended on BLM Route 7245.



Attributes

Title	Photopoint 027
Unit name	Hualapai Mountains
Route name	BLM Route 7268
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

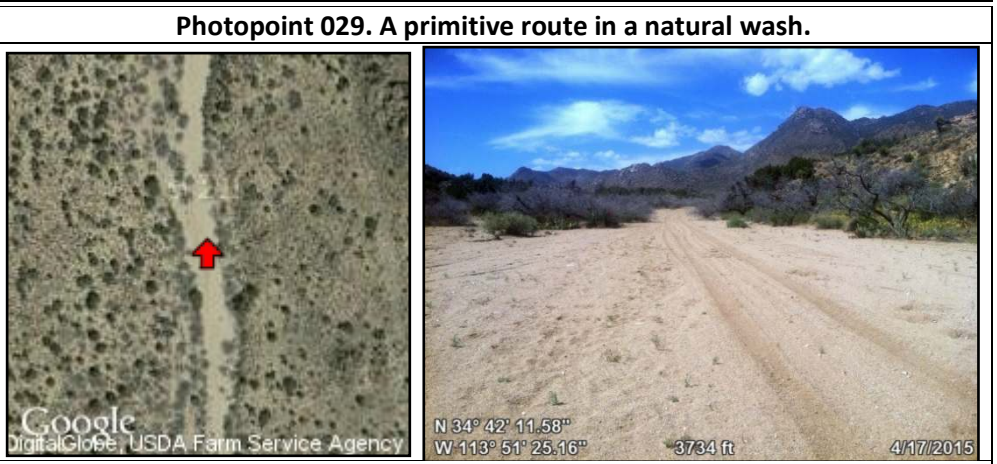
Photopoint 027. Way that leads to the old Beecher homestead.



Attributes	
Title	Photopoint 028
Unit name	Hualapai Mountains
Route name	BLM Route 7268
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way



Attributes	
Title	Photopoint 029
Unit name	Hualapai Mountains
Route name	BLM Route 7245
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way



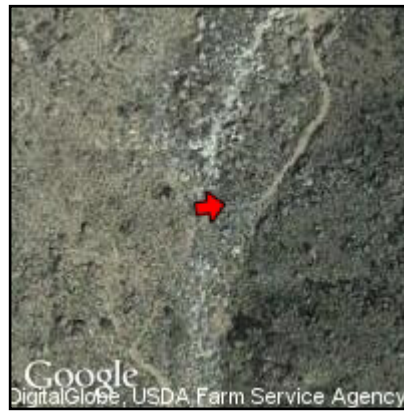
Attributes	
Title	Photopoint 030
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	None
Feature	Worst section of road



Attributes

Title	Photopoint 031
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 031. An extremely rough primitive route.



Attributes

Title	Photopoint 032
Unit name	Hualapai Mountains
Route name	BLM Route 7233 - Mountain View Road
Determination	Road
Maintenance	Periodic blading
Feature	Typical condition of Route/Way

Photopoint 032. Wilderness inventory road; photo taken at southwestern proposed LWC unit corner.



Attributes

Title	Photopoint 033
Unit name	Hualapai Mountains
Route name	BLM Route 7260
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 033. An unmaintained primitive route.



Attributes

Title	Photopoint 034
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 034. An unnamed, unmaintained way.



Attributes

Title	Photopoint 035
Unit name	Hualapai Mountains
Route name	BLM Route 7258
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 035. Wilderness inventory road forming a cherrystem into the proposed LWC unit.



Attributes

Title	Photopoint 036
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 036. A primitive route that nature has reclaimed.



Attributes

Title	Photopoint 037
Unit name	Hualapai Mountains
Route name	BLM Route 7256
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 037. An unneeded primitive route.



Attributes

Title	Photopoint 038
Unit name	Hualapai Mountains
Route name	BLM Routes 7258 & 7256
Determination	Road on left, way on right
Maintenance	Recent blade
Feature	Junction of Routes/Ways

Photopoint 038. Junction of routes.



Attributes

Title	Photopoint 039
Unit name	Hualapai Mountains
Route name	BLM Route 7256
Determination	Road
Maintenance	Recent blade
Feature	Recent maintenance at wash crossing.

Photopoint 039. A maintained section along this road.



Attributes

Title	Photopoint 040
Unit name	Hualapai Mountains
Route name	BLM Route 7256A
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 040. A way that accesses a spring.



Attributes

Title	Photopoint 041
Unit name	Hualapai Mountains
Route name	BLM Route 7256
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 041. An eroded section of BLM Route 7256.



Attributes

Title	Photopoint 042
Unit name	Hualapai Mountains
Route name	Not named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 042. An old primitive route that has been reclaimed.



Attributes

Title	Photopoint 043
Unit name	Hualapai Mountains
Route name	BLM Route 7256B
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 043. A way that is revegetating and in disrepair.



Attributes

Title	Photopoint 044
Unit name	Hualapai Mountains
Route name	BLM Route 7256
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 044. Another primitive route that is eroded.



Attributes

Title	Photopoint 045
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

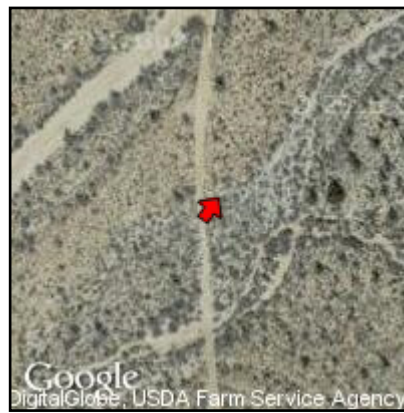
Photopoint 045. A revegetating way.



Attributes

Title	Photopoint 046
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 046. An unused natural wash that the BLM identified as a potential route in their route inventory.



Attributes

Title	Photopoint 047
Unit name	Hualapai Mountains
Route name	BLM Route 7233B
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

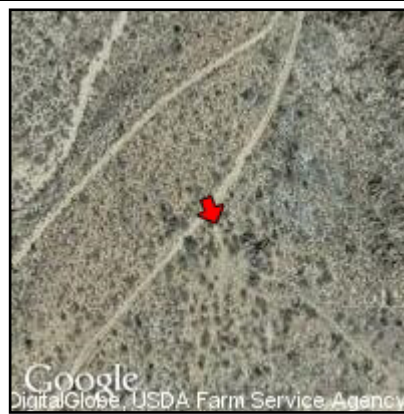
Photopoint 047. A primitive route in a dry wash.



Attributes

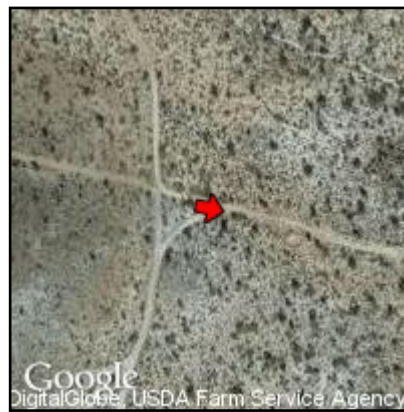
Title	Photopoint 048
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 048. A way as it enters the proposed LWC unit.



Attributes	
Title	Photopoint 049
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 049. This way appears to be kept open solely by the passage of vehicles.



Attributes	
Title	Photopoint 050
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Tight section through boulders. Only wide enough for ATV's.

Photopoint 050. Photograph demonstrates narrowness of this way.



Attributes	
Title	Photopoint 051
Unit name	Hualapai Mountains
Route name	BLM Route 7324
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 051. An unmaintained primitive route.



Attributes

Title	Photopoint 052
Unit name	Hualapai Mountains
Route name	BLM Route 7248A
Determination	Way
Maintenance	None
Feature	Windmill/Corral

Photopoint 052. Broken ranching infrastructure.



Attributes

Title	Photopoint 053
Unit name	Hualapai Mountains
Route name	BLM Route 7248A
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 053. An unmaintained primitive route.



Attributes

Title	Photopoint 054
Unit name	Hualapai Mountains
Route name	BLM Route 7248A
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 054. A way with perennial vegetation growing in the median.



Attributes

Title	Photopoint 055
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 055. Erosion along BLM Route 7248.



Attributes

Title	Photopoint 056
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of way until it meets a natural wash

Photopoint 056. This primitive route is in the process of revegetating.



Attributes

Title	Photopoint 057
Unit name	Hualapai Mountains
Route name	Not a Route
Determination	Not a road or a way
Maintenance	N/A
Feature	Natural wash

Photopoint 057. This natural wash is obviously not getting vehicular use.



Attributes	
Title	Photopoint 058
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 058. This primitive route goes down to Blue Mary Spring.

Attributes	
Title	Photopoint 059
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 059. An unmaintained way.

Attributes	
Title	Photopoint 060
Unit name	Hualapai Mountains
Route name	Not a Route
Determination	Not a road or a way
Maintenance	N/A
Feature	Natural mountainside

Photopoint 060. There is clearly no route here.

Attributes

Title	Photopoint 061
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Off camber sections persist showing lack of maintenance

Photopoint 061. An off-camber section of BLM Route 7248.



Attributes

Title	Photopoint 062
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Narrowness of way

Photopoint 062. A very narrow spot on BLM Route 7248.



Attributes

Title	Photopoint 063
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 063. An exceptionally eroded section of this way.



Attributes	
Title	Photopoint 064
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 064. This way is obviously not mechanically maintained.

The left image is a satellite view from Google Earth showing a dirt path winding through a brushy area, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of the same path, showing a dirt road with tire tracks and a white dog on the right side. The ground is covered with dry grass and shrubs. The photo includes coordinates: N 34° 49' 11.41" and W 113° 52' 25.94", an elevation of 5719 ft, and a date of 4/18/2015.

Attributes	
Title	Photopoint 065
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 065. This leg of BLM Route 7240 is not maintained.

The left image is a satellite view from Google Earth showing a dirt road in a desert landscape, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of the same road, showing a dirt road with tire tracks and desert vegetation. The photo includes coordinates: N 34° 50' 21.78" and W 113° 56' 37.94", an elevation of 3406 ft, and a date of 4/18/2015.

Attributes	
Title	Photopoint 066
Unit name	Hualapai Mountains
Route name	Unnamed section
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 066. A way in a dry wash.

The left image is a satellite view from Google Earth showing a dirt road in a dry wash, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of the same road, showing a dirt road with tire tracks and desert vegetation. The photo includes coordinates: N 34° 50' 22.03" and W 113° 56' 37.42", an elevation of 3402 ft, and a date of 4/18/2015.

Attributes

Title	Photopoint 067
Unit name	Hualapai Mountains
Route name	BLM Routes 7240 & 7244
Determination	Way
Maintenance	None
Feature	Typical condition of Routes

Photopoint 067. Junction of primitive routes.



Attributes

Title	Photopoint 068
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 068. An unmaintained way.



Attributes

Title	Photopoint 069
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 069. Another unmaintained primitive route.



Attributes

Title	Photopoint 070
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 070. This old way has been reclaimed.



Attributes

Title	Photopoint 071
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 071. Severe erosion along BLM Route 7240.



Attributes

Title	Photopoint 072
Unit name	Hualapai Mountains
Route name	BLM Route 7244
Determination	Way
Maintenance	None
Feature	Typical condition of Way until meeting the wash

Photopoint 072. A broken pipeline follows this primitive route.



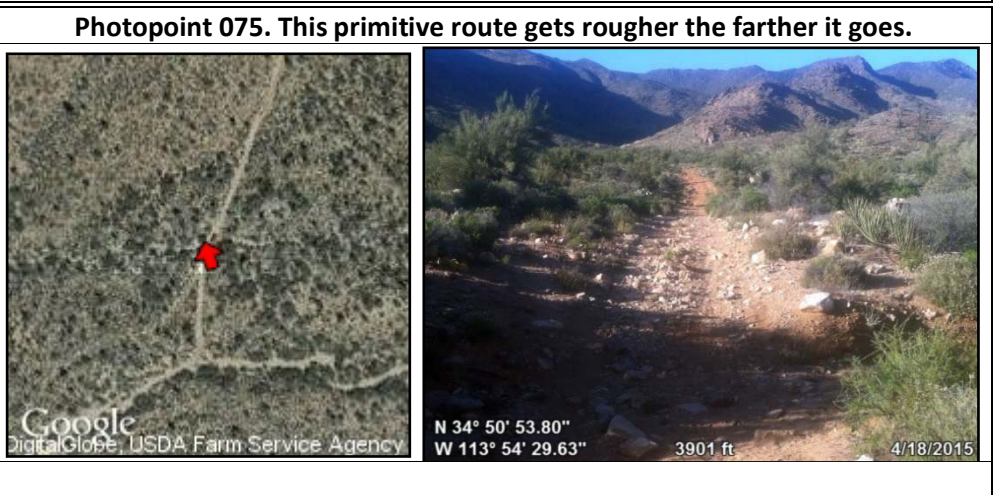
Attributes	
Title	Photopoint 073
Unit name	Hualapai Mountains
Route name	BLM Route 7240C
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way



Attributes	
Title	Photopoint 074
Unit name	Hualapai Mountains
Route name	BLM Route 7240D
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way



Attributes	
Title	Photopoint 075
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way



Attributes	
Title	Photopoint 076
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 076. This primitive route is obviously revegetating.



