

# Notice of Hearing

## ON AN APPLICATION FOR UNIT OPERATIONS



OHIO DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS RESOURCES MANAGEMENT  
2045 Morse Road, F-3 • Columbus, OH 43229

### NOTICE DATE:

### Why Am I Receiving this Notice?

You are receiving this notice because the Division of Oil and Gas Resources Management (Division) has received an application pursuant to Ohio Revised Code 1509.28 for a unitization order. The applicant listed you in its application as having an interest or potential interest within the proposed oil and gas drilling unit.

A virtual hearing on the unitization application will be held on Webex, and you may choose to join. Hearings may last up to two hours. Any changes to the hearing date and time, such as cancellations or continuances, will be posted to the Division's website:

<https://oilandgas.ohiodnr.gov/unitization>

### What Happens at the Hearing?

At the hearing, the applicant will present witnesses in support of its application for unitization. Then, anyone with an interest or potential interest in the proposed unit and anyone else who may be adversely affected by an order on the application will have an opportunity to present questions and concerns to the Division. A court reporter will create a record of the hearing.

### Do I Have to Attend the Hearing?

Your attendance at the hearing is optional.

### How Do I Attend the Hearing?

You can join the hearing up to 15 minutes before its start time, from a device connected to the internet or by calling in via telephone.

- You do not have to speak if you join the hearing.
- If you join the hearing over an internet connection using a phone or tablet, you will need to download the Webex app.
- If you call in using your phone, or if you are using a web browser on a desktop computer, you do not need to download the Webex app.

#### Attend Hearing via Webex

[HTTPS://SIGNIN.WEBEX.COM/JOIN](https://signin.webex.com/join)

MEETING #:

MEETING PASSWORD:

#### Attend Hearing via Phone United States Toll-free

CALL:

ACCESS CODE:

### How Do I Include My Comments on the Record?

If you speak at the hearing, your comments will be recorded. If you are unable to attend or uncomfortable speaking at the hearing but would like to include comments in the record, you may submit comments on this application by mail or email:

ODNR Division of Oil & Gas Resources Management  
Unitization Section  
2045 Morse Road, F-3  
Columbus, Ohio 43229      or via email to [unitization@dnr.ohio.gov](mailto:unitization@dnr.ohio.gov)

### Who Filed

#### APPLICANT:

### Proposed Drilling Location

#### UNIT NAME:

#### UNIT LOCATION:

### Hearing Information

#### HEARING DATE:

#### HEARING TIME:

#### ATTACHMENTS:

#### SCAN TO JOIN MEETING



#### DEADLINE FOR COMMENTS

## **What Happens after the Hearing Is Held?**

State law requires that within 60 days after the hearing the Division must issue an order approving or denying the application. All Chief's Orders are posted to the Division's website. The Chief of the Division must issue an order approving unitization if the applicant demonstrates that (1) the operation is reasonably necessary to increase substantially the ultimate recovery of oil and gas; and (2) the value of the estimated additional recovery of oil or gas exceeds the estimated additional cost incident to conducting the operation.

## **More Information**

The Division has authority over the permitting, drilling, operating and plugging of oil and gas wells in Ohio. This authority ensures uniform statewide regulation of oil and gas activities and promotes conservation through the effective development of oil and gas resources for the "unitization" of tracts of lands.

Ohio law, like the laws of many oil and gas producing states, provides a means to combine mineral rights from individual tracts of land to form a drilling unit to efficiently and effectively develop the oil and/or gas resources beneath those tracts. Ohio Revised Code Section 1509.28 is commonly known as Ohio's unitization law.

Unitization is available when the owners of sixty-five percent of the land overlying a pool (or part of a pool) of oil and/or gas apply to the Division to operate the pool (or part of a pool) as a drilling unit.

After receiving a unitization application, the Division reviews it and, if it has been properly submitted, the Division sets a time for a hearing.

After the hearing, the Division considers all testimony presented at the hearing and any written comments received, and then decides if the application should be granted based upon the law. An order is then issued approving or denying the application. If the application is approved, the order establishing the unit will specify the terms and conditions for unit operation on a just and reasonable basis. An order approving the application allows the applicant to drill inside the unit once all other necessary permits have been obtained.

Following an approved application, an applicant may later request an amendment to the order. Amendments to a unit order must be made in the same manner and are subject to the same conditions as the order for unit operations, including that a hearing must be held on the request.

### **If You Have Questions Regarding Your Interest in the Proposed Unit:**

#### **General Information**

<https://oilandgas.ohiodnr.gov/unitization>

Unitization@dnr.ohio.gov

(614) 265-6922



## Ohio Revised Code 1509.28

### Application for Unit Operations

#### Section 1. Applicant Information *Required*

|                      |                     |                                     |    |       |  |
|----------------------|---------------------|-------------------------------------|----|-------|--|
| 1                    | Applicant Name:     | SWN Production Company, LLC         |    |       | <i>Supplement</i><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>        |
| 2                    | Mailing Address:    | 10000 Energy Drive                  |    |       |  |
| 3                    | City / State / Zip: | Spring                              | TX | 77389 |  |
| 4                    | Office Phone:       | (832) 796-6109                      |    |       |  |
| 5                    | Email:              | gary_nuckolls@swn.com               |    |       |  |
| 6                    | Landman Name:       | Gary Nuckolls                       |    |       | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| 7                    | Mailing Address:    | 10000 Energy Drive                  |    |       |  |
| 8                    | City / State / Zip: | Spring                              | TX | 77389 |  |
| 9                    | Office Phone:       | (832) 796-6109                      |    |       |  |
| 10                   | Email:              | gary_nuckolls@swn.com               |    |       |  |
| <i>If applicable</i> |                     |                                     |    |       |  |
| 11                   | Attorney Name:      | Mark A. Hylton                      |    |       | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| 12                   | Firm Name:          | Vorys, Sater, Seymour and Pease LLP |    |       |  |
| 13                   | Mailing Address:    | 52 East Gay Street                  |    |       |  |
| 14                   | City / State / Zip: | Columbus                            | OH | 43215 |  |
| 15                   | Office Phone:       | (614) 464-6303                      |    |       |  |
| 16                   | Email:              | mahylton@vorys.com                  |    |       |  |

