

TERM GRAZING PERMIT - PARTS 1 AND 2
(Reference FSM 2230)

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 Permittee Number
R02019
 Permit Number
05019

PART 1

█ of █ hereinafter
 (Name of Permittee) (Post Office Address, Including Zip)
 called the permittee, is hereby authorized to graze livestock owned by the permittee upon designated lands administered by the Forest Service within the Apache-Sitgreaves (X appropriate box)
 National Forest National Grassland under the following terms and conditions:

1. Description of range. The livestock shall be grazed only upon the area described as follows: described on attached page and/or delineated on the attached map dated 12/15/2011, which is part of this permit. (Strike out item or items not applicable.)

2. The number, kind, and class of livestock, period of use, and grazing allotment on which the livestock are permitted to graze are as follows, unless modified by the Forest Service in the Bill for Collection:

LIVESTOCK			PERIOD OF USE		GRAZING ALLOTMENT
NUMBER	KIND	CLASS	FROM	TO	
█	Cattle	C/C	05/01	10/31	Heber

3. It is fully understood and agreed that this permit may be suspended or cancelled, in whole or in part, after written notice, for failure to comply with any of the terms and conditions specified in Parts 1, 2, and 3 hereof, or any of the regulations of the Secretary of Agriculture on which this permit is based, or the instructions of Forest officers issued thereunder; or for knowingly and willingly making a false statement or representation in the permittee's grazing application, and amendments thereto; or for conviction for failure to comply with Federal laws or regulations or State and local laws relating to livestock control and to protection of air, water, soils and vegetation, fish and wildlife, and other environmental values when exercising the grazing use authorized by the permit. This permit can also be cancelled, in whole or in part, or otherwise modified, at any time during the term to conform with needed changes brought about by law, regulation, Executive order, allotment management plans, land management planning, numbers permitted or seasons of use necessary because of resource conditions, or the lands described otherwise being unavailable for grazing. Any suspension or cancellation action may be appealed pursuant to 36 CFR 251, Subpart C.

4. This permit supersedes permit 02020 issued September 10, 2001 to John F. Seibert & Cecilia M. Seibert dba: Seibert Cattle Co., LLC

I HAVE REVIEWED AND ACCEPT THE TERMS OF THIS PERMIT

SIGNATURE OF PERMITTEE OR HIS AUTHORIZED AGENT			DATE
█			12-27-11
SIGNATURE OF FOREST OFFICER	NAME (PRINT)	TITLE	DATE
<i>Dex Hines</i>	Dex Hines	District Ranger	12/27/11

PART 2 - GENERAL TERMS AND CONDITIONS

- 1. Validation of Permit.** The issuance of a Bill for Collection, payment of fees and actual turning on at least 90 percent of livestock the first grazing season after the permit is issued will validate this permit for the number, kind, and class of livestock, grazing allotment, and period of use for the particular year.
- 2. Bill for Collection.** Each year, after validation and prior to the beginning of the grazing season, the Forest Service will send the permittee a Bill for Collection specifying for the current year the kind, number, and class of livestock allowed to graze, the period of use, the grazing allotment, and the grazing fees. This bill, when paid, authorizes use for that year and becomes part of this permit.
- 3. Payment of Fees.** The permittee will not allow owned or controlled livestock to be on Forest Service-administered lands unless the fees specified in the Bill for Collection are paid.
- 4. Administrative Offset and Credit Reporting.** Pursuant to 31 USC 3716 and CFR Part 3, Subpart B, any monies that are payable or may become payable from the United States, under this permit, to any person or legal entity not an agency or subdivision of a State or local government may be subject to administrative offset for the collection of a delinquent debt the person or legal entity owes to the United States. Information on the person's or legal entity's responsibility for a commercial debt or delinquent consumer debt owed the United States shall be disclosed to consumer or credit reporting agencies.
- 5. Interest, Penalty, and Administrative Costs.** Pursuant to 31 USC 3717 and 7 CFR Part 3, Subpart B, interest shall be charged on any payment or fee amount not paid within 30 days from the date the payment was due. Interest shall be charged using the most current rate prescribed by the United States Department of the Treasury Fiscal Requirements Manual (TFRM-6-8020.20). Interest shall accrue from the date the payment was due. In addition, in the event the account becomes delinquent, administrative costs may be assessed. A penalty of 6 percent per year shall be assessed on any payment or fee amount overdue in excess of 90 days from the date the first billing was due. Payments will be credited on the date received by the designated collection officer or deposit location. If the due date(s) for any of the above payments falls on a non-workday, the charges shall not apply until the close of business on the next workday.
- 6. Term of Permit.** This permit is effective until 12/31/2021 unless waived, cancelled, or otherwise terminated as provided herein. The permittee has first priority for receipt of a new permit at the end of the term subject to modification deemed necessary by the Forest Service.

In order to update terms and conditions, this permit may be cancelled at any time provided a new permit is **issued** to the existing permit holder for a new term of 10 years **following this update**.

7. Ownership Requirement

- (a) Only livestock owned by the permittee are authorized to graze under this permit. To exercise use of the permit, the permittee will furnish all evidence of ownership requested by the Forest Service. Livestock purchased and subsequently sold back to the original owner, or to an agent, assignee, or anyone representing or acting in concert with the original owner, within a 24-month period without prior written approval by the Forest officer in charge will not be considered valid ownership of the livestock.
- (b) Base property owned and used by the permittee to qualify for a term grazing permit must meet minimum base property requirements approved by the officer in charge.

8. Range and Livestock Management

(a) The allotment management plan for the land described on page 1, Part 1 is part of the permit, and the permittee will carry out its provisions, other instructions, or both as issued by the Forest officer in charge for the area under permit and will require employees, agents, and contractors and subcontractors do likewise.

(b) The number, kind, and class of livestock, period of use, and grazing allotment specified in the permit may be modified when determined by the Forest Officer in charge to be needed for resource protection. Except in extreme emergencies where resource conditions are being seriously affected by livestock use or other factors, such as fire, drought, or insect damage, notice of a scheduled reduction of numbers of livestock or period of use under a term permit will be given one (1) full year before a modification in permitted numbers or period of use becomes effective. This does not apply to annual adjustment in grazing as provided for in Section 8(c).

(c) When, in the judgment of the Forest Officer in charge, the forage is not ready to be grazed at the beginning of the designated grazing season, the permittee, upon request of the Forest officer, will defer placing livestock on the grazing allotment to avoid damage to the resources. The permittee will remove livestock from Forest Service-administered lands before the expiration of the designated grazing season upon request of the Forest officer when it is apparent that further grazing will damage the resources.

(d) The permittee will allow only the numbers, kind, and class of livestock on the allotment during the period specified in Part 1 hereof or the annual Bill for Collection, including any modifications made as provided for in Section 8(c). If livestock owned by the permittee are found to be grazing on the allotment in greater numbers, or at times or places other than permitted in Part 1 hereof, or specified on the annual Bill for Collection, the permittee shall be billed for excess use at the unauthorized use rate and may face suspension or cancellation of this permit.

(e) The permittee will not allow owned or controlled livestock to be upon any area of Forest Service-administered lands not described in either Part 1 hereof or the annual Bill for Collection.

(f) The Forest officer in charge may, at any time, place or fasten or require the permittee to place or fasten upon livestock covered by this permit appropriate marks or tags that will identify them as livestock permitted to graze on lands administered by the Forest Service. When requested by the Forest officer, the permittee will, at any time during the permitted period of use, including entry and removal dates, gather permitted livestock to enable an accurate count to be made thereof. The Forest Service may, at its option, gather and hold for counting all livestock grazing on the allotment.

(g) Only livestock marked, tagged, or branded as shown in the application upon which this permit is based, and as may be required under Section 8(f), will be allowed to graze under this permit unless the permittee has advance written approval from the Forest officer in charge to do otherwise.

(h) The permittee will pay the costs of, perform, or otherwise provide for the proportionate share of cooperative improvements and management practices on the permitted area when determined by the Forest officer in charge that such improvements and practices are essential to proper protection and management of the resources administered by the Forest Service.

(i) This permit is issued and accepted with the provision that the permittee will maintain all range improvements, whether private or Government-owned, that are assigned for maintenance to standards of repair, orderliness, and safety acceptable to the Forest Service. Improvements to be maintained and acceptable to maintenance are specified in Part 3 of this permit. The Government may maintain or otherwise improve said improvements when, in its opinion, such action will be to its advantage.

9. Nonuse. At least 90 percent of the livestock permitted must be grazed each year, unless the Forest officer in charge approves nonuse. Failure to place livestock on the allotted range/pasture without approved nonuse may result in cancellation of the term grazing permit in whole or in part.

10. Protection. The permittee, or the permittees' agents and employees, when acting within the scope of their employment, and contractors and subcontractors will protect the land and property of the United States and other land under jurisdiction of the Forest Service covered by and used in conjunction with this permit. Protection will include taking all reasonable precautions to prevent, make diligent efforts to suppress, and report promptly all fires on or endangering such land and property. The permittee will pay the United States for any damage to its land or property, including range improvements, resulting from negligence or from violation of the provisions and requirements of this permit or any law or regulation applicable to the National Forests System.

11. General.

(a) The Forest officer in charge may at any time require the permittee to give good and sufficient bond to insure payment for all damage or costs to prevent or mitigate damages sustained by the United States through the permittee's failure to comply with the provisions and requirements of this permit or the regulations of the Secretary on which it is based.

(b) This permit will be cancelled, in whole or in part, whenever the area described in this permit is withdrawn from the National Forest System by land exchange, modification of boundaries, or otherwise, or whenever the area described in this permit is to be devoted to a public purpose that precludes grazing.

(c) The permittee will immediately notify the Forest officer in charge of any change in control of base property, ownership of livestock, or other qualifications to hold this grazing permit.

(d) The permanent improvements constructed or existing for use in conjunction with this permit are the property of the United States Government unless specifically designated otherwise or covered by a cooperative agreement. They will not be removed nor compensated for upon cancellation of this permit, except in the National Forests in the 16 contiguous Western States when cancelled, in whole or in part, to devote land to another public purpose including disposal. In the event of such cancellation on the National Forests in the 16 Contiguous Western States, the permittee will be compensated for the adjusted value of approved range improvements installed or placed by him.

(e) The permittee may not transfer, assign, lease, or sublet this permit in whole or part.

(f) This permit includes the terms and conditions of Part 3 hereof, consisting of page 5 through 34 which follow.

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GRAZING PERMIT - PART 3
(Reference FSM 2230)

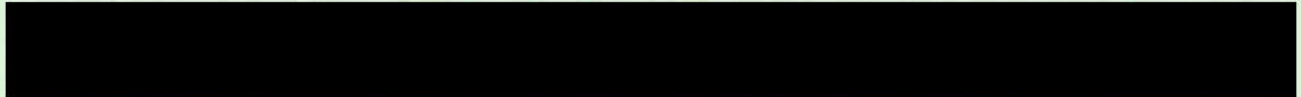
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Special Terms and Conditions

The base property for the term portion of this permit is identified as follows:



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05019**Special Terms and Conditions. (continued)****Responsibilities for Construction and Maintenance of Structural Improvements or for Range Rehabilitation****I. Range Improvement Standards**

All assigned range improvements will be maintained by the permittee. When the annual grazing application is approved, in whole or in part, livestock will not be placed on an allotment or moved into pastures if permit requirements concerning range improvement maintenance are not met. Proper maintenance of the range improvements will insure that the condition of the improvements is adequate to hold livestock in a pasture and will extend the useful life of the improvements. Forest officers periodically will inspect assigned improvements for compliance with maintenance standards prior to livestock entry or movement dates.

A permit modification may be prepared for approved projects each year. Permittees will sign a permit modification form for the project and will sign for materials furnished by the Forest. Range improvements not specifically listed in the improvement program schedule and all ground disturbing activities will not be initiated by the permittee until consulting with the Forest and all clearances have been approved. Normal maintenance of improvements does not require approval.

A. Fences

Many existing fences are very old and in need of major reconstruction. The permittee, along with the Forest, will identify these fences for the District Ranger. Fences in need of reconstruction will be inventoried and prioritized by the District for reconstruction. The following will be implemented:

- 1) All allotment boundary fences are to be maintained prior to livestock entering National Forest lands. Livestock will not be permitted to enter the Forest until fences have been properly maintained to keep livestock where they are placed.
- 2) Each permittee is responsible for the maintenance of all or a portion of an allotment boundary fence. A permittee will not be allowed to place livestock on the allotment if the neighboring permittee does not maintain their assigned allotment boundary fence.
- 3) Pasture fences will be maintained before moving livestock to a new pasture.
- 4) Old wire and steel fence posts will be removed from the Forest.
- 5) Broken wire will be replaced with quality, double strand 12.5 gauge barbed or smooth wire.
- 6) Wire spacing will be similar to original spacing. The top wire height will not exceed 42 inches. The bottom wire will be smooth for antelope. The wire strands will be spaced as follows, counting from the bottom wire: 18 inches, 22 inches, 30 inches, and 42 inches.
- 7) Wire will not be overtightened and will be stretched to remove slack.
- 8) Broken posts or rotten wood posts should be replaced with a steel post, treated wood post, or a juniper post greater than 5 inches in diameter.
- 9) Brace posts will be maintained in tight and serviceable condition.
- 10) Steel posts which have settled may need to be jacked up and possibly moved. Leaning steel posts will be straightened.
- 11) Gates will be maintained so they can be opened easily. Gate sticks will be 2-3 inches in diameter. Smooth wire will be used for gate loops.
- 12) At least 90 percent of fence stays will be sound. Replacement stays will be quality wood, at least 1.5 to 3 inches in diameter, or quality metal stays. Galvanized stay wire will be used for tying stays. 3 stays shall be used for 20 foot spacing between posts.
- 13) Missing staples and fence clips will be replaced.
- 14) All trees which have fallen across the fence line will be cut and removed from the fence right-of-way.

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05019**Special Terms and Conditions. (continued)****B. Water**

The permittee has certain improvements assigned for maintenance in this permit. The improvements include stock tanks, springs, and water systems. Issuance of this grazing permit and the permittee's acceptance of the permit does not convey ownership of a water right to the permittee but allows the use of a portion of it within the terms of the appropriation. The Forest has filed for water rights on these waters within the state of Arizona. Grazing domestic livestock may not be possible without these water rights. The Forest will retain ownership of these water rights as appropriated to the United States Forest Service (USFS) for current and future grazing permittees as well as for wildlife and recreation consumptive needs. Ownership of the water rights belonging to the USFS will assure that the use of the water will be appurtenant to the land and will be available for both current and future grazing permittees.

Stock water is important for proper livestock distribution. Water must be used to demonstrate beneficial use in order to maintain water rights. If natural water is not available, the permittee may haul water to obtain proper livestock distribution.

- 1) *Springs, Windmills, Water Wells, and Trick Tanks*
 - a) Fences around water sources and equipment shall be maintained annually to FS standards.
 - b) Collection boxes, inlet pipes, and water troughs will be clean of sediment and debris before the improvement is used and during the grazing season as needed.
 - c) Broken pipe will be repaired or replaced. Material not usable will be removed from the Forest and disposed of properly.
 - d) Troughs that leak will be repaired or replaced. Troughs should be level. Overflow pipes should be placed to avoid a boggy area at the trough. Rusted out troughs should be replaced.
 - e) Float valves will be cleaned and set to prevent overflow. They shall be checked regularly when pasture is in use and shall contain a protective cover to prevent damage from livestock.
 - f) Troughs shall have an escape ramp for small mammals and birds. Escape ramps shall also be maintained to be functional.
 - g) Well water pipelines shall be shut off when not needed for management purposes or when pasture is rested, unless otherwise specified. Any pipeline left on when pasture is deferred shall be checked regularly and maintained as needed.
 - h) Trick tank support structure and tin shall be inspected annually to insure that the improvement is sound. Any damages should be repaired.
 - i) Windmills shall be inspected by the permittee on a regular basis when left on, regardless of whether pasture is being grazed or not.
 - j) All moving parts on windmills shall be lubricated before they are put in use and as needed during the grazing season.

- 2) *Stock Tanks*
 - a) Check stock tanks for seepage or leaks.
 - b) As a general rule, spillways will be flat and will have a minimum height of 3 feet and width of 10 feet. They will be free of debris and obstructions. Eroded portions will be repaired when they exist.
 - c) Tanks will be cleaned to their original capacity whenever drought or other circumstances occur that result in the tank(s) being dry. Special care will be taken during cleaning to prevent future water loss. The work will be coordinated with the District Ranger prior to initiating repairs.

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05019**Special Terms and Conditions****Management Practices****II. Range Readiness**

Livestock may not be permitted to graze until vegetation and soil conditions are satisfactory. If necessary, readiness checks may be made in advance of the scheduled entry date. They will be conducted on designated key forage species in key areas, being done with the permittee whenever possible.

III. Allowable Use

Allowable use is based on the amount and kind of forage on the allotment, plant and resource needs, and range condition and trend. Duration, frequency, and timing may be manipulated within the grazing schedule. The allowable use standard is listed with your grazing rotation (AOI) every year.

Allowable use will be monitored in key areas on key species. These areas and species may change annually or seasonally and consist of areas that are readily accessible to livestock and within a ½ mile of a livestock water. When utilization meets the standard set, livestock must be redistributed without increasing use on key areas. If livestock continue to graze the key area after utilization has been met, then cattle must be moved from the pasture or allotment. If any key area is grazed in excess of 5% above the standard set, this will constitute excessive use and will result in cattle being moved to the next pasture, or off the allotment. Rested pastures or pastures that have already been grazed are not available for grazing, unless certain circumstances render them to be, and if no other pastures are available for grazing, livestock shall be removed from the allotment.

IV. Management Practices

The Allotment Management Plan (AMP), if determined to be adequately effective by the Forest Service, will describe the grazing practices to be included in the Annual Operating Instructions (AOI). Grazing practices listed in the AMP may be modified by the FS if deemed necessary. Any changes from the AMP or the AOI require prior FS approval. If no AMP exists, FS will determine appropriate management practices considering the permittee's operation, as long as such practices will not cause an adverse effect of other resources.

Management practices, such as pasture moves, will be in the AOI and shall be adhered to. If a permittee desires a change to the AOI, the permittee will discuss all proposed changes with the District Ranger prior to implementation. If emergency conditions require making a change immediately, the permittee will notify the District Ranger. The District Ranger will determine if the action taken was appropriate based on the circumstances that created the emergency.

Livestock shall not enter the allotment until the scheduled date identified in the AOI and this grazing permit. Permittees shall provide at least 5 days advance of entering the allotment and the location of entry. All livestock, including strays, shall be removed from the allotment by the last day shown on the AOI and this grazing permit.

All livestock must be branded or marked, as identified on the current brand certificates in the correspondence of the Term Grazing Permit.

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05019**Special Terms and Conditions. (continued)**

A request for an extension of the grazing season must be received in writing at least 14 days before the end of the season, which shall state the reason for extension. Excess forage is not automatic grounds for approving extensions. Approval will be determined on resource needs (soil production, seed crop for next year, etc.) and not based on permittee convenience. Approval applies to only the current year and previous year's approval does not constitute automatic approval for succeeding years. Any extensions will be paid for at the current grazing fee rate.

A request for non-use must be received in writing at least 45 days prior to the grazing season. Paid grazing fees will be forfeited if the written request is received after the 45 day period. The permittee is allowed three consecutive years maximum of personal convenience non-use, and required to stock the allotment the fourth year or the permit will be reduced to the extent of the non-use. The allotment stocked at less than 90% of the permitted numbers will constitute a non-use situation for which an application must be filed. Refund or credits for non-use will begin as of the date of application.

Livestock must be moved within three days of the planned rotation dates or when allowable forage use has been met. At least 90% of the permitted livestock must be moved by the scheduled date. The permittee must notify the District Ranger if there is a need to deviate from the planned rotation dates.

Livestock allowed to remain in pastures beyond the specified rotation date, allowed to drift between pastures, or allowed in a rested pasture may be considered a violation of this Term Grazing Permit. Animals on the allotment after the scheduled off date will be billed at the unauthorized use rate and may be grounds for other administrative actions on the permit.

Management emphasis will be to have riparian areas in satisfactory condition. Livestock will not be moved between pastures or allotments along the length of the riparian areas except on approved routes specified in the AOI. Approval will be granted only where it is determined that there is no alternative route and it can be shown that riparian areas will not be damaged. Historical use of travel routes or annual approval for use does not assure continued use of the travel route the following year. Continued use of travel routes depends on satisfactory resource conditions and that continued use will not degrade or continue to degrade resources.

In areas of unsatisfactory riparian conditions where livestock grazing has been determined to be a significant factor, a revised AMP will: 1) implement intensive management systems which limit grazing and provide adequate rest for riparian areas; 2) reduce stocking to a level that will allow degraded areas to recover; and/or 3) use site specific exclusion fencing.

Livestock will be managed to avoid concentrated use in any one area, especially riparian areas and meadows. A full-time rider may be necessary to disperse livestock and deter concentrations in preferred areas. The permittee shall manage livestock to utilize the less preferred areas first by hauling water, placing salt or supplement, and herding as needed to achieve proper use.

Salt and mineral blocks will be placed in lightly used areas until the desired level of forage use is achieved. Blocks should be placed in a pasture prior to livestock entry and will be removed when forage use objectives are met. Blocks will not be placed in areas within a ¼ mile of water or riparian areas and ideally no closer than a ½ mile. Blocks will not be placed in over used areas, meadow bottoms, along roads, along trails, or in heavily used recreation areas. Every time blocks are put out, they will be placed on a different site. Blocks will be placed on sites not susceptible to erosion.

Permittees are encouraged to have range to use available off-forest to use in the event of drought and/or excess forage utilization necessitates early livestock removal. When these conditions occur, the District Ranger, with input from the permittee, will make the determination if livestock removal is required for resource protection. Drought situations may alter grazing sequence or length of grazing period.

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Special Terms and Conditions. (continued)

The number of livestock and/or season of use may be adjusted if the forage use standards or other management objectives are not being met. Livestock will be moved to the next pasture in the grazing schedule or off the Forest when utilization standards are exceeded.

Seasonal closures for road access or construction activities may occur if such activities may adversely affect wildlife critical breeding or nesting periods and unusually wet periods may cause soil damage from vehicle use.

V. Short-Age Calf Policy, Apache-Sitgreaves National Forests

For seasonal permits, the following provision applies: All animals 6 months of age or older at the time of entering the National Forest System, those which will become 12 months of age during the grazing season, and all weaned animals regardless of age are counters for which fees must be paid. They will also be counted as to numbers permitted.

VI. Penalties

Failure to comply with any of the terms and conditions specified in Parts 1, 2, and 3 of this Term Grazing Permit may result in suspension or cancellation, in whole or in part, after written notice. This is found in Part 1, Section 3, of your permit.

Failure to comply with any provision of the Annual Operating Instructions, Allotment Management Plan, or the Forest Officer instructions is a violation of the Term Grazing Permit and will be subject to the following penalties:

- a) For first offense cases, the Term Grazing Permit may be cancelled or suspended by 10%.
- b) For a second offense, the Term Grazing Permit may be cancelled or suspended by an additional 10%.
- c) For a third offense, the Term Grazing Permit may be cancelled by an additional 20%.
- d) For four or more offenses, the Term Grazing Permit may be cancelled in whole or in part.

The Allotment Management Plan dated 03/28/89, signed by Steve Egeline, is hereby made a part of this Term Grazing Permit #05019 and can be found on pages 11 through 14.

The improvement list for the Heber Allotment is hereby made a part of this Term Grazing Permit #05019 and can be found on pages 15 through 21.

Pasture maps and a general allotment map are hereby made a part of this Term Grazing Permit #05019 and can be found on pages 22 through 34.

RANGE MANAGEMENT PLAN
for the
BUCKSKIN, GENTRY AND HEBER-MUD TANK ALLOTMENTS
HEBER RANGER DISTRICT
APACHE-SITGREAVES NATIONAL FORESTS

PREPARED by	<u>Bruce Mortensen</u> BRUCE MORTENSEN, RANGE STAFF	<u>3/1/89</u> DATE
SUBMITTED by	<u>Steve Egel</u> STEVE EGELINE, DISTRICT RANGER	<u>3/28/89</u> DATE
AGREED to by	<u>Rancho Milagro - Steven D Bragg</u> RANCHO MILAGRO-STEVEN BRAGG, PERMITTEE	<u>3/28/89</u> DATE
APPROVED by	<u>Nick McDonough</u> NICK McDONOUGH, FOREST SUPERVISOR	<u>6-1-89</u> DATE
	<u>John F. Seibert</u>	<u>09-10-01</u>
	<u>Cecilia Seibert</u>	<u>12-27-11</u>

I. Description

The Rancho Milagro cattle operation includes the Buckskin, Gentry and Heber-Mud Tank Allotments. These allotments range from the mixed conifer type on the South to the dense Pinyon-Juniper stands to the North. These allotments encompass 134,795 acres of National Forest Lands.

Past management on these allotments consisted of running 1047 head of cattle split into three herds for the summer season. One herd rotating on the Heber-Mud Tank Allotment, a second herd rotating on the Buckskin Allotment and a third grazing the Gentry. In 1987, due to deteriorating range conditions and a lack of forage, these numbers were reduced to a herd of 628 head 5/1 to 10/31 and 157 head of non-use until forage improvements can be made.

II. Problems and Conflicts

- A. The Forest Plan has identified the winter habitat of Pinyon-Juniper areas as limiting in suitability for forage across the forest. These allotments contain approximately 48,000 acres of winter habitat. Approximately 90% of these acres are not suitable forage acres for cattle or wildlife due to dense Pinyon-Juniper stands. These dense stands have forced heavy grazing pressure on the riparian bottoms that traverse the Pinyon-Juniper.
- B. Structural range improvements are in need of heavy maintenance. Many of the fences are in excess of fifty years old and need major maintenance or reconstruction. Water developments at the Mud Tank and Bigler Trick Tanks need considerable maintenance on the aprons. Water lines from the Bigler Well are exposed in several areas and need recovering.
- C. Lack of water in most of the pastures hinder good cattle distribution. Further water development is needed on the allotments.
- D. Trespass horses from off-forest remain as annual problem on Gentry and Buckskin Allotments. Eight horse traps have been constructed to date and trapping of these horses started this year. More emphasis needs to be put on having adjacent landowners maintain the Forest boundary fence every spring.
- E. Deteriorating conditions in riparian areas is another problem addressed in the forest plan. There are approximately 45 miles of riparian drainage on the allotments that are in poor condition. The riparian in the pine type is now heavily invaded with small pine. Riparian in the Pinyon-Juniper is overgrazed by cattle and wildlife due to invasion of Pinyon-Juniper and lack of forage in other areas.

III. Objectives of the Management Plan

- A. Implement a program in the Pinyon-Juniper that will create forage openings in the Ancient, Halter Cross, Oil Well, Red Knoll and Mud Tank pastures. This will increase winter habitat and greatly reduce grazing pressures on the riparian areas.
- B. Implement a rest-rotation grazing system that will reduce grazing pressures on key riparian areas.

Using KV collections and P&M funds, implement projects to restore riparian area in the pine type.

Develop more water in all pastures.

- C. Implement a program of allotment maintenance to restore all fences and water developments in a state of good repair.

IV. Management System

- A. It is planned to put all four allotments together as one allotment and rotate one herd through seven of the nine pastures. Two pastures will rest every year. This will give us more flexibility for rotations and reducing grazing pressures on key riparian areas. For the planned rotation see attached grazing form R3-2200-19.

V. Range Improvements

A. Non-Structural Improvements

- 1. Create 6000 acres of openings in the Pinyon-Juniper through commercial fuelwood sales, contract cutting and pushing.

B. Structural Improvements

- 1. Construction of earthen stock tanks in the following pastures:

PASTURE	# TANKS	PASTURE	# TANKS
Gentry	3	Ancient	2
Bunger	5	Mud Tank	3
Phoenix Park	8	Oil Well	3
Halter Cross	2	Red Knoll	3
Squaw	2		

- 2. Totally reconstruct apron at the Bigler Trick Tank.

VI. Maintenance of Improvements

1. Do heavy maintenance on four miles of the North boundary of the Mud Tank Pasture - 1989.
2. Do heavy maintenance on six miles of the West boundary of the Squaw Pasture - 1989.
3. Repair the apron on the Mud Tank Trick Tank - 1989.
4. Do heavy maintenance on five miles of the West boundary of the Mud Tank Pasture - 1990.
5. Do heavy maintenance on four miles of the East boundary of the Mud Tank Pasture - 1990.
6. Do heavy maintenance on six miles of the West boundary of the Bunger Pasture from the Apache Reservation boundary to the West Fork of Black Canyon - 1991.
7. Do heavy maintenance on four miles of the division fence between the Oil Well and the Red Knoll Pastures - 1991.
8. Do heavy maintenance on nine miles of the West boundary of the Ancient Pasture - 1992.
9. Do heavy maintenance on nine miles of the North boundary of the Gentry Pasture - 1993.
10. All wells and waterlines will be maintained annually. Exposed waterlines and unserviceable troughs will be maintained or replaced as soon as possible.

VII. Follow-Up Action

- A. Annual permittee instructions will be written each year to supplement this plan. Any deviation from this plan will be documented in the annual instructions.
- B. Annual inspections will be conducted on the allotment to ensure compliance with the management plan and modifications made when necessary.

Heber Allotment, Black Mesa Ranger District
Improvement List

Improvement Number	Improvement Name	Improvement Type	Maintenance Responsibility	GIS Length
20530	Heber / Willow Wash Allotment Boundary Fence	Fence	Willow Wash	0.30
20530	Heber / Willow Wash Allotment Boundary Fence	Fence	Willow Wash	1.57
20530	Heber / Willow Wash Allotment Boundary fence	Fence	Willow Wash	0.86
20531	Heber / Willow Wash Allotment Boundary Fence	Fence	Willow Wash	3.09
21007	Heber / Park-Day Wash Allotment Fence	Fence	Park Day	6.11
21501	Heber / Pierce Wash Allotment Fence	Fence	Pierce Wash	1.94
21501	Heber / Pierce Wash Allotment Fence	Fence	Pierce Wash	1.02
21503	Partnership Waterlot	Fence	Heber	0.14
21503	Partnership Tank	Pit Tank	Heber	
21505	Heber / Pierce Wash Allotment Fence	Fence	Pierce Wash	3.45
22001	122 Road Tank	Pit Tank	Heber	
22002	122A Spur Tank 1	Pit Tank	Heber	
22003	153 RT Trough	Trough	Heber	
22004	153 RD Trick Tank	Trick Tank	Heber	
22005	168 Road #1	Pit Tank	Heber	
22006	168 Road #2	Pit Tank	Heber	
22007	168 Road #3	Pit Tank	Heber	
22008	178 Road #1 Tank	Pit Tank	Heber	
22009	178 Road Tank North 1	Pit Tank	Heber	
22010	178 Road Tank North #2	Pit Tank	Heber	
22011	178 Road Tank North #3	Pit Tank	Heber	
22012	178 Road Tank North #4	Pit Tank	Heber	
22013	178 Road Tank North #5	Pit Tank	Heber	
22014	212 Road #1 Tank	Pit Tank	Heber	
22015	212 Road #2	Pit Tank	Heber	
22016	212 Road #3	Pit Tank	Heber	
22017	89 Guzzler	Guzzler	Heber	
22018	Ancient Guzzler	Guzzler	Heber	
22019	Ancient Tank	Pit Tank	Heber	
22020	Aspen Lake	Pit Tank	Heber	
22021	Association Tank	Pit Tank	Heber	
22023	Baca Tank	Pit Tank	Heber	
22025	Baca South Tank	Pit Tank	Heber	
22026	BC Tank	Pit Tank	Heber	
22029	Bed Rock Guzzler	Guzzler	Heber	
22030	Bend Tank	Pit Tank	Heber	
22031	Bigler Trick Tank	Trick Tank	Heber	
22032	Bigler TT Trough	Trough	Heber	
22033	Bigler Guzzler	Guzzler	Heber	
22034	Bigler Well	Well	Heber	
22035	Bigler Tank	Pit Tank	Heber	
22037	Bigler #1 Trough	Trough	Heber	
22038	Bigler Tank 2	Pit Tank	Heber	
22038	Bigler Tank	Pit Tank	Heber	
22039	Bigler Trough 2	Trough	Heber	
22040	Bigler #3 Guzzler	Guzzler	Heber	

22041	Bigler Trough 4	Trough	Heber
22042	Bigler Trough 5	Trough	Heber
22043	Bitumul Tank	Pit Tank	Heber
22044	Black Canyon Guzzler	Guzzler	Heber
22047	Blind Tank	Pit Tank	Heber
22048	Bob's Big One	Pit Tank	Heber
22049	Bobs Little One	Pit Tank	Heber
22050	Brad Tank	Pit Tank	Heber
22051	Brahma Tank	Pit Tank	Heber
22052	Brahma North	Pit Tank	Heber
22053	Brahma South Tank	Pit Tank	Heber
22054	Upper Brahma Tank	Pit Tank	Heber
22057	Bunger Road Tank 1	Pit Tank	Heber
22058	Bunger Road Tank 2	Pit Tank	Heber
22059	Bunger Road Tank 3	Pit Tank	Heber
22060	Burned Up Tank	Pit Tank	Heber
22061	Camp Tank	Pit Tank	Heber
22062	Chediski Tank	Pit Tank	Heber
22063	Clare Tank	Pit Tank	Heber
22064	Crook Tank	Pit Tank	Heber
22065	Cross Tank	Pit Tank	Heber
22066	Dead Horse Tank	Pit Tank	Heber
22067	Deep Tank	Pit Tank	Heber
22068	Dinner Saddle Tank	Pit Tank	Heber
22069	Double A Tank	Pit Tank	Heber
22070	Draw Tank	Pit Tank	Heber
22071	Dump Tank	Pit Tank	Heber
22072	East Buckskin Tank	Pit Tank	Heber
22073	East Fork Tank	Pit Tank	Heber
22074	East Fork Hess Tank	Pit Tank	Heber
22075	East Indian Tank	Pit Tank	Heber
22076	East Ranch	Pit Tank	Heber
22077	East Red Knoll Tank	Pit Tank	Heber
22078	Eileen Tank	Pit Tank	Heber
22079	Eubank Tank	Pit Tank	Heber
22080	Fence Tank	Pit Tank	Heber
22081	Fifty One Tank	Pit Tank	Heber
22082	Fork Guzzler	Guzzler	Heber
22083	Fork Tank	Pit Tank	Heber
22084	Gardner Tank	Pit Tank	Heber
22085	Gentry Tank	Pit Tank	Heber
22089	Hangmans Tank	Pit Tank	Heber
22090	Heber Road Tank	Pit Tank	Heber
22091	Heber Road Tank 2	Pit Tank	Heber
22092	Heber Road Tank 3	Pit Tank	Heber
22093	Hess Tank	Pit Tank	Heber
22095	Hidden Guzzler	Guzzler	Heber
22096	Hidden Tank	Pit Tank	Heber
22097	Hidden Tank	Pit Tank	Heber
22099	Horse Tank	Pit Tank	Heber
22100	Intersection Tank	Pit Tank	Heber
22101	Intersection South Tank	Pit Tank	Heber
22102	Javelina Guzzler	Guzzler	Heber
22104	JJ Tank	Pit Tank	Heber
22105	Juncus Tank	Pit Tank	Heber

22106	Knoll Tank	Pit Tank	Heber
22107	Limestone Tank	Pit Tank	Heber
22108	Lincoln Tank	Pit Tank	Heber
22109	Little Nelson Lake	Pit Tank	Heber
22110	Loader Tank	Pit Tank	Heber
22111	Lone Pine Guzzler	Guzzler	Heber
22112	Long Hollow Guzzler	Guzzler	Heber
22113	Long Hollow Tank	Pit Tank	Heber
22114	Lower Bitumul Tank	Pit Tank	Heber
22115	Lower Hess Tank	Pit Tank	Heber
22117	Middle Tank	Pit Tank	Heber
22118	Middle Fork Tank	Pit Tank	Heber
22119	Mitten Guzzler	Guzzler	Heber
22120	Mud Tank	Pit Tank	Heber
22121	Mud Tank Well	Well	Heber
22122	Mud Tank Storage Tank	Storage	Heber
22123	Mud Tank Guzzler	Guzzler	Heber
22124	Mud Tank Trick Tank	Trick Tank	Heber
22125	Mud Tank Trough #1	Trough	Heber
22126	Mud Tank Trough #2	Trough	Heber
22127	Mud Tank Trough #3	Trough	Heber
22128	Mule Tank #1	Pit Tank	Heber
22129	Mule Tank 2	Pit Tank	Heber
22130	Mustang Tank	Pit Tank	Heber
22131	Nelson Tank	Pit Tank	Heber
22132	No Mas Guzzler	Guzzler	Heber
22133	Oak Tank	Pit Tank	Heber
22134	Oak Tank	Pit Tank	Heber
22135	Odell Uno	Pit Tank	Heber
22136	Oil Well	Well	Heber
22137	Oklahoma Guzzler	Guzzler	Heber
22138	OS Tank	Pit Tank	Heber
22140	Overgaard Tank	Pit Tank	Heber
22141	OW Draw Tank	Pit Tank	Heber
22142	Owen Tank	Pit Tank	Heber
22145	Pete's Tank	Pit Tank	Heber
22146	Petes #2	Pit Tank	Heber
22148	Phoenix Park RT #1	Pit Tank	Heber
22149	Phoenix Park RT #2	Pit Tank	Heber
22150	Phoenix Park RT #3	Pit Tank	Heber
22151	Phoenix Park RT #4	Pit Tank	Heber
22152	Phoenix Park RT #5	Pit Tank	Heber
22153	Phoenix Park RT #6	Pit Tank	Heber
22154	Phoenix Park RT #7	Pit Tank	Heber
22155	Phoenix Park RT #8	Pit Tank	Heber
22159	Pierce Spring Tank	Pit Tank	Heber
22160	Upper Pierce Tank	Pit Tank	Heber
22161	Pig Pin Guzzler	Guzzler	Heber
22162	Pig Pen Tank	Pit Tank	Heber
22163	Pit Tank	Pit Tank	Heber
22164	Pit Tank #2	Pit Tank	Heber
22165	Pit Tank #3	Pit Tank	Heber
22166	Pit Tank West of Blind Tank	Pit Tank	Heber
22167	Point Guzzler	Guzzler	Heber
22168	Pot Hole Tank	Pit Tank	Heber

22169	Powerline Tank	Pit Tank	Heber
22170	Purcell Guzzler	Guzzler	Heber
22171	Purcell Tank	Pipeline	Heber
22172	Upper Purcell Tank	Pit Tank	Heber
22173	Ranch Tank	Pit Tank	Heber
22174	Ranch Well	Well	Heber
22176	Red Knoll Tank	Pit Tank	Heber
22177	Red Knoll Guzzler	Guzzler	Heber
22178	Red Knoll Well	Well	Heber
22179	Red Knoll Trough 2	Trough	Heber
22180	Red Knoll Trough 1	Trough	Heber
22181	Red Knoll Tank #2	Pit Tank	Heber
22182	Red Knoll #2	Pit Tank	Heber
22183	Red Knoll Trough 3	Trough	Heber
22184	Red Knoll Trough 4	Trough	Heber
22185	Red Knoll Flat Tank	Pit Tank	Heber
22186	Red Water Tank	Pit Tank	Heber
22187	Redwater Tank #2	Pit Tank	Heber
22189	Redwater Tank	Pit Tank	Heber
22190	Ridge Tank	Pit Tank	Heber
22191	Ridge Tank	Pit Tank	Heber
22192	Road Closed Road #2	Pit Tank	Heber
22193	Road Closed Road #3	Pit Tank	Heber
22194	Road Closed Road #4	Pit Tank	Heber
22195	Rocky Tank	Pit Tank	Heber
22196	Ross Draw Tank	Pit Tank	Heber
22197	Saddle Tank	Pit Tank	Heber
22198	Salt Tank	Pit Tank	Heber
22199	Sandy Tank	Pit Tank	Heber
22200	Scott Tank	Pit Tank	Heber
22201	Section 11 Tank	Pit Tank	Heber
22202	Section 12 Tank	Pit Tank	Heber
22203	Section 21 Tank	Pit Tank	Heber
22204	Section 23 Tank	Pit Tank	Heber
22205	Section 28 Tank	Pit Tank	Heber
22206	Section 33 Tank	Pit Tank	Heber
22207	Section 33 Tank No. 1	Pit Tank	Heber
22208	Section 33 Tank No. 2	Pit Tank	Heber
22209	Section 33/Section 4 Tank	Pit Tank	Heber
22210	Section 34 Tank	Pit Tank	Heber
22211	Section 6 Tank	Pit Tank	Heber
22212	Section 9 Tank	Pit Tank	Heber
22213		Pit Tank	Heber
22214	Sorrel Tank	Pit Tank	Heber
22215	South Ranch Tank	Pit Tank	Heber
22216	Sponseller Guzzler	Guzzler	Heber
22217	Squaw Guzzler	Guzzler	Heber
22218	North Squaw Tank	Pipeline	Heber
22219	South Squaw Tank	Pit Tank	Heber
22220	Squaw Upper	Pit Tank	Heber
22222	Stolen Tank	Pit Tank	Heber
22223	Stolen Tank No 2	Pit Tank	Heber
22224	Stott Tank	Pit Tank	Heber
22225	Stump Tank	Pit Tank	Heber
22226	Tatum Baca	Pit Tank	Heber

22227	Trailhead Guzzler	Guzzler	Heber	
22228	Turkey Tank	Pipeline	Heber	
22234	Twin Tank	Pit Tank	Heber	
22235	Twin Lakes	Pit Tank	Heber	
22236	Twin Lakes	Pit Tank	Heber	
22237	Upper Squaw	Pit Tank	Heber	
22238	Uranium Guzzler	Guzzler	Heber	
22239	Uranium Tank	Pit Tank	Heber	
22240	Verde Tank	Pit Tank	Heber	
22241	Vista Guzzler	Guzzler	Heber	
22243	Walnut Guzzler	Guzzler	Heber	
22244	Weeping Tank	Pit Tank	Heber	
22245	Well Guzzler	Guzzler	Heber	
22246	West Buckskin Tank	Pit Tank	Heber	
22247	West Indian Guzzler	Guzzler	Heber	
22248	West Indian Tank	Pit Tank	Heber	
22249	West Park Tank	Pit Tank	Heber	
22250	West Ranch Tank	Pit Tank	Heber	
22251	Western Tank	Pit Tank	Heber	
22252	Whiskey Tank	Pit Tank	Heber	
22255	Wildcat Tank	Pit Tank	Heber	
22256	Wilson Tank	Pit Tank	Heber	
22257	Wyrick Tank	Pit Tank	Heber	
22258	Zig Zag 1 Tank	Pit Tank	Heber	
22259	Zig Zag 2 Tank	Pit Tank	Heber	
22260	Boundary Tank	Pit Tank	Heber	
22261	OK Tank	Pit Tank	Heber	
22262	Little Tank	Pit Tank	Heber	
22265	Bigler Well Storage Tank	Storage	Heber	
22266	Red Knoll Well Storage Tank	Storage	Heber	
22300	Long Tom Long Tom / Heber Bigler NB	Barrier	N/A	9.41
22301	Heber / Wildcat Allotment Boundary Fence	Fence	Heber	3.74
22301	Heber / Wildcat Allotment Boundary Fence	Fence	Heber	1.71
22302	Heber / Wildcat Allotment Boundary Fence	Fence	Heber	4.86
22303	Heber / Administrative Allotment Boundary	Fence	Heber	0.50
22303	Heber / Private Allotment Boundary	Fence	Heber	2.52
22303	Heber / Private Allotment Boundary	Fence	Heber	0.79
22304	Gentry / H.P. Pasture Fence	Fence	Heber	0.88
22304	Gentry / H.P. Pasture Fence	Fence	Heber	0.50
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.50
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.68
22305	Private	Fence	Heber	0.06
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.15
22305	Private	Fence	Heber	0.21
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.58
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.25
22305	Bunger / H.P. Pasture Fence	Fence	Heber	0.08
22306	Gentry / Highway ROW	Fence	ADOT	2.59
22306	Gentry / Highway ROW	Fence	ADOT	2.18
22307	Phoenix Park / Highway ROW	Fence	ADOT	1.22
22307	Phoenix Park / Highway ROW	Fence	ADOT	1.63
22307	Phoenix Park / Highway ROW	Fence	ADOT	0.43
22308	Halter Cross / Highway ROW	Fence	ADOT	1.62
22309	Halter Cross / Private Bdry	Fence	Private	2.77
22309	Halter Cross / Private Bdry	Fence	Private	1.19

22309	Halter Cross / Private Bdry	Fence	Private	1.62
22310	Heber / Long Tom Allotment Bdry	Fence	Heber	1.61
22310	Heber / Long Tom Allotment Bdry	Fence	Heber	0.27
22310	Heber / Long Tom Allotment Bdry	Fence	Heber	0.24
22311	Gentry / Bungler Pasture Div	Fence	Heber	2.86
22312	Pheonix Park / Bungler Pasture Div	Fence	Heber	7.78
22312	Pheonix Park / Bungler Pasture Div	Fence	Heber	0.30
22313	Heber / Private Allotment Bdry	Fence	Heber	7.62
22314	Heber / Private Allotment Bdry	Fence	Heber	3.92
22315	Halter Cross / Highway ROW	Fence	ADOT	4.73
22316	Oil Well / South Ancient / Highway ROW	Fence	ADOT	2.11
22316	Oil Well / South Ancient / Highway ROW	Fence	ADOT	1.75
22317	Nelson / HP #2 Pasture Div	Fence	Heber	0.41
22318	Heber / Long Tom Allotment Bdry	Fence	Heber	5.36
22319	Nelson / Highway ROW	Fence	ADOT	4.56
22320	Red Knoll / North Ancient Pasture Div	Fence	Heber	4.49
22321	Red Knoll / South Ancient Pasture Div	Fence	Heber	1.00
22322	North Ancient / South Ancient Pasture Div	Fence	Heber	0.64
22322	North Ancient / South Ancient Pasture Div	Fence	Heber	0.62
22322	North Ancient / South Ancient Pasture Div	Fence	Heber	0.49
22322	North Ancient / South Ancient Pasture Div	Fence	Heber	1.91
22323	Oil Well / South Ancient Pasture Div	Fence	Heber	4.09
22324	Mud Tank / Oil Well Pasture Div	Fence	Heber	3.24
22325	Mud Tank / Bigler Pasture Div	Fence	Heber	3.10
22326	Bigler / Squaw Pasture Div	Fence	Heber	6.09
22327	Mud Tank / Sqaw Pasture Div	Fence	Heber	1.51
22328	Red Knoll / Sqaw Pasture Div	Fence	Heber	4.23
22329	Mud Tank / Red Knoll Pasture Div	Fence	Heber	2.21
22330	Red Knoll / Oil Well Pasture Div	Fence	Heber	3.41
22331	South Forest / Reservation Bdry	Fence	Heber	6.90
22332	South Forest / Reservation Bdry	Fence	Heber	12.71
22333	South Forest / Reservation Bdry	Fence	Heber	5.85
22333	South Forest / Reservation Bdry	Fence	Heber	4.58
22334	North Forest Bdry	Fence	Heber	5.57
22335	North Forest Bdry	Fence	Heber	7.08
22336	North Forest Bdry	Fence	Heber	1.89
22337	North Forest Bdry	Fence	Heber	3.51
22338	Oil Well / Private Bdry	Fence	Private	1.97
22339	HP / Bungler / Private Bdry	Fence	Private	1.31
22339	HP / Bungler / Private Bdry	Fence	Private	1.80
22340	Oil Well / Highway ROW	Fence	ADOT	0.56
22341	Nelson / Private Bdry	Fence	Private	1.60
22401	Dead Horse Waterlot	Fence	Heber	0.44
22402	East Indian Waterlot	Fence	Heber	0.27
22403	Eubank Waterlot	Fence	Heber	0.62
22404	Owens Waterlot	Fence	Heber	0.29
22405	Petes Waterlot	Fence	Heber	0.27
22406	Pierce Seep Waterlot	Fence	Heber	0.34
22407	Red Knoll Waterlot	Fence	Heber	0.30
22408	Red Knoll Flat Waterlot	Fence	Heber	0.18
22409	Stolen Waterlot	Fence	Heber	0.08
22410	Tatum Baca Waterlot	Fence	Heber	0.54
22411	West Indian Waterlot	Fence	Heber	0.15
22412	Turkey Waterlot	Fence	Heber	0.19
22413	Bigler Waterlot	Fence	Heber	0.15