Attributes	
Title	Photopoint 077
Unit name	Hualapai Mountains
Route name	BLM Route 7240E
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 077. This narrow way is kept open solely by the passage of vehicles.



Attributes	
Title	Photopoint 078
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Vegetation in median indicating lack of maintenance.

Photopoint 078. Vegetation in median indicates a lack of mechanical maintenance.



Attributes	
Title	Photopoint 079
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Fallen boulders narrowed route to ATV only

Photopoint 079. An extremely narrow section of BLM Route 7240.

The left image is a satellite map from Google Earth showing a dirt trail winding through a hilly, brush-covered area. A red arrow points to a specific location on the trail. The right image is a ground-level photograph of a red and black utility vehicle (ATV) parked on a very narrow dirt path. The path is flanked by large, light-colored boulders and sparse vegetation. The background shows rolling hills under a clear sky. Metadata at the bottom of the photo includes coordinates: N 34° 51' 32.46" and W 113° 53' 32.08", an elevation of 4593 ft, and a date of 4/18/2015. The text 'Google DigitalGlobe, USDA Farm Service Agency' is visible in the bottom left of the satellite image.

Attributes	
Title	Photopoint 080
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 080. This way goes just a short distance to an abandoned mine.

The left image is a satellite map from Google Earth showing a dirt trail in a hilly area. A red arrow points to a location on the trail. The right image is a ground-level photograph of a dirt trail winding through a brushy, hilly landscape. The trail is well-defined and appears to be a single-track trail. The background shows rolling hills under a clear sky. Metadata at the bottom of the photo includes coordinates: N 34° 51' 03.09" and W 113° 52' 08.08", an elevation of 6184 ft, and a date of 4/21/2015. The text 'Google DigitalGlobe, USDA Farm Service Agency' is visible in the bottom left of the satellite image.

Attributes	
Title	Photopoint 081
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed/Trail
Maintenance	None
Feature	Revegetated

Photopoint 081. This old way has clearly been reclaimed.

The left image is a satellite map from Google Earth showing a dirt trail in a hilly area. A red arrow points to a location on the trail. The right image is a ground-level photograph of a dirt trail winding through a brushy, hilly landscape. The trail is well-defined and appears to be a single-track trail. The background shows rolling hills under a clear sky. Metadata at the bottom of the photo includes coordinates: N 34° 51' 04.83" and W 113° 52' 07.99", an elevation of 6181 ft, and a date of 4/21/2015. The text 'Google DigitalGlobe, USDA Farm Service Agency' is visible in the bottom left of the satellite image.

Attributes	
Title	Photopoint 082
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 082. This way in a dry wash contains no signs of maintenance.



Attributes	
Title	Photopoint 083
Unit name	Hualapai Mountains
Route name	BLM Route 7332
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 083. This way is kept open solely by the passage of vehicles.



Attributes	
Title	Photopoint 084
Unit name	Hualapai Mountains
Route name	BLM Route 7240 - Mountain View Road
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 084. Looking down a wilderness inventory road.



Attributes	
Title	Photopoint 085
Unit name	Hualapai Mountains
Route name	BLM Route 7101 - Borianna Mine Road
Determination	Road
Maintenance	Recent blade, earthwork, and new culvert
Feature	Typical condition of Route/Way

Photopoint 085. This wilderness inventory road serves as the northwestern bound for the proposed LWC unit.



Google DigitalGlobe, USDA Farm Service Agency
 N 34° 53' 18.78"
 W 113° 57' 40.16" 3323 ft 4/19/2015

Attributes	
Title	Photopoint 086
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Entrance has become borrow pit

Photopoint 086. A borrow pit blocks the entrance to this reclaimed way.



Google DigitalGlobe, USDA Farm Service Agency
 N 34° 53' 42.42"
 W 113° 56' 54.64" 3504 ft 4/19/2015

Attributes	
Title	Photopoint 087
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 087. An old way that has been reclaimed.



Google DigitalGlobe, USDA Farm Service Agency
 N 34° 53' 45.45"
 W 113° 56' 52.17" 3537 ft 4/19/2015

Attributes	
Title	Photopoint 088
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 088. This way contains no signs of construction or maintenance, and is revegetating.



Attributes	
Title	Photopoint 089
Unit name	Hualapai Mountains
Route name	BLM Route 7101W
Determination	Road
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 089. This rough road leads to an abandoned mine on BLM and private property. The area is excluded from the unit.





Attributes	
Title	Photopoint 090
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetated

Photopoint 090. This unnamed way is in the process of being reclaimed by nature.



Attributes	
Title	Photopoint 091
Unit name	Hualapai Mountains
Route name	BLM Route 7101U - goes to spring
Determination	Way
Maintenance	None
Feature	Spring

Photopoint 091. The spring in this photo is accessed via the primitive route to the right.

N 34° 55' 58.84"
W 113° 55' 18.25" 4754 ft 4/19/2015

Attributes	
Title	Photopoint 092
Unit name	Hualapai Mountains
Route name	BLM Route 7101S
Determination	Way
Maintenance	None
Feature	Naturalizing

Photopoint 092. This way is clearly not maintained.




N 34° 56' 24.13"
W 113° 54' 39.55" 5794 ft 4/19/2015

Attributes	
Title	Photopoint 093
Unit name	Hualapai Mountains
Route name	BLM Route 7220
Determination	Way
Maintenance	None
Feature	Naturalizing

Photopoint 093. This way is kept open solely by the passage of vehicles.




N 34° 56' 26.82"
W 113° 54' 31.08" 5735 ft 4/19/2015

Attributes	
Title	Photopoint 094
Unit name	Hualapai Mountains
Route name	BLM Route 7220
Determination	Way
Maintenance	None
Feature	Too narrow for trucks

Photopoint 094. This narrow primitive route is in the process of becoming a trail.



Attributes	
Title	Photopoint 095
Unit name	Hualapai Mountains
Route name	BLM Route 7220A
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 095. An antique car was left next to this unmaintained primitive route that is revegetating.



Attributes	
Title	Photopoint 096
Unit name	Hualapai Mountains
Route name	BLM Route 7222A
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 096. A short spur way that is naturalizing.



Attributes

Title	Photopoint 097
Unit name	Hualapai Mountains
Route name	BLM Route 7220
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 097. Another photo of BLM Route 7220.



Attributes

Title	Photopoint 098
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 098. This short spur way leads to an abandoned mine.



Attributes

Title	Photopoint 099
Unit name	Hualapai Mountains
Route name	N/A
Determination	N/A
Maintenance	N/A
Feature	Very old abandoned mine.

Photopoint 099. There is no route on the hillside in this picture. This is the abandoned mine that is naturalizing.



Attributes

Title	Photopoint 100
Unit name	Hualapai Mountains
Route name	BLM Route 7220
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 100. Another image of BLM Route 7220.



Attributes

Title	Photopoint 101
Unit name	Hualapai Mountains
Route name	BLM Route 7101 Boriana Mine Road
Determination	Road
Maintenance	Periodic improvements
Feature	Scenic/Landscape

Photopoint 101. Wilderness inventory road (northwestern unit bound).



Attributes

Title	Photopoint 102
Unit name	Hualapai Mountains
Route name	BLM Route 7101R
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 102. This short unmaintained way leads to a campsite.



Attributes

Title	Photopoint 103
Unit name	Hualapai Mountains
Route name	BLM Route 7206
Determination	Way
Maintenance	None
Feature	Near where it meets Rt 7101

Photopoint 103. A narrow and rough unmaintained way used by 4-WD vehicles.



Attributes

Title	Photopoint 104
Unit name	Hualapai Mountains
Route name	BLM Route 7206
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 104. This way is not being maintained.



Attributes

Title	Photopoint 105
Unit name	Hualapai Mountains
Route name	BLM Route 7206
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 105. BLM Route 7206 continues to lack signs of maintenance as it turns to the north. It is very narrow and brushy through this section.



Attributes	
Title	Photopoint 106
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 106. A loose, eroded section of BLM Route 7216.

The left image is a satellite view from Google Earth showing a dirt road winding through a grassy area, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of a dirt road on a rocky, eroded hillside. The ground is uneven and composed of loose soil and rocks. The sky is blue with some clouds.

Google
DigitalGlobe, USDA Farm Service Agency

N 34° 59' 59.91"
W 113° 52' 26.05" 6066 ft 4/20/2015

Attributes	
Title	Photopoint 107
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 107. Abundant vegetation indicates a lack of maintenance.

The left image is a satellite view from Google Earth showing a dirt road winding through a grassy area, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of a dirt road on a hillside. The road is heavily overgrown with green vegetation, including bushes and small trees, indicating a lack of maintenance. The sky is blue with some clouds.

Google
DigitalGlobe, USDA Farm Service Agency

N 34° 59' 46.68"
W 113° 52' 30.18" 5807 ft 4/20/2015

Attributes	
Title	Photopoint 108
Unit name	Hualapai Mountains
Route name	BLM Route 7200
Determination	Road
Maintenance	Old evidence
Feature	Typical condition of Route/Way

Photopoint 108. Wilderness inventory road at beginning of northern proposed LWC boundary. This is the top of the popular Moss Wash OHV Trail.

The left image is a satellite view from Google Earth showing a dirt road winding through a grassy area, with a red arrow pointing to a specific spot. The right image is a ground-level photograph of a dirt road on a hillside. The road is well-defined and appears to be a popular trail. The sky is blue with some clouds.

Google
DigitalGlobe, USDA Farm Service Agency

N 35° 01' 43.06"
W 113° 54' 17.36" 6283 ft 4/20/2015

Attributes

Title	Photopoint 109
Unit name	Hualapai Mountains
Route name	BLM Route 7200 - Moss Wash OHV Trail
Determination	Road
Maintenance	Old evidence
Feature	Moss Wash OHV Trail

Photopoint 109. Moss Wash OHV Trail (northern LWC bound).



Attributes

Title	Photopoint 110
Unit name	Hualapai Mountains
Route name	BLM Route 7207E
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 110. An unmaintained way.



Attributes

Title	Photopoint 111
Unit name	Hualapai Mountains
Route name	BLM Route 7207 Cedar Wash Road
Determination	Road
Maintenance	Recent blade in places
Feature	Typical condition of Route/Way

Photopoint 111. Wilderness inventory road (part of northern LWC unit bound).



Attributes

Title	Photopoint 112
Unit name	Hualapai Mountains
Route name	BLM Route 7207F
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

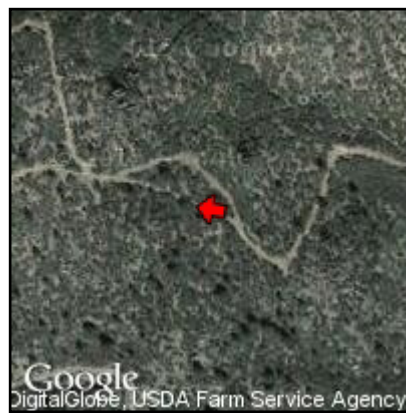
Photopoint 112. This narrow way is kept open solely by the passage of vehicles.



Attributes

Title	Photopoint 113
Unit name	Hualapai Mountains
Route name	BLM Route 7206
Determination	Way
Maintenance	None
Feature	Revegetated

Photopoint 113. This primitive route is eroding. And less than six feet wide.



Attributes

Title	Photopoint 114
Unit name	Hualapai Mountains
Route name	BLM Route 7206A
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 114. This unmaintained way gets no vehicular use.



Attributes

Title	Photopoint 115
Unit name	Hualapai Mountains
Route name	Not named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 115. This way has never been maintained.



Attributes

Title	Photopoint 116
Unit name	Hualapai Mountains
Route name	BLM Route 7206
Determination	Way
Maintenance	None
Feature	Erosion

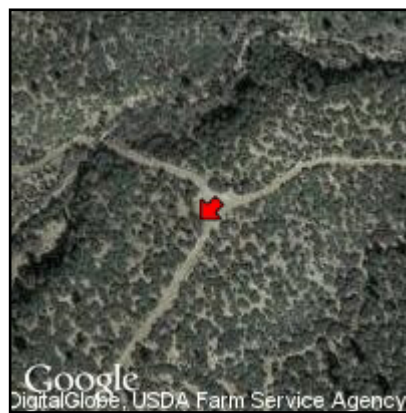
Photopoint 116. This way is loose, narrow, and eroded.



Attributes

Title	Photopoint 117
Unit name	Hualapai Mountains
Route name	BLM Route 7207
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 117. Wilderness inventory road that forms a cherrystem going south into the proposed LWC unit.



Attributes

Title	Photopoint 118
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 118. This old way has been reclaimed.



Attributes

Title	Photopoint 119
Unit name	Hualapai Mountains
Route name	BLM Route 7207G
Determination	Road
Maintenance	Recent earthwork
Feature	Typical condition of Route/Way

Photopoint 119. This wilderness inventory road and the stock tank that is leads to have been excluded from the proposed LWC unit.



Attributes

Title	Photopoint 120
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Trail/Reclaimed
Maintenance	None
Feature	Bulldozed closed recently

Photopoint 120. This old way is impassable for vehicles and becoming a trail.



Attributes

Title	Photopoint 121
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Brushy trail
Maintenance	None
Feature	Revegetated

Photopoint 121. This old primitive route is now just a trail.



Attributes

Title	Photopoint 122
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 122. This way is not being maintained.



Attributes

Title	Photopoint 123
Unit name	Hualapai Mountains
Route name	BLM Route 7216C
Determination	Way/Trail
Maintenance	None
Feature	Typical condition of Trail

Photopoint 123. This way is naturalizing and becoming a trail.



Attributes	
Title	Photopoint 124
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Completely washed out section in wash.

Photopoint 124. This way is clearly not maintained where it follows Blue Tank Wash. This section is virtually impassable.

Attributes	
Title	Photopoint 125
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Road
Maintenance	Recent blade & brushing
Feature	Recently worked section

Photopoint 125. Signs of recent maintenance on this cherrystem which leads to a recently improve earthen bermed water tank.

Attributes	
Title	Photopoint 126
Unit name	Hualapai Mountains
Route name	Not named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 126. This natural wash receives no vehicluar use.

Attributes

Title	Photopoint 127
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 127. This way is growing in with vegetation and is not used



Attributes

Title	Photopoint 128
Unit name	Hualapai Mountains
Route name	BLM Route 7216D
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 128. This way is kept open only by the passage of vehicles.



Attributes

Title	Photopoint 129
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 129. This way would make a nice trail. It is part of network of abandoned prospecting routes that provide opportunities for hiking and horseback riding.



Attributes	
Title	Photopoint 130
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	End of recent maintenance

Photopoint 130. BLM Route 7216 becomes a primitive route after the stock tank seen in the aerial photo.



Attributes	
Title	Photopoint 131
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 131. This old way has been fully reclaimed.



Attributes	
Title	Photopoint 132
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent earthwork
Feature	End of route where recent earthwork has made next portion of route inaccessible

Photopoint 132. Recent earthwork at a corral along the northern unit boundary that has blocked off old way seen in Photopoint 133.



Attributes	
Title	Photopoint 133
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 133. This old route is now used primarily by cows.

Attributes	
Title	Photopoint 134
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 134. There is no route here.

Attributes	
Title	Photopoint 135
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Erosion typical

Photopoint 135. This is an unmaintained way but is heavily used by jeepers who turn around at the bottom of the hill.

Attributes	
Title	Photopoint 136
Unit name	Hualapai Mountains
Route name	BLM Route 7216
Determination	Way
Maintenance	None
Feature	Vegetation and washbed shows no signs of travel

Photopoint 136. This primitive route is growing in with vegetation and is virtually impassable except by expert off-road drivers. The other end of this route is even more washed out



Attributes	
Title	Photopoint 137
Unit name	Hualapai Mountains
Route name	BLM Route 7206 - Cedar Wash Road
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 137. Photo taken at northeastern unit corner of the proposed LWC looking down this wilderness inventory road.



Attributes	
Title	Photopoint 138
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 138. This primitive route gets very little use.



Attributes	
Title	Photopoint 139
Unit name	Hualapai Mountains
Route name	BLM Route 7163 - Blake Ranch Road
Determination	Road
Maintenance	Recent blade
Feature	LWC Unit corner

Photopoint 139. Wilderness inventory road looking north.

Attributes	
Title	Photopoint 140
Unit name	Hualapai Mountains
Route name	BLM Route 7328
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 140. BLM Route 7328 has been reclaimed by nature.

Attributes	
Title	Photopoint 141
Unit name	Hualapai Mountains
Route name	BLM Route 7222E
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 141. BLM Route 7222E forms a short segment of the eastern proposed LWC unit bound.

Attributes

Title	Photopoint 142
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 142. There is no route here.



Attributes

Title	Photopoint 143
Unit name	Hualapai Mountains
Route name	BLM Route 7222
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 143. A cherrystem and wilderness inventory road.



Attributes

Title	Photopoint 144
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 144. Signs of recent maintenance.



Attributes

Title	Photopoint 145
Unit name	Hualapai Mountains
Route name	BLM Route 7222G
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 145. No signs of maintenance along this way.



Attributes

Title	Photopoint 146
Unit name	Hualapai Mountains
Route name	BLM Route 7222H
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 146. A short cherrystem spur road.



Attributes

Title	Photopoint 147
Unit name	Hualapai Mountains
Route name	BLM Routes 7351 (left) and 7222 (right)
Determination	Roads
Maintenance	Recent blade
Feature	Junction of Routes/Ways

Photopoint 147. Junction of two wilderness inventory roads.



Attributes

Title	Photopoint 148
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 148. An unmaintained way.



Attributes

Title	Photopoint 149
Unit name	Hualapai Mountains
Route name	BLM Route 7222J
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 149. This primitive route receives no maintenance.



Attributes

Title	Photopoint 150
Unit name	Hualapai Mountains
Route name	BLM Route 7222I
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 150. This narrow way is growing in with vegetation.



Attributes	
Title	Photopoint 151
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 151. This primitive route is becoming a trail.

Attributes	
Title	Photopoint 152
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 152. This old route has been reclaimed.

Attributes	
Title	Photopoint 153
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Wash crossing showing no evidence of any route

Photopoint 153. There are no signs of a route here.

Attributes

Title	Photopoint 154
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Only barway through fence to access abandoned route showing no signs of use.

Photopoint 154. Vehicles are not using this barway.



Attributes

Title	Photopoint 155
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Untracked desert- no route found

Photopoint 155. No route exists here.



Attributes

Title	Photopoint 156
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 156. This old way has been reclaimed.



Attributes

Title	Photopoint 157
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 157. Nature has taken back this old primitive route.



Attributes

Title	Photopoint 158
Unit name	Hualapai Mountains
Route name	BLM Route 7351A
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 158. No signs of maintenance along this way.



Attributes

Title	Photopoint 159
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 159. This old way has grown in.



Attributes	
Title	Photopoint 160
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 160. No vehicles are using this natural wash.

Google DigitalGlobe, USDA Farm Service Agency

N 34° 55' 07.35"
W 113° 49' 49.60" 4311 ft 4/22/2015

Attributes	
Title	Photopoint 161
Unit name	Hualapai Mountains
Route name	BLM Route 7351
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 161. This primitive route is not being maintained.

Google DigitalGlobe, USDA Farm Service Agency

N 34° 55' 05.26"
W 113° 49' 59.01" 4344 ft 4/22/2015

Attributes	
Title	Photopoint 162
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent earthwork
Feature	Typical condition of Route/Way

Photopoint 162. This wilderness inventory road forms a cherrystem leading to a well.

Google DigitalGlobe, USDA Farm Service Agency

N 34° 55' 50.57"
W 113° 45' 28.85" 3524 ft 4/22/2015

Attributes

Title	Photopoint 163
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 163. This way is kept open solely by the passage of vehicles.



Attributes

Title	Photopoint 164
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 164. This road is forms a portion of the eastern LWC boundary.



Attributes

Title	Photopoint 165
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 165. This section of this unnamed way is not maintained.



Attributes

Title	Photopoint 166
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

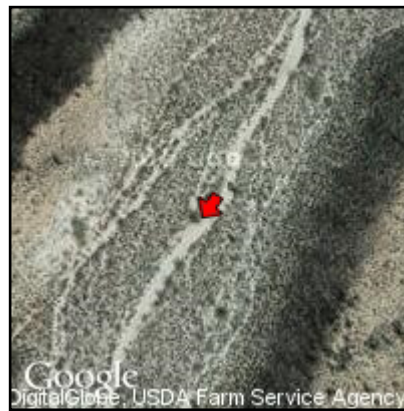
Photopoint 166. Unnamed wilderness inventory road.



Attributes

Title	Photopoint 167
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Road
Maintenance	Recent earthwork
Feature	Typical condition of Route/Way

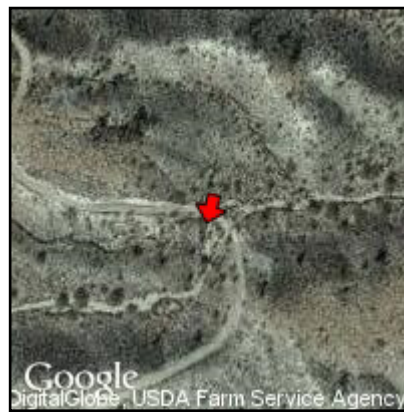
Photopoint 167. This wilderness inventory road accesses a stock tank.



Attributes

Title	Photopoint 168
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 168. This natural wash receives no vehicular use.



Attributes

Title	Photopoint 169
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 169. Another natural wash with no signs of use.



Attributes

Title	Photopoint 170
Unit name	Hualapai Mountains
Route name	BLM Route 7239
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 170. Wilderness inventory road and powerline.



Attributes

Title	Photopoint 171
Unit name	Hualapai Mountains
Route name	BLM Route 7242
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 171. This wilderness inventory road leads to a couple of wells.



Attributes	
Title	Photopoint 172
Unit name	Hualapai Mountains
Route name	BLM Route 7242
Determination	Way
Maintenance	None
Feature	End of maintained road

Photopoint 172. Maintenance ends after second well, which can be seen in the aerial photo below (left).



Attributes	
Title	Photopoint 173
Unit name	Hualapai Mountains
Route name	BLM Route 7243
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 173. An unmaintained way.



Attributes	
Title	Photopoint 174
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Natural wash

Photopoint 174. A primitive route in a dry wash.



Attributes

Title	Photopoint 175
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

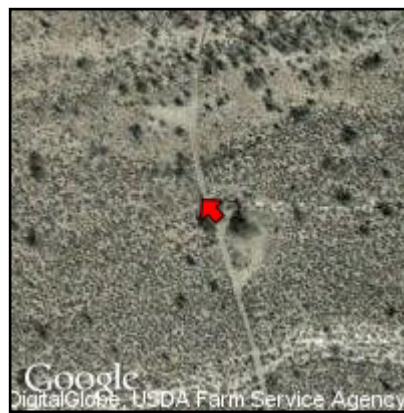
Photopoint 175. Unit boundary road.



Attributes

Title	Photopoint 176
Unit name	Hualapai Mountains
Route name	BLM Route 7243
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 176. This way is clearly not maintained.



Attributes

Title	Photopoint 177
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 177. Another unmaintained primitive route that is growing in with perennial shrubs.



