

Permit No. **P00-018AAT**
A.I. No. _____

STATE OF MISSISSIPPI

Application No. **A1269AAT**

APPLICATION TO AMEND AN EXISTING PERMIT

AI#12667

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY / MINING & RECLAMATION DIVISION

P. O. Box 2279

Jackson, Mississippi 39225-2279

(601) 961-5515

Fax (601) 961-5521

For Office use only

| | |
|-----------------------------|-------|
| Other permits required: Y/N | Date |
| NPDES | _____ |
| State Operating Permit | _____ |
| Corps of Engineers | _____ |
| _____ | _____ |
| _____ | _____ |

| | | | | | |
|----------------------|----------|-----|-------|----|-------|
| City/County approval | Required | Yes | _____ | No | _____ |
| Received Date: | _____ | | | | |
| County | _____ | | | | |
| City | _____ | | | | |

A. GENERAL INFORMATION

Existing Permit No. P00-018AAT Current Acreage 239

1.. Name of Applicant: EP Minerals, LLC
Mailing Address: P.O. Box 9 Middleton, TN 38052
E-mail Address: jim.loepky@epminerals.com
Phone No. (731)376-8411 Fax No. (731)376-8404
Authorized Representative Jim Loepky, Plant Manager

2. Engineering Firm, Consultant, etc.: None
Mailing Address: _____
E-mail Address: _____
Phone No. _____ Fax No. _____

3. Name of Mine: Mississippi Mine I Tippah County Mine Supervisor: James N Greene
Phone No. (731)376-8411 Fax No. (731)376-8404

4. Location of Operation (to nearest quarter-quarter section):
_____ 17 1S 4E Tippah _____
Section Township Range County

5. Physical address or nearest named road Approximately 1.5 miles west of MS HWY 15

6. Type of Amendment

Amendment to Expand Operation Amendment not involving an acreage change

7. Method of Operation

Open Pit Strip Dredge Wash Operation, if so Water Source N/A
Wash System Type Closed system Open system

8. Acres of new excavation → 10
New haul roads, plant site, storage piles, etc. → same
Total new acreage → 10
Number of acres already permitted → 239
Total acres for amended permit → 249

9. Is the Permit Area located: Yes No
a. within 100 feet of a public road? _____
b. within 100 feet of a cemetery? _____
c. within 300 feet of an occupied building? _____

Materials to be mined Montmorillonite Clay

If YES to a, b, or c, a letter must be filed with the Office giving permission from the owner or maintaining authority to mine within these distances to the subject property.

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10. Has the applicant applied for, or have, any other permits or licenses that pertain to this or any other mining operation? Yes No

If "YES," list them in the space provided on page 5, or attach separate pages, and give the current status of each, including any violations or penalties.

B. MINING PROCEDURE AND ENVIRONMENTAL ANALYSIS

- | | |
|---|--------------------------------------|
| 1. Description of materials: | 2. Anticipated Schedule (month/year) |
| Thickness of overburden <u>8-10</u> ft. (Topsoil MUST be stockpiled for use during reclamation) | Begin clearing <u>10/2013</u> |
| Thickness of useable material <u>15-20</u> ft. | Begin mining <u>10/2013</u> |
| Total depth of excavation <u>30</u> ft. | Complete mining <u>10/2015</u> |
| Estimated annual production _____ tons | Begin reclamation <u>12/2015</u> |
| | Complete reclamation <u>12/2016</u> |
3. Depth to ground water: 36-40 ft.
4. How will dust be controlled?
- Water on haul roads
- _____
5. Types of erosion control structures that will be utilized.
- Settling ponds Drainage ditches
- Diversion berms Terraced slopes
- _____
6. Describe the land to be affected by mining as it presently exists:
- a. Land use untended agriculture b. Predominant vegetation grass cover
7. Will explosives be used? ____ Yes No
8. Is test-boring data available? Yes ____ No
9. Are toxic materials likely to be encountered at any time? ____ Yes No
10. Will there be any discharge to local streams or other bodies of water? Yes ____ No

If any of questions 7-10 are answered "YES," provide additional information on page 5, or attach separate pages.

C. RECLAMATION PLAN

NOTE: It is suggested that the county NRCS office be consulted for specific recommendations on the following items.

1. Describe the soil handling technique for the reclamation phase of the operation:
- Topsoil segregated Mixed strata overburden stockpile separated from topsoil
2. Describe the protection method for the stockpiled topsoil.
- berm around the storage pile
- grass cover on the pile (recommended)
- stored under a cover
- _____
3. How will highwalls, standing faces, and banks be reduced to minimize erosion? (All highwalls must be sloped, minimum 3 horizontal to 1 vertical.)
- slopes will be terraced
- sloped to a gradient of 3 to 1
- blended with surrounding contours

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4. What is the general plan for reclamation?

- reforestation
- establish grass cover
- pond or lake
- _____

5. What planting method will be used?

- broadcast seed mechanical seeding
- seeding by manual labor
- _____

6. How will fertilizer and lime be applied and incorporated?

- harrowing broadcasting disking

7. Quantity of lime and fertilizer to be applied?

a. For initial planting

lime: 4 tons per acre
 fertilizer: 13 - 13 - 13 (type) 1,200 pounds per acre

b. For successive years prior to 100% release

fertilizer: 13 - 13 - 13 (type) 1,200 pounds per acre
 when: April-May (month)

8. Describe the planting schedule:

| Tree or Seed Species | Tree spacing or lbs./acre | Planting Season |
|--|------------------------------|------------------|
| <u>Serreca, Sedge, Bermuda</u> | <u>@ 15 lbs/ac</u> | <u>April-May</u> |
| <u>KY 31 Fescue</u> | <u>@ 30 lbs/ac</u> | <u>Sept-Oct</u> |
| <u>After 3 years, pine seedlings U.S. Forest Serv Std.</u> | | <u>Spring</u> |

9. Will the area be mulched? Yes No If yes, rate per acre Hay - 1.5 bales/ac

Method of holding in place: crimped _____

10. How will the vegetation be maintained until the final bond release?

- watering
- mowing
times per year 3
approximate month(s) May, July, September
- repairing gullies
- replanting eroded areas
- _____

11. How will debris be disposed of when the mine is finally closed?

- burying burning hauling away

12. Will a soil analysis be submitted for this site? Yes No

NOTE: available from the Cooperative Extension Service through the applicant's County Agent

13. Estimated cost per acre for reclamation of this site: \$1,000/ac = \$10,000 (minimum of \$1,000 per acre)

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D. NAMES AND ADDRESSES OF PERSONS AFFECTED BY THIS OPERATION

1. Landowner(s) of area to be mined/leased

Name: EP Minerals, LLC
Address: _____
Phone: _____

Name: _____
Address: _____
Phone: _____

2. Landowner(s) within 500 feet of the area

Name: G.W Camburn
Address: 1010 County Road 120
Walnut, MS 38683
Phone: (662)223-4751

Name: Richard McCoy
Address: 31751 HWY 15N
Walnut, MS 38683
Phone: (662)223-5557

Name: William Boyd
Address: 270 County Road 120
Walnut, MS 38683
Phone: (662)223-4993

Name: Jesse Cutrer
Address: P.O. Box 54
Walnut, MS 38683
Phone: _____

3. Person(s) living on permit area

Name: N/A
Address: _____
Phone: _____

Name: _____
Address: _____
Phone: _____

I declare that I have knowledge of the facts presented in the preceding pages and in all of the items attached to this application; furthermore, I certify that they are true to the best of my knowledge.

4-9-13
date

[Signature]
signature

TIM LOEPPKY
printed name

PLANT MANAGER
title

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E. ADDITIONAL COMMENTS

| Item Number | Space for detailed answers to any of the previous items. Indicate item number to which the answers apply. |
|-------------|--|
| | <p>EP Minerals, LLC requests an extension to our current mine area, Mississippi mine #1, permit # P00-018AAT. The proposed mine site is located directly west of our current mine, which is active with no violations. Mine area drains generally west, southwest. Any runoff will be controlled by catch basins and check dams. Drainage to the creek will be controlled by check dams and small catch basins with rip rap lined emergency spillways. In areas of excessive silt runoff, sediment basins will be constructed to hold a 24 hour storm event. Water quality in basins will be monitored by taking grab samples and results recorded. PH will be adjusted with hydrated lime and water will be discharged with 6.6 to 7.4 range.</p> |
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If more space is required, use full sheets of paper the same size as this page. Attach all sheets to this application.