22414	Bigler Trick Tank Waterlot	Fence	Heber	0.13
22415	Oil Well Waterlot	Fence	Heber	0.08
22420	Big Canyon Corral	Corral	Heber	
22421	Mud Tank Corral	Fence	Heber	0.06
22421	Mud Tank Corral	Corral	Heber	
22422	Owens Tank Corral	Corral	Heber	
22423	Bunger Corral	Corral	Heber	
22424	Turkey Corral	Corral	Heber	
22425	Buckskin Corral	Corral	Heber	
22426	Petes Tank Corral	Corral	Heber	
22427	Phoenix Park Corral	Corral	Heber	
22428	Junction Corral	Corral	Heber	
22501	Bigler Trick Tank Pipeline	Water System	Heber	1.92
22502	Mud Tank Well Pipeline	Water System	Heber	1.05
22503	Bigler Well Pipeline	Water System	Heber	5.74
22504	Red Knoll Well Pipeline	Water System	Heber	3.12
22504	Red Knoll Well Pipeline	Water System	Heber	0.80
22504	Red Knoll Well Pipeline	Water System	Heber	0.62
22505	Oil Well Pipeline	Water System	Heber	4.29
23002	Black Canyon / Heber Allotment Bdry	Fence	Black Canyon	2.21
23003	Black Canyon / Heber Allotment Bdry	Fence	Heber	2.87
23005	Black Canyon / Heber Allotment Bdry	Fence	Heber	3.62
23006	Black Canyon / Heber Allotment Bdry	Fence	Heber	3.71
23007	Black Canyon / Heber Allotment Bdry	Fence	Black Canyon	2.10
23008	Black Canyon / Heber / Private Allotment Bdry	Fence	Black Canyon	4.17
23008	Black Canyon / Heber / Private Allotment Bdry	Fence	Black Canyon	0.75
23501	Wildcat / Heber Allotment Bdry	Fence	Heber	0.58
23501	Wildcat / Heber Allotment Bdry	Fence	Heber	0.81
23506	Heber / Wildcat Allotment Boundary Fence	Fence	Wildcat	1.76
005260RG	Stermer Tank	Pit Tank	Heber	
5124x	Whiskey Springs	Spring	Heber	
	Turkey Springs #2	Spring	Heber	
36-12832	Turkey Springs #1	Spring	Heber	
	Outlaw Seep Spring	Spring	Heber	
	Hidden Spring	Spring	Heber	
005878RG	Bunger Spring	Spring	Heber	
	Walker Park Spring	Spring	Heber	
	Gentry Spring	Spring	Heber	
005861RG	Baca Springs	Spring	Heber	
	Holcolm Spring	Spring	Heber	
5191x	Wildcat Springs	Spring	Heber	
	Blevins Seep Spring	Spring	Heber	
005190RG	Patrick Stock Tank	Spring	Heber	

Heber Allotment - Nelson Pasture Improvements
 Black Mesa R.D.
 Apache-Sitgreaves N.F.s

Map Legend

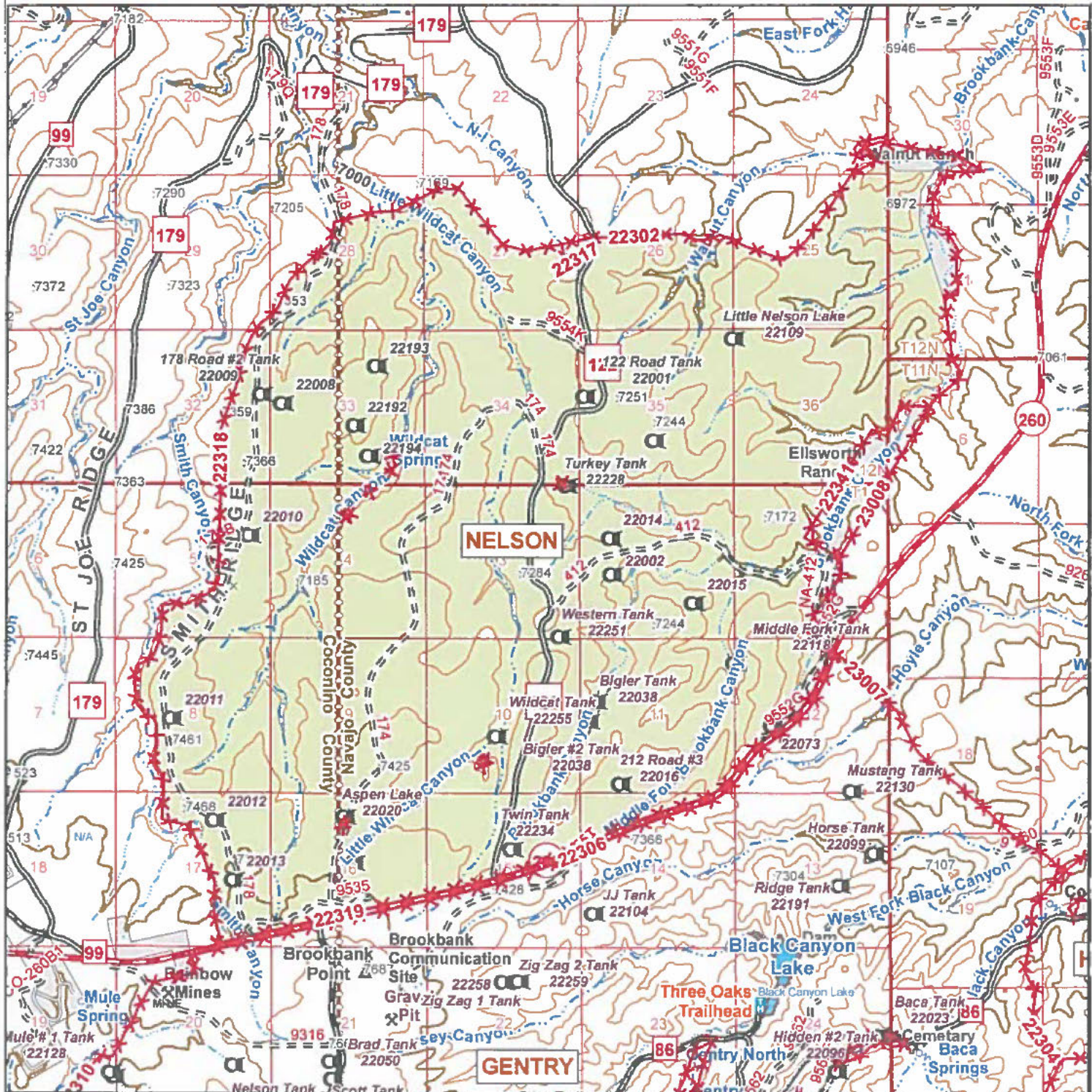
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| <ul style="list-style-type: none"> Forest Boundary District Boundary County Boundary Other Owner Waters: Water Point Spring / Seep Water Body Reservoirs Perennial Stream Intermittent Stream Ephemeral Stream | <ul style="list-style-type: none"> Constructed Feature Natural Barrier Fence Pipeline Powerline Roads: Level 5 (State Highway) Level 5 (Paved) Level 4 (Improved dirt) Level 3 (dirt) Level 2 (unimproved) Outside NFS Roads | <ul style="list-style-type: none"> Trough Storage Tank Stock Tank Trick Tank Guzzler |
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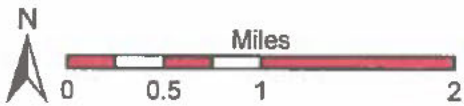
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Land Line Locations Are Approximate

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Heber Allotment - Gentry Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



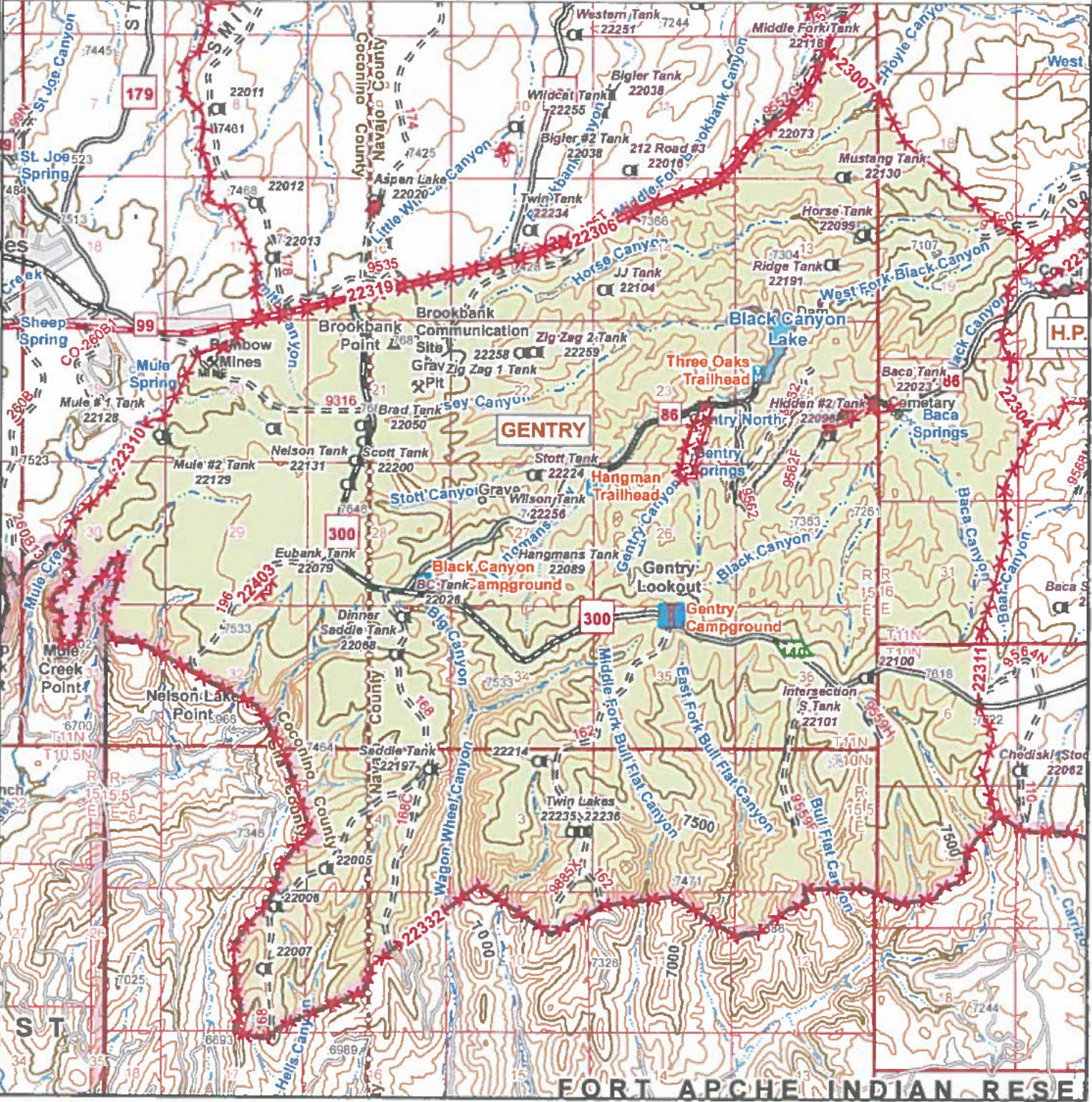
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| <ul style="list-style-type: none"> Forest Boundary District Boundary County Boundary Other Owner Waters: <ul style="list-style-type: none"> Water Point Spring / Geop Water Body Reservoirs Perennial Stream Intermittent Stream Ephemeral Stream | <ul style="list-style-type: none"> Constructed Feature <ul style="list-style-type: none"> Natural Barrier Fence Pipeline Powerline Roads: <ul style="list-style-type: none"> Level 5 (State Highway) Level 5 (Paved) Level 4 (Improved dirt) Level 3 (dirt) Level 2 (unimproved) Outside NFS Roads | <ul style="list-style-type: none"> Trough Storage Tank Stock Tank Trick Tank Guzzler |
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Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

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Heber Allotment - Bunger Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s

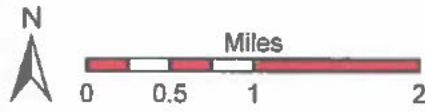
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| <ul style="list-style-type: none"> Forest Boundary District Boundary County Boundary Other Owner | <ul style="list-style-type: none"> Constructed Feature Natural Barrier Fence Pipeline Powerline | <ul style="list-style-type: none"> Trough Storage Tank Stock Tank Trick Tank Guzzler |
| <ul style="list-style-type: none"> Water Point Spring / Seep Water Body Reservoirs Perennial Stream Intermittent Stream Ephemeral Stream | <ul style="list-style-type: none"> Level 5 (State Highway) Level 5 (Paved) Level 4 (improved dirt) Level 3 (dirt) Level 2 (unimproved) Outside NFS Roads | |

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Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

Map created December 14, 2011 by a/r
T.L. Project\BMY\HeberAllot\GIS\Workspace\SR\Richardson
Saved as: BungerImprmts70k121411.pdf



Heber Allotment Phoenix Park Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



Map Legend

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> — Forest Boundary — District Boundary — County Boundary □ Other Owner Waters: <ul style="list-style-type: none"> ○ Water Point ○ Spring / BEEP ■ Water Body ■ Reservoirs — Perennial Stream — Intermittent Stream — Ephemeral Stream | <ul style="list-style-type: none"> — Constructed Feature — Natural Barrier — Fence — Pipeline — Powerline Roads: <ul style="list-style-type: none"> — Level 5 (State Highway) — Level 5 (Paved) — Level 4 (Improved dirt) — Level 3 (dirt) — Level 2 (unimproved) — Outside NFS Roads | <ul style="list-style-type: none"> ○ Trough ● Storage Tank ○ Stock Tank ○ Trick Tank ○ Guzzler |
|--|--|---|

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Land Line Locations Are Approximate

Map created December 14, 2011 by str
T.L. Project\BIM\HeberAllot\GIS\Workspace\SR\Richardson
Saved as: PhxParkImpvmts70k121411.pdf



Heber Allotment Halter Cross Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



Map Legend

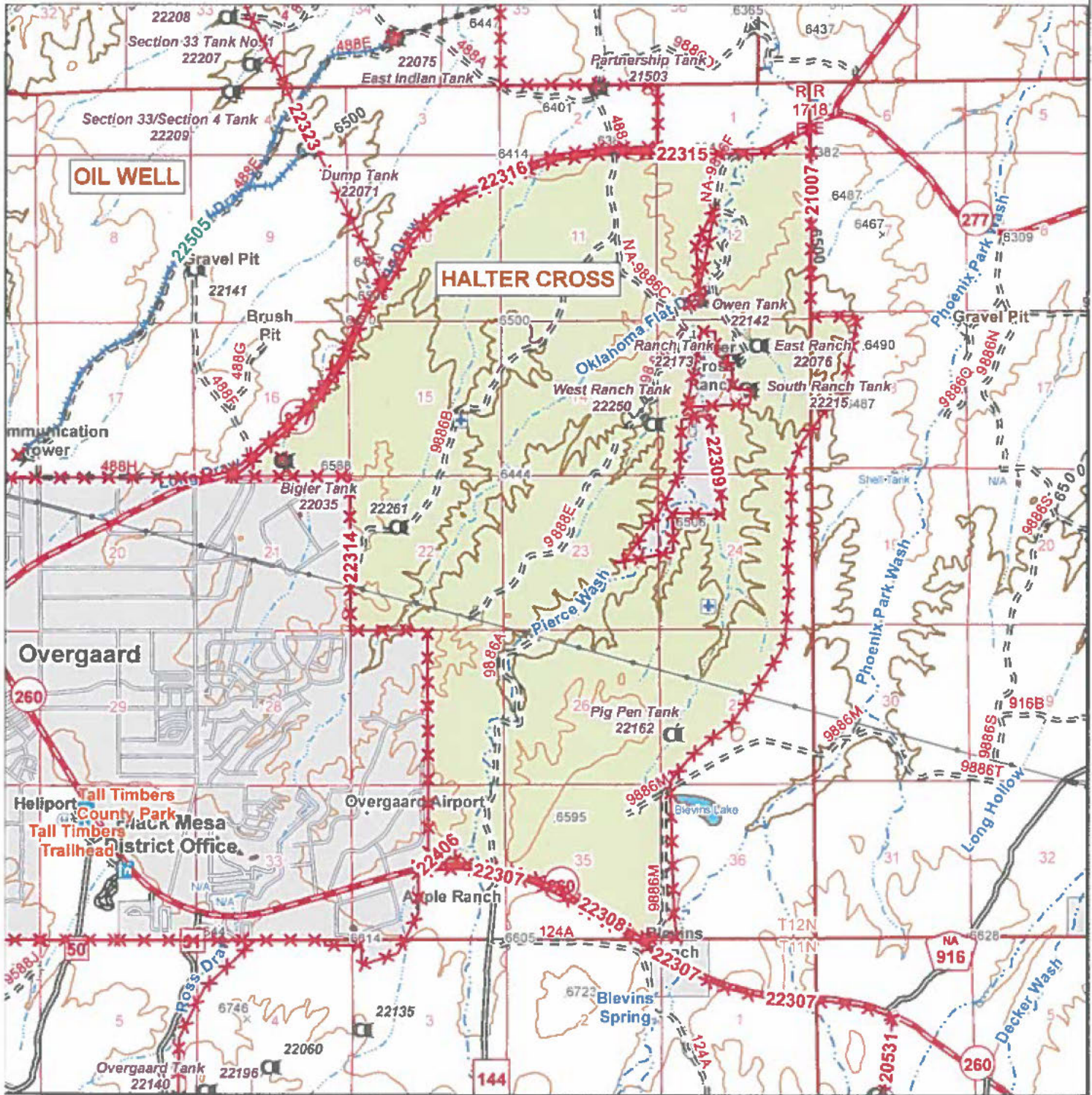
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|---|---|---|
| <ul style="list-style-type: none"> — Forest Boundary — District Boundary — County Boundary □ Other Owner <p>Waters:</p> <ul style="list-style-type: none"> • Water Point • Spring / Seep ■ Water Body ■ Reservoirs — Perennial Stream — Intermittent Stream — Ephemeral Stream | <p>Constructed Feature</p> <ul style="list-style-type: none"> — Natural Barrier — Fence — Pipeline — Powerline <p>Roads:</p> <ul style="list-style-type: none"> — Level 5 (State Highway) — Level 5 (Paved) — Level 4 (Improved dirt) — Level 3 (dirt) — Level 2 (unimproved) — Outside NFS Roads | <ul style="list-style-type: none"> — Trough • Storage Tank □ Stock Tank • Trick Tank • Guzzler |
|---|---|---|

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Land Line Locations Are Approximate

Map created December 14, 2011 by air
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Heber Allotment Oil Well Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s

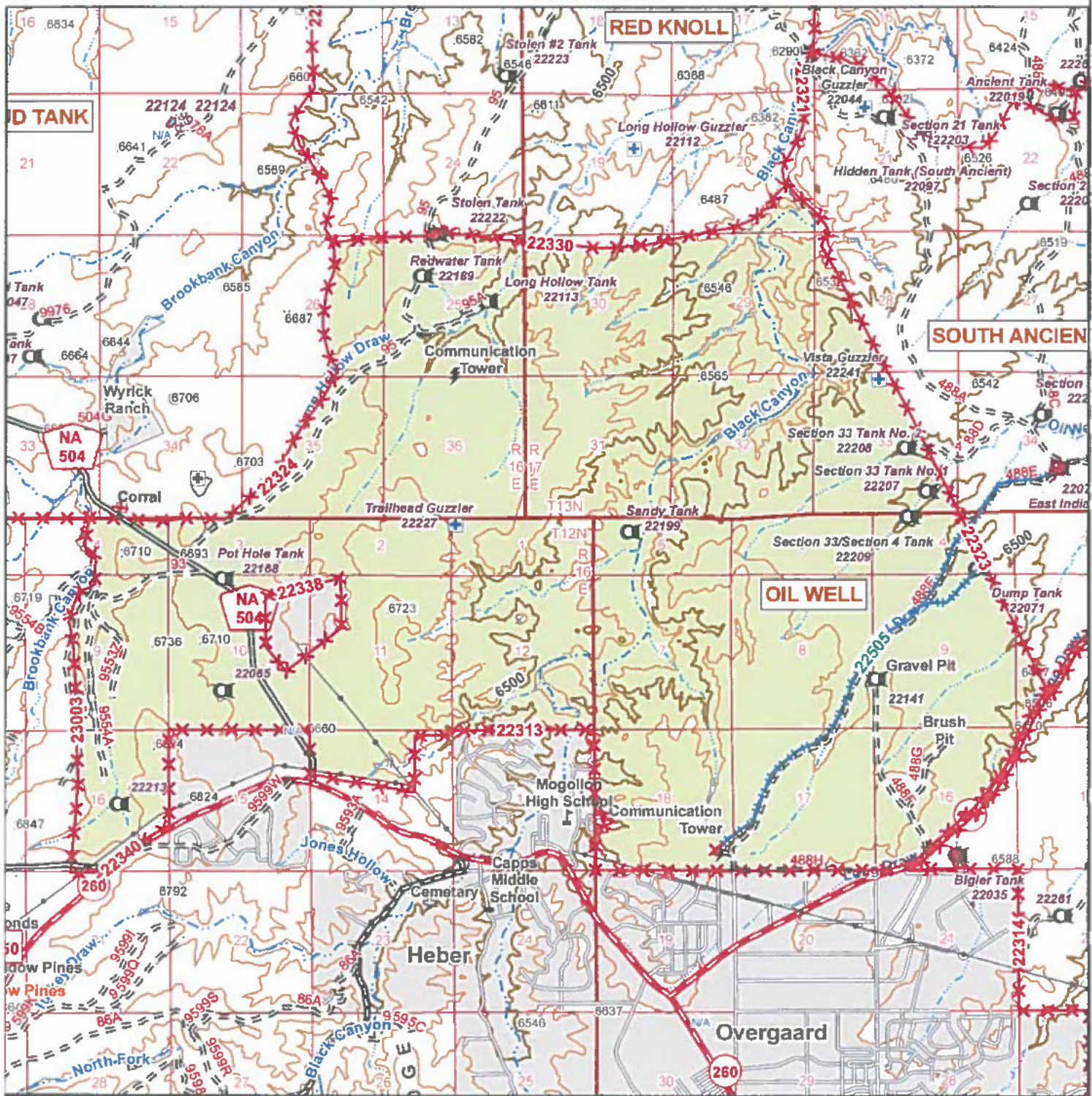


Map Legend

- Forest Boundary
- District Boundary
- County Boundary
- Other Owner
- Water:
 - Water Point
 - Spring / Seep
 - Water Body
 - Reservoirs
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
- Constructed Feature
 - Natural Barrier
 - Fence
 - Pipeline
 - Powerline
- Roads:
 - Level 5 (State Highway)
 - Level 5 (Paved)
 - Level 4 (Improved dirt)
 - Level 3 (dirt)
 - Level 2 (unimproved)
 - Outside NFS Roads
- Trough
- Storage Tank
- Stock Tank
- Trick Tank
- Guzzler

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 Projected Coordinate System: NAD 1983 UTM Zone 12N
 Land Line Locations Are Approximate

Map created December 14, 2011 by str
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 Saved as: OilWellImprvmtns80k121411.pdf



Heber Allotment South Ancient Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



- Forest Boundary
- District Boundary
- County Boundary
- Other Owner
- Waters:
 - Water Point
 - Spring / Seep
 - Water Body
 - Reservoirs
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream

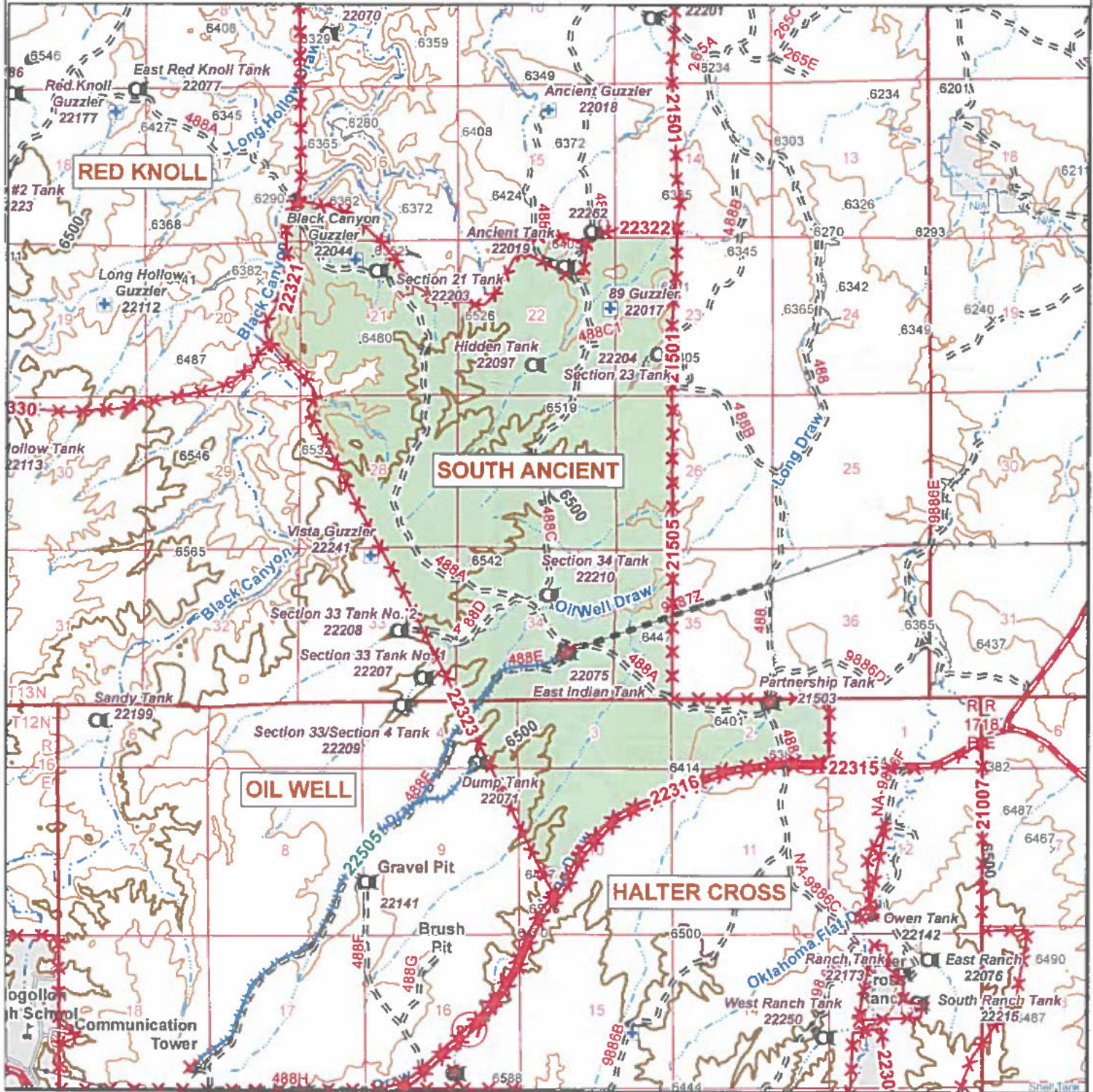
Map Legend

- Constructed Feature
 - Natural Barrier
 - Fence
 - Pipeline
 - Powerline
- Roads:
 - Level 5 (State Highway)
 - Level 5 (Paved)
 - Level 4 (Improved dirt)
 - Level 3 (dirt)
 - Level 2 (unimproved)
 - Outside NFS Roads
- Trough
 - Storage Tank
 - Stock Tank
 - Trick Tank
 - Guzzler

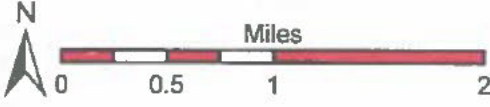
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 Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

Map created December 15, 2011 by str
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Heber Allotment Mud Tank Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



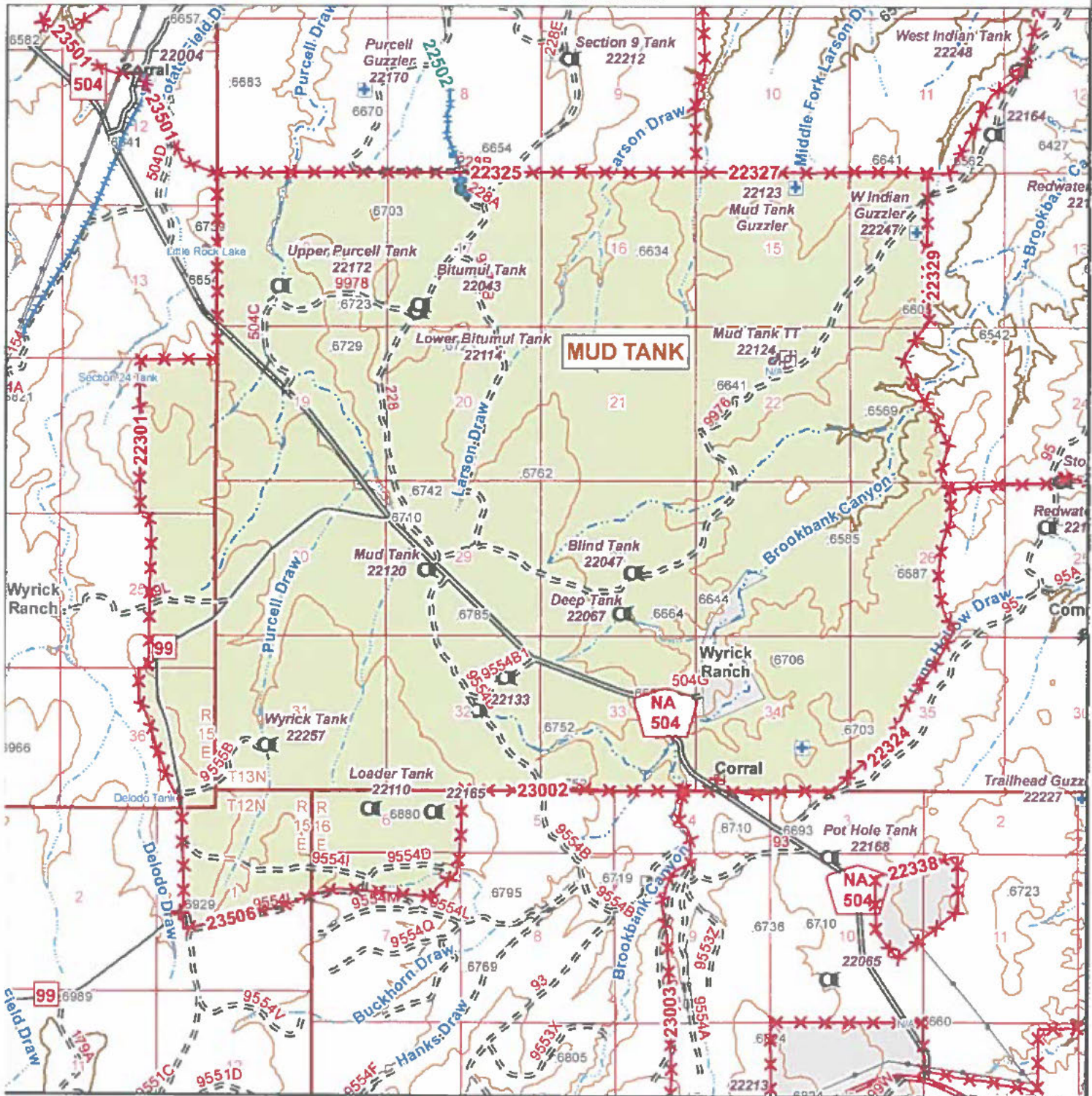
Map Legend

- Forest Boundary
- District Boundary
- County Boundary
- Other Owner
- Waters:
 - Water Point
 - Spring / Seep
 - Water Body
 - Reservoirs
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
- Constructed Feature
 - Natural Barrier
 - Fence
 - Pipeline
 - Powerline
 - Trough
 - Storage Tank
 - Stock Tank
 - + Trick Tank
 - + Guzzler
- Roads:
 - Level 5 (State Highway)
 - Level 5 (Paved)
 - Level 4 (Improved dirt)
 - Level 3 (dirt)
 - Level 2 (unimproved)
 - Outside NFS Roads

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 Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

Map created December 15, 2011 by sbr
 T:\Projects\HeberAllotment\GIS\Workspace\SRichardson
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Heber Allotment Red Knoll Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



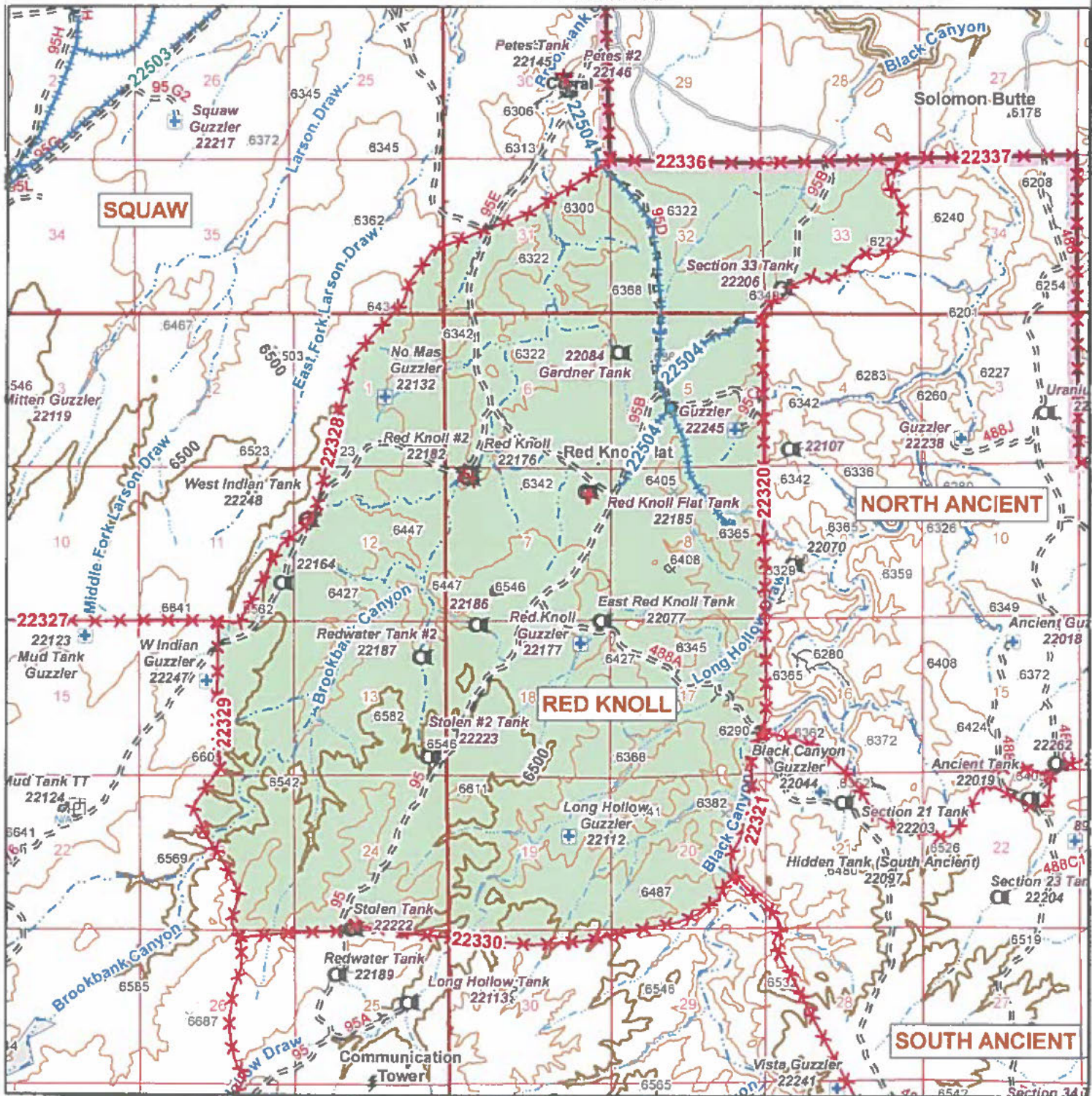
Map Legend

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| <ul style="list-style-type: none"> — Forest Boundary — District Boundary — County Boundary □ Other Owner Water: ○ Water Point ○ Spring / Seep ■ Water Body ■ Reservoirs — Perennial Stream — Intermittent Stream — Ephemeral Stream | <ul style="list-style-type: none"> — Constructed Feature — Natural Barrier — Fence — Pipeline — Powerline Roads: — Level 5 (State Highway) — Level 5 (Paved) — Level 4 (Improved dirt) — Level 3 (dirt) — Level 2 (unimproved) — Outside NFS Roads | <ul style="list-style-type: none"> — Trough ● Storage Tank ○ Stock Tank ○ Trick Tank ● Guzzler |
|---|--|---|

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Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

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Saved as: RedKnollImprvmts55k121511.pdf