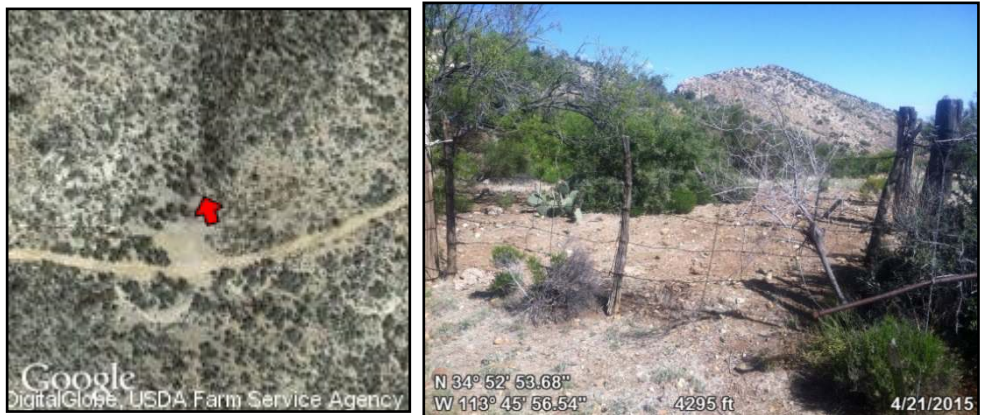
Attributes	
Title	Photopoint 178
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 178. BLM Route 7240 becomes the proposed LWC unit bound once again.



Attributes	
Title	Photopoint 179
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 179. This old way has been reclaimed.



Attributes	
Title	Photopoint 180
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 180. This primitive route has grown in.



Attributes

Title	Photopoint 181
Unit name	Hualapai Mountains
Route name	BLM Route 7240F
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 181. Another reclaimed way with no evidence of vehicular use.



Attributes

Title	Photopoint 182
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Road
Maintenance	Old evidence
Feature	Typical condition of Route/Way

Photopoint 182. This cherrystem accesses private property.



Attributes

Title	Photopoint 183
Unit name	Hualapai Mountains
Route name	BLM Route 7240
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 183. BLM Route 7240 as it leaves the private property.



Attributes	
Title	Photopoint 184
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 184. This way is very narrow and receives no maintenance.

The left image is a satellite view from Google Earth showing a narrow dirt path winding through a hilly, vegetated area. A red arrow points to the path. The right image is a ground-level photograph of the same path, showing it is very narrow and surrounded by dense brush and trees. The path appears to be in poor condition.

Coordinates: N 34° 51' 13.14" W 113° 51' 09.68" Elevation: 5686 ft Date: 4/21/2015

Attributes	
Title	Photopoint 185
Unit name	Hualapai Mountains
Route name	BLM Route 7250
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 185. Maintained wilderness inventory road.

The left image is a satellite view from Google Earth showing a wider dirt road winding through a hilly area. A red arrow points to the road. The right image is a ground-level photograph of the same road, showing it is well-maintained and wider than the previous photopoint. The road is surrounded by dense vegetation.

Coordinates: N 34° 51' 19.39" W 113° 48' 47.66" Elevation: 4672 ft Date: 4/21/2015

Attributes	
Title	Photopoint 186
Unit name	Hualapai Mountains
Route name	BLM Route 7219
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 186. Wilderness inventory road and proposed LWC boundary.

The left image is a satellite view from Google Earth showing a dirt road winding through a hilly area. A red arrow points to the road. The right image is a ground-level photograph of the same road, showing it is well-maintained and wider than the previous photopoints. The road is surrounded by sparse vegetation and hills.

Coordinates: N 34° 50' 48.51" W 113° 47' 41.98" Elevation: 4606 ft Date: 4/21/2015

Attributes

Title	Photopoint 187
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 187. A maintained wilderness inventory road.



Attributes

Title	Photopoint 188
Unit name	Hualapai Mountains
Route name	BLM Route 7248C
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 188. This primitive route is not maintained. It leads to an AZGFD wildlife water catchment that was built in 1966 and has fallen into disrepair.



Attributes

Title	Photopoint 189
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 189. This way has vegetation growing in its median, indicating a lack of maintenance.



Attributes

Title	Photopoint 190
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 190. Obviously not a road or a way.



Attributes

Title	Photopoint 191
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Road
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 191. Portion of the eastern proposed LWC unit boundary.



Attributes

Title	Photopoint 192
Unit name	Hualapai Mountains
Route name	BLM Route 7248B
Determination	Road
Maintenance	Old evidence
Feature	Typical condition of Route/Way

Photopoint 192. This wilderness inventory road provides access to a feed trough.



Attributes

Title	Photopoint 193
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Maintenance has obviously ended.

Photopoint 193. Severe erosion along BLM Route 7248.



Attributes

Title	Photopoint 194
Unit name	Hualapai Mountains
Route name	BLM Route 7359
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 194. Long-lived shrubs are growing into this primitive route.



Attributes

Title	Photopoint 195
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 195. A rough, unmaintained way.



Attributes

Title	Photopoint 196
Unit name	Hualapai Mountains
Route name	BLM Route 7248
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 196. BLM Route 7248 is in very rough shape.



Attributes

Title	Photopoint 197
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Revegetating

Photopoint 197. This way is not maintained.



Attributes

Title	Photopoint 198
Unit name	Hualapai Mountains
Route name	BLM Route 7227
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 198. Wilderness inventory road.



Attributes

Title	Photopoint 199
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 199. This natural wash gets no vehicular use.



Attributes

Title	Photopoint 200
Unit name	Hualapai Mountains
Route name	BLM Route 7227U
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 200. This is a narrow, unmaintained way. It leads to an AZGFD wildlife water catchment that was built in 1966 and has fallen into disrepair.



Attributes

Title	Photopoint 201
Unit name	Hualapai Mountains
Route name	BLM Route 7227S
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 201. This primitive route has no clear purpose.



Attributes	
Title	Photopoint 202
Unit name	Hualapai Mountains
Route name	BLM Route 7227P
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 202. This wilderness inventory road forms a portion of the eastern unit bound for just a short distance.



Attributes	
Title	Photopoint 203
Unit name	Hualapai Mountains
Route name	BLM Route 7227O
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 203. This wilderness inventory road shows signs of recent maintenance.



Attributes	
Title	Photopoint 204
Unit name	Hualapai Mountains
Route name	BLM Route 7227N
Determination	Road
Maintenance	Recent earthwork
Feature	Typical condition of Route/Way

Photopoint 204. This cherrystem leads to the Cedar Mill ruins.



Attributes

Title	Photopoint 205
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 205. This natural wash gets no vehicular use.



Attributes

Title	Photopoint 206
Unit name	Hualapai Mountains
Route name	BLM Route 7227
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 206. A maintained wilderness inventory road.



Attributes

Title	Photopoint 207
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way; excluded for naturalness
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 207. This way leads to a feed shack near the corral, both are excluded from the unit.



Attributes	
Title	Photopoint 208
Unit name	Hualapai Mountains
Route name	BLM Route 7229
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 208. This wilderness inventory road forms a cherrystem into the proposed LWC unit to access a corral and private land at the San Francisco Mine, which is long since abandoned but excluded for naturalness.



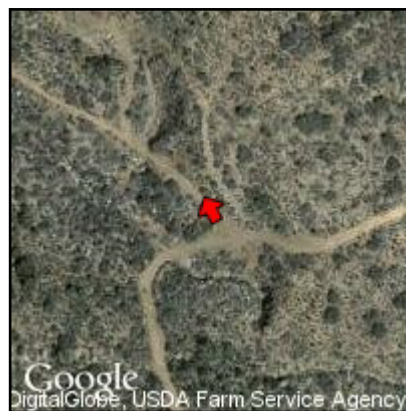
Attributes	
Title	Photopoint 209
Unit name	Hualapai Mountains
Route name	BLM Route 7252
Determination	Way
Maintenance	None
Feature	Natural wash

Photopoint 209. This dry wash contains signs that it gets occasional vehicular use.



Attributes	
Title	Photopoint 210
Unit name	Hualapai Mountains
Route name	BLM Route 7252J
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 210. This way is kept open solely by the passage of vehicles. It once accessed mine prospects which have been abandoned for decades.



Attributes	
Title	Photopoint 211
Unit name	Hualapai Mountains
Route name	BLM Route 7252A
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 211. BLM Route 7252A forms a cherrystem into the proposed LWC unit because it is a maintained road.



Attributes	
Title	Photopoint 212
Unit name	Hualapai Mountains
Route name	BLM Route 7252
Determination	Road
Maintenance	None
Feature	Condition of Route at this point

Photopoint 212. This cherrystemmed road leads to the San Francisco Mine private land.



Attributes	
Title	Photopoint 213
Unit name	Hualapai Mountains
Route name	BLM Route 7334A
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 213. This is a very short, unmaintained spur at an abandoned water tank and stone corral.



Attributes	
Title	Photopoint 214
Unit name	Hualapai Mountains
Route name	BLM Route 7334
Determination	Way
Maintenance	None
Feature	Typical condition of way, severely eroded

Photopoint 214. Erosion is evident along BLM Route 7334, but the route is excluded because it leads to private land and it is an impact to naturalness.



Attributes	
Title	Photopoint 215
Unit name	Hualapai Mountains
Route name	BLM Route 7252
Determination	Way
Maintenance	None
Feature	Erosion

Photopoint 215. An extremely eroded hillside on BLM Route 7252 which leads to abandoned mine projects which are now revegetating.



Attributes	
Title	Photopoint 216
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 216. An unnamed, unmaintained way.



Attributes

Title	Photopoint 217
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

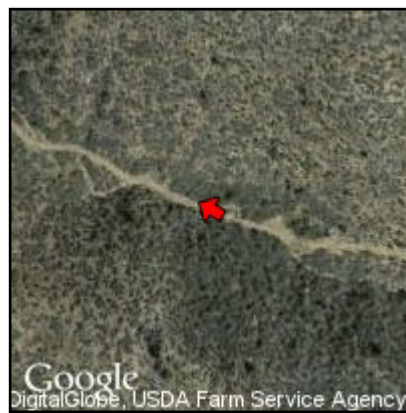
Photopoint 217. This old primitive route has naturalized.



Attributes

Title	Photopoint 218
Unit name	Hualapai Mountains
Route name	BLM Route 7252
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 218. Another photo of BLM Route 7252 lacking maintenance.



Attributes

Title	Photopoint 219
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 219. A reclaimed primitive route with no signs of use.



Attributes

Title	Photopoint 220
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 220. Another primitive route that has naturalized.



Attributes

Title	Photopoint 221
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 221. This natural wash is not a road or a way.



Attributes

Title	Photopoint 222
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 222. This is clearly not a way used by vehicles.



Attributes	
Title	Photopoint 223
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Erosion & revegetating



Photopoint 223. This way has become impassable for vehicles.




N 34° 45' 37.38"
W 113° 50' 38.21" 5469 ft 4/16/2015

Attributes	
Title	Photopoint 224
Unit name	Hualapai Mountains
Route name	End of BLM Route 7252
Determination	Way
Maintenance	None
Feature	Revegetated



Photopoint 224. Ways associated with abandoned mine prospects are growing in and naturalizing.

N 34° 45' 36.83"
W 113° 50' 38.69" 5509 ft 4/16/2015

Attributes	
Title	Photopoint 225
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 225. This primitive route is not being maintained.

N 34° 45' 12.49"
W 113° 46' 39.53" 3773 ft 4/16/2015

Attributes

Title	Photopoint 226
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural Wash

Photopoint 226. This is not a road or a way.



Attributes

Title	Photopoint 227
Unit name	Hualapai Mountains
Route name	BLM Route 7227L
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 227. A short unmaintained spur way.



Attributes

Title	Photopoint 228
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural Wash

Photopoint 228. This natural wash receives no vehicular use.



Attributes

Title	Photopoint 229
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 229. This natural wash contains no evidence of use.



Attributes

Title	Photopoint 230
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Not a road or a way
Maintenance	None
Feature	Natural wash

Photopoint 230. This is clearly not a road or a way.



Attributes

Title	Photopoint 231
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Reclaimed
Maintenance	None
Feature	Revegetated

Photopoint 231. This old way has revegetated.



Attributes	
Title	Photopoint 232
Unit name	Hualapai Mountains
Route name	BLM Route 7227
Determination	Road
Maintenance	Recent blade
Feature	Typical condition of Route/Way

Photopoint 232. Looking west down this wilderness inventory road that serves as the proposed LWC boundary for much of the southeastern unit border.



Attributes	
Title	Photopoint 233
Unit name	Hualapai Mountains
Route name	Not Named
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 233. This short unnamed way is mostly likely used for camping.



Attributes	
Title	Photopoint 234
Unit name	Hualapai Mountains
Route name	BLM Route 7227D
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 234. This primitive route leads to several campsites.



Attributes	
Title	Photopoint 235
Unit name	Hualapai Mountains
Route name	BLM Route 7227B
Determination	Way
Maintenance	None
Feature	Typical condition of Route/Way

Photopoint 235. A short unmaintained way that goes to a scenic viewpoint.