#### Section 2. Unit Information *Required*

|   |  |                                      |  |  |   |
|---|--|--------------------------------------|--|--|---|
| 1 | Unit Name:   | McFrederick J Unit                   |  |  | <i>Supplement</i><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| 2 | Unit Location:<br><i>Include all counties and townships</i>  | Wayne Township, Belmont County, Ohio |  |  |   |
| 3 | Number of Tracts:  | 32                                   |  |  |   |
| 4 | Total Unit Area:<br><i>In acres</i>  | 461.601 acres                        |  |  |   |
| 5 | (a) Number of Proposed Wells:  | One                                  |  |  |   |
|   | (b) Number of Existing Permitted & Drilled Wells:<br><i>Please identify by API Number and Well Name.</i> | N/A                                  |  |  |   |

## Section 2 Unit Information - continued

6 Identification of the proposed pool or part of a pool:

7 Is this a request to amend an order for unit operations?

8 If yes to question 7, explain why the request for amendment is being submitted:

9 If yes to question 7, please identify the Chief's Order to be amended:

10 Is the applicant the owner, or have the consent of the owner(s), (as defined in R.C. 1509.01 (K)) of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request?

11 If yes to question 10, what is the total acreage applicant is the owner of, and has the consent of the owner(s) of, in the proposed unit?

### Utica/Point Pleasant Formation

YES  NO

Supplement

12 If 70% or less of the acreage in the proposed unit is consenting acreage in the unit, identify the method that was used to determine the area:

13 Does the unit include mineral interest owned by the State of Ohio?  
*If so, indicate the state agency(ies) that own the mineral interest. If the state agency is unknown, list "unknown."*

### 435.280 acres

GPS  Survey  N/A

Other:

YES  NO

## Section 3. Exhibits Required

Exhibit A A list identifying all mineral owners in the proposed unit, leased or unleased, including all working interest owners, in PDF and Excel format

Supplement

Exhibit B A plat map of the unit, identifying the counties, townships, section numbers, parcel boundaries, and all parcels in the unit, including the tract and corresponding parcel number

Exhibit C A list identifying all parcels subject to pending ownership litigation or potential adverse ownership claims

Exhibit D A color-coded map

Exhibit E Gamma Ray Density or Gamma Ray resistivity geophysical type log  
*Optional only for requests to amend orders for unit operations*

Exhibit F Cross-Section Location Map  
*Optional only for requests to amend orders for unit operations*

Exhibit G Leasing Efforts & Affidavit of Leasing Efforts

Exhibit H Owner List for Notice Purposes

Supplement

## Section 4. Mailing List (Excel) Required

## Section 5. Economic Calculation Summaries Required

### Unitized Scenario

| Well Name                | Lateral Length (ft) | Measured Depth (ft) | Operating Costs (MM\$) | Capital Costs (MM\$) | Undiscounted Value of Estimated Recovery (MM\$) | PV0 (MM\$) | PV10 (MM\$) | Estimated Gross Recovery (BCFe) | Supplement               |
|--------------------------|---------------------|---------------------|------------------------|----------------------|---|------------|-------------|---------------------------------|--------------------------|
| McFrederick J UP BLT 13H | 15,513              | 26,211              | \$12.3                 | \$17.9               | \$62.3  | \$30.5     | \$13.7      | 24.4                            | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
| <b>Total:</b>            | 15,513              | 26,211              | \$12.3                 | \$17.9               | \$62.3  | \$30.5     | \$13.7      | 24.4                            | <input type="checkbox"/> |

### Non-Unitized Scenario

| Well Name                | Lateral Length (ft) | Measured Depth (ft) | Operating Costs (MM\$) | Capital Costs (MM\$) | Undiscounted Value of Estimated Recovery (MM\$) | PV0 (MM\$) | PV10 (MM\$) | Estimated Gross Recovery (BCFe) | Supplement               |
|--------------------------|---------------------|---------------------|------------------------|----------------------|---|------------|-------------|---------------------------------|--------------------------|
| McFrederick J UP BLT 13H | 2,253               | 12,951              | \$2.5                  | \$7.5                | \$7.7   | \$(2.5)    | \$(3.2)     | 3.0                             | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
| <b>Total:</b>            | 2,253               | 12,951              | \$2.5                  | \$7.5                | \$7.7   | \$(2.5)    | \$(3.2)     | 3.0                             | <input type="checkbox"/> |

### Difference

| Well Name                | Lateral Length (ft) | Measured Depth (ft) | Operating Costs (MM\$) | Capital Costs (MM\$) | Undiscounted Value of Estimated Recovery (MM\$) | PV0 (MM\$) | PV10 (MM\$) | Estimated Gross Recovery (BCFe) | Supplement               |
|--------------------------|---------------------|---------------------|------------------------|----------------------|---|------------|-------------|---------------------------------|--------------------------|
| McFrederick J UP BLT 13H | 13,260              | 13,260              | \$9.8                  | \$10.4               | \$54.6  | \$33.0     | \$16.9      | 21.4                            | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
|                          |                     |                     |                        |                      |   |            |             |                                 | <input type="checkbox"/> |
| <b>Total:</b>            | 13,260              | 13,260              | \$9.8                  | \$10.4               | \$54.6  | \$33.0     | \$16.9      | 21.4                            | <input type="checkbox"/> |

## Section 6. Attachments Required

Working Interest Approvals Form(s)

Supplement


Applicant's Operating Agreement

Affidavit of Operating Agreement (*if applicable*)

Georeferenced File

*Optional only for requests to amend orders for unit operations*

## Section 7. Attestation Required

If this is the original application or a request to amend an order for unit operations, submit Attestation A.

### Attestation A

**Gary Nuckolls**

(NAME) on behalf of

SWN Production Company, LLC

(APPLICANT) am competent and

authorized to testify on the matters contained in this affidavit and application.

Pursuant to Ohio Revised Code 1509.28, Applicant files this application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing unit operations or to amend an order for unit operations as indicated above and in the attachments to this application.

As of the date this application is signed, Applicant is the owner, or has the consent of the owner, as that term is defined in Ohio Revised Code 1509.01(K), of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request.

Further, Applicant has exercised reasonable due diligence in their efforts to identify and locate all mineral interest owners within the proposed unit and ascertain their current addresses prior to filing this application with DOGRM.

These efforts included:

*List as applicable: Performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc.*

performing title work, including reviewing court, birth, marriage, and death records and county auditor tax records, and utilizing electronic resources (e.g., telephone and address listings, heirship research).

Where it was not reasonably possible or practicable to identify all of mineral interest owners' identities or addresses, Applicant will provide notice by publication of a hearing.

To the best of Applicant's knowledge and belief, the names and addresses of mineral interest owners it provided with this application are accurate. I understand the DOGRM relies on the statements and representations contained in this application to process this application. Nothing in this application constitutes a waiver of right in law or equity by DOGRM or Applicant.

My signature below certifies that the information provided is true and accurate to the best of my knowledge, under penalty of law.

  
SIGNATURE

Gary Nuckolls

Supervisor - Land

PRINT NAME

TITLE

STATE OF

Texas

COUNTY OF

Harris

Sworn to before me and subscribed in my presence on this

24<sup>th</sup>

day of

October

, 20

24

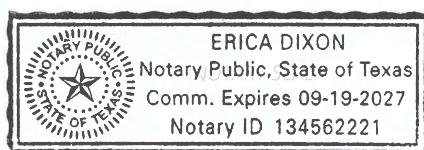
MONTH

YEAR



NOTARY PUBLIC

My commission expires 9/19/2027



## Section 7. Attestation Required

If this is a supplement to the original application or to a request to amend an order for unit operations, submit Attestation B.

### Attestation B - Supplement

I \_\_\_\_\_ (NAME) on behalf of \_\_\_\_\_ (APPLICANT) am competent and authorized to testify on the matters contained in this affidavit and supplemental application.

Pursuant to Ohio Revised Code 1509.28, Applicant files this supplemental application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing unit operations or to amend an order for unit operations as indicated above and in the attachments to this supplemental application.

As of the date this supplemental application is signed, Applicant is the owner, or has consent of the owner, as that term is defined in Ohio Revised Code 1509.01(K), of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request.

Further, Applicant has exercised reasonable due diligence in their efforts to identify and locate all mineral interest owners within the proposed unit and ascertain their current addresses prior to filing this supplemental application with DOGRM.

These efforts included:

*List as applicable: Performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc.*

Where it was not reasonably possible or practicable to identify all of mineral interest owners' identities or addresses, Applicant will provide notice by publication of a hearing.

To the best of Applicant's knowledge and belief, the names and addresses of mineral interest owners it provided with this supplemental application are accurate. I understand the DOGRM relies on the statements and representations contained in this supplemental application to process this application. Nothing in this supplemental application constitutes a waiver of right in law or equity by DOGRM or Applicant.

My signature below certifies that the information provided is true and accurate to the best of my knowledge, under penalty of law.

|                       |            |       |
|-----------------------|------------|-------|
| SIGNATURE             | PRINT NAME | TITLE |
| STATE OF<br>COUNTY OF |            |       |

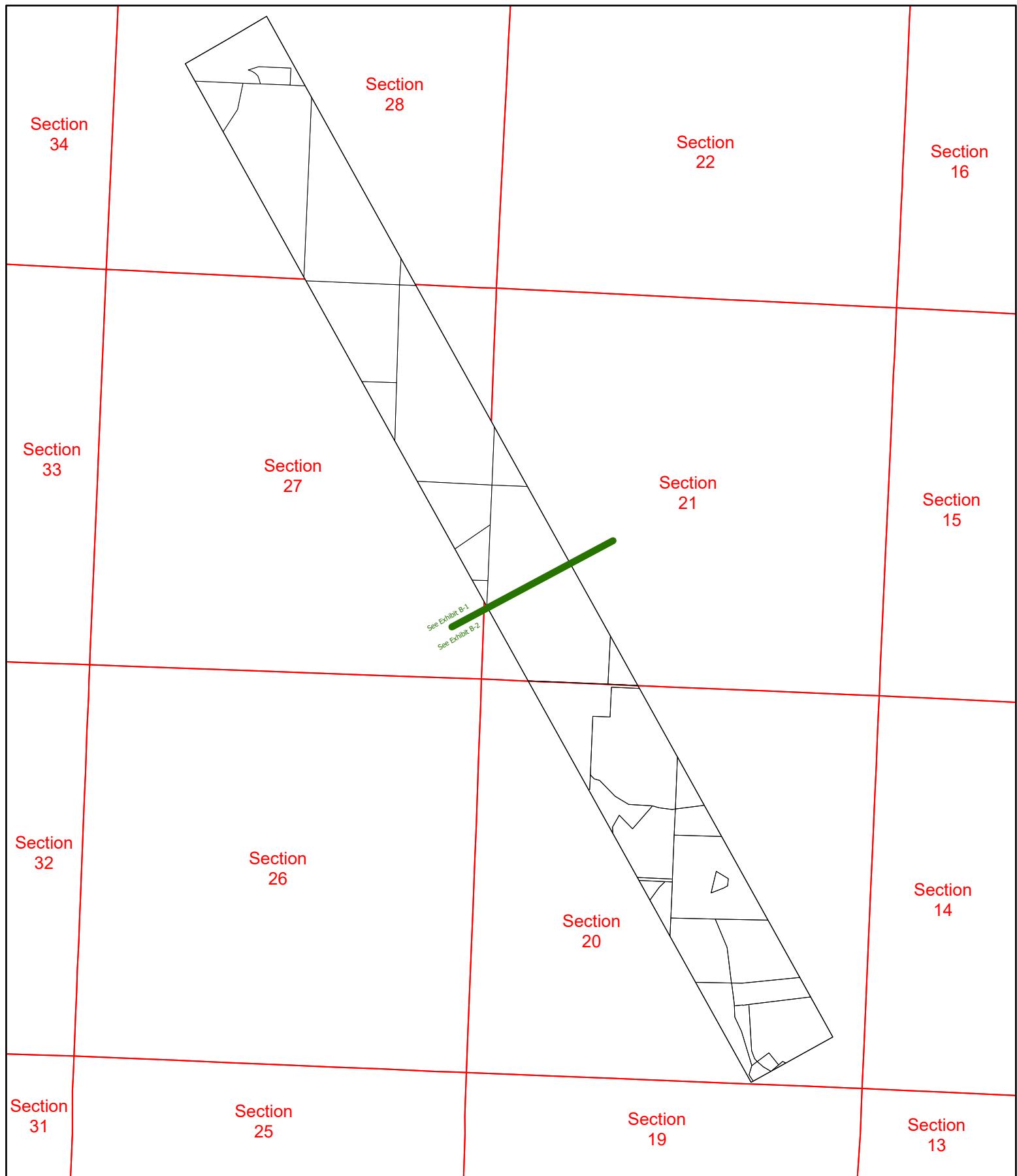
Sworn to before me and subscribed in my presence on this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.  
MONTH YEAR

NOTARY SEAL

NOTARY PUBLIC

My commission expires \_\_\_\_\_.



0 1,000 2,000 Feet

1 inch = 1,700 feet

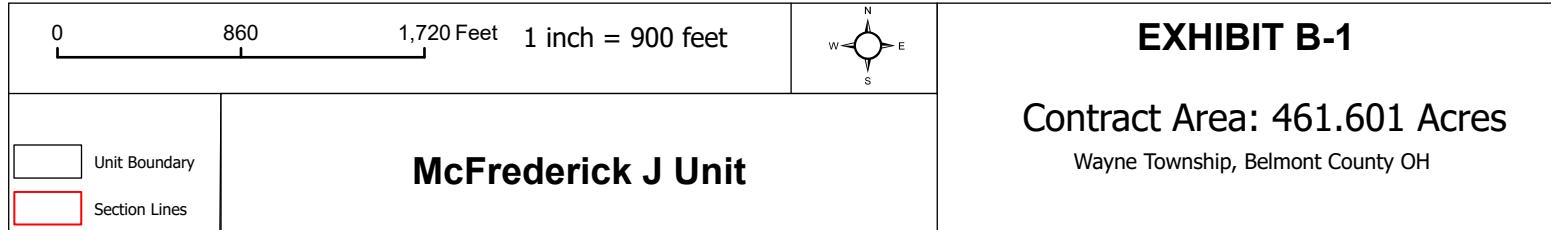
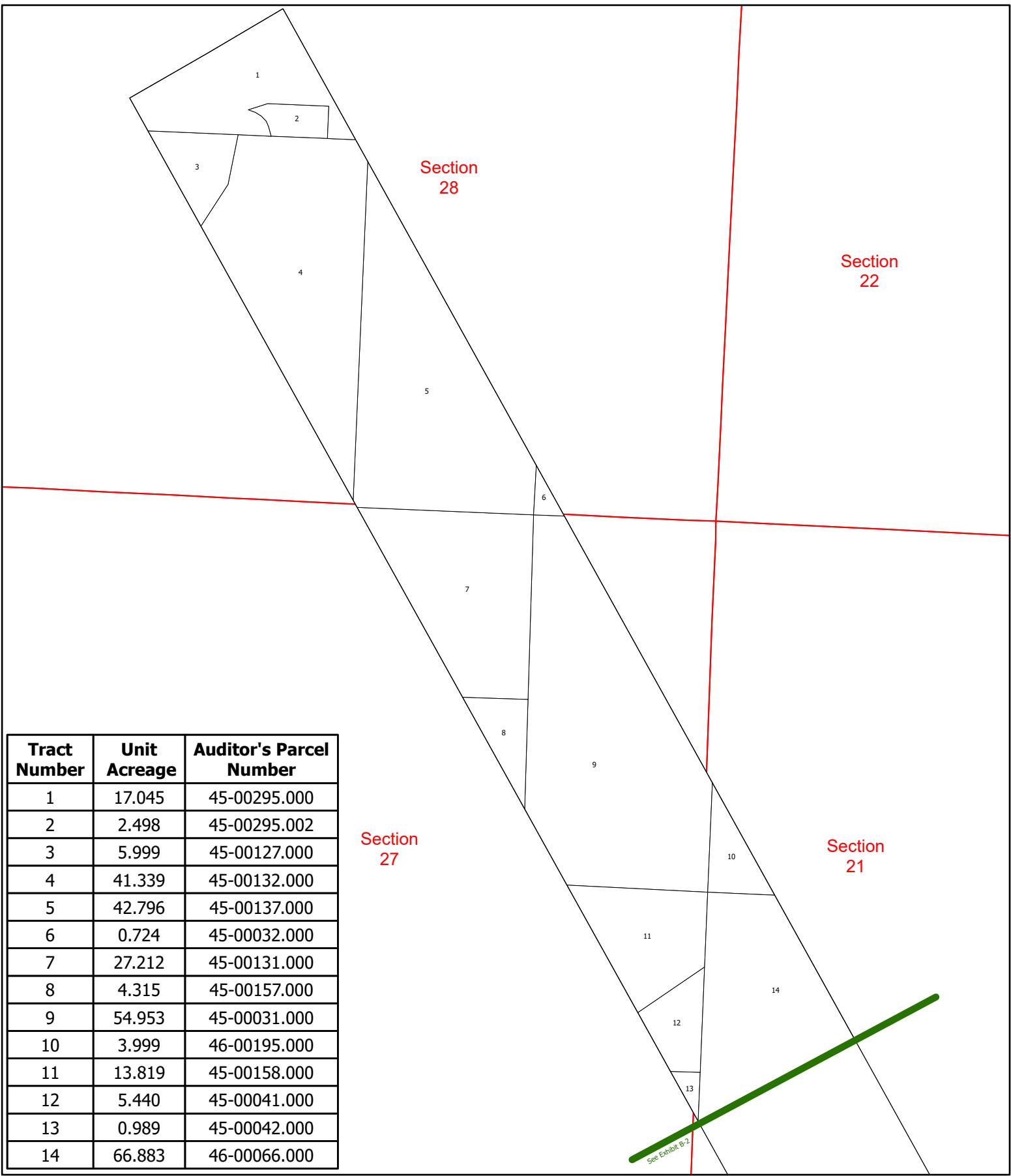


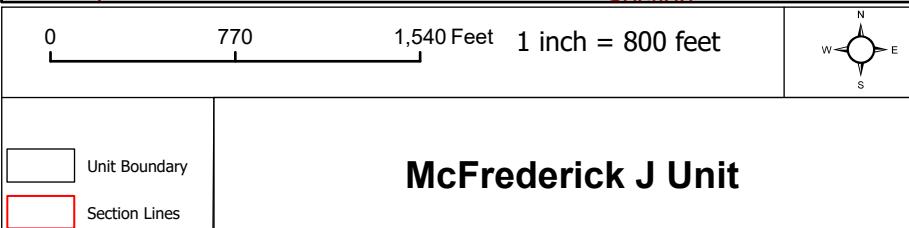
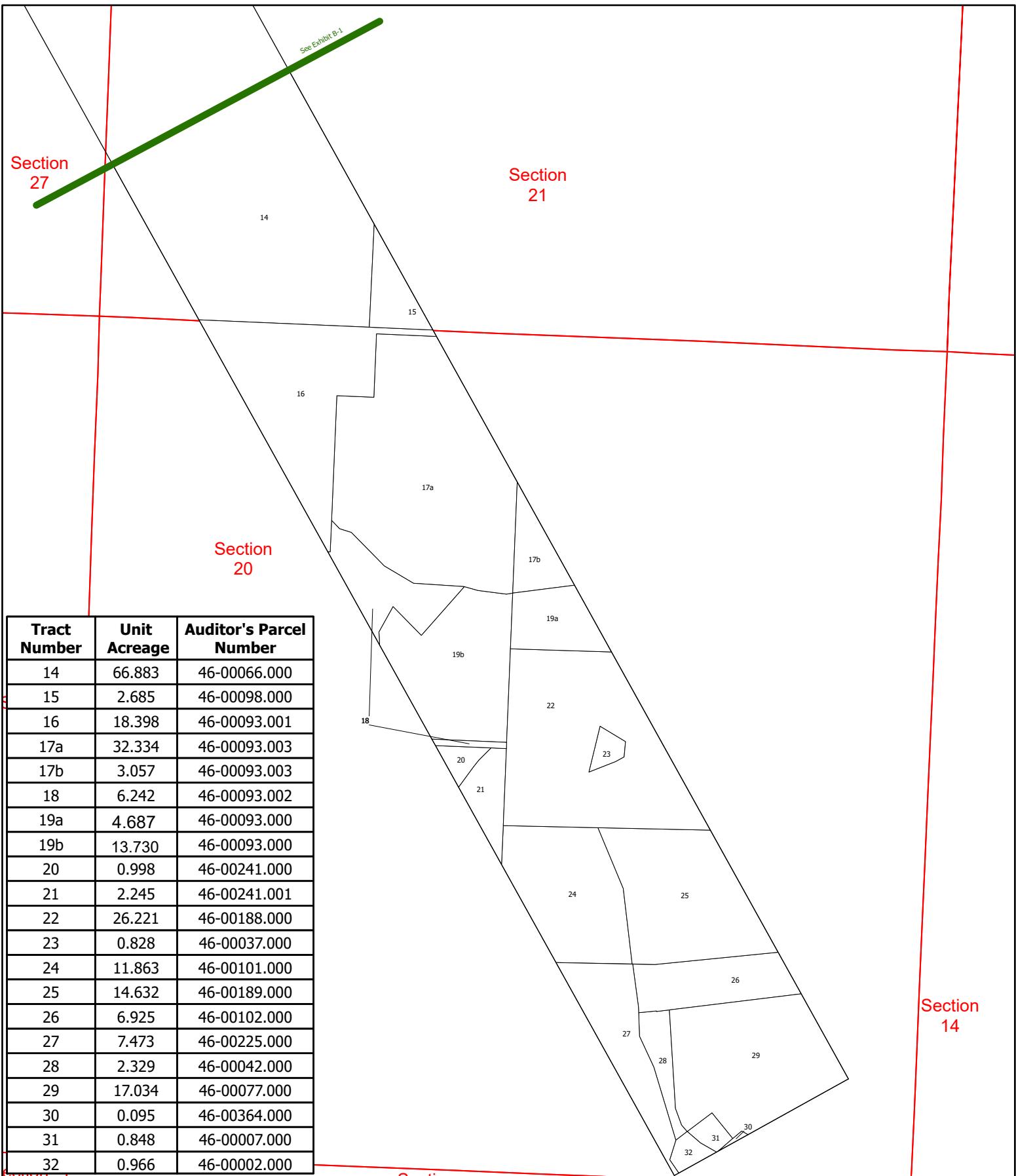
## EXHIBIT B

Contract Area: 461.601 Acres  
Wayne Township, Belmont County OH

|                          |               |
|--------------------------|---------------|
| <input type="checkbox"/> | Unit Boundary |
| <input type="checkbox"/> | Section Lines |

**McFrederick J Unit**





## EXHIBIT B-2

Contract Area: 461.601 Acres  
Wayne Township, Belmont County OH

| Tract Number | Unit Acreage | Auditor's Parcel Number | Page     |
|--------------|--------------|-------------------------|----------|
| 1            | 17.045       | 45-00295.000            | B-1      |
| 2            | 2.498        | 45-00295.002            | B-1      |
| 3            | 5.999        | 45-00127.000            | B-1      |
| 4            | 41.339       | 45-00132.000            | B-1      |
| 5            | 42.796       | 45-00137.000            | B-1      |
| 6            | 0.724        | 45-00032.000            | B-1      |
| 7            | 27.212       | 45-00131.000            | B-1      |
| 8            | 4.315        | 45-00157.000            | B-1      |
| 9            | 54.953       | 45-00031.000            | B-1      |
| 10           | 3.999        | 46-00195.000            | B-1      |
| 11           | 13.819       | 45-00158.000            | B-1      |
| 12           | 5.440        | 45-00041.000            | B-1      |
| 13           | 0.989        | 45-00042.000            | B-1      |
| 14           | 66.883       | 46-00066.000            | B-1, B-2 |
| 15           | 2.685        | 46-00098.000            | B-2      |
| 16           | 18.398       | 46-00093.001            | B-2      |
| 17a          | 32.334       | 46-00093.003            | B-2      |
| 17b          | 3.057        | 46-00093.003            | B-2      |
| 18           | 6.242        | 46-00093.002            | B-2      |
| 19a          | 4.687        | 46-00093.000            | B-2      |
| 19b          | 13.730       | 46-00093.000            | B-2      |
| 20           | 0.998        | 46-00241.000            | B-2      |
| 21           | 2.245        | 46-00241.001            | B-2      |
| 22           | 26.221       | 46-00188.000            | B-2      |
| 23           | 0.828        | 46-00037.000            | B-2      |
| 24           | 11.863       | 46-00101.000            | B-2      |
| 25           | 14.632       | 46-00189.000            | B-2      |
| 26           | 6.925        | 46-00102.000            | B-2      |
| 27           | 7.473        | 46-00225.000            | B-2      |
| 28           | 2.329        | 46-00042.000            | B-2      |
| 29           | 17.034       | 46-00077.000            | B-2      |
| 30           | 0.095        | 46-00364.000            | B-2      |
| 31           | 0.848        | 46-00007.000            | B-2      |
| 32           | 0.966        | 46-00002.000            | B-2      |

0      1,000      2,000 Feet

1 inch = 1,417 feet



### EXHIBIT B-3

Contract Area: 461.601 Acres  
Wayne Township, Belmont County OH

**McFrederick J Unit**

**Exhibit H - McFrederick J Unit**

| <b>Mineral Owners</b>  |                             |                            |                                 |  |
|--|-----------------------------|----------------------------|---------------------------------|--|
| <b>Name</b>  | <b>Leased<br/>Yes or No</b> | <b>Tract<br/>Number(s)</b> | <b>Tax Map<br/>Parcel ID(s)</b> | <b>Surface Acres<br/>in Unit (Net)</b> |
| Barbara E. Martin and Harold E. Doudna, Co-Trustees of the Harold E. Doudna Trust, dated June 28, 2017<br>(NPRI)   | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Captina Cattle Company, LLC<br>ATTN: Marvin Steed, Member and Michele Steed, Member  | Yes                         | 1                          | 45-00295.000                    | 8.608                                  |
|  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
| Captina Creek Preserve, LTD<br>ATTN: E. James Witmer, Member   | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
|  | Yes                         | 10                         | 46-00195.000                    | 2.000                                  |
|  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
| Cary D. Leach and Shaun R. Leach, husband and wife<br>Charles A. Merecka (NPRI)  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
|  | Yes                         | 10                         | 46-00195.000                    | 2.000                                  |
| Daniel D. Warfield, as Trustee of the Daniel D. Warfield Family Trust dated December 1, 2014<br>David E. DeSimio and Sandra M. DeSimio, husband and wife | Yes                         | 21                         | 46-00241.001                    | 2.105                                  |
|  | Yes                         | 6                          | 45-00032.000                    | 0.724                                  |
|  | Yes                         | 9                          | 45-00031.000                    | 54.953                                 |
| DC Hollowrock, LLC<br>ATTN: Damon K. Detling   | Yes                         | 25                         | 46-00189.000                    | 14.632                                 |
|  | Yes                         | 32                         | 46-00002.000                    | 0.966                                  |
|  | Yes                         | 16                         | 46-00093.001                    | 18.398                                 |
| Diana L. Seal<br>Donald E. Burkhardt   | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Eli Rebich (NPRI)  | Yes                         | 1                          | 45-00295.000                    | 8.437                                  |
|  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
| Gateway Royalty IV, LLC<br>ATTN: Chris Oldham, President   | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
|  | Yes                         | 2                          | 45-00295.002                    | 2.498                                  |
|  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
| Henry Weaver and Katie Weaver, husband and wife<br>Jerald L. Booth (NPRI)  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
|  | Yes                         | 2                          | 45-00295.000                    | 8.437                                  |
| Jeraldene, LLC<br>ATTN: Nadene P. Hamilton and/or Jerry E. Hamilton  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 26                         | 46-00102.000                    | 6.925                                  |
|  | Yes                         | 29                         | 46-00077.000                    | 17.034                                 |
| Justin J. Merecka (NPRI)   | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Larry J. Seal  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 22                         | 46-00188.000                    | 26.221                                 |
|  | Yes                         | 23                         | 46-00037.000                    | 0.828                                  |
| LL&B Headwater I, LP<br>ATTN: Gordon Deen  | Yes                         | 20                         | 46-00241.000                    | 0.936                                  |
|  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
| Lory Merecka Shelton (NPRI)  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
|  | Yes                         | 27                         | 46-00225.000                    | 7.473                                  |
|  | Yes                         | 28                         | 46-00042.000                    | 2.329                                  |
| Marvin A. Ward and Betty L. Ward, husband and wife   | Yes                         | 3                          | 45-00127.000                    | 5.999                                  |
|  | Yes                         | 4                          | 45-00132.000                    | 41.339                                 |
|  | Yes                         | 5                          | 45-00137.000                    | 21.398                                 |
|  | Yes                         | 7                          | 45-00131.000                    | 27.212                                 |
|  | Yes                         | 8                          | 45-00157.000                    | 4.315                                  |
| Monty J. Merecka (NPRI)  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Phillip D. Doudna (NPRI)   | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Rick D. Hagan and Linda M. Hagan, Co-Trustees of the Hagan Family Trust, dated July 25, 2017   | Yes                         | 15                         | 46-00098.000                    | 2.685                                  |
|  | Yes                         | 18                         | 46-00093.002                    | 6.242                                  |
|  | Yes                         | 19a                        | 46-00093.000                    | 2.344                                  |
|  | Yes                         | 19b                        | 46-00093.000                    | 13.730                                 |
| Robert J. Doudna (NPRI)  | Yes                         | 12                         | 45-00041.000                    | 5.440                                  |
|  | Yes                         | 13                         | 45-00042.000                    | 0.989                                  |
|  | Yes                         | 14                         | 46-00066.000                    | 66.883                                 |
| Ryan James Hagan and Wava E. Hagan, husband and wife   | Yes                         | 17a                        | 46-00093.003                    | 32.334                                 |
|  | Yes                         | 17b                        | 46-00093.003                    | 1.529                                  |
| Unknown Heirs or Assigns of Anne D. Kennard  | No                          | 5                          | 45-00137.000                    | 1.427                                  |

|   |     |     |              |        |
|---|-----|-----|--------------|--------|
| Unknown Heirs or Assigns of E. C. Young and F. C. Young                                     | No  | 20  | 46-00241.000 | 0.006  |
|   | No  | 21  | 46-00241.001 | 0.014  |
| Unknown Heirs or Assigns of J. W. Wright  | No  | 20  | 46-00241.000 | 0.006  |
|   | No  | 21  | 46-00241.001 | 0.014  |
| Unknown Heirs or Assigns of Jessie Minch, a/k/a Jessie Mench and A.W. Cowgill               | No  | 20  | 46-00241.000 | 0.006  |
|   | No  | 21  | 46-00241.001 | 0.014  |
| Unknown Heirs or Assigns of John F. Rehm  | No  | 20  | 46-00241.000 | 0.006  |
|   | No  | 21  | 46-00241.001 | 0.014  |
| Unknown Heirs or Assigns of John Phillips   | No  | 17b | 46-00093.003 | 1.529  |
|   | No  | 19a | 46-00093.000 | 2.344  |
| Unknown Heirs or Assigns of John S. Coffland  | No  | 20  | 46-00241.000 | 0.006  |
|   | No  | 21  | 46-00241.001 | 0.014  |
| Unknown Heirs or Assigns of Lena Kennard  | No  | 5   | 45-00137.000 | 2.853  |
| Unknown Heirs or Assigns of Martha Y. Farley  | No  | 5   | 45-00137.000 | 1.427  |
| Unknown Heirs or Assigns of Mary Ann Rice   | No  | 5   | 45-00137.000 | 3.566  |
| Unknown Heirs or Assigns of Mary Elizabeth Kennard Atkinson                                 | No  | 5   | 45-00137.000 | 2.853  |
| Unknown Heirs or Assigns of Pauline Groves Kennard  | No  | 5   | 45-00137.000 | 2.853  |
| Unknown Heirs or Assigns of Ruth K. Pickett   | No  | 5   | 45-00137.000 | 2.853  |
| Unknown Heirs or Assigns of T. Riley Huffman  | No  | 5   | 45-00137.000 | 3.566  |
| Unknown Heirs or Assigns of William R. King   | No  | 20  | 46-00241.000 | 0.031  |
|   | No  | 21  | 46-00241.001 | 0.070  |
| Vernon Ebert and Thelma Ebert, Trustees of the Ebert Revocable Living Trust dated 1/12/2009 | No  | 31  | 46-00007.000 | 0.848  |
| Vicky Rolf (NPRI)   | Yes | 12  | 45-00041.000 | 5.440  |
|   | Yes | 13  | 45-00042.000 | 0.989  |
|   | Yes | 14  | 46-00066.000 | 66.883 |
| Victoria R. Carpenter   | Yes | 30  | 46-00364.000 | 0.095  |
| Warfield Properties, LLC<br>ATTN: Daniel D. Warfield, Member                                | Yes | 11  | 45-00158.000 | 13.819 |

| Working Interest Owners                            |                     |                    |                         |                                |
|--|---------------------|--------------------|-------------------------|--------------------------------|
| Name   | Leased<br>Yes or No | Tract<br>Number(s) | Tax Map<br>Parcel ID(s) | Surface Acres<br>in Unit (Net) |
| SWN Production Company, LLC<br>ATTN: Gary Nuckolls | Yes                 | 1                  | 45-00295.000            | 8.608                          |
|  | Yes                 | 2                  | 45-00295.002            | 2.498                          |
|  | Yes                 | 3                  | 45-00127.000            | 5.999                          |
|  | Yes                 | 4                  | 45-00132.000            | 41.339                         |
|  | Yes                 | 5                  | 45-00137.000            | 21.398                         |
|  | Yes                 | 6                  | 45-00032.000            | 0.724                          |
|  | Yes                 | 7                  | 45-00131.000            | 27.212                         |
|  | Yes                 | 8                  | 45-00157.000            | 4.315                          |
|  | Yes                 | 9                  | 45-00031.000            | 54.953                         |
|  | Yes                 | 10                 | 46-00195.000            | 2.000                          |
|  | Yes                 | 10                 | 46-00195.000            | 2.000                          |
|  | Yes                 | 11                 | 45-00158.000            | 13.819                         |
|  | Yes                 | 12                 | 45-00041.000            | 5.440                          |
|  | Yes                 | 13                 | 45-00042.000            | 0.989                          |
|  | Yes                 | 14                 | 46-00066.000            | 66.883                         |
|  | Yes                 | 20                 | 46-00241.000            | 0.936                          |
|  | Yes                 | 21                 | 46-00241.001            | 2.105                          |
|  | Yes                 | 22                 | 46-00188.000            | 26.221                         |
|  | Yes                 | 23                 | 46-00037.000            | 0.828                          |
|  | Yes                 | 25                 | 46-00189.000            | 14.632                         |
| Gulfport Appalachia, LLC<br>ATTN: John Winzeler    | Yes                 | 1                  | 45-00295.000            | 8.437                          |
|  | Yes                 | 15                 | 46-00098.000            | 2.685                          |
|  | Yes                 | 16                 | 46-00093.001            | 18.398                         |
|  | Yes                 | 17a                | 46-00093.003            | 32.334                         |
|  | Yes                 | 17b                | 46-00093.003            | 1.529                          |
|  | Yes                 | 18                 | 46-00093.002            | 6.242                          |
|  | Yes                 | 19a                | 46-00093.000            | 2.334                          |
|  | Yes                 | 19b                | 46-00093.000            | 13.730                         |
|  | Yes                 | 24                 | 46-00101.000            | 11.863                         |
|  | Yes                 | 26                 | 46-00102.000            | 6.925                          |
|  | Yes                 | 27                 | 46-00225.000            | 7.473                          |
|  | Yes                 | 28                 | 46-00042.000            | 2.329                          |
|  | Yes                 | 29                 | 46-00077.000            | 17.034                         |
|  | Yes                 | 30                 | 46-00364.000            | 0.095                          |
|  | Yes                 | 32                 | 46-00002.000            | 0.966                          |

| Potential Mineral Interest and Working Interest Owners           |                     |                    |                         |   |
|--|---------------------|--------------------|-------------------------|---|
| Name   | Leased<br>Yes or No | Tract<br>Number(s) | Tax Map<br>Parcel ID(s) | Potential<br>Surface Acres<br>in Unit (Net) |
| Andrew Edward Farley   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Anne Pryor Farley  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Carolyn McGrath  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Charles P. Huffman Jr.   | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Connie S. Ackerman   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| David Atkinson   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Diane Boniphant Cross  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Edward Kennard Pickett, Jr.                                      | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Elizabeth Ann Farley   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Elizabeth Brown  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Gary L. Schafer  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| George Conrad Huffman Jr.  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Heather L. Estis, as Co-Trustee of the John G. Kennard Trust     | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Helen F. Doudna  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Henry O'Dell Johnson   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Jason A. Levine  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Jeremy Atkinson  | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Joy Sparks   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Judith L. Pickett  | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Kathryn Provo  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Kelly Mynes, as Co-Trustee of the John G. Kennard Trust          | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Laura Mae King Copeland  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Laurie Lyn Makoski   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Letty Jane Johnson Eggers-Terry                                  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Mark Selby   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Mary Ann Lucas   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Mary D. Oakes  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Melissa Mertz  | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Nancy Farley   | Yes                 | 5                  | 45-00137.000            | 21.398                                      |
| Nancy Wright   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Paul Clark   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Paula Boniphant Moreland   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Peggy Boniphant Briggs   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Richard C. Clark   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Richard D. Gibson  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Robert B. Nance, as Trustee of the Mary B. Nance Revocable Trust | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Robert F. Carter   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Rodney Selby   | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Roger L. Clark   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Roy E. Clark   | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Sofia Stringfield (Atkinson)                                     | No                  | 5                  | 45-00137.000            | 21.398                                      |
| Terry L. Wright  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Tim Clark  | No                  | 20                 | 46-00241.000            | 0.037                                       |
|  | No                  | 21                 | 46-00241.001            | 0.084                                       |
| Unknown Heirs or Assigns of Brice Dunn Love                      | No                  | 5                  | 45-00137.000            | 21.398                                      |

|  |    |    |              |       |
|--|----|----|--------------|-------|
| Unknown Heirs or Assigns of Charles Wright                   | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Darla E. Wright                  | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Doris Jackson                    | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Dorothy Wright                   | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Elizabeth Patton                 | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of George J. Pavell, III            | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of George Minch, a/k/a George Mench | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Ida Wright                       | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Josephine Halterman              | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Marjorie Knight                  | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Norma Fry                        | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Unknown Heirs or Assigns of Norma Lee Rossiter               | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Valerie Dean Moore   | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |
| Vicky Clayton  | No | 20 | 46-00241.000 | 0.037 |
|  | No | 21 | 46-00241.001 | 0.084 |

**NPRI = Non-Participating Royalty Interest**