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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, May 22, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re: Permit Modification Approval for Carnegie 13H  
47-049-02526-00-00

**Extended Lateral Length**

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin  
Chief

Operator's Well Number: Carnegie 13H  
Farm Name: Jeanne A Musgrave Akers & Joseph Forte  
U.S. WELL NUMBER: 47-049-02526-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 5/22/2024

Promoting a healthy environment.

05/24/2024

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Marion Mannington Glover Gap  
Operator ID County District Quadrangle

2) Operator's Well Number: 13H Well Pad Name: Carnegie

3) Farm Name/Surface Owner: Jeanne Ann Musgrave Akers & Joseph Forte Public Road Access: CR 7/3

4) Elevation, current ground: 1,318' (built) Elevation, proposed post-construction: 1,318' (built)

5) Well Type (a) Gas  Oil  Underground Storage

Other \_\_\_\_\_

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,712', 79', 2,593 psi

8) Proposed Total Vertical Depth: 7,712'

9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 26,647'

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11) Proposed Horizontal Leg Length: 18,111'

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12) Approximate Fresh Water Strata Depths: 309', 335', 341', 371', 709'

13) Method to Determine Fresh Water Depths: Offset Wells - 049-30050, 049-00200, 049-30239

14) Approximate Saltwater Depths: 1,852'

15) Approximate Coal Seam Depths: 515'-517', 669'-671', 937'-941', 1,034'-1,041'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: Harrison County Mine  
Depth: 1,034'-1,041'  
Seam: Pittsburgh  
Owner: Harrison County Coal Resources

18)

**CASING AND TUBING PROGRAM**

| <b>TYPE</b>  | <u>Size (in)</u> | <u>New or Used</u> | <u>Grade</u>   | <u>Weight per ft. (lb/ft)</u> | <u>FOOTAGE: For Drilling (ft)</u> | <u>INTERVALS: Left in Well (ft)</u> | <u>CEMENT: Fill-up (Cu. Ft.)/CTS</u> |
|--------------|------------------|--------------------|----------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Conductor    | 26               | New                | A252 GR 3 Bare | 85.6                          | 40                                | 40                                  | 45 ft^3 / CTS                        |
| Fresh Water  | 13 3/8           | New                | J-55           | 54.5                          | 1091                              | 1091                                | 1040 ft^3 / CTS                      |
| Coal         |                  |                    |                |                               |                                   |                                     |                                      |
| Intermediate | 9 5/8            | New                | J-55           | 36                            | 2673                              | 2673                                | 1050 ft^3 / CTS                      |
| Production   | 6                | New                | P-110          | 24                            | 26647                             | 26647                               | 500' above intermediate casing       |
| Tubing       |                  |                    |                |                               |                                   |                                     |                                      |
| Liners       |                  |                    |                |                               |                                   |                                     |                                      |

| <b>TYPE</b>  | <u>Size (in)</u> | <u>Wellbore Diameter (in)</u> | <u>Wall Thickness (in)</u> | <u>Burst Pressure (psi)</u> | <u>Anticipated Max. Internal Pressure (psi)</u> | <u>Cement Type</u> | <u>Cement Yield (cu. ft./k)</u> |
|--------------|------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------------------------|--------------------|---------------------------------|
| Conductor    | 26               | 30                            | 0.312                      | 1000                        | 18                                              | Class A/L          | 1.04 - 1.20                     |
| Fresh Water  | 13 3/8           | 17 1/2                        | 0.380                      | 2730                        | 2184                                            | Class A/L          | 1.04 - 1.20                     |
| Coal         |                  |                               |                            |                             |                                                 |                    |                                 |
| Intermediate | 9 5/8            | 12 3/8                        | 0.352                      | 3520                        | 2816                                            | Class A/H/L        | 1.04 - 1.20                     |
| Production   | 6                | 8 1/2                         | 0.400                      | 14580                       | 11664                                           | Class A/H/L        | 1.04 - 2.10                     |
| Tubing       |                  |                               |                            |                             |                                                 |                    |                                 |
| Liners       |                  |                               |                            |                             |                                                 |                    |                                 |

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*Ky Wilcox*  
2/21/24

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**PACKERS**

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|             |  |  |  |  |
|-------------|--|--|--|--|
| Kind:       |  |  |  |  |
| Sizes:      |  |  |  |  |
| Depths Set: |  |  |  |  |

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 60.28 (built)

22) Area to be disturbed for well pad only, less access road (acres): 8.96 (built)

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives  
Surface: Calcium Chloride. Used to speed the setting of cement slurries  
Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. Gas Migration Control Additive, Cement Retarder.  
Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

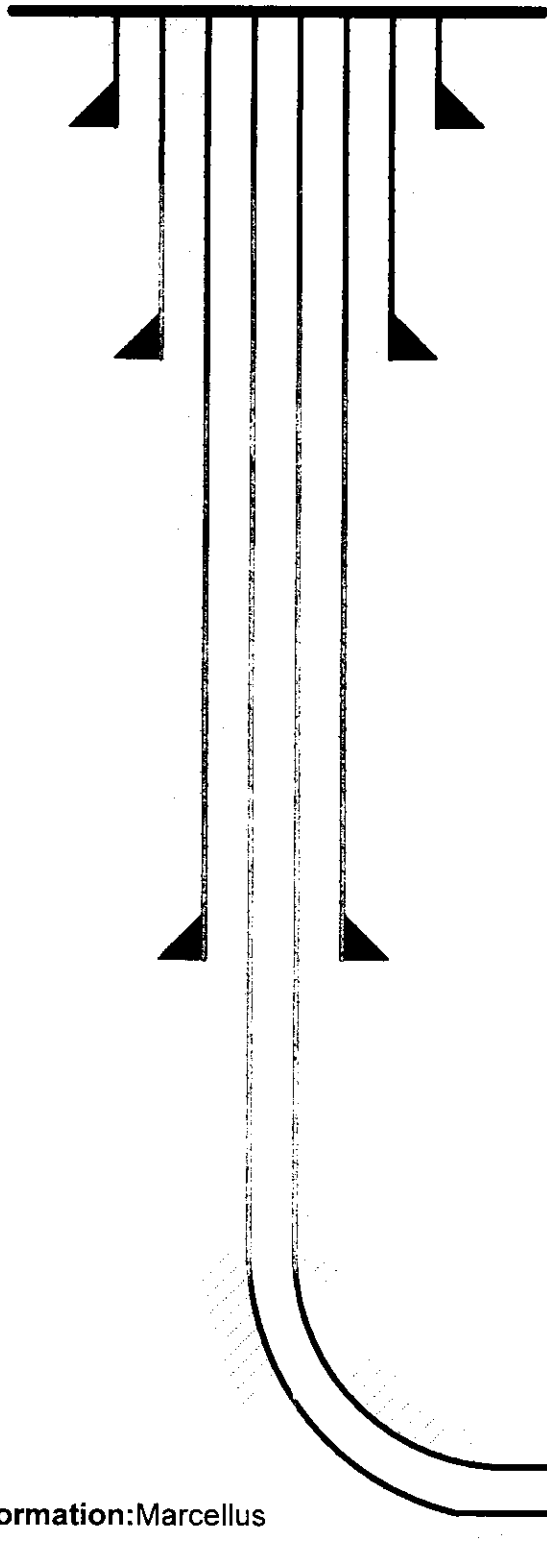
\*Note: Attach additional sheets as needed.

**EQT Production**

**Wellbore Diagram**

Well: Carnegie 13H  
Pad: Carnegie  
Elevation: 1318' GL 1331' KB

County: Marion  
State: West Virginia



**Conductor @ 40'**

26", 85.6#, A252 GR3 Bare, cement to surface w/ Class A/L

**Surface @ 1,091'**

13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

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**Intermediate @ 2,673'**

9-5/8", 36#, J-55, cement to surface w/ Class A/H/L

**Production @ 26,647' MD / 7,712' TVD**

6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

Formation: Marcellus

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EQT Production  
Hydraulic Fracturing Monitoring Plan  
Pad ID: Carnegie  
County: Marion

April 9, 2024

## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Carnegie pad: 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H, 17H and 19H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline as well as any issues that may arise during fracturing.

### 1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

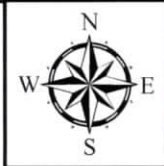
EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

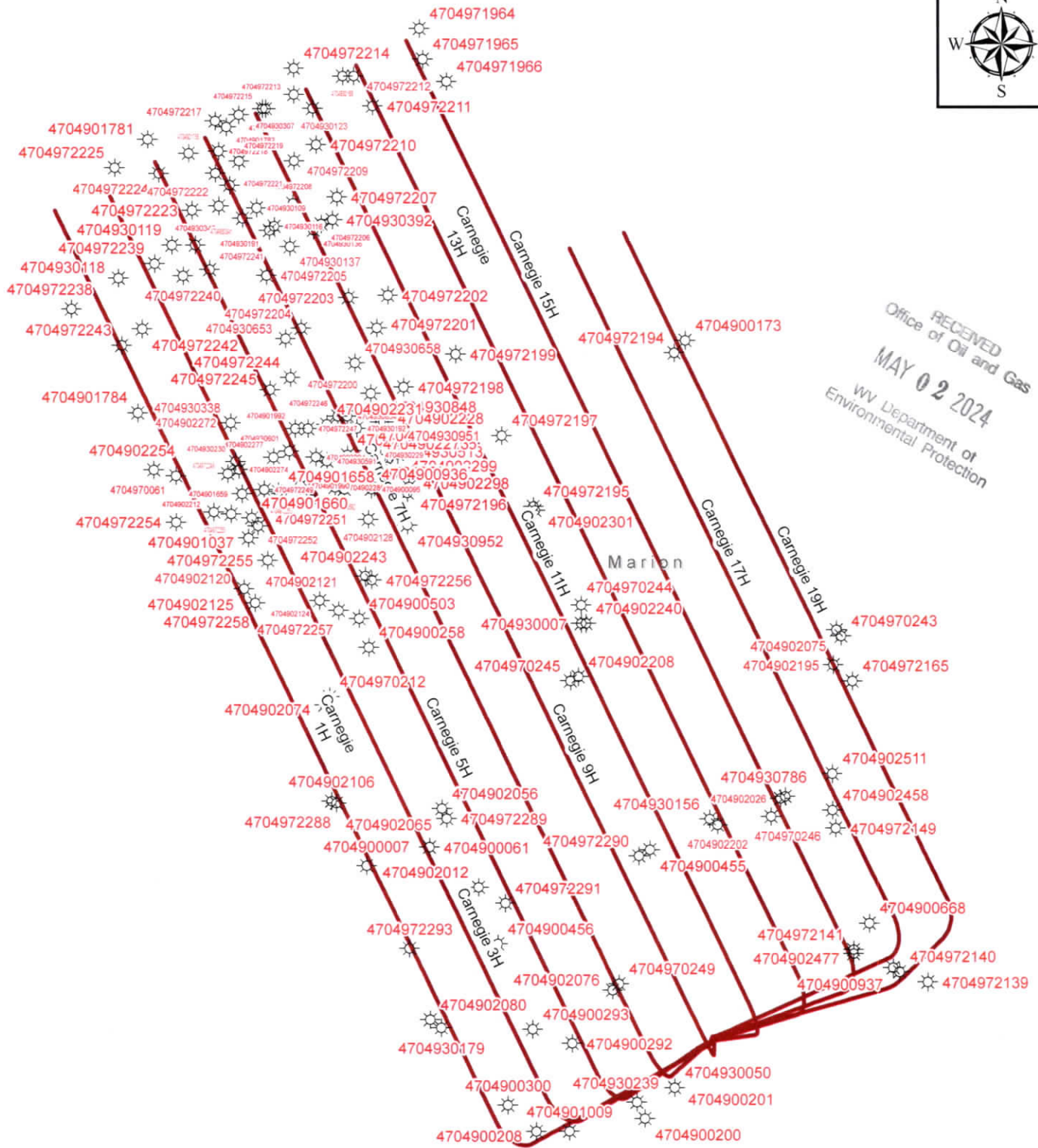
### 2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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Wetzel

**EQT**  
EQT Corporation  
625 Liberty Avenue  
Pittsburgh, PA 15222

### Carnegie North

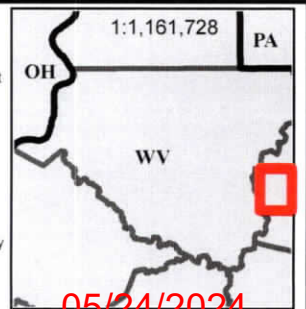
Vertical Offsets and  
Foreign Laterals  
within 500 Feet

### Legend

- Well Lateral\_FM
- Formation
  - Genesee
  - Marcellus
  - Utica
- Carnegie\_Offset\_Wells

#### Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



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| API_UWI_12      | ENVOperato                        | ENVWellSta | ENVWellTyp     | InitialOps                         | Latitude  | Longitude  | Elevat<br>IonG | Elevatio<br>nK | MD_FT | TVD_FT | WellName                           | WellSymbol                   |
|-----------------|-----------------------------------|------------|----------------|------------------------------------|-----------|------------|----------------|----------------|-------|--------|------------------------------------|------------------------------|
| 47-049-00063-00 | (N/A)                             | P & A      | OTHER          | (N/A)                              | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | KUHN, Z. J. 1                      | OTHER-P & A                  |
| 47-049-00249-00 | NEELY, D                          | UNREPORTED | OTHER          | NEELY, D                           | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | TALKINGTON/TOOTHMAN HEIRS 1        | OTHER-UNREPORTED             |
| 47-049-00289-00 | (N/A)                             | UNREPORTED | OTHER          | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | PRUNTY, FLOYD O. 2                 | OTHER-UNREPORTED             |
| 47-049-30136-00 | SOUTH PENN OIL (S. PENN NAT. GAS) | COMPLETED  | OIL            | SOUTH PENN OIL (S PENN NAT GAS)    | 39.563841 | -80.461327 | 1067           | 0              | 0     | 2260   | J A HAWKENBERRY                    | OIL-COMPLETED                |
| 47-049-72217-00 | SOUTH PENN OIL (S. PENN NAT. GAS) | UNREPORTED | UNREPORTE<br>D | SOUTH PENN OIL (S PENN NAT GAS)    | 39.569193 | -80.467508 | 1325           | 0              | 0     | 0      | JOHN HESS                          | UNREPORTED-UNREPORTED        |
| 47-049-72220-00 | (N/A)                             | UNREPORTED | UNREPORTE<br>D | (N/A)                              | 39.566581 | -80.467509 | 1218           | 0              | 0     | 0      | JOHN A HESS                        | UNREPORTED-UNREPORTED        |
| 47-049-00718-00 | (N/A)                             | P & A      | OTHER          | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063           | 1072           | 0     | 0      | FREELAND, E. J. 1                  | OTHER-P & A                  |
| 47-049-30952-00 | BISSETT, A. & M                   | UNREPORTED | UNREPORTE<br>D | BISSETT, A. & M.                   | 39.54934  | -80.455435 | 1029           | 0              | 0     | 0      | JOSEPH HAYHURST                    | UNREPORTED-UNREPORTED        |
| 47-049-71965-00 | (N/A)                             | UNREPORTED | UNREPORTE<br>D | (N/A)                              | 39.572242 | -80.454317 | 1094           | 0              | 0     | 0      | JAMES CAMPBELL                     | UNREPORTED-UNREPORTED        |
| 47-049-00037-00 | (N/A)                             | P & A      | OTHER          | (N/A)                              | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | METZ, RUTH/THOMAS, J. O. 2         | OTHER-P & A                  |
| 47-049-02240-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.544431 | -80.444117 | 1018           | 1027           | 0     | 0      | GLOVER, CHARLES P. 5335            | OTHER-P & A                  |
| 47-049-02254-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.552127 | -80.471501 | 1184           | 1193           | 0     | 0      | SNODGRASS, THOMAS LEE 5461         | OTHER-P & A                  |
| 47-049-02106-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.53576  | -80.4603   | 1285           | 1294           | 0     | 0      | GRIMM, ROBERT D. 5446              | OTHER-P & A                  |
| 47-049-00723-00 | (N/A)                             | P & A      | OTHER          | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063           | 1072           | 0     | 0      | HUEY, M. W. 4                      | OTHER-P & A                  |
| 47-049-72256-00 | BP                                | UNREPORTED | UNREPORTE<br>D | BP                                 | 39.546552 | -80.45769  | 1305           | 0              | 0     | 0      | JOSEPH T HAYHURST                  | UNREPORTED-UNREPORTED        |
| 47-049-72149-00 | (N/A)                             | UNREPORTED | UNREPORTE<br>D | (N/A)                              | 39.534349 | -80.428278 | 1318           | 0              | 0     | 0      | S C THORNE                         | UNREPORTED-UNREPORTED        |
| 47-049-02212-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.550011 | -80.467734 | 1190           | 1199           | 0     | 0      | ALLEGHENY FORESTLAND, LLC 5459     | OTHER-P & A                  |
| 47-049-01009-00 | EQUITRANS MIDSTREAM               | P & A      | GAS            | CONSOLIDATION COAL COMPANY         | 39.519544 | -80.445327 | 1203           | 1212           | 3220  | 3220   | CONSOLIDATION COAL CO. R-330       | GAS-P & A                    |
| 47-049-00503-00 | NATIONAL FUEL GAS                 | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.544665 | -80.458518 | 1407           | 1416           | 0     | 0      | GRIM, SHARON A. OR ROBER D. 5452   | OTHER-P & A                  |
| 47-049-00697-00 | MID-EASTERN OIL & GAS CO.         | PRODUCING  | GAS            | MID-EASTERN OIL & GAS CO.          | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | KEON, O. N. & F. V. 1              | GAS-PRODUCING                |
| 47-049-00304-00 | (N/A)                             | P & A      | OTHER          | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063           | 1072           | 0     | 0      | CAMPBELL, ROBERT 1                 | OTHER-P & A                  |
| 47-049-00815-00 | INVITATION ENERGY INC             | P & A      | OTHER          | BUCKEYE OIL PRODUCING              | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | HUEY 8                             | OTHER-P & A                  |
| 47-049-00973-00 | HOWARD, LORNA AGENT               | PRODUCING  | GAS            | HOWARD LORNA AGENT                 | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | FINCH, RUSSELL R. 3                | GAS-PRODUCING                |
| 47-049-72195-00 | (N/A)                             | UNREPORTED | UNREPORTE<br>D | (N/A)                              | 39.55018  | -80.447387 | 1096           | 0              | 0     | 0      | ALYCE DEVORE                       | UNREPORTED-UNREPORTED        |
| 47-049-00751-00 | GREYLOCK ENERGY                   | UNREPORTED | OTHER          | ENERGY CORP                        | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | TATTERSON, R. MICHAEL B-544        | OTHER-UNREPORTED             |
| 47-049-01992-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.55412  | -80.462538 | 1258           | 1267           | 0     | 0      | SNODGRASS, THOMAS LEE 5358         | OTHER-P & A                  |
| 47-049-02286-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.551173 | -80.459985 | 1188           | 1197           | 0     | 0      | LUCAS, WILLIAM C. & VICKIE E. 5346 | OTHER-P & A                  |
| 47-049-00831-00 | ARIES PETROLEUM CORP.             | P & A      | GAS            | CRESTON OIL                        | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | SATTERFIELD, J. T. 1               | GAS-P & A                    |
| 47-049-00438-00 | DIVERSIFIED ENERGY                | PRODUCING  | GAS            | DIVERSIFIED ENERGY                 | 39.551064 | -80.457728 | 1063           | 1072           | 2569  | 2569   | RIGGS 2396                         | GAS-PRODUCING                |
| 47-049-00208-00 | EQUITRANS MIDSTREAM               | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.519451 | -80.447393 | 1239           | 1248           | 0     | 0      | CONSOLIDATION COAL CO. R-436       | OTHER-P & A                  |
| 47-049-02056-00 | CONSOLIDATION COAL COMPANY        | P & A      | OTHER          | CONSOLIDATION COAL COMPANY         | 39.535366 | -80.453345 | 1412           | 1422           | 0     | 0      | SPONAUGLE, EARNEST 5333            | OTHER-P & A                  |
| 47-049-00722-00 | (N/A)                             | P & A      | OTHER          | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063           | 1072           | 0     | 0      | HUEY, M. W. 2                      | OTHER-P & A                  |
| 47-049-00773-00 | DIVERSIFIED ENERGY                | PRODUCING  | GAS            | DOMINION ENERGY TRANSMISSION, INC. | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | HAMILTON & HARDESTY                | GAS-PRODUCING                |
| 47-049-00813-00 | PILLAR ENERGY                     | P & A      | OTHER          | BUCKEYE OIL PRODUCING              | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | RICE, EUGENE 1                     | OTHER-P & A                  |
| 47-049-00629-00 | DIVERSIFIED ENERGY                | PRODUCING  | GAS            | DIVERSIFIED ENERGY                 | 39.551064 | -80.457728 | 1063           | 1073           | 0     | 0      | CUNNINGHAM, A. 71                  | GAS-PRODUCING                |
| 47-049-72165-00 | (N/A)                             | UNREPORTED | UNREPORTE<br>D | (N/A)                              | 39.54146  | -80.427154 | 1065           | 0              | 0     | 0      | PETER METZ                         | UNREPORTED-UNREPORTED        |
| 47-049-30653-00 | INTERSTATE PIPE & SUPPLY          | COMPLETED  | OIL & GAS      | INTERSTATE PIPE & SUPPLY           | 39.558475 | -80.463121 | 1101           | 0              | 0     | 2262   | G M ICE 1                          | OIL & GAS-INACTIVE COMPLETED |

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|                 |                              |                    |             |                                    |           |            |      |      |      |      |                                      |                        |
|-----------------|------------------------------|--------------------|-------------|------------------------------------|-----------|------------|------|------|------|------|--------------------------------------|------------------------|
| 47-049-00060-00 | CARNEGIE PROD CO             | UNREPORTED         | OTHER       | CARNEGIE PRODUCTION                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | KEENAN, MARTHA E. 3-1496             | OTHER-UNREPORTED       |
| 47-049-00612-00 | DIVERSIFIED ENERGY           | PRODUCING          | GAS         | DIVERSIFIED PRODUCTION             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | YOST, SUSAN 15                       | GAS-PRODUCING          |
| 47-049-00679-00 | PILLAR ENERGY                | P & A              | GAS         | BUCKEYE OIL PRODUCING              | 39.551064 | -80.457728 | 1063 | 1073 | 3415 | 3415 | ASH 1                                | GAS-P & A              |
| 47-049-00910-00 | INVITATION ENERGY INC        | P & A              | OTHER       | INVITATION ENERGY                  | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | RICE 2                               | OTHER-P & A            |
| 47-049-30513-00 | (N/A)                        | INACTIVE COMPLETED | OIL         | (N/A)                              | 39.55224  | -80.456748 | 1198 | 0    | 0    | 0    | 2193 2                               | OIL-INACTIVE COMPLETED |
| 47-049-30601-00 | RAAD SUPPLY COMPANY          | COMPLETED          | OIL         | RAAD SUPPLY COMPANY                | 39.552965 | -80.46293  | 1108 | 0    | 0    | 0    | 2131 E S EVANS 6                     | OIL-COMPLETED          |
| 47-049-70246-00 | BEATY ET AL                  | UNREPORTED         | UNREPORTE D | BEATY ET AL                        | 39.534935 | -80.432394 | 1108 | 0    | 0    | 0    | FRED BEATY                           | UNREPORTED-UNREPORTED  |
| 47-049-00716-00 | (N/A)                        | P & A              | OTHER       | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | FLUHARTY, CONRAD 3                   | OTHER-P & A            |
| 47-049-72246-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.55468  | -80.459829 | 1246 | 0    | 0    | 0    | ENOCH EVANS                          | UNREPORTED-UNREPORTED  |
| 47-049-71964-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.573692 | -80.454505 | 1166 | 0    | 0    | 0    | JAMES CAMPBELL                       | UNREPORTED-UNREPORTED  |
| 47-049-02080-00 | CONSOLIDATION COAL COMPANY   | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39.524988 | -80.454135 | 1100 | 1109 | 3049 | 3049 | BARRON, MARK A 5326                  | OTHER-P & A            |
| 47-049-30118-00 | HOPE CONSTRUCTION & REFINING | UNREPORTED         | OIL         | HOPE CONSTRUCTION & REFINING       | 39.561521 | -80.473692 | 1144 | 0    | 2331 | 0    | J W KENDALL                          | OIL-UNREPORTED         |
| 47-049-30592-00 | TRI-STATE PIPE COMPANY, THE  | COMPLETED          | GAS         | TRI-STATE PIPE COMPANY, THE        | 39.55108  | -80.45937  | 1187 | 0    | 0    | 0    | 3215 JOSEPH HAYHURST 12              | GAS-COMPLETED          |
| 47-049-72214-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.571806 | -80.462451 | 1199 | 0    | 0    | 0    | BENJAMIN PARRISH                     | UNREPORTED-UNREPORTED  |
| 47-049-00688-00 | OCCIDENTAL                   | UNREPORTED         | OTHER       | OCCIDENTAL PETR                    | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | JOLLIFF 1                            | OTHER-UNREPORTED       |
| 47-049-00939-00 | ARIES PETROLEUM CORP.        | P & A              | GAS         | CRESTON OIL                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | GLOVER 2                             | GAS-P & A              |
| 47-049-30239-00 | BP                           | INACTIVE COMPLETED | GAS         | BP                                 | 39.520918 | -80.441004 | 1156 | 0    | 0    | 0    | 3074 JOHN S MUSGRAVE                 | GAS-INACTIVE COMPLETED |
| 47-049-00426-00 | DIVERSIFIED ENERGY           | P & A              | OTHER       | DIVERSIFIED ENERGY                 | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MOORE, SARAH E. 415                  | OTHER-P & A            |
| 47-049-00550-00 | CONSOLIDATION COAL COMPANY   | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | LUCAS, J. E. 2                       | OTHER-P & A            |
| 47-049-72141-00 | BP                           | UNREPORTED         | UNREPORTE D | BP                                 | 39.528337 | -80.427152 | 998  | 0    | 0    | 0    | P G WEST                             | UNREPORTED-UNREPORTED  |
| 47-049-00702-00 | FOX DRLG CO                  | UNREPORTED         | OTHER       | FOX DRLG                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | THORNE, JAMES P., ETUX 1             | OTHER-UNREPORTED       |
| 47-049-72208-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.56513  | -80.462639 | 1089 | 0    | 0    | 0    | CAMPBELL & FLEMING                   | UNREPORTED-UNREPORTED  |
| 47-049-72210-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.568032 | -80.461139 | 1378 | 0    | 0    | 0    | JAMES CAMPBELL                       | UNREPORTED-UNREPORTED  |
| 47-049-00536-00 | CONSOLIDATION COAL COMPANY   | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HUEY, GEORGE A. 2                    | OTHER-P & A            |
| 47-049-30156-00 | CARNEGIE NATURAL GAS CO      | INACTIVE COMPLETED | GAS         | CARNEGIE NATURAL GAS               | 39.53479  | -80.436326 | 1095 | 0    | 0    | 0    | 2949 H F BLACKSHERE 1                | GAS-INACTIVE COMPLETED |
| 47-049-00423-00 | DIVERSIFIED ENERGY           | P & A              | OTHER       | DIVERSIFIED ENERGY                 | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | KEENAN, M. E. 1437                   | OTHER-P & A            |
| 47-049-02294-00 | CONSOLIDATION COAL COMPANY   | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39.552738 | -80.461207 | 1066 | 1075 | 0    | 0    | LUCAS, WILLIAM C. & VICKIE E. 5355   | OTHER-P & A            |
| 47-049-72225-00 | BP                           | UNREPORTED         | UNREPORTE D | BP                                 | 39.566872 | -80.473878 | 1396 | 0    | 0    | 0    | JOHN W KENDALL                       | UNREPORTED-UNREPORTED  |
| 47-049-72290-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.533042 | -80.44083  | 1110 | 0    | 0    | 0    | JOB ARNETT                           | UNREPORTED-UNREPORTED  |
| 47-049-72140-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.527236 | -80.424345 | 1257 | 0    | 0    | 0    | P G WEST                             | UNREPORTED-UNREPORTED  |
| 47-049-72258-00 | (N/A)                        | UNREPORTED         | UNREPORTE D | (N/A)                              | 39.545536 | -80.465074 | 1311 | 0    | 0    | 0    | S R ARNETT                           | UNREPORTED-UNREPORTED  |
| 47-049-00701-00 | FOX DRLG CO                  | UNREPORTED         | OTHER       | FOX DRLG                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | SMITH, BRENDAN                       | OTHER-UNREPORTED       |
| 47-049-00774-00 | DIVERSIFIED ENERGY           | P & A              | GAS         | DOMINION ENERGY TRANSMISSION, INC. | 39.551064 | -80.457728 | 1063 | 1072 | 2939 | 2939 | FETTY, V. 170                        | GAS-P & A              |
| 47-049-71966-00 | BP                           | UNREPORTED         | UNREPORTE D | BP                                 | 39.57108  | -80.452819 | 1104 | 0    | 0    | 0    | JAMES CAMPBELL                       | UNREPORTED-UNREPORTED  |
| 47-049-00688-00 | EQUITRANS MIDSTREAM          | P & A              | GAS         | CONSOLIDATION COAL COMPANY         | 39.529603 | -80.426223 | 998  | 1007 | 2826 | 2826 | MICHEALS, JEFFREY ., ET AL R-273 (1) | GAS-P & A              |
| 47-049-01659-00 | CONSOL                       | P & A              | OTHER       | MOUNTAIN ENERGY                    | 39.550939 | -80.4659   | 1145 | 1154 | 0    | 0    | ALLEGHENY FORESTLAND, LLC 5458       | OTHER-P & A            |
| 47-049-00938-00 | ARIES PETROLEUM CORP.        | P & A              | GAS         | CRESTON OIL                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | GLOVER 1                             | GAS-P & A              |
| 47-049-00285-00 | (N/A)                        | UNREPORTED         | OTHER       | OPERATOR UNKNOWN                   | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | C. W. BRANNON HEIRS A-288            | OTHER-UNREPORTED       |

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|-----------------|------------------------------|--------------------------------|----------------|------------------------------|-----------|------------|------|------|------|------|-------------------------------------|------------------------|
| 47-049-30786-00 | RAAD SUPPLY COMPANY          | UNREPORTED                     | OIL & GAS      | RAAD SUPPLY COMPANY          | 39.535945 | -80.431463 | 1123 | 0    | 2813 | 0    | J F BEATTY 1                        | OIL & GAS-UNREPORTED   |
| 47-049-00270-00 | (N/A)                        | UNREPORTED                     | OTHER          | OPERATOR UNKNOWN             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HARBERT, R. A. A-270                | OTHER-UNREPORTED       |
| 47-049-00651-00 | DORAN & ASSOC INC            | UNREPORTED                     | OTHER          | DORAN&ASSOCIATES             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | NEWBROUGH, LOWELL & LINDA 1-K-L-124 | OTHER-UNREPORTED       |
| 47-049-00391-00 | DIVERSIFIED ENERGY           | P & A                          | OTHER          | DIVERSIFIED ENERGY           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FLEMING, W. C. 1                    | OTHER-P & A            |
| 47-049-00515-00 | DIVERSIFIED ENERGY           | P & A                          | OTHER          | DIVERSIFIED PRODUCTION       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | EVANS, E. S. 5                      | OTHER-P & A            |
| 47-049-00900-00 | INVITATION ENERGY INC        | P & A                          | OTHER          | INVITATION ENERGY            | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | HUEY, JOHN - HEIRS 3                | OTHER-P & A            |
| 47-049-30338-00 | HOPE CONSTRUCTION & REFINING | P & A<br>INACTIVE<br>COMPLETED | OIL            | HOPE CONSTRUCTION & REFINING | 39.554415 | -80.466572 | 1243 | 0    | 0    | 2268 | 3                                   | OIL-INACTIVE COMPLETED |
| 47-049-30658-00 | BP                           | INACTIVE<br>COMPLETED          | GAS            | BP                           | 39.557315 | -80.458704 | 1036 | 0    | 0    | 3081 | E S EVANS                           | GAS-INACTIVE COMPLETED |
| 47-049-00507-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CUNNINGHAM, J. 6                    | OTHER-P & A            |
| 47-049-72197-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.553663 | -80.449447 | 1239 | 0    | 0    | 0    | ALYCE DEVORE                        | UNREPORTED-UNREPORTED  |
| 47-049-00660-00 | ANTCO                        | UNREPORTED                     | OTHER          | ANTCO                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | ANTULOV, JOHN & PETE 1              | OTHER-UNREPORTED       |
| 47-049-00279-00 | (N/A)                        | UNREPORTED                     | OTHER          | OPERATOR UNKNOWN             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CONSOLIDATION COAL CO. A-277        | OTHER-UNREPORTED       |
| 47-049-02202-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.534497 | -80.435771 | 1082 | 1091 | 0    | 0    | CONSOLIDATION COAL COMPANY 5234     | OTHER-P & A            |
| 47-049-02272-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.554367 | -80.46663  | 1250 | 1259 | 0    | 0    | SNODGRASS, THOMAS LEE 5462          | OTHER-P & A            |
| 47-049-00907-00 | INVITATION ENERGY INC        | P & A                          | OTHER          | INVITATION ENERGY            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | SUTTON, ESTHER 1                    | OTHER-P & A            |
| 47-049-72205-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.561646 | -80.464325 | 1116 | 0    | 0    | 0    | GEORGE MICE                         | UNREPORTED-UNREPORTED  |
| 47-049-72251-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.550616 | -80.461515 | 1276 | 0    | 0    | 0    | JOSEPH T HAYHURST                   | UNREPORTED-UNREPORTED  |
| 47-049-00106-00 | (N/A)                        | UNREPORTED                     | OTHER          | OPERATOR UNKNOWN             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CARTRIGHT, BESSIE, ET AL 1          | OTHER-UNREPORTED       |
| 47-049-00065-00 | (N/A)                        | P & A                          | OTHER          | (N/A)                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | RICHARDSON, W. P., ET AL 1          | OTHER-P & A            |
| 47-049-02511-00 | (N/A)                        | P & A                          | GAS            | (N/A)                        | 39.536966 | -80.42849  | 1272 | 1282 | 0    | 0    | J T SATTERFIELD 70210 # 2           | GAS-P & A              |
| 47-049-72257-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.545101 | -80.459829 | 1293 | 0    | 0    | 0    | S R ARNETT                          | UNREPORTED-UNREPORTED  |
| 47-049-02263-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.553234 | -80.457548 | 1027 | 1036 | 0    | 0    | LUCAS, WILLIAM C. & VICKIE E 5348   | OTHER-P & A            |
| 47-049-00292-00 | EQUITRANS MIDSTREAM          | P & A                          | OIL            | CONSOLIDATION COAL COMPANY   | 39.523753 | -80.44514  | 1066 | 1075 | 2228 | 2228 | DUNCAN, ERIC O 5324                 | OIL-P & A              |
| 47-049-00436-00 | EQUITRANS MIDSTREAM          | P & A<br>INACTIVE<br>COMPLETED | GAS            | EQUITRANS MIDSTREAM          | 39.551064 | -80.457728 | 1063 | 1072 | 2514 | 2514 | RICHARDSON, E. F. 2379              | GAS-INACTIVE COMPLETED |
| 47-049-72198-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.556131 | -80.455629 | 1279 | 0    | 0    | 0    | G W TOOTHMAN                        | UNREPORTED-UNREPORTED  |
| 47-049-00286-00 | (N/A)                        | UNREPORTED                     | OTHER          | OPERATOR UNKNOWN             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TOOTHMAN, AMOS E. A-286             | OTHER-UNREPORTED       |
| 47-049-02228-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.554358 | -80.456911 | 1046 | 1055 | 0    | 0    | MINGER, HAROLD G. & AMY 5349        | OTHER-P & A            |
| 47-049-70245-00 | KOEN & BEATY                 | UNREPORTED                     | UNREPORTE<br>D | KOEN & BEATY                 | 39.541606 | -80.445131 | 1027 | 0    | 0    | 0    | A F HAMILTON                        | UNREPORTED-UNREPORTED  |
| 47-049-72218-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.567742 | -80.467322 | 1135 | 0    | 0    | 0    | JOHN HESS                           | UNREPORTED-UNREPORTED  |
| 47-049-01758-00 | PERKINS OIL & GAS, INC.      | PRODUCING                      | GAS            | PERKINS OIL & GAS            | 39.567598 | -80.469195 | 1172 | 1181 | 3449 | 3449 | HIBBS 1                             | GAS-PRODUCING          |
| 47-049-72240-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.561647 | -80.46957  | 1359 | 0    | 0    | 0    | FRANK SNIDEN                        | UNREPORTED-UNREPORTED  |
| 47-049-72209-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.567162 | -80.462451 | 1251 | 0    | 0    | 0    | BENJAMIN PARRISH                    | UNREPORTED-UNREPORTED  |
| 47-049-00255-00 | (N/A)                        | UNREPORTED                     | OTHER          | OPERATOR UNKNOWN             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MILLER, WILLIAM J. 1                | OTHER-UNREPORTED       |
| 47-049-00812-00 | INVITATION ENERGY INC        | P & A                          | OTHER          | BUCKEYE OIL PRODUCING        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HUEY 4                              | OTHER-P & A            |
| 47-049-00428-00 | DIVERSIFIED ENERGY           | PRODUCING                      | GAS            | DIVERSIFIED ENERGY           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HIBBS, ELMER 1403                   | GAS-PRODUCING          |
| 47-049-00621-00 | DIVERSIFIED ENERGY           | P & A                          | OIL            | DIVERSIFIED PRODUCTION       | 39.551064 | -80.457728 | 1148 | 1157 | 3072 | 3072 | BROOKOVER, M. E. 1                  | OIL-P & A              |
| 47-049-72254-00 | (N/A)                        | UNREPORTED                     | UNREPORTE<br>D | (N/A)                        | 39.549455 | -80.470133 | 1214 | 0    | 0    | 0    | EMERSON HAUGHT                      | UNREPORTED-UNREPORTED  |
| 47-049-02299-00 | CONSOLIDATION COAL COMPANY   | P & A                          | OTHER          | CONSOLIDATION COAL COMPANY   | 39.552785 | -80.45598  | 1188 | 1197 | 0    | 0    | PARRISH, WILLIAM H. 5339            | OTHER-P & A            |

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| 47-049-02128-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.549617 | -80.457943 | 1060 | 1069 | 0    | 0 HAMILTON, PRISCILLA 2886                | OTHER-P & A                  |
| 47-049-00516-00 | DIVERSIFIED ENERGY                                      | P & A                    | OTHER                 | DIVERSIFIED PRODUCTION                      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 EVANS, E. S. 6                          | OTHER-P & A                  |
| 47-049-01990-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.551283 | -80.462219 | 1156 | 1165 | 0    | 0 LUCAS, WILLIAM C. & VICKIE E. 5347      | OTHER-P & A                  |
| 47-049-30340-00 | SOUTH PENN OIL (S. PENN NAT. GAS)                       | INACTIVE COMPLETED       | OIL & GAS UNREPORTE D | SOUTH PENN OIL (S PENN NAT GAS)             | 39.563116 | -80.468821 | 1468 | 0    | 0    | 2647 GEO MICE 6                           | OIL & GAS-INACTIVE COMPLETED |
| 47-049-72238-00 | (N/A) CONSOLIDATION COAL COMPANY                        | UNREPORTED               | (N/A)                 | (N/A)                                       | 39.56005  | -80.476689 | 1177 | 0    | 0    | 0 GEORGE W STARKEY                        | UNREPORTED-UNREPORTED        |
| 47-049-00510-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | WATER UNREPORTE D     | CONSOLIDATION COAL COMPANY                  | 39.551064 | -80.457728 | 1063 | 1073 | 3368 | 3368 CUNNINGHAM, W. N. 8                  | WATER-P & A                  |
| 47-049-72249-00 | (N/A) WHEELING NATURAL GAS CO., THE                     | UNREPORTED               | (N/A) UNREPORTE D     | (N/A) WHEELING NATURAL GAS CO., THE         | 39.551052 | -80.464513 | 1156 | 0    | 0    | 0 EMERSON HAUGHT                          | UNREPORTED-UNREPORTED        |
| 47-049-70244-00 | WHEELING NATURAL GAS CO., THE                           | UNREPORTED               | UNREPORTE D           | WHEELING NATURAL GAS CO., THE               | 39.54528  | -80.444383 | 1020 | 0    | 0    | 0 JOSEPH MCGILL                           | UNREPORTED-UNREPORTED        |
| 47-049-00041-00 | (N/A)                                                   | UNREPORTED               | OTHER                 | OPERATOR UNKNOWN                            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 KIMBALL, S. E. 1                        | OTHER-UNREPORTED             |
| 47-049-00114-00 | (N/A)                                                   | P & A                    | OTHER                 | (N/A)                                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 MOORE, EMMA 1                           | OTHER-P & A                  |
| 47-049-00906-00 | INVITATION ENERGY INC                                   | P & A                    | OTHER                 | INVITATION ENERGY                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 BURNS, MARY 2                           | OTHER-P & A                  |
| 47-049-02277-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.552705 | -80.463896 | 1117 | 1126 | 0    | 0 SNODGRASS, THOMAS LEE 5357              | OTHER-P & A                  |
| 47-049-02243-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.546804 | -80.458122 | 1264 | 1273 | 0    | 0 HAMILTON, RONALD A. & PRISCILLA A. 5344 | OTHER-P & A                  |
| 47-049-00726-00 | (N/A) CONSOLIDATION COAL COMPANY                        | P & A                    | OTHER                 | OPERATOR UNKNOWN                            | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0 STURMS, N. W. 3                         | OTHER-P & A                  |
| 47-049-02274-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.552121 | -80.466123 | 1127 | 1136 | 0    | 0 SNODGRASS, THOMAS LEE 5460              | OTHER-P & A                  |
| 47-049-00545-00 | DIVERSIFIED ENERGY                                      | PRODUCING                | GAS                   | DIVERSIFIED PRODUCTION                      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 KENNEDY, M 6                            | GAS-PRODUCING                |
| 47-049-00383-00 | DIVERSIFIED ENERGY                                      | P & A                    | OTHER UNREPORTE D     | DIVERSIFIED ENERGY                          | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0 LUCAS, J. 1000 3362                     | OTHER-P & A                  |
| 47-049-70061-00 | HARTMAN OIL                                             | UNREPORTED               | UNREPORTE D           | HARTMAN                                     | 39.551805 | -80.470131 | 1136 | 0    | 0    | 0 RACHEL EVANS                            | UNREPORTED-UNREPORTED        |
| 47-049-00738-00 | SCOTT, JAMES F                                          | P & A                    | OTHER UNREPORTE D     | SCOTT JAMES R                               | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 CANFIELD, CECIL V. S-415                | OTHER-P & A                  |
| 47-049-72215-00 | (N/A)                                                   | UNREPORTED               | (N/A) UNREPORTE D     | (N/A)                                       | 39.569774 | -80.464511 | 1091 | 0    | 0    | 0 CAMPBELL & FLEMING                      | UNREPORTED-UNREPORTED        |
| 47-049-72199-00 | (N/A)                                                   | UNREPORTED               | (N/A) UNREPORTE D     | (N/A)                                       | 39.557728 | -80.452257 | 1481 | 0    | 0    | 0 JUDSON METZ                             | UNREPORTED-UNREPORTED        |
| 47-049-00467-00 | DIVERSIFIED ENERGY                                      | P & A                    | OTHER                 | DIVERSIFIED PRODUCTION                      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 AMOS, P. B. 3                           | OTHER-P & A                  |
| 47-049-00937-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER                 | CONSOLIDATION COAL COMPANY                  | 39.527378 | -80.424659 | 1217 | 1227 | 0    | 0 THORNE 2                                | OTHER-P & A                  |
| 47-049-30654-00 | INTERSTATE PIPE & SUPPLY                                | INACTIVE COMPLETED       | OIL                   | INTERSTATE PIPE & SUPPLY                    | 39.554705 | -80.459185 | 1213 | 0    | 0    | 2222 JOSEPH HAYHURST                      | OIL-INACTIVE COMPLETED       |
| 47-049-00703-00 | FOX DRLG CO                                             | UNREPORTED               | OTHER                 | FOX DRLG                                    | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 GOOCH, MELVIN 2                         | OTHER-UNREPORTED             |
| 47-049-00908-00 | INVITATION ENERGY INC                                   | P & A                    | OTHER                 | INVITATION ENERGY                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 YOST, L. N. 1                           | OTHER-P & A                  |
| 47-049-00266-00 | (N/A)                                                   | UNREPORTED               | OTHER                 | OPERATOR UNKNOWN                            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 PARRISH, J. F. A-261                    | OTHER-UNREPORTED             |
| 47-049-00278-00 | (N/A)                                                   | UNREPORTED               | OTHER                 | OPERATOR UNKNOWN                            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 CONSOLIDATION COAL CO. A-264            | OTHER-UNREPORTED             |
| 47-049-00478-00 | DIVERSIFIED ENERGY                                      | P & A                    | OTHER                 | DIVERSIFIED PRODUCTION                      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 BLACKSHERE, B. F. 10                    | OTHER-P & A                  |
| 47-049-00832-00 | ARIES PETROLEUM CORP. SOUTH PENN OIL (S. PENN NAT. GAS) | P & A INACTIVE COMPLETED | GAS OIL & GAS         | CRESTON OIL SOUTH PENN OIL (S PENN NAT GAS) | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 SATTERFIELD, J. T. 2                    | GAS-P & A                    |
| 47-049-02208-00 | CONSOLIDATION COAL COMPANY                              | P & A                    | OTHER UNREPORTE D     | CONSOLIDATION COAL COMPANY                  | 39.541847 | -80.444579 | 1009 | 1018 | 0    | 0 CONSOLIDATION COAL COMPANY 5334         | OTHER-P & A                  |
| 47-049-72245-00 | (N/A)                                                   | UNREPORTED               | (N/A) UNREPORTE D     | (N/A)                                       | 39.555986 | -80.464138 | 1270 | 0    | 0    | 0 RACHAEL EVANS                           | UNREPORTED-UNREPORTED        |
| 47-049-00456-00 | EQUITRANS MIDSTREAM                                     | P & A                    | GAS                   | CONSOLIDATION COAL COMPANY                  | 39.528688 | -80.449824 | 1289 | 1298 | 0    | 0 BERDINE, DORIS THORNE 5328              | GAS-P & A                    |
| 47-049-00912-00 | INVITATION ENERGY INC                                   | P & A                    | OTHER                 | INVITATION ENERGY                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 TOOTHMAN 2                              | OTHER-P & A                  |
| 47-049-00443-00 | DIVERSIFIED ENERGY                                      | PRODUCING                | GAS                   | DIVERSIFIED ENERGY                          | 39.551064 | -80.457728 | 1063 | 1072 | 2935 | 2935 MARTIN 5017                          | GAS-PRODUCING                |
| 47-049-30137-00 | SOUTH PENN OIL (S. PENN NAT. GAS)                       | COMPLETED                | OIL                   | SOUTH PENN OIL (S PENN NAT GAS)             | 39.562971 | -80.462826 | 1265 | 0    | 0    | 2462 J A HAWKENBERRY                      | OIL-COMPLETED                |
| 47-049-00814-00 | INVITATION ENERGY INC                                   | P & A                    | OTHER                 | BUCKEYE OIL PRODUCING                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0 HUEY 5                                  | OTHER-P & A                  |

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| 47-049-00913-00 | NATIONAL FUEL GAS                  | UNREPORTED | OTHER       | EAST RESOURCES                  | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TENNANT, R. D. 5                   | OTHER-UNREPORTED       |
| 47-049-30179-00 | CARNEGIE NATURAL GAS CO            | UNREPORTED | UNREPORTE D | CARNEGIE NATURAL GAS            | 39.524624 | -80.453383 | 1109 | 0    | 3049 | 0    | PERRY ARNETT 1                     | UNREPORTED-UNREPORTED  |
| 47-049-72252-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.54931  | -80.464887 | 1394 | 0    | 0    | 0    | EMERSON HAUGHT                     | UNREPORTED-UNREPORTED  |
| 47-049-72255-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.547568 | -80.464325 | 1334 | 0    | 0    | 0    | JOSEPH T HAYHURST                  | UNREPORTED-UNREPORTED  |
| 47-049-01037-00 | CONSOL                             | P & A      | OTHER       | CONSOLIDATION COAL COMPANY      | 39.548658 | -80.465487 | 1393 | 1402 | 0    | 0    | LUCAS, WILLIAM C. & VICKIE E. 5090 | OTHER-P & A            |
| 47-049-00940-00 | ARIES PETROLEUM CORP.              | P & A      | GAS         | CRESTON OIL                     | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | GLOVER 3                           | GAS-P & A              |
| 47-049-30848-00 | SOUTH PENN OIL (S. PENN NAT. GAS)  | UNREPORTED | UNREPORTE D | SOUTH PENN OIL (S PENN NAT GAS) | 39.554415 | -80.457124 | 1051 | 0    | 0    | 0    | E S EVANS                          | UNREPORTED-UNREPORTED  |
| 47-049-00872-00 | COBHAM GAS INDUSTRIES, INC.        | P & A      | OTHER       | COBHAM GAS INDUSTRIES           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | AMMONS, B. A. 1                    | OTHER-P & A            |
| 47-049-02195-00 | CONSOLIDATION COAL COMPANY         | P & A      | OTHER       | CONSOLIDATION COAL COMPANY      | 39.542321 | -80.428381 | 1139 | 1148 | 0    | 0    | MICHAEL, JEFFREY & RONALD C. 5240  | OTHER-P & A            |
| 47-049-00601-00 | DIVERSIFIED ENERGY                 | PRODUCING  | GAS         | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | YOST, JAMES 5                      | GAS-PRODUCING          |
| 47-049-00474-00 | DIVERSIFIED ENERGY                 | P & A      | OIL         | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 986  | 996  | 1865 | 1865 | WATSON HEIRS 4                     | OIL-P & A              |
| 47-049-00501-00 | DIVERSIFIED ENERGY                 | PRODUCING  | GAS         | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CONWAY, B. F. 5                    | GAS-PRODUCING          |
| 47-049-00714-00 | (N/A)                              | P & A      | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | CUNNINGHAM, M. 3                   | OTHER-P & A            |
| 47-049-30230-00 | MILLIKEN, H. E., & SNIDER, A. M.   | COMPLETED  | OIL         | MILLIKEN, H. E. & SNIDER, A. M  | 39.55253  | -80.466302 | 1145 | 0    | 0    | 2165 | RACHEL EVANS                       | OIL-INACTIVE COMPLETED |
| 47-049-72194-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.557727 | -80.438394 | 1030 | 0    | 0    | 0    | B F HUEY                           | UNREPORTED-UNREPORTED  |
| 47-049-00300-00 | EQUITABLE GAS COMPANY              | P & A      | OTHER       | CONSOLIDATION COAL COMPANY      | 39.520783 | -80.449154 | 1249 | 1258 | 3604 | 3604 | CONSOLIDATION COAL R-435           | OTHER-P & A            |
| 47-049-00557-00 | DIVERSIFIED ENERGY                 | P & A      | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MORGAN, NIMROD 2                   | OTHER-P & A            |
| 47-049-00909-00 | INVITATION ENERGY INC              | P & A      | OTHER       | INVITATION ENERGY               | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | RICE 1                             | OTHER-P & A            |
| 47-049-30116-00 | HOPE CONSTRUCTION & REFINING       | UNREPORTED | OIL & GAS   | HOPE CONSTRUCTION & REFINING    | 39.563986 | -80.463762 | 1214 | 0    | 3215 | 2404 | O J CUNNINGHAM                     | OIL & GAS-UNREPORTED   |
| 47-049-72206-00 | BP                                 | UNREPORTED | UNREPORTE D | BP                              | 39.564114 | -80.460765 | 1090 | 0    | 0    | 0    | A HOCKINBERRY                      | UNREPORTED-UNREPORTED  |
| 47-049-72212-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.57137  | -80.458704 | 1336 | 0    | 0    | 0    | JAMES CAMPBELL                     | UNREPORTED-UNREPORTED  |
| 47-049-00453-00 | EQUITRANS MIDSTREAM                | UNREPORTED | OTHER       | EQUITRANS                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | NO SUCH NUMBER                     | OTHER-UNREPORTED       |
| 47-049-72203-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.560486 | -80.459079 | 1141 | 0    | 0    | 0    | JACOB OTT                          | UNREPORTED-UNREPORTED  |
| 47-049-72293-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.528543 | -80.455444 | 1301 | 0    | 0    | 0    | FAY MORAN                          | UNREPORTED-UNREPORTED  |
| 47-049-72291-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.53072  | -80.449261 | 1127 | 0    | 0    | 0    | P M HIBBS                          | UNREPORTED-UNREPORTED  |
| 47-049-00029-00 | O-I GLASS                          | P & A      | OTHER       | O-I GLASS                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HARTLEY, M. E. 144                 | OTHER-P & A            |
| 47-049-30007-00 | MANUFACTURERS LIGHT & HEAT CO      | UNREPORTED | GAS         | MANUFACTURERS LIGHT&HEAT        | 39.544409 | -80.444382 | 1037 | 0    | 0    | 0    | JOHN CONAWAY HEIRS                 | GAS-UNREPORTED         |
| 47-049-02255-00 | CONSOLIDATION COAL COMPANY         | P & A      | OTHER       | CONSOLIDATION COAL COMPANY      | 39.552819 | -80.459216 | 1079 | 1088 | 0    | 0    | LUCAS, WILLIAM C. 5354             | OTHER-P & A            |
| 47-049-00721-00 | (N/A)                              | P & A      | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | HOSTETTER, M. A. 2                 | OTHER-P & A            |
| 47-049-30050-00 | HOPE CONSTRUCTION & REFINING       | UNREPORTED | WATER       | HOPE CONSTRUCTION & REFINING    | 39.521594 | -80.43857  | 1113 | 0    | 2759 | 2754 | L G MUSGRAVE                       | WATER-UNREPORTED       |
| 47-049-72224-00 | (N/A)                              | UNREPORTED | UNREPORTE D | (N/A)                           | 39.566581 | -80.471069 | 1269 | 0    | 0    | 0    | JOHN A HESS                        | UNREPORTED-UNREPORTED  |
| 47-049-00034-00 | CARNEGIE PROD CO                   | UNREPORTED | OTHER       | CARNEGIE PRODUCTION             | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | YOST, ELIHU 1478                   | OTHER-UNREPORTED       |
| 47-049-00397-00 | DIVERSIFIED ENERGY                 | P & A      | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TENNANT, R. 6843                   | OTHER-P & A            |
| 47-049-01781-00 | PERKINS OIL & GAS, INC.            | PRODUCING  | GAS         | PERKINS OIL & GAS               | 39.568336 | -80.471812 | 2118 | 2127 | 3610 | 3610 | HIBBS 3                            | GAS-PRODUCING          |
| 47-049-00387-00 | ROSS AND WHARTON GAS COMPANY, INC. | P & A      | OTHER       | ROSS&WHARTON GAS CO             | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | MORRIS, A. 3865                    | OTHER-P & A            |
| 47-049-01782-00 | PERKINS OIL & GAS, INC.            | PRODUCING  | GAS         | PERKINS OIL & GAS               | 39.568916 | -80.46676  | 1825 | 1834 | 3491 | 3491 | HIBBS 4                            | GAS-PRODUCING          |
| 47-049-00430-00 | DIVERSIFIED ENERGY                 | PRODUCING  | GAS         | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1072 | 2890 | 2890 | MERRYFIELD, L. 2146                | GAS-PRODUCING          |
| 47-049-00935-00 | MUTSCHELKNAUS, CLARENCE W          | PRODUCING  | GAS         | MUTSCHELKNAUS CLARENCE W        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MCGRAW 1                           | GAS-PRODUCING          |

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| 47-049-7222-00  | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.564985 | -80.467322 | 1326 | 0    | 0    | 0    | GEORGE M ICE                      | UNREPORTED-UNREPORTED  |
| 47-049-72243-00 | BP                                 | UNREPORTED         | UNREPORTE D | BP                              | 39.558163 | -80.473504 | 1239 | 0    | 0    | 0    | G CAMPBELL                        | UNREPORTED-UNREPORTED  |
| 47-049-00258-00 | WOLF'S HEAD OIL REFINING CO., INC. | P & A              | WATER       | CONSOLIDATION COAL COMPANY      | 39.543308 | -80.457942 | 1309 | 1318 | 2570 | 2570 | GRIM, ROBERT D. 2905              | WATER-P & A            |
| 47-049-00488-00 | DIVERSIFIED ENERGY                 | P & A              | OTHER       | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BLACKSHERE, B. F. 33              | OTHER-P & A            |
| 47-049-00410-00 | DIVERSIFIED ENERGY                 | PRODUCING          | GAS         | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | ROBINSON, DUDLEY 151              | GAS-PRODUCING          |
| 47-049-72216-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.569484 | -80.46601  | 1229 | 0    | 0    | 0    | CAMPBELL & FLEMING                | UNREPORTED-UNREPORTED  |
| 47-049-02120-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.546157 | -80.465774 | 1364 | 1374 | 0    | 0    | WALTERS, JAY T. 5454              | OTHER-P & A            |
| 47-049-72250-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.550907 | -80.463388 | 1169 | 0    | 0    | 0    | EMERSON HAUGHT                    | UNREPORTED-UNREPORTED  |
| 47-049-72213-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.5705   | -80.46245  | 1256 | 0    | 0    | 0    | CAMPBELL & FLEMING                | UNREPORTED-UNREPORTED  |
| 47-049-72247-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.554099 | -80.461702 | 1248 | 0    | 0    | 0    | RACHAEL EVANS                     | UNREPORTED-UNREPORTED  |
| 47-049-00679-00 | PILLAR ENERGY                      | P & A              | GAS         | BUCKEYE OIL PRODUCING           | 39.551064 | -80.457728 | 1063 | 1073 | 3415 | 3415 | ASH 1                             | GAS-P & A              |
| 47-049-02065-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.535366 | -80.453345 | 1412 | 1421 | 0    | 0    | DUNCAN, ERIC O. 5329              | OTHER-P & A            |
| 47-049-00866-00 | NOUMENON CORPORATION               | PRODUCING          | GAS         | WV MINERAL GROUP LLC            | 39.551064 | -80.457728 | 1063 | 1073 | 3008 | 3008 | SNODERLY, J. C. 98                | GAS-PRODUCING          |
| 47-049-30392-00 | SOUTH PENN OIL (S. PENN NAT. GAS)  | INACTIVE COMPLETED | OIL         | SOUTH PENN OIL (S PENN NAT GAS) | 39.564276 | -80.460127 | 1066 | 0    | 0    | 2057 | J A HAWKINBERRY 1                 | OIL-INACTIVE COMPLETED |
| 47-049-02076-00 | CONSOLIDATION COAL COMPANY         | P & A              | GAS         | CONSOLIDATION COAL COMPANY      | 39.52643  | -80.442457 | 1163 | 1172 | 3130 | 3130 | STEELE, ROBERT II 5327            | GAS-P & A              |
| 47-049-00455-00 | EQUITRANS MIDSTREAM                | P & A              | OTHER       | LEATHERWOOD, INC.               | 39.533271 | -80.440096 | 1086 | 1095 | 0    | 0    | ARNETT 5332                       | OTHER-P & A            |
| 47-049-02125-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.546157 | -80.465774 | 1364 | 1373 | 0    | 0    | GRAY, JEFFREY B. 5454             | OTHER-P & A            |
| 47-049-00048-00 | (N/A)                              | P & A              | OTHER       | (N/A)                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HARRIS, M. W. 1                   | OTHER-P & A            |
| 47-049-70107-00 | SOUTH PENN OIL (S. PENN NAT. GAS)  | COMPLETED          | OIL         | SOUTH PENN OIL (S PENN NAT GAS) | 39.551164 | -80.457493 | 1039 | 0    | 2071 | 0    | JOSEPH HAYHURST                   | OIL-COMPLETED          |
| 47-049-30119-00 | HOPE CONSTRUCTION & REFINING       | UNREPORTED         | WATER       | HOPE CONSTRUCTION & REFINING    | 39.563116 | -80.47032  | 1388 | 0    | 2505 | 2045 | J W KENDALL                       | WATER-UNREPORTED       |
| 47-049-72221-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.566    | -80.466573 | 1267 | 0    | 0    | 0    | CAMPBELL & FLEMING                | UNREPORTED-UNREPORTED  |
| 47-049-00288-00 | (N/A)                              | UNREPORTED         | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HARDMAN, FRENCH                   | OTHER-UNREPORTED       |
| 47-049-00542-00 | DIVERSIFIED ENERGY                 | P & A              | GAS         | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | JONES, DAVID                      | GAS-P & A              |
| 47-049-00911-00 | INVITATION ENERGY INC              | P & A              | OTHER       | INVITATION ENERGY               | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | TOOTHMAN 1                        | OTHER-P & A            |
| 47-049-00422-00 | DIVERSIFIED ENERGY                 | P & A              | OTHER       | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HAMILTON, GEORGE 997              | OTHER-P & A            |
| 47-049-72139-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.526656 | -80.422472 | 1224 | 0    | 0    | 0    | G W BEATTY                        | UNREPORTED-UNREPORTED  |
| 47-049-00271-00 | (N/A)                              | UNREPORTED         | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MASON, LUTHER A-265               | OTHER-UNREPORTED       |
| 47-049-02074-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.540499 | -80.460707 | 1054 | 1063 | 0    | 0    | POWELL TRACY R 5451               | OTHER-P & A            |
| 47-049-00057-00 | DOMINION ENERGY                    | UNREPORTED         | OTHER       | HOPE GAS                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | RICE, JACOB 7737                  | OTHER-UNREPORTED       |
| 47-049-00526-00 | DIVERSIFIED ENERGY                 | P & A              | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HAMILTON, D. F. 8                 | OTHER-P & A            |
| 47-049-00582-00 | DIVERSIFIED ENERGY                 | P & A              | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TALKINGTON, A. O. 6               | OTHER-P & A            |
| 47-049-02231-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.554257 | -80.460543 | 1229 | 1238 | 0    | 0    | LUCAS, WILLIAM C. & VICKIE E 5356 | OTHER-P & A            |
| 47-049-00061-00 | CARNEGIE NATURAL GAS CO            | P & A              | GAS         | CONSOLIDATION COAL COMPANY      | 39.533477 | -80.454132 | 1315 | 1324 | 3437 | 3437 | CONSOLIDATION COAL COMPANY 5331   | GAS-P & A              |
| 47-049-00508-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CUNNINGHAM, J. 8                  | OTHER-P & A            |
| 47-049-70243-00 | FREEHOLD OIL & GAS                 | UNREPORTED         | UNREPORTE D | FREEHOLD OIL & GAS              | 39.543684 | -80.4279   | 1019 | 0    | 0    | 0    | B B BOARD                         | UNREPORTED-UNREPORTED  |
| 47-049-72219-00 | (N/A)                              | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.567162 | -80.466011 | 1094 | 0    | 0    | 0    | CAMPBELL & FLEMING                | UNREPORTED-UNREPORTED  |
| 47-049-00540-00 | CONSOLIDATION COAL COMPANY         | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | STURMS, HUEY 1                    | OTHER-P & A            |
| 47-049-00740-00 | EMAX OIL COMPANY                   | UNREPORTED         | OTHER       | EMAX                            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CANFIELD, CECIL B. S-415          | OTHER-UNREPORTED       |

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| 47-049-00747-00 | EMAX OIL COMPANY                  | UNREPORTED         | OTHER       | EMAX                            | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FRANKLIN REAL ESTATE S-462                          | OTHER-UNREPORTED         |
| 47-049-00461-00 | DIVERSIFIED ENERGY                | P & A              | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FLOYD, E. 1                                         | OTHER-P & A              |
| 47-049-00247-00 | (N/A)                             | UNREPORTED         | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TETRICK, LLOYD 1                                    | OTHER-UNREPORTED         |
| 47-049-02295-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.552574 | -80.457088 | 1075 | 1084 | 0    | 0    | PARRISH, WILLIAM H. 2885                            | OTHER-P & A              |
| 47-049-02012-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.531469 | -80.451017 | 1150 | 1159 | 0    | 0    | CONSOLIDATION COAL CO. 5330                         | OTHER-P & A              |
| 47-049-72289-00 | (N/A)                             | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.534929 | -80.453008 | 1337 | 0    | 0    | 0    | KENNEDY BROS 1                                      | UNREPORTED-UNREPORTED    |
| 47-049-00462-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FLOYD, R. P. 5                                      | OTHER-P & A              |
| 47-049-00378-00 | DIVERSIFIED ENERGY                | P & A              | OTHER       | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | BAYNE, L. 2941                                      | OTHER-P & A              |
| 47-049-72223-00 | (N/A)                             | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.564839 | -80.469008 | 1388 | 0    | 0    | 0    | GEORGE M ICE                                        | UNREPORTED-UNREPORTED    |
| 47-049-00625-00 | UNION GAS CORPORATION             | UNREPORTED         | OTHER       | UNION GAS CORP (UNION GAS CO )  | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | JONES, JEANETTE 1                                   | OTHER-UNREPORTED         |
| 47-049-02121-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.545585 | -80.460954 | 1313 | 1323 | 0    | 0    | WALTERS, JAY T 5453                                 | OTHER-P & A              |
| 47-049-02273-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.552604 | -80.457611 | 1028 | 1037 | 0    | 0    | LUCAS, WILLIAM C. 5341                              | OTHER-P & A              |
| 47-049-00720-00 | (N/A)                             | P & A              | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | HALL, N. E. 6                                       | OTHER-P & A              |
| 47-049-00728-00 | (N/A)                             | P & A              | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | WELLS, C. E. 2                                      | OTHER-P & A              |
| 47-049-02298-00 | CONSOLIDATION COAL COMPANY        | P & A              | GAS         | CONSOLIDATION COAL COMPANY      | 39.551215 | -80.455329 | 1149 | 1158 | 0    | 0    | HAMILTON, PRISCILLA 5338                            | GAS-P & A                |
| 47-049-00007-00 | EQUITRANS MIDSTREAM               | PERMIT EXPIRED     | OIL & GAS   | EQUITRANS                       | 39.532607 | -80.458144 | 1335 | 1345 | 2356 | 2356 | HAYES, LANA 6198                                    | OIL & GAS-PERMIT EXPIRED |
| 47-049-30307-00 | SOUTH PENN OIL (S. PENN NAT. GAS) | INACTIVE COMPLETED | OIL         | SOUTH PENN OIL (S PENN NAT GAS) | 39.569786 | -80.464252 | 1088 | 0    | 0    | 2437 | 1                                                   | OIL-INACTIVE COMPLETED   |
| 47-049-00472-00 | HOSUTLER, D. DIANE                | PRODUCING          | OIL         | HOSUTLER D DIANE                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | ASH, DORCAS 2                                       | OIL-PRODUCING            |
| 47-049-70106-00 | SOUTH PENN OIL (S. PENN NAT. GAS) | UNREPORTED         | GAS         | SOUTH PENN OIL (S PENN NAT GAS) | 39.552965 | -80.457872 | 1037 | 0    | 3088 | 0    | JOSEPH HAYHURST                                     | GAS-UNREPORTED           |
| 47-049-00719-00 | (N/A)                             | P & A              | OTHER       | (N/A)                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FREELAND, T. F. 4                                   | OTHER-P & A              |
| 47-049-00698-00 | CONSOL                            | UNREPORTED         | OTHER       | CONSOL GAS COMPANY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | AMOS, JOHN 1-83-SH                                  | OTHER-UNREPORTED         |
| 47-049-01658-00 | CONSOL                            | P & A              | OTHER       | MOUNTAIN ENERGY                 | 39.551028 | -80.463641 | 1181 | 1190 | 0    | 0    | ALLEGHENY FORESTLANDS, LLC 5457 (1)                 | OTHER-P & A              |
| 47-049-00465-00 | COBHAM GAS INDUSTRIES, INC.       | P & A              | OIL         | CONSOLIDATION COAL COMPANY      | 39.551064 | -80.457728 | 1063 | 1073 | 2071 | 2071 | HAYHURST, J. 5342                                   | OIL-P & A                |
| 47-049-00050-00 | (N/A)                             | P & A              | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | ASH HEIRS 1                                         | OTHER-P & A              |
| 47-049-00201-00 | EQUITRANS MIDSTREAM               | DRILLED            | OTHER       | EQUITRANS                       | 39.521601 | -80.438596 | 1112 | 1121 | 0    | 0    | MUSGRAVE, GUY F 6169                                | OTHER-DRILLED            |
| 47-049-00448-00 | DIVERSIFIED ENERGY                | PRODUCING          | GAS         | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1072 | 1926 | 1926 | GRIM 5169                                           | GAS-PRODUCING            |
| 47-049-00452-00 | EQUITABLE GAS COMPANY             | INACTIVE PRODUCER  | OTHER       | EQUITABLE                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BRAND 525                                           | OTHER-INACTIVE PRODUCER  |
| 47-049-72201-00 | (N/A)                             | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.559034 | -80.457315 | 1181 | 0    | 0    | 0    | MARY B                                              | UNREPORTED-UNREPORTED    |
| 47-049-00260-00 | (N/A)                             | UNREPORTED         | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FULAYTER, STEVE                                     | OTHER-UNREPORTED         |
| 47-049-00717-00 | (N/A)                             | P & A              | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | FLUHARTY, HAMAN 2                                   | OTHER-P & A              |
| 47-049-72242-00 | (N/A)                             | UNREPORTED         | UNREPORTE D | (N/A)                           | 39.559034 | -80.472193 | 1078 | 0    | 0    | 0    | FRANK SNIDER                                        | UNREPORTED-UNREPORTED    |
| 47-049-72196-00 | BP                                | UNREPORTED         | UNREPORTE D | BP                              | 39.550907 | -80.455442 | 1128 | 0    | 0    | 0    | JOSEPH HAYHURST                                     | UNREPORTED-UNREPORTED    |
| 47-049-00964-00 | C & J OIL & GAS INC               | P & A              | OTHER       | C & J O&G                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | ASH, DORCAS 1                                       | OTHER-P & A              |
| 47-049-00743-00 | FOX DRLG CO                       | UNREPORTED         | OTHER       | FOX DRLG                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | SATTERFIELD, ORVAL R. 2                             | OTHER-UNREPORTED         |
| 47-049-00553-00 | DIVERSIFIED ENERGY                | PRODUCING          | GAS         | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MORGAN, C. B. 3                                     | GAS-PRODUCING            |
| 47-049-00715-00 | (N/A)                             | P & A              | OTHER       | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | EFAW, M. C. 1                                       | OTHER-P & A              |
| 47-049-02301-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.55005  | -80.447273 | 1094 | 1103 | 0    | 0    | CONSOLIDATION COAL COMPANY 5336                     | OTHER-P & A              |
| 47-049-02477-00 | CONSOLIDATION COAL COMPANY        | P & A              | OTHER       | CONSOLIDATION COAL COMPANY      | 39.528112 | -80.427201 | 1001 | 1010 | 0    | 0    | S. C. & JENNIE THORNE (C/O PATTY STURM) ET AL R-275 | OTHER-P & A              |

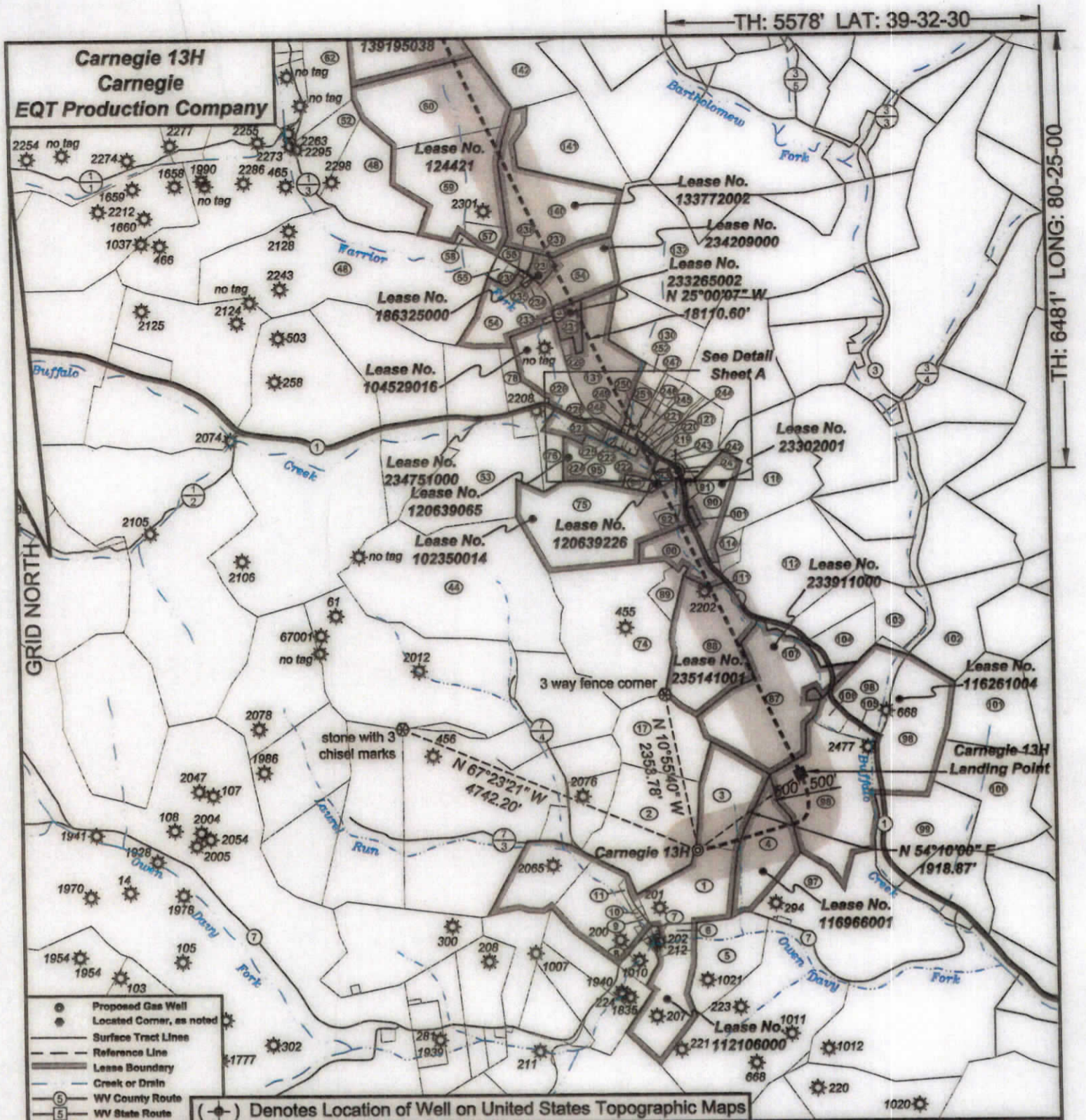
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|-----------------|---------------------------------------------------------|--------------------|-------------|------------------------------------|-----------|------------|------|------|------|------|--------------------------------|------------------------|
| 47-049-30341-00 | SOUTH PENN OIL (S. PENN NAT GAS)                        | INACTIVE COMPLETED | OIL         | SOUTH PENN OIL (S PENN NAT GAS)    | 39 564421 | -80.465823 | 1289 | 0    | 0    | 2472 | GEO M ICE 4                    | OIL-INACTIVE COMPLETED |
| 47-049-02026-00 | CONSOLIDATION COAL COMPANY                              | P & A              | GAS         | CONSOLIDATION COAL COMPANY         | 39 535784 | -80.431759 | 1080 | 1089 | 2813 | 2813 | BAKER, LARRY E. 5235           | GAS-P & A              |
| 47-049-00500-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED PRODUCTION             | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CONAWAY, BELLE 2               | GAS-PRODUCING          |
| 47-049-00609-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED PRODUCTION             | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | YOST, SUSAN 9                  | GAS-PRODUCING          |
| 47-049-30229-00 | MILLIKEN, H. E., & SNIDER, A. M.                        | DRILLED            | WATER       | MILLIKEN, H. E. & SNIDER, A. M.    | 39 55282  | -80.457498 | 1037 | 0    | 2045 | 2019 | J D CHARLTON                   | WATER-DRILLED          |
| 47-049-72241-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 561936 | -80.467885 | 1383 | 0    | 0    | 0    | GEORGE M ICE                   | UNREPORTED-UNREPORTED  |
| 47-049-00592-00 | ERP FEDERAL MINING COMPLEX, LLC                         | P & A              | OTHER       | ERP FEDERAL MINING COMPLEX, LLC    | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | TUCKER, D. D. 3                | OTHER-P & A            |
| 47-049-00173-00 | B F HUEY                                                | P & A              | WATER       | OPERATOR UNKNOWN                   | 39 55835  | -80.437673 | 1095 | 1104 | 3317 | 3317 | HUEY, B G 1                    | WATER-P & A            |
| 47-049-72207-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 56542  | -80.459828 | 1176 | 0    | 0    | 0    | A HOCKINBERRY                  | UNREPORTED-UNREPORTED  |
| 47-049-02124-00 | CONSOLIDATION COAL COMPANY                              | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39 545585 | -80.460954 | 1313 | 1322 | 0    | 0    | GRAY, JEFFREY B 5453           | OTHER-P & A            |
| 47-049-00817-00 | WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL&GAS | P & A              | OTHER       | OPERATOR UNKNOWN                   | 39 551064 | -80.457728 | 1063 | 1072 | 0    | 0    | BAKER 2                        | OTHER-P & A            |
| 47-049-00523-00 | COMMONWEALTH ENERGY, INC                                | P & A              | OTHER       | COMMONWEALTH ENERGY                | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | GLOVER, A. M. 1                | OTHER-P & A            |
| 47-049-00575-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED ENERGY                 | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | SNODERLY, M. S. 5              | GAS-PRODUCING          |
| 47-049-30192-00 | SOUTH PENN OIL (S. PENN NAT GAS)                        | INACTIVE COMPLETED | OIL         | SOUTH PENN OIL (S PENN NAT GAS)    | 39 554125 | -80.458622 | 1080 | 0    | 0    | 2101 | JOSEPH HAYHURST 3              | OIL-INACTIVE COMPLETED |
| 47-049-72204-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 559034 | -80.462076 | 1064 | 0    | 0    | 0    | MARY ICE                       | UNREPORTED-UNREPORTED  |
| 47-049-72244-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 556566 | -80.462826 | 1346 | 0    | 0    | 0    | ENOCH EVANS                    | UNREPORTED-UNREPORTED  |
| 47-049-00934-00 | MUTSHELKNAUS, CLARENCE W                                | PRODUCING          | OIL         | MUTSHELKNAUS CLARENCE W            | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | HAMