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<b>GRAZING PERMIT - PART 3</b> (Reference FSM 2230)	Permittee Number <b>942578010602</b>			
	Permit Number <b>02064</b>			

**Allotment Management Plan (AMP):****I. INTRODUCTION**

The Wallace Allotment consists of approximately 42,614 acres and located 35 miles south of Winslow, Arizona within portions of Townships 11 and 12N, and Ranges 12 through 14 E, Gila and Salt River Meridian (G&SRM), Arizona. Elevations range from 6,200 to 7,500 feet. The topography is generally characterized by flat to moderate ridges that run north to south. Steep slopes do occur, associated with Grama Draw. The area is generally covered with trees, the dominant overstory species being ponderosa pine and pinyon-juniper woodland, with pockets of mixed conifer, aspen and riparian. This allotment management plan (AMP) shall set forth the objectives, management requirements, improvements needed and monitoring and evaluation standards for the Wallace Allotment as outlined in the Forest Plan and the Decision Notice signed by the District Ranger on January 13, 2000.

**II. OBJECTIVES****A. Vegetative Structural Stages (VSS)**

Objective is to achieve the following VSS distributions within 20 years of the date of the AMP on the allotment:

Desired	Existing	VSS distribution
VSS 1 = 10% or 1627 acres	3039 acres	3039 acres
VSS 2A = 10% or 1627 acres	0 acres	533 acres
VSS 2B = 5% or 813 acres	0 acres	0 acres
VSS 3A = 10% or 1627 acres	34 acres	1189 acres
VSS 3B = 5% or 813 acres	0 acres	0 acres
VSS 4A = 20% or 3253 acres	1204 acres	2174 acres
VSS 4B = 10% or 1627 acres	0 acres	0 acres
VSS 4C = 10% or 1627 acres	0 acres	0 acres
VSS 5A = 10% or 1627 acres	824 acres	976 acres
VSS 5B = 0%	7949 acres	6210 acres
VSS 5C = 10% or 1627 acres	3216 acres	2145 acres

**Size classes:**

VSS 1 = 0 to 0.2 inches Diameter Root Crown (DRC)

VSS 2 = 0.2 to 3" DRC

VSS 3 = 3 to 9" DRC

VSS 4 = 9 to 12" DRC

VSS 5 = 12+" DRC

**Canopy Closure**

VSS 1 = 0%

A = 10 - 20%

B = 21 - 40%

C = 40+%

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**Allotment Management Plan (AMP), continued****B. Range Conditions**

- The long- term goal for range conditions on the allotment in the pinyon-juniper woodland is fair or better on full capacity range. Strive to achieve within 25 to 30 years.

The short-term objective to meet the long-term goal is to strive to achieve a 10-15% increase in fair range condition within 10 years after full implementation of this AMP.

- The long-term goal for range conditions on the allotment in the ponderosa pine and mixed conifer habitats is fair or better on full capacity range. Strive to achieve within 25 to 30 years.

The short-term objective to meet the long-term goal is to strive to achieve a 10-15% increase in fair range condition within 10 years after full implementation of this AMP.

- The long-term goal for riparian habitat is in good or better range condition. Strive to achieve within 10 years.

**C. Browse**

- Browse stands are well distributed and are healthy. Browse stands contain the more desirable shrub species, such as cliffrose, ceanothus, fourwing saltbush, winterfat, and mountain mahogany. These stands will be considered healthy when no decadence is apparent, plant vigor is indicated by long leader lengths and growth forms are consistent with natural conditions (e.g. browse not clubbed in appearance and trees are not dwarfed or exhibit shrub form). Objective is to achieve in 10 years after full implementation.

**D. Watershed and Soils**

- Satisfactory soil conditions are maintained. Impaired soil condition is in an upward trend within one decade on all areas where the potential exists to restore soil productivity and hydrologic functions. Soils have the ability to accept, hold, and release water and nutrients. Soils have the ability to resist erosion and degradation because of adequate effective ground cover.
- Upland and riparian areas do not contribute to degraded water quality. Floodplain and channel characteristics are adequate to dissipate energy during high stream-flow events. Streambanks and channels are stable, with few headcuts. Watershed conditions on the fifth-code watershed are in satisfactory condition by 2020.

**E. Wildlife**

- Have 40% of the available forage on the allotment for wild ungulates. Strive to achieve within 5 years.

**F. Vegetation**

- Cool season grass species are diverse within each habitat type. Cool season grass and forb plants on full capacity range make up at least 50% of the herbaceous ground cover (given appropriate soil and climatic conditions). Strive to achieve within 25 to 30 years.

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**Allotment Management Plan (AMP), continued****III. MANAGEMENT**

The Term Grazing Permit will be issued for 425 head of yearlings from June 1 through October 15, for a total of 1032 animal unit months (AUMS) (a .54 conversion factor was used). A four pasture, deferred grazing system, using Grama, Barney, Butte, and the Waters Pastures would be implemented. The Tillman Pasture may be used briefly, only if water is present for adequate livestock distribution and for no more than 2 out of ten years.

The pasture rotation will likely be adjusted on a yearly basis and can vary based on several factors.

The desired utilization levels will be as follows: 25% on herbaceous forage species and 40% of terminal ends on browse species (see monitoring section for more details).

Livestock shall not enter the allotment until the scheduled date identified on the AOP or Grazing Permit. The Permittee shall provide at least 5 days advance notice of entering the allotment, the location of entry, and the means by which the livestock will be placed on the allotment. All livestock, including strays shall be removed from the allotment by the last day shown on the AOP and Grazing Permit.

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

A request for an extension of the grazing season must be received in writing at least 30 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 protection, seed crop for next year, etc.) and not based on permittee convenience. Approval applies to only current year and previous years' 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.

Livestock may be moved from pasture to pasture within 3 days of the planned rotation dates. At least 90 percent of the permitted livestock must be moved by the scheduled date, and all livestock must be moved within 3 days after the scheduled leave date. The permittee must notify the District Ranger if there is a need to deviate from 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 will be considered a violation of the Term Grazing Permit. Animals on the allotment after the "off" date may be billed at the unauthorized use rate and may be subject to other administrative actions on the permit.

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

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**Allotment Management Plan (AMP), continued**

Salt and mineral blocks may be placed in lightly used areas until the desired level of forage use is achieved. Blocks will not be placed in areas within a quarter mile of water or a riparian area and ideally no closer than 1/2 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 need to be placed at different sites. Blocks will be placed on sites not susceptible to erosion.

The permittee is encouraged to have off-Forest range to use in the event drought, excess forage utilization or other unforeseen events 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. The season or numbers may be adjusted in proportion to the amount of moisture that has been received to date.

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.

**IV. Improvements**

The range improvements planned for the allotment include:

Repair any leaks in Erramuzpe Trick Tank. Completed.

Install one cattleguard on the 70A at the Wallace Administrative Site. Completed.

Thin and individual tree pushing on approximately 2,810 acres of pinyon-juniper woodland. Forest Service will be responsible for all the fuelwooding, heritage clearances, block layout and all the pushing on the Tillman Pasture. In the Butte Pasture the Forest Service will do half the pushing and the permittee is responsible for the other half of the pushing. The first priority for treatment areas will be in the Butte Pasture and the stands that will become "A canopy closure" stands.

Maintain approximately 2,593 acres of existing pinyon-juniper openings. Strive to achieve a minimum of 300 acres per year. Forest Service will be responsible for the block layout, heritage surveys (if necessary) and the maintenance of half the acres. The permittee is responsible for the other half.

Specific locations of the PJ thinning and grasslands maintenance are on maps associated with the EA.

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## Allotment Management Plan (AMP), continued

Pasture	Compartment	Stand	Current VSS	Desired VSS	Acres	Treatment Type
Butte	4063	10	1	1	2593	maintain
Butte	4063	67	5B	2A	58	fuelwood/push
Butte	4063	76	5B	3A	46	fuelwood/push
Butte	4063	78	5B	4A	54	fuelwood/push
Butte	4063	81	5B	4A	64	fuelwood/push
Tillman	4062	5	5C	5A	79	fuelwood/push
Tillman	4062	37	5C	2A	239	fuelwood/push
Tillman	4062	39	5C	3A	477	fuelwood/push
Tillman	4062	42	5B	2A	27	fuelwood/push
Tillman	4062	47	5C	2A	276	fuelwood/push
Tillman	4062	55	5B	4A	168	fuelwood/push
Tillman	4062	73	5B	5A	73	fuelwood/push
Tillman	4062	79	5B	2A	135	fuelwood/push
Tillman	4069	3	5B	4A	225	fuelwood/push
Tillman	4069	11	5B	2A	74	fuelwood/push
Tillman	4069	18	5B	3A	245	fuelwood/push
Tillman	4069	24	5B	3A	111	fuelwood/push
Tillman/Barney	4068	8	5B	4A	459	fuelwood/push

The Forest Service will complete the above improvements as funding becomes available.

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**Allotment Management Plan (AMP), continued****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. All range improvements are the property of the U.S. Government.

A permit modification will 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. Ground disturbing activities will not be initiated by the permittee until proper clearances have been approved. Annual fence maintenance does not require approval.

**A. Fences. Standards for maintaining and construction are:**

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 spliced with good quality double strand, 12-1/2 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 wire. The bottom wire will be 18 inches from the ground. The remaining wire strands will be spaced as follow, counting from the bottom wire: 18 inches, 24 inches, 32 inches, and 42 inches.
7. Wire will not be over tightened and will be stretched to remove slack.
8. Broken posts or rotten wood posts will be replaced with a steel post or a juniper or treated wood post greater than 5 inches in diameter.
9. Brace posts will be maintained in tight and serviceable condition.
10. Steel posts that have settled may need to be jacked up and possibly moved. Leaning steel posts will be straightened.

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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 good quality wood, 1-1/2-inch by 3 inches in diameter. The bottom of each stay will rest on the ground. Galvanized stay wire will be used for tying stays. For 20-foot spacing between posts, three stays shall be used.
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.

**B. Water.** Issuance of this grazing permit and the permittee's acceptance of the permit does not convey ownership of a water right to the permittee(s) 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 with the State of Arizona. Grazing domestic livestock may not be possible without these water rights. The Forest will retain ownership of the 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. The following will be done:

**1. 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. Troughs should be level. Overflow pipes should be placed to avoid creating a boggy area at the trough. Rusted out troughs need to be replaced through a permit modification.
- 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 escape ramps for small mammals and birds. Escape ramps shall also be maintained.
- g. Trick tank support structure and tin shall be inspected annually to insure that the improvement is sound. All damages need to be repaired.

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**Allotment Management Plan (AMP), continued****2. Stock Tanks.**

- a. Check stock tanks for seepage.
- b. As a general rule, spillways need to be free of debris and obstructions. Eroded portions need to be repaired when they exist.
- c. Tanks need to be cleaned to their original capacity whenever drought or other circumstances occur that result in the tanks 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.

**V. Monitoring and Evaluation**

It should be recognized that monitoring is not an in depth analysis but a measure of indicators that may trigger further detailed analysis of a particular resource. Either monitoring or detailed analysis may trigger immediate corrective action on the allotment on a seasonal basis or as a change in the AMP and permit.

The following techniques to monitor grazing management:

**A. UTILIZATION**

Utilization should be determined according to a methodology described in "Utilization Studies and Residual Measurements". Compare actual utilization with allowable standards to determine compliance. Validation of grazing dates and stocking rates can be determined based on actual livestock use in comparison to utilization data.

Several places in each pasture will be selected for utilization monitoring. These areas will be referred to as Key Areas.

Utilization Data will be collected from key areas in each pasture.. Key species will be monitored in each key area for actual use.

Key areas and key species may need adjusting, based on better information, additional improvements, etc.

The desired utilization of these key species in key areas is 25%. Utilization could not be expected to exactly meet 25% each year, therefore in the long-term a 20 to 30% use would be considered within the acceptable range for this analysis. If annual utilization is above 30% or trends of annual utilization are above 25%, district personnel and the permittee need to re-evaluate the annual stocking. The above ranges apply both to the key species and key areas. If utilization falls outside of these ranges, either high or low, the stocking levels and/or management will be reevaluated. If utilization of one key area or key species is above 30%, then management of that key area should be reassessed such as salt placement, water location, etc.

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**Allotment Management Plan (AMP), continued**

The permittee is encouraged to conduct utilization monitoring, whether it be done by themselves or with the Forest Service. The measurements should be taken within 2 weeks after the scheduled pasture move date specified in the Annual Operating Plan. Pasture use monitoring should be documented and filed in 2210/2230. Successive monitoring data will be used in validating pasture and allotment capacities. Current information on precipitation, forage production, and/or use levels may be used to adjust annual grazing use. The permittee should also keep a copy for their records.

**B. COMPOSITION AND DENSITY**

To determine changes in composition and density, long-term validation will be accomplished through re-reading Parker 3 Step clusters and/or establishing Daubenmire (cover/frequency) transects as per R3 Rangeland Guide. These range clusters are suitable for determining long-term trend in vegetation and should be read approximately every 5 years. Great changes may not occur during the 5-year period but trend indications should be detected. The trend indications gathered from transects, should be measured against the desired condition/objectives.

New clusters or transects may be located within each pasture using various methods that may be scientifically acceptable at the time.

**C. GROUND COVER**

Determination of ground cover can be replicated at range clusters. In most cases, an increase in vegetation cover from baseline measures is considered as moving toward Desired Conditions (DC), a decrease is considered as not accomplishing DC. The intent is to measure the effectiveness and validate the projected changes anticipated of the chosen alternative. Ground cover data will be recorded with the composition and density data approximately every five years.

**D. CAPACITY ESTIMATES**

Objective is to determine if original capacity estimates based on desired use levels are correct for individual pastures, considering vegetation, landscape, resource conditions, and forage preference. A combination of utilization monitoring, composition and density and ground cover will be used to validate capacity estimates. The utilization monitoring, composition, density and ground cover data, yearly precipitation data from local stations and any other pertinent information should be reviewed by the District Ranger, Range and Wildlife personnel from the Forest Service, along with the permittee periodically to validate existing stocking and conditions. Due to the unpredictability of the results of the data collected, evaluations of stocking will need to be made at this time. Validation of capacity estimates may result in further adjustments in stocking rates, season of use, or both, either up or down.

**E. ACTIONS**

Monitoring will be used to adjust or amend previously described actions in the decision document or AMP. Information on validation monitoring should be shared with the permittee and others concerned with the decision. If the monitoring data is not achieving or moving toward the Desired Conditions, Forest Service personnel must analyze the problem and decide on a course of action. If necessary, an ID Team may be instituted to determine the corrective action needed. Re-initiation of NEPA may not be necessary if the action is still within the scope of the original decision.

Failure to comply, by the permittee, with the requirements of this Allotment Management Plan may result in suspension or cancellation of this Term Grazing Permit

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**Improvement List**

Improvement Name	Improvement Number	Pasture	Maintenance Responsibility
Highpoint Pipeline	20001	Butte	Wallace
Highpoint Trough #1	20001A	Butte	Wallace
Highpoint Trough #2	20001B	Butte	Wallace
Highpoint Trough #3	20001C	Butte	Wallace
Bull Tank	4208	Butte	Wallace
Chevelon Butte Tank	4202	Butte	Wallace
Erramuzpe Trick Tank	4212	Butte	AZGFD
Babbitt Tank	4215	Butte	Wallace
Forest Boundary Fence	4205	Butte	Wallace
Wallace-Clear Creek Fence	4220	Butte	Wallace
Butte-Tillman Division Fence	4216	Butte	Wallace
34 Road ROW Fence	4217	Butte	Wallace
Section 5 Tank	4214	Tillman	Wallace
Wallace-Clear Creek Fence	4220	Tillman	Wallace
Tillman-Barney Division Fence	4218	Tillman	Wallace
E. Tillman (34 Rd) Fence	4233	Tillman	Wallace
Butte-Tillman Division Fence	4216	Tillman	Wallace
Barney-Tillman Division Fence	4218	Barney	Wallace
Creswell Trick Tank	4211	Barney	AZGFD
Creswell Tank	4207	Barney	Wallace
Barney 34 Rd Fence	4222	Barney	Wallace
Barney-Tillman Division Fence	4218	Barney	Wallace
Barney 225 Rd fence	4219	Barney	Wallace
Barney-Grama Fence	4204	Barney	Wallace
Wallace Tank	20002	Barney	Wallace
70 Rd Tank	20003	Barney	Wallace
Grama Ridge Road Tank #1	20004	Barney	Wallace
Grama Ridge Road Tank #2	20005	Barney	Wallace
Grama Ridge Road Tank #3	20006	Barney	Wallace
Grama Ridge Road Tank #4	20007	Barney	Wallace
Barney Ridge Road Tank #1	20008	Barney	Wallace
Barney Ridge Road Tank #2	20009	Barney	Wallace
Barney Ridge Road Tank #3	20010	Barney	Wallace

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Barney Ridge Road Tank #4	20011	Barney	Wallace
Barney Ridge Road Tank #5	20012	Barney	Wallace
Barney Ridge Road Tank #6	20013	Barney	Wallace
Barney-Grama Division Fence	4204	Grama	Wallace
Grama-Waters Division Fence	20035	Grama	Wallace
Grama Pasture Fence West	20036	Grama	Wallace
120A Road Tank #1	20014	Grama	Wallace
120A Road Tank #2	20015	Grama	Wallace
120A Road Tank #3	20016	Grama	Wallace
120A Road Tank #4	20017	Grama	Wallace
120A Road Tank #5	20018	Grama	Wallace
120A Road Tank #6	20019	Grama	Wallace
120A Road Tank #7	20020	Grama	Wallace
120A Road Tank #8	20021	Grama	Wallace
120A Road Tank #9	20022	Grama	Wallace
120A Road Tank #10	20023	Grama	Wallace
120A Road Tank #11	20024	Grama	Wallace
120A Spur Road Tank #12	20025	Grama	Wallace
120A Spur Road Tank #13	20026	Grama	Wallace
120A Spur Road Tank #14	20027	Grama	Wallace
120 Road Tank #1	20028	Grama	Wallace
120 Road Tank #2	20029	Grama	Wallace
120 Road Tank #3	20030	Grama	Wallace
120 Road Tank #4	20031	Grama	Wallace
120 Spur Road Tank #5	20032	Grama	Wallace
120 Spur Road Tank #6	20033	Grama	Wallace
120 Spur Road Tank #7	20034	Grama	Wallace
Grama Trick Tank	4213	Waters	AZGFD
Hart Canyon Holding Pasture	4201	Waters	Wallace
Buck Tank	4209	Waters	Wallace
Horse Tank	4210	Waters	Wallace
Waters Pasture Fence	20049	Waters	Wallace
Waters-Barney 225 Rd Fence	4219	Waters	Wallace

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Waters-Grama Division Fence	20050	Waters	Wallace
Waters 120 Road Tank #1	20037	Waters	Wallace
Waters 120 Road Tank #2	20038	Waters	Wallace
Waters 225 Road Tank #3	20039	Waters	Wallace
Waters 120 Road Tank #4	20040	Waters	Wallace
Waters 34 Road Tank #5	20041	Waters	Wallace
Waters 34 Road Tank #6	20043	Waters	Wallace
216 Road Tank #1	20044	Waters	Wallace
216 Road Tank #2	20045	Waters	Wallace
216 Road Tank #3	20046	Waters	Wallace
216 Road Tank #4	20047	Waters	Wallace
216 Road Tank #5	20048	Waters	Wallace

Wallace Abolment  
Butte Pastora  
Structural Improvement Map  
1:30,000  
4/2001 JK

FS BDRY Fence  
004205

004215

20001A

20001

20001B

Wallace/Clear Creek Fence  
4220

004202

20001C

FS BDRY Fence  
004205

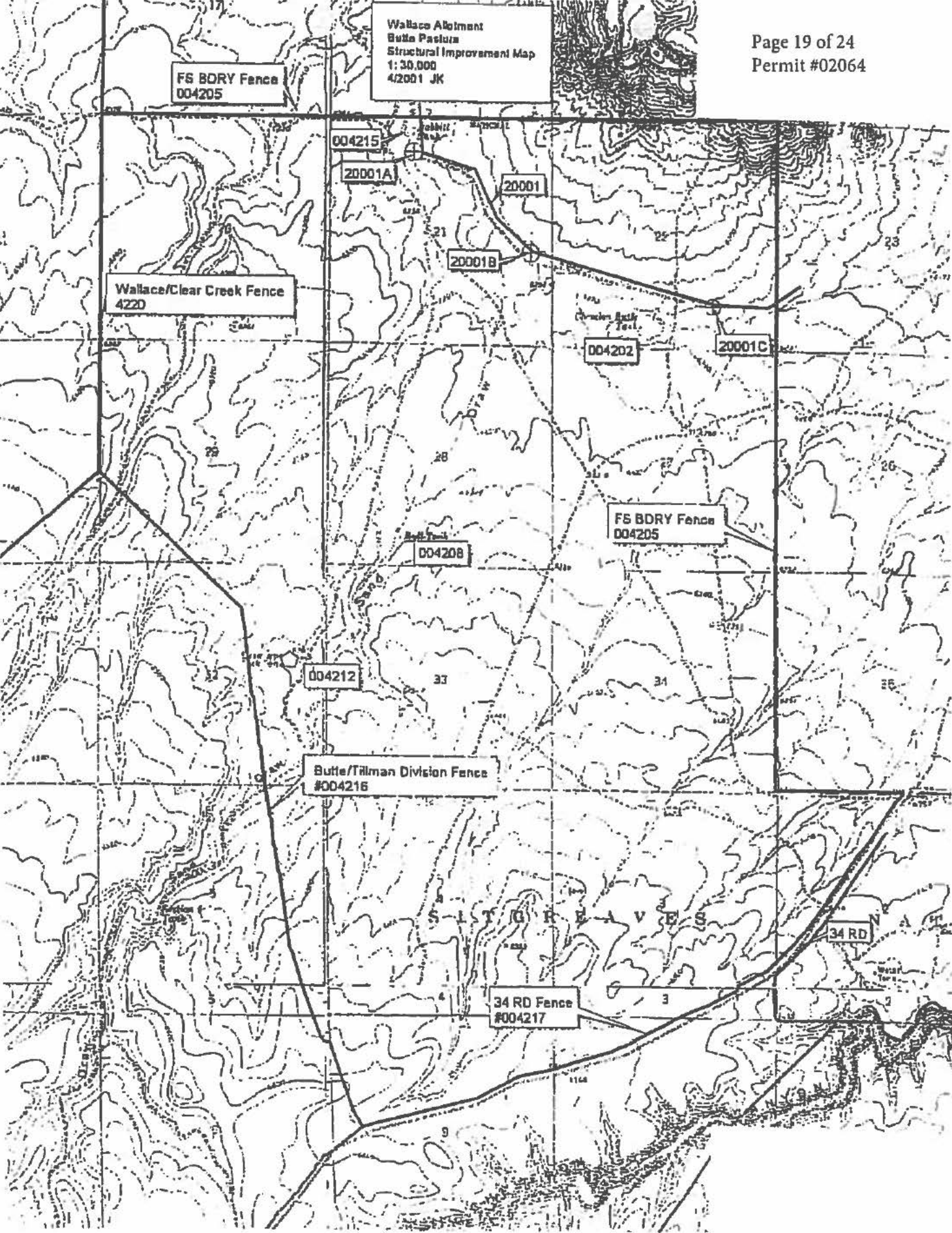
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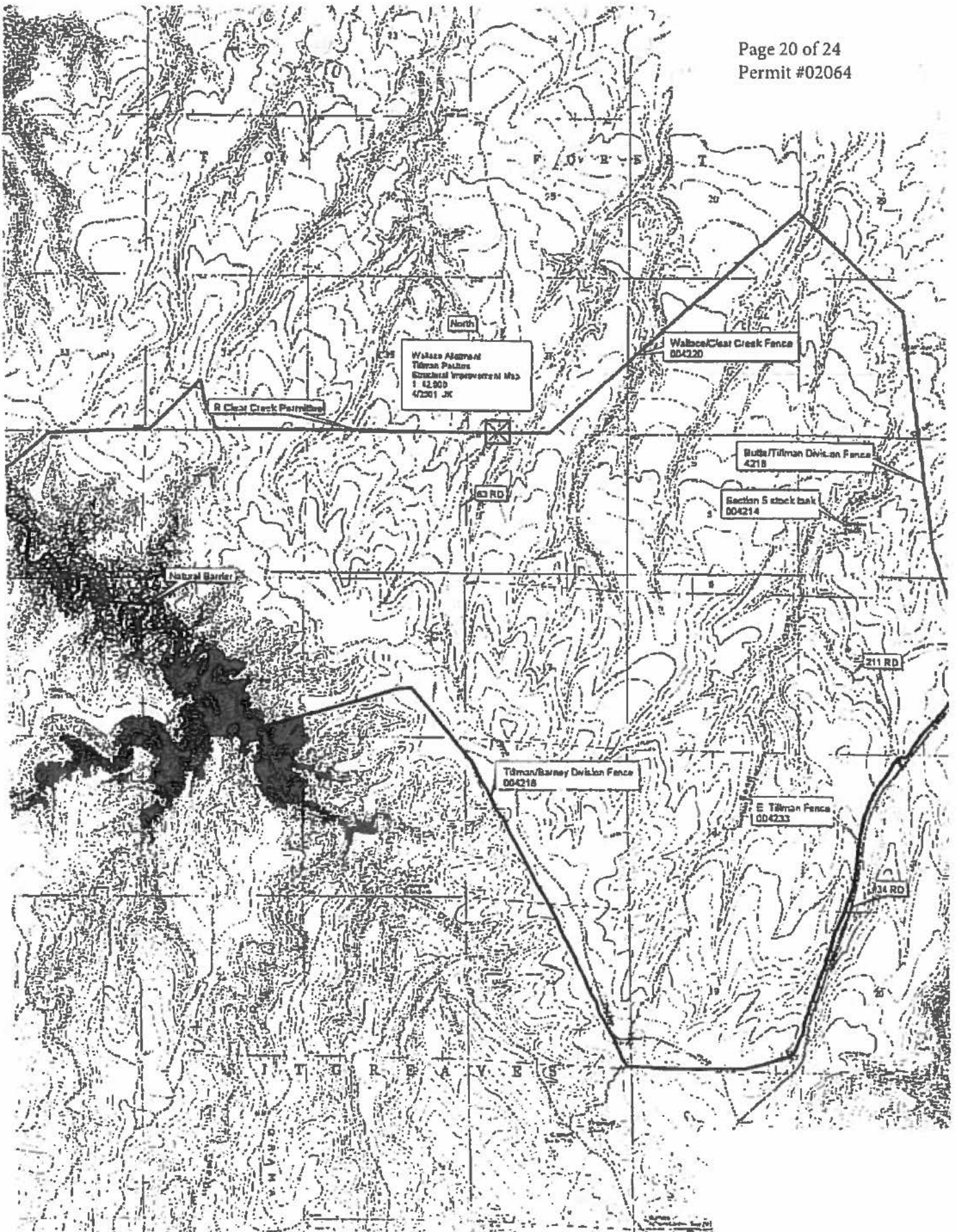
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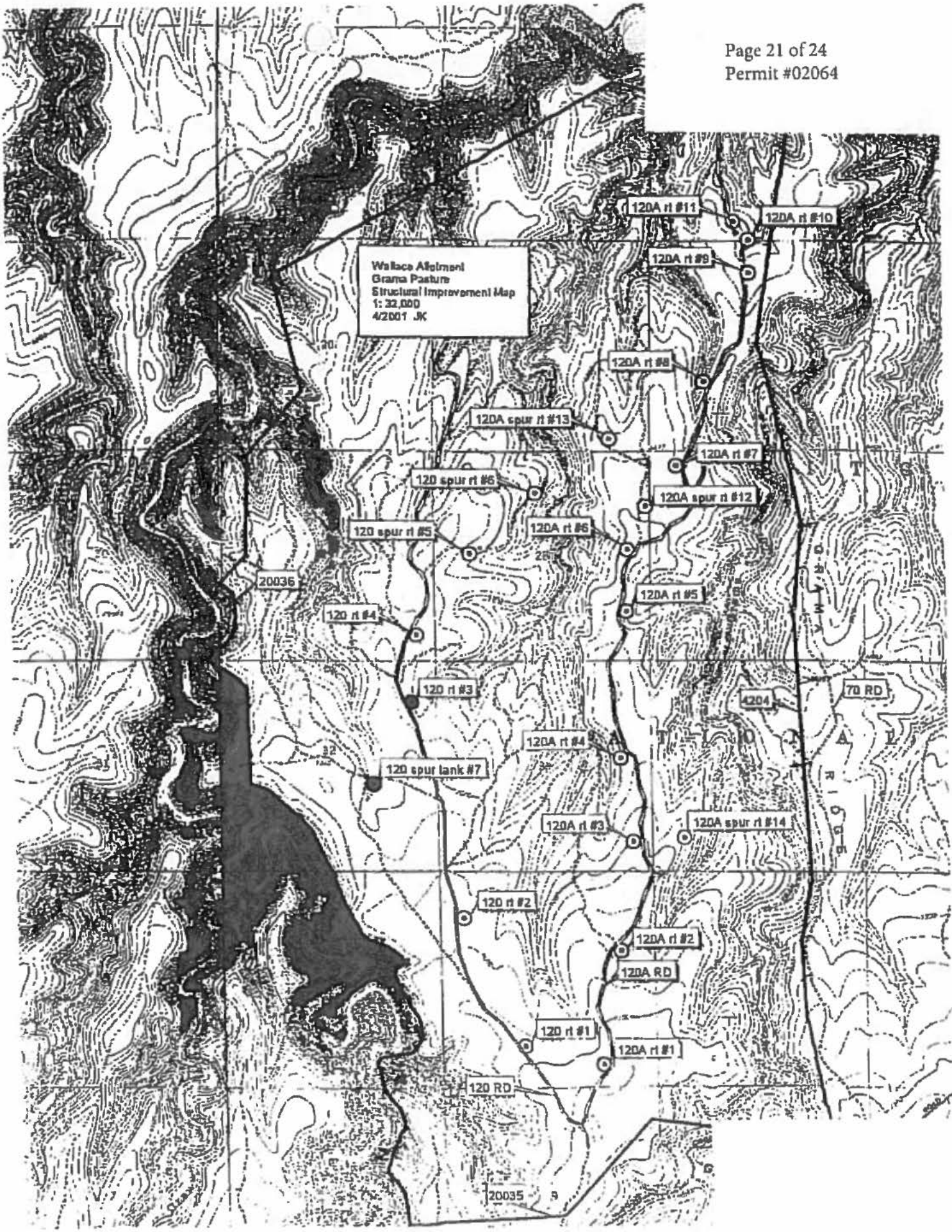
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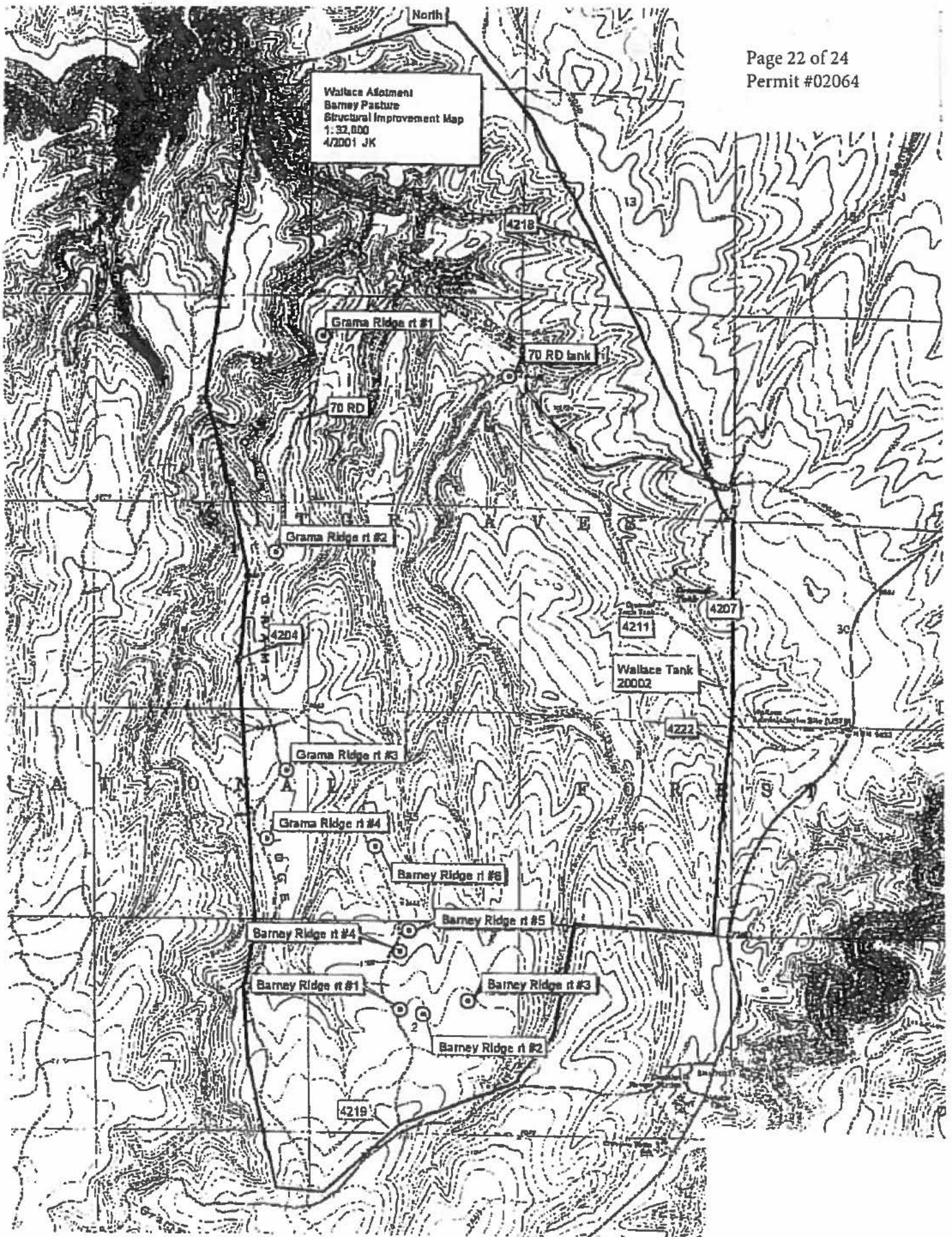
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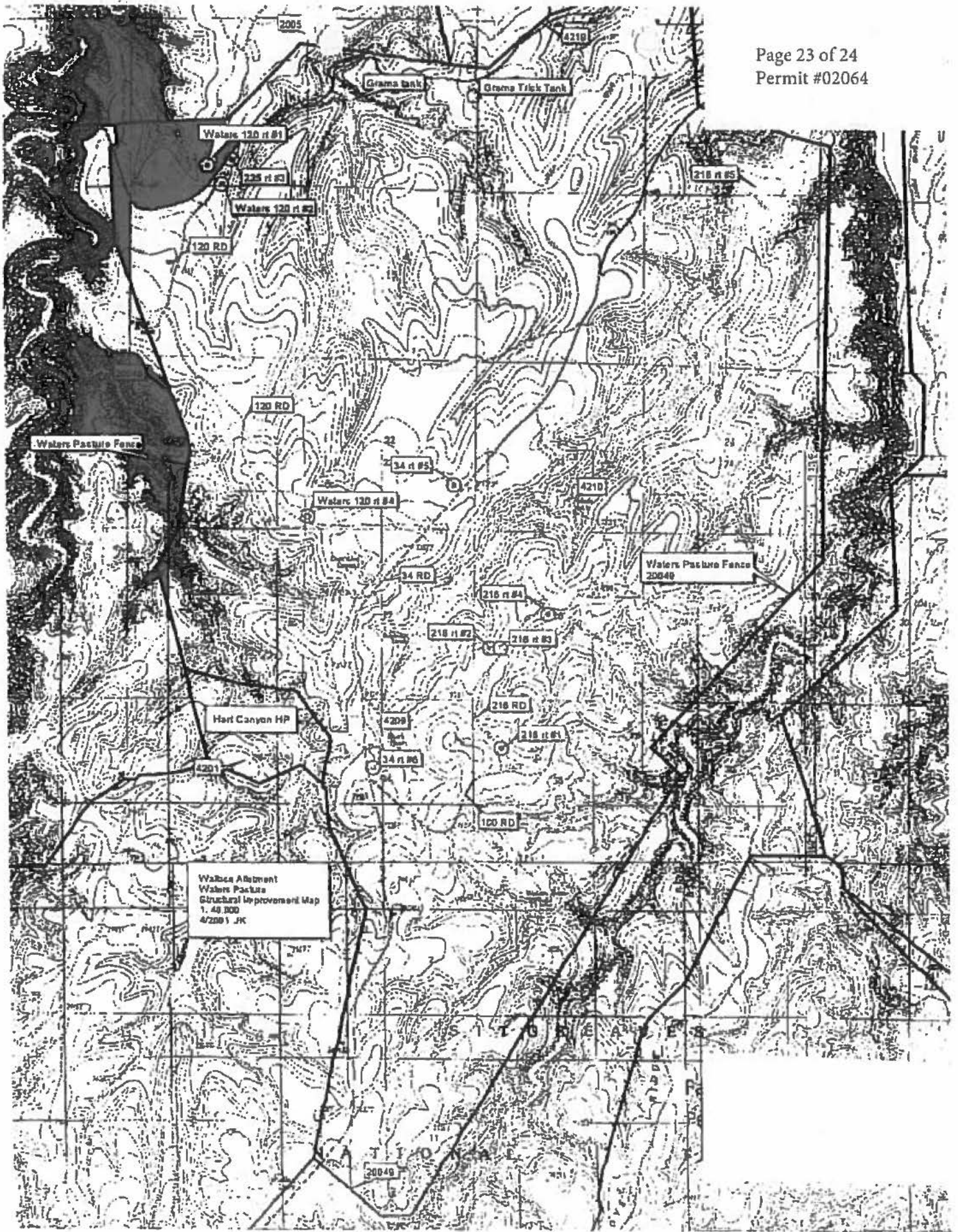
34 RD

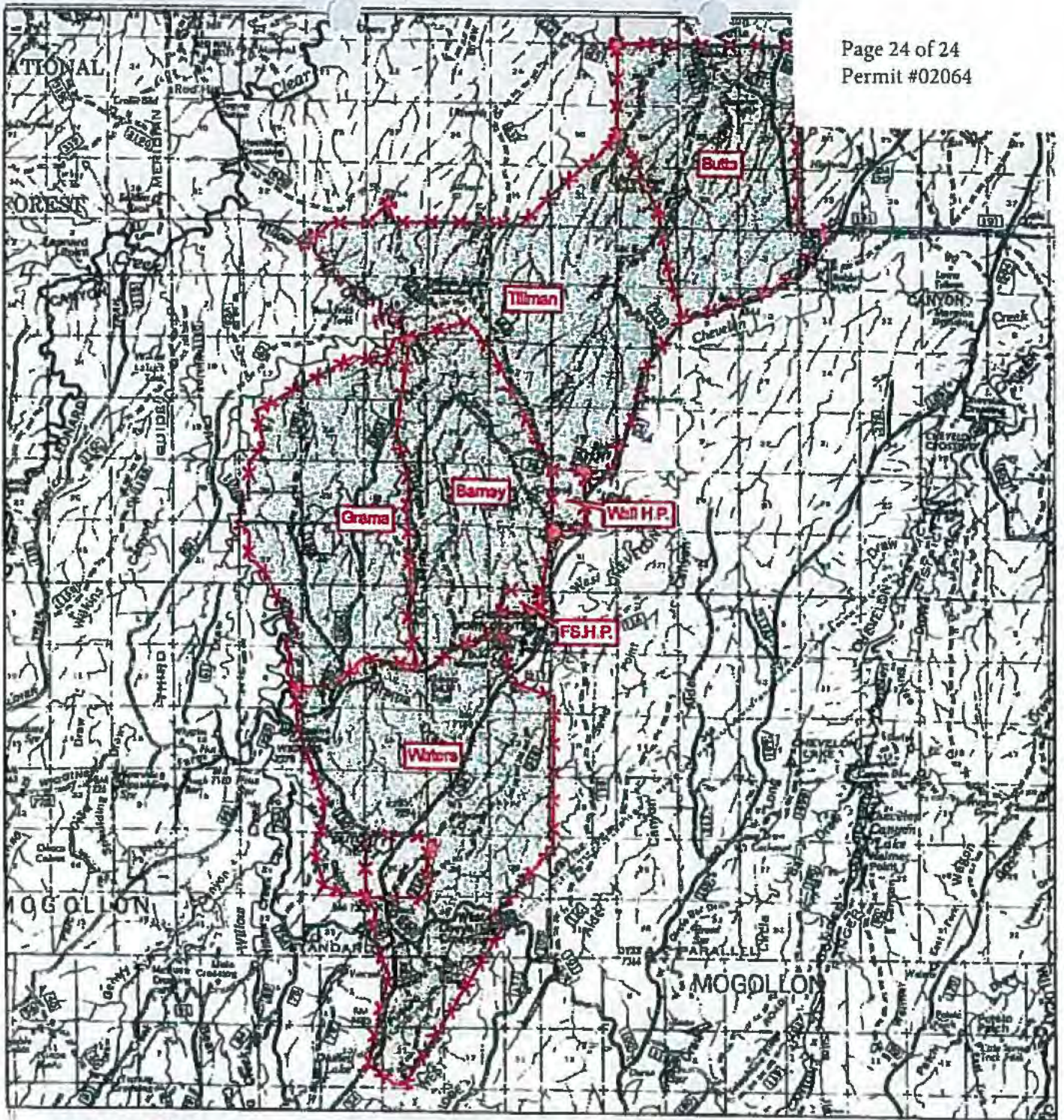




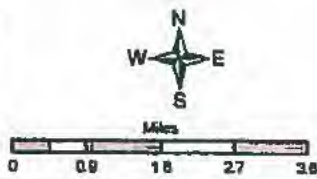








**Wallace Allotment**  
 Black Mesa R.D.  
 Apache-Sitgreaves N.F.s



**Map Legend:**

-  Wallace Allotment
- Improvement Type:**
-  Fence
-  Natural body

**Disclaimer Statement**  
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Map Prepared by SFR      Date prepared: 3/21/2008  
 wallace\_allotment40k.pdf