Heber Allotment Squaw Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



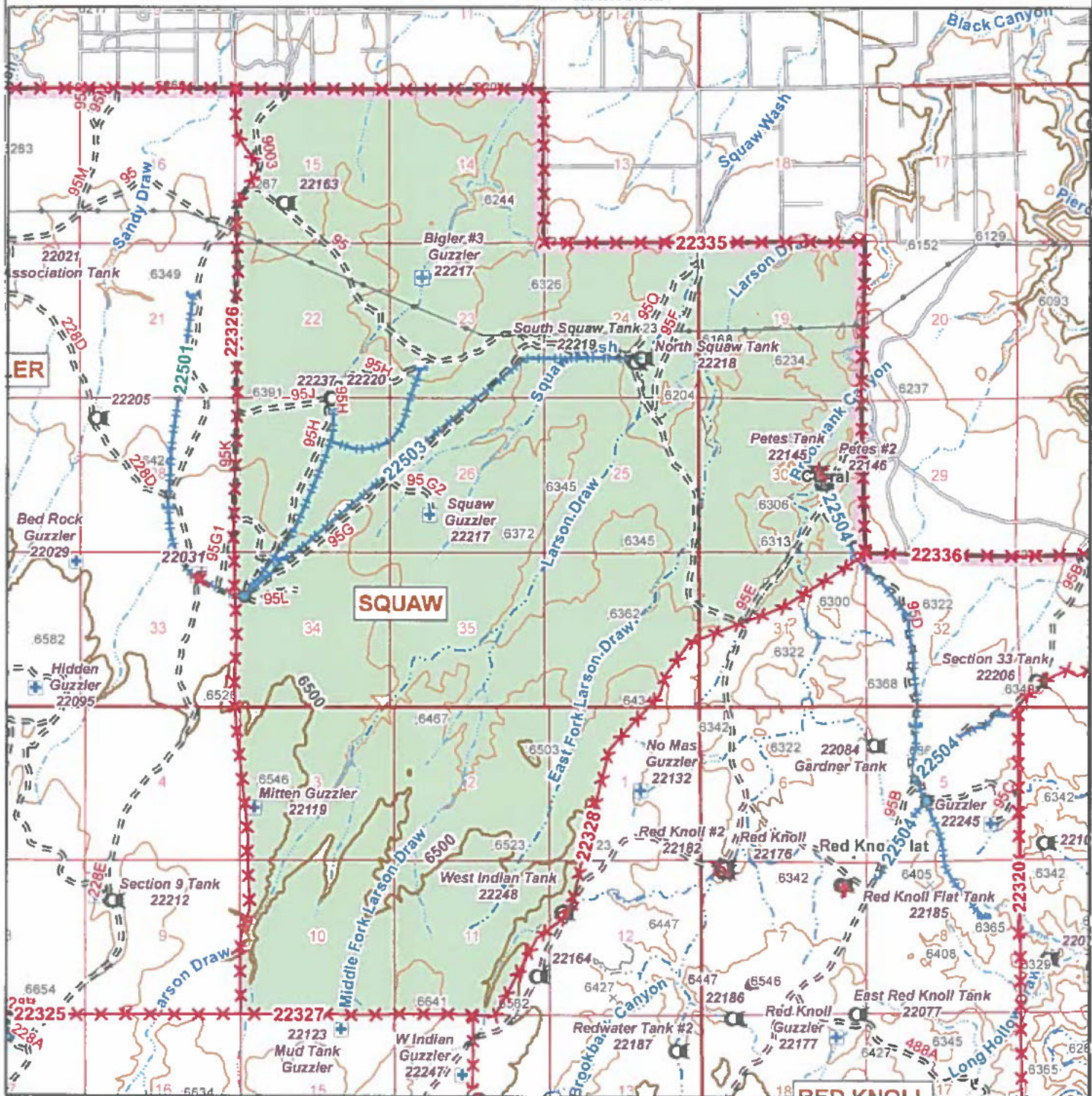
Map Legend

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|---|---|---|
| <ul style="list-style-type: none"> — Forest Boundary — District Boundary — County Boundary □ Other Owner <p>Waters:</p> <ul style="list-style-type: none"> ○ Water Point ○ Spring / Seep ■ Water Body ■ Reservoirs — Perennial Stream — Intermittent Stream — Ephemeral Stream | <p>Constructed Feature</p> <ul style="list-style-type: none"> — Natural Barrier — Fence — Pipeline — Powerline <p>Roads:</p> <ul style="list-style-type: none"> — Level 5 (State Highway) — Level 5 (Paved) — Level 4 (Improved dirt) — Level 3 (dirt) — Level 2 (unimproved) — Outside NFS Roads | <ul style="list-style-type: none"> — Trough ● Storage Tank □ Stock Tank ⊕ Trick Tank ⊕ Guzzler |
|---|---|---|

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Projected Coordinate System: NAD 1983 UTM Zone 12N

Land Line Locations Are Approximate

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Heber Allotment - Bigler Pasture Pasture Improvements Black Mesa R.D. Apache-Sitgreaves N.F.s



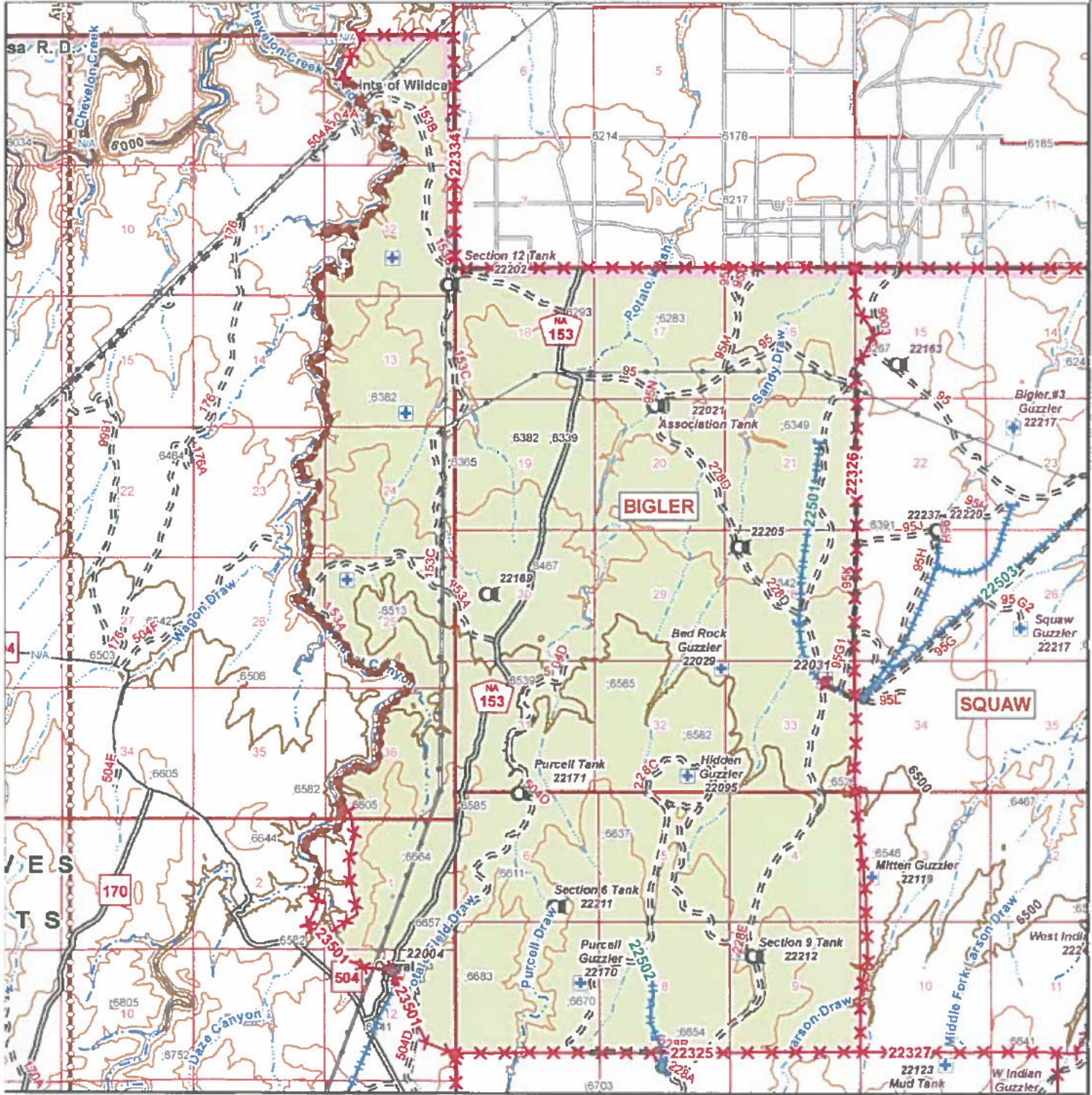
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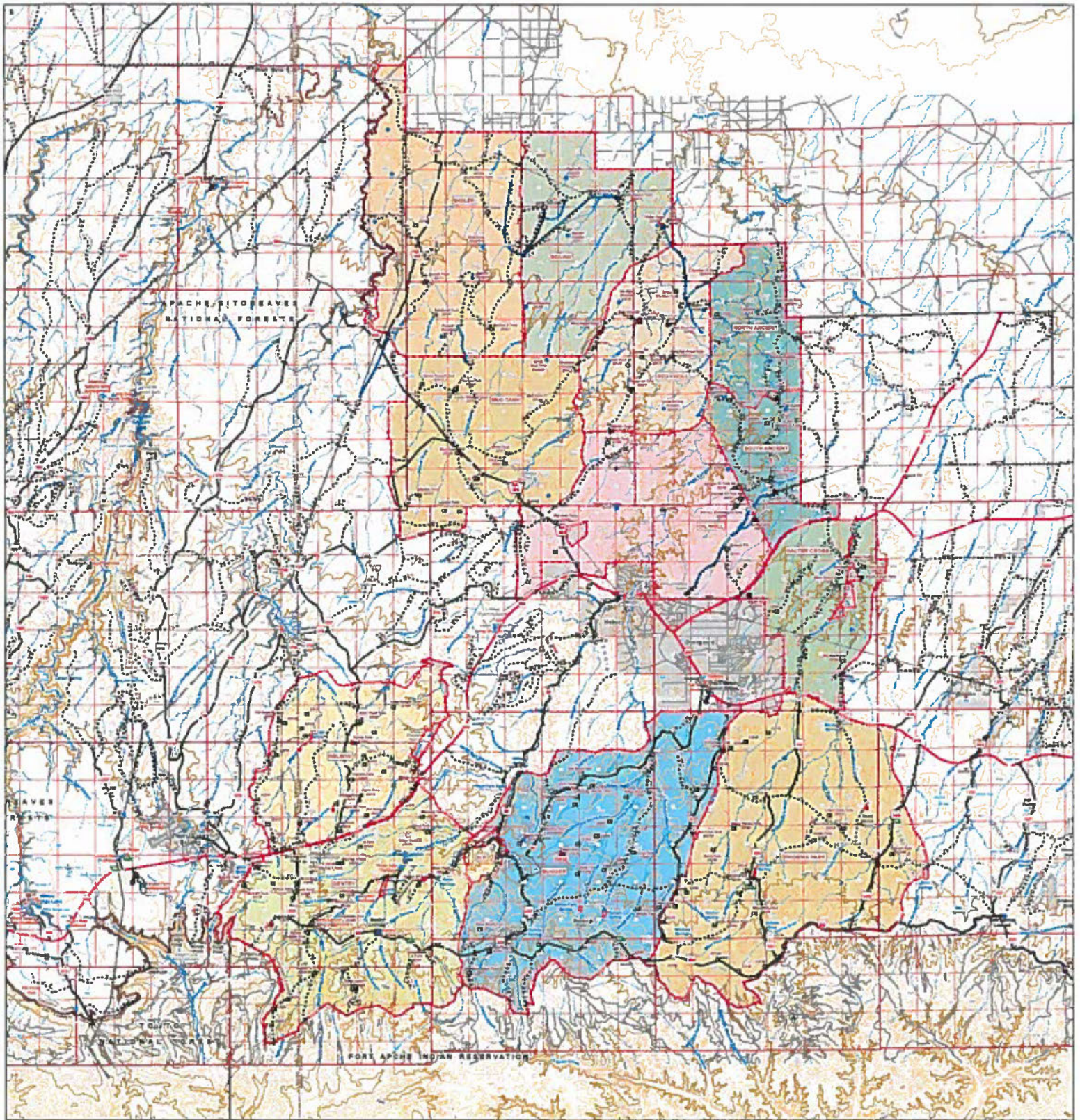
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|---|---|---|
| <ul style="list-style-type: none"> — Forest Boundary — District Boundary — County Boundary — Other Owner <p>Waters:</p> <ul style="list-style-type: none"> • Water Point • Spring / Seep ■ Water Body ■ Reservoirs — Perennial Stream — Intermittent Stream — Ephemeral Stream | <p>Constructed Feature</p> <ul style="list-style-type: none"> — Natural Barrier — Fence — Pipeline — Powerline <p>Roads:</p> <ul style="list-style-type: none"> — Level 5 (State Highway) — Level 5 (Paved) — Level 4 (Improved dirt) — Level 3 (dirt) — Level 2 (unimproved) — Outside NFS Roads | <ul style="list-style-type: none"> — Trough • Storage Tank □ Stock Tank • Trick Tank • Guzzler |
|---|---|---|

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Land Line Locations Are Approximate

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Heber Allotment
Black Mesa Ranger District
Apache-Sitgreaves National Forests
Allotment and Pasture
Improvements

Pasture Name	Acres	Pasture Name	Acres
Blyler	15,958	North Ancient	5,249
Bunger	21,886	Old Well	13,618
Gentry	17,809	Phoenix Park	23,808
Haver Cross	7,414	Red Knoll	9,652
H.P.	801	South Ancient	4,889
Mud Tank	13,220	Squaw	11,244
Nelson	11,007		

Map Legend

- Forest Boundary
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- Waters:**
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 - Spring / Seep
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 - Reservoirs
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
- Constructed Feature**
- Natural Barrier
 - Fence
 - Pipeline
 - Powerline
 - Trough
 - Storage Tank
 - ⊗ Stock Tank
 - ⊗ Trick Tank
 - ⊗ Guzzler
- Roads:**
- Level 5 (State Highway)
 - Level 5 (Paved)
 - Level 4 (Improved dirt)
 - Level 3 (dirt)
 - Level 2 (unimproved)
 - Outside NFS Roads



Map Scale Not Determined



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