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Mining and Reclamation Division
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ORGANIZATION REPORT

This is the initial and principal instrument that identifies an organization to the Office of Geology. It is imperative that it be fully and correctly executed and filed with the Office of Geology.

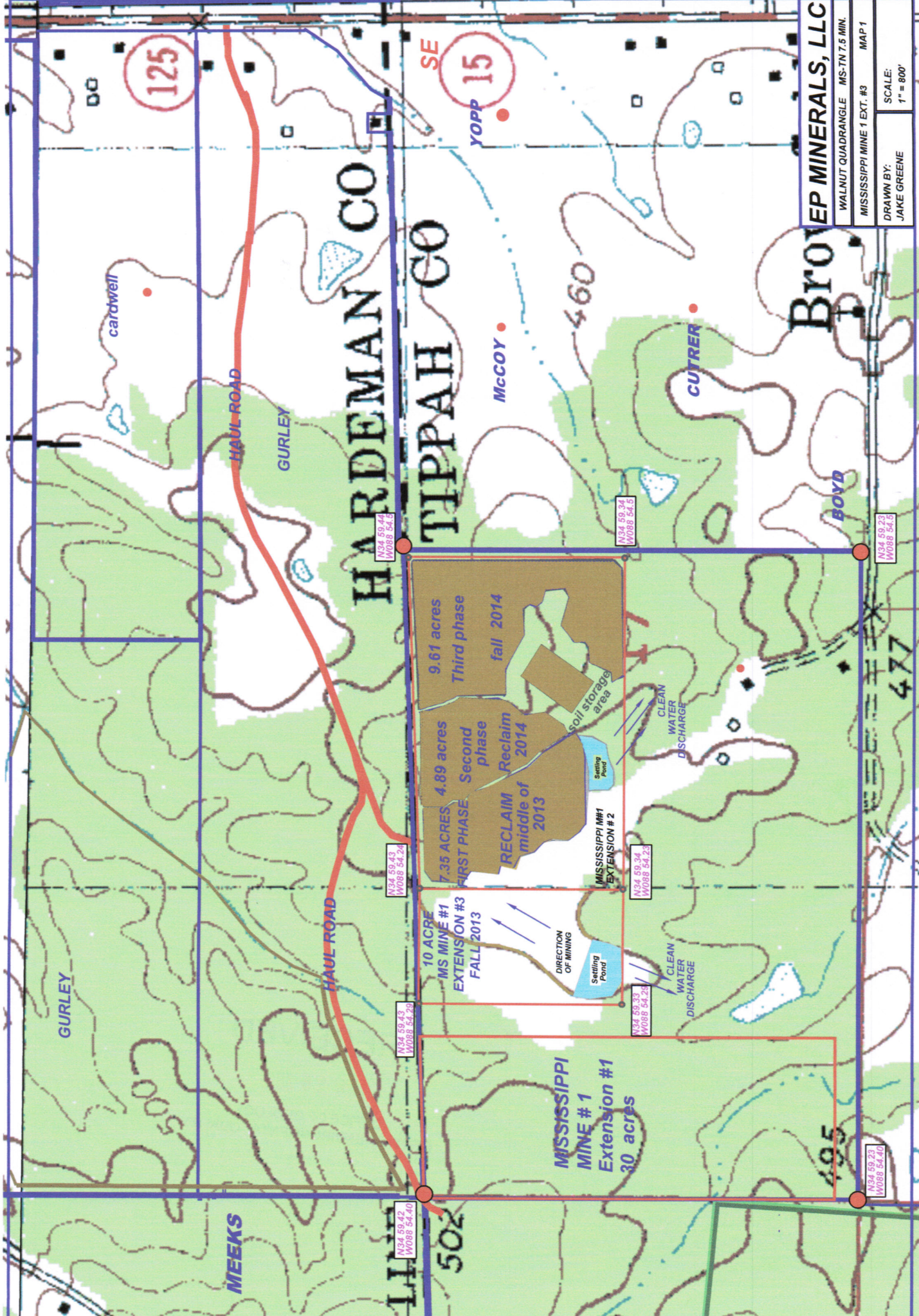
1. Full Name of Organization: **EP Minerals, LLC**
2. Post Office Box or Street Address, City, State, and Zip and Telephone Number: **P.O. Box 9 Middleton, TN 38052**
3. Type of Organization (state whether corporation, partnership, limited partnership, joint venture, individual, trust, etc.): **Limited Liability Company**
4. If reorganized, give full name and address of previous organization.
5. If foreign corporation, give state or country under the laws of which it was incorporated.
6. If foreign corporation, give name and address of person registered as Mississippi agent.
7. If limited partnership, give name of Mississippi county in which certificate detailing the organization was filed.
8. Directors, Officers, Partners, Trustees, and General Partners* (required of all organizations except individuals):

| | | |
|-------------------------|---------------------------|---|
| Title CEO | Name Dave Keselica | Address 9785 Gateway Drive, Suite 1000 |
| VP of Operations | Randal Thomas | Reno, NV 98521 |

*If separate Form MRD-1's are already on file for any partner or joint venturer, include and clearly specify the organization names that appear on those forms.

I declare that I am authorized to make this report, that it was prepared by me or under my supervision, and that facts and information stated herein are true, correct, and complete to the best of my knowledge.

| | |
|--|---|
| <u>4-18-13</u> Date |  Signature |
| <u>EP Minerals, LLC</u> Organization | <u>Jim Loeppky</u> Name of Person (Print) |
| <u>P.O. Box 9</u> Street Address or P. O. Box | <u>Plant Manager</u> Title (If agent, attach authorization from operator) |
| <u>Middleton, TN 38052</u> City State Zip | Telephone: <u>(731) 376 - 8411</u> (Area Code) (Number) |



MEER MINERALS, LLC

WALNUT QUADRANGLE MS-TN 7.5 MIN.

MISSISSIPPI MINE 1 EXT. #3 MAP 1

DRAWN BY:
JAKE GREENE

SCALE:
1" = 800'

9.61 acres
Third phase
fall 2014

4.89 acres
Second phase
Reclaim
middle of
2014

7.35 ACRES
FIRST PHASE
RECLAIM
middle of
2013

10 ACRE
MS MINE #1
EXTENSION #3
FALL 2013

30 acres
MISSISSIPPI
MINE # 1
Extension #1

Soil storage area

Settling Pond

CLEAN WATER DISCHARGE

Settling Pond

CLEAN WATER DISCHARGE

DIRECTION OF MINING

N34 59.44
W088 54.5

N34 59.43
W088 54.24

N34 59.43
W088 54.29

N34 59.42
W088 54.40

N34 59.34
W088 54.5

N34 59.34
W088 54.23

N34 59.33
W088 54.24

N34 59.23
W088 54.40

N34 59.23
W088 54.5

125

15

405

477

HARDEEMAN CO
TIPPAH CO

BOYD

MEEKS

502

GURLEY

GURLEY

McCOY

CUTRER

cardwell

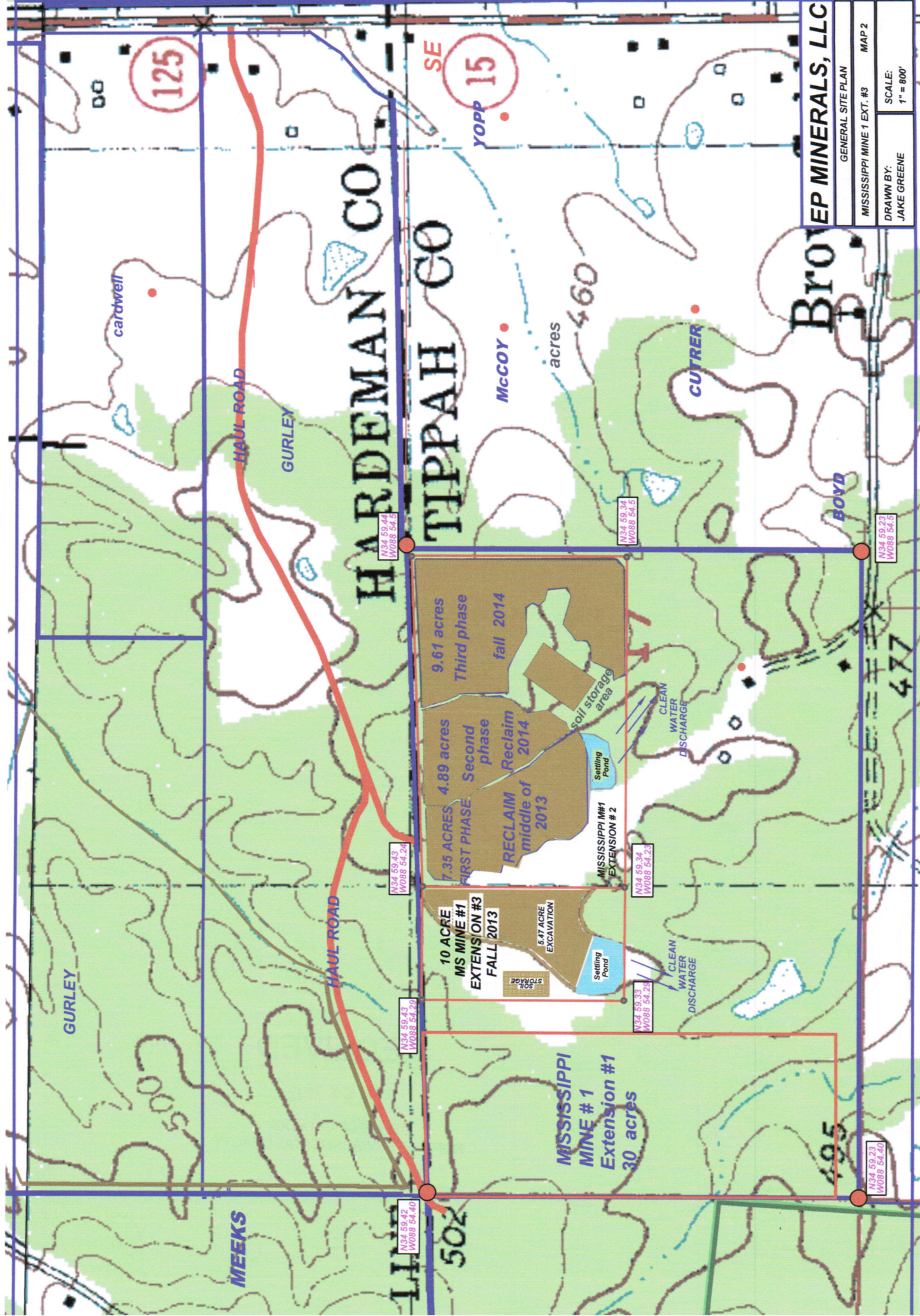
HAUL ROAD

HAUL ROAD

00

SE

YOPP



125

SE
15
YOPP

HARDEAMAN CO
TIPPAH CO

BOYD

PEP MINERALS, LLC
GENERAL SITE PLAN
MISSISSIPPI MINE 1 EXT. #3 MAP 2
DRAWN BY:
JAKE GREENE
SCALE:
1" = 800'

MEEKS

502

4.95

477

4.60
acres

N34 59.44
W088 54.24

N34 59.43
W088 54.24

N34 59.43
W088 54.24

N34 59.42
W088 54.40

N34 59.34
W088 54.3

N34 59.34
W088 54.23

N34 59.33
W088 54.24

N34 59.23
W088 54.5

N34 59.23
W088 54.40

9.61 acres
Third phase
fall 2014

4.89 acres
Second
phase
Reclaim
middle of
2014

7.35 ACRES
FIRST PHASE
RECLAIM
middle of
2013

10 ACRE
MS MINE #1
EXTENSION #3
FALL 2013

MISSISSIPPI
MINE #1
Extension #1
30 acres

MISSISSIPPI MINE #1
EXTENSION #2

5.17 ACRE
EXCAVATION

Soil storage
area

CLEAN
WATER
DISCHARGE

CLEAN
WATER
DISCHARGE

Settling
Pond

Settling
Pond

GURLEY

CUTRER

cardwell

McCOY

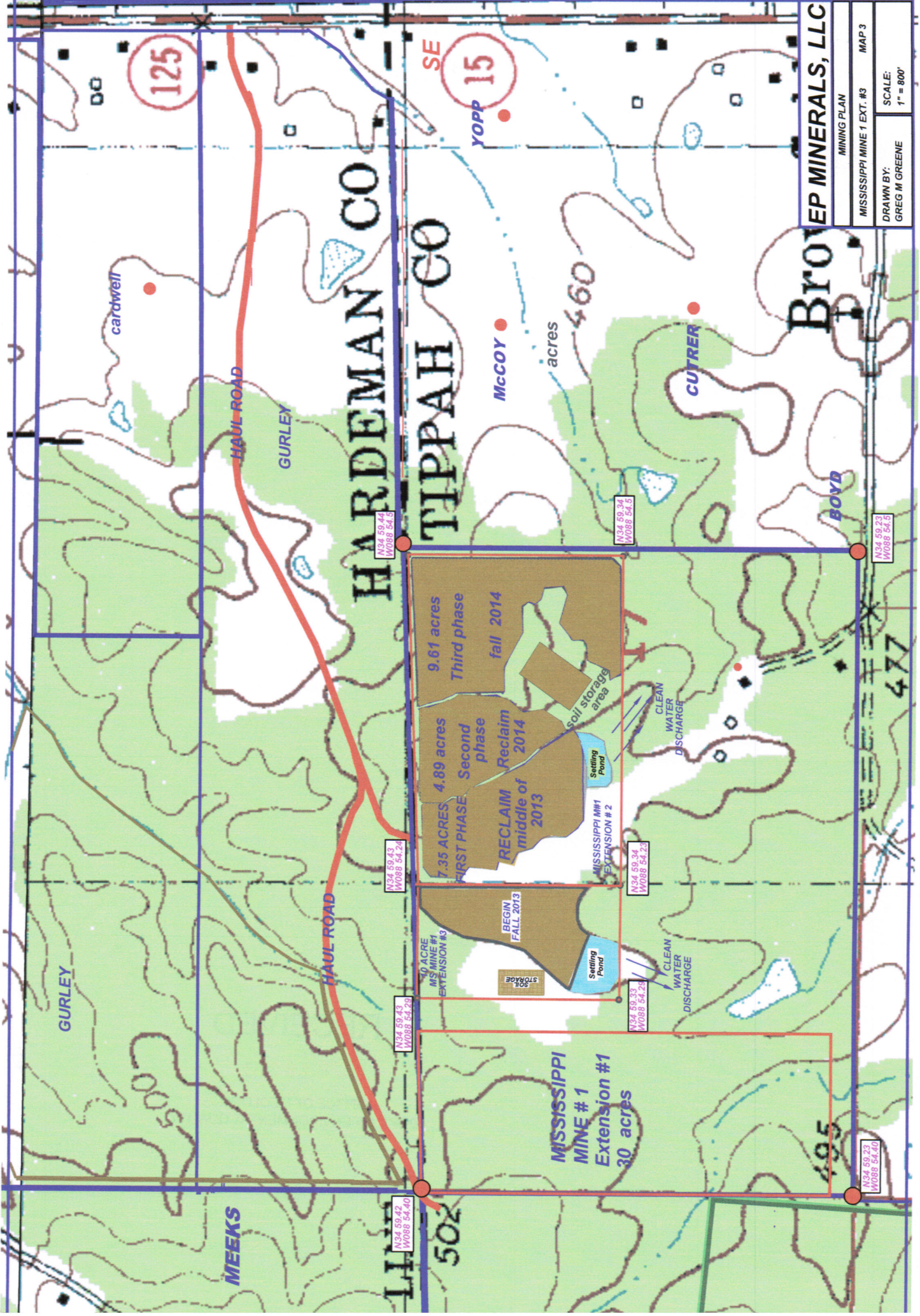
BOYD

HAUL ROAD

HAUL ROAD

DC

GURLEY



Broeyer Minerals, LLC
 MINING PLAN
 MISSISSIPPI MINE 1 EXT. #3 MAP 3
 DRAWN BY: GREG M GREENE
 SCALE: 1" = 800'

HARDEEMAN CO
TIPPAH CO

125

SE 15

502

495

477

460 acres

GURLEY

GURLEY

BOYD

MEEKS

cardwell

McCOY

CUTRER

9.61 acres
Third phase
fall 2014

4.89 acres
Second phase
Reclaim
middle of 2014

7.35 ACRES
FIRST PHASE
RECLAIM
middle of 2013

40 ACRE
MINE #1
EXTENSION #3
BEGIN
FALL 2013

MISSISSIPPI
MINE #1
Extension #1
30 acres

Soil storage area

Settling Pond

MISSISSIPPI MH1
EXTENSION #2

Soil STORAGE

Settling Pond

CLEAN
WATER
DISCHARGE

CLEAN
WATER
DISCHARGE

N34 59.40
W088 54.40

N34 59.43
W088 54.20

N34 59.43
W088 54.20

N34 59.42
W088 54.40

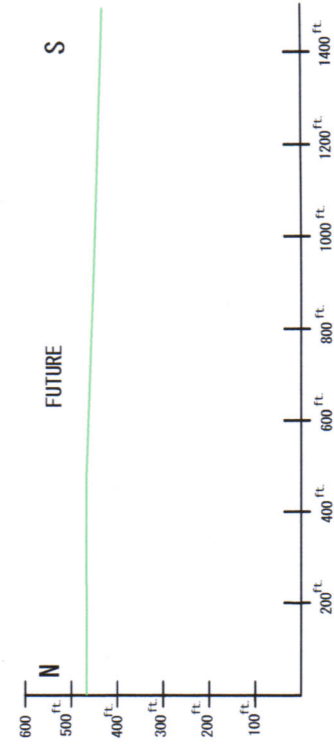
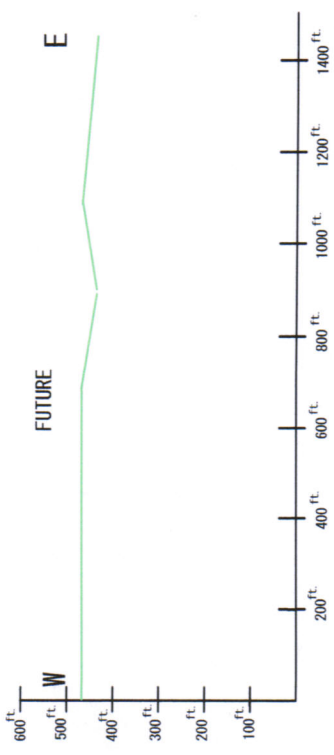
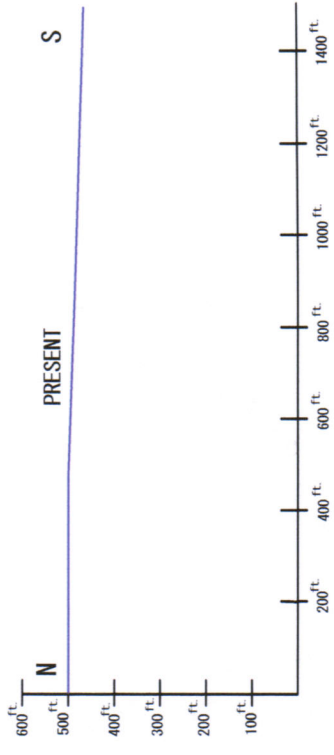
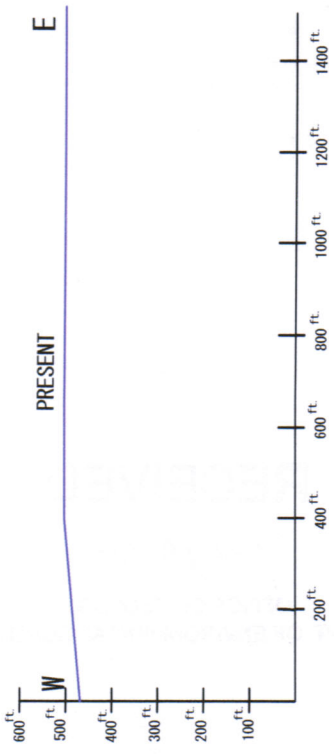
N34 59.34
W088 54.5

N34 59.34
W088 54.25

N34 59.34
W088 54.20

N34 59.23
W088 54.5

N34 59.23
W088 54.40



EP MINERALS, LLC
 PRE-MINING/POST MINING PROFILES
 MISSISSIPPI MINE 1 EXT. #3 MAP 5
 DRAWN BY: JAKE GREENE DATE: 04/18/2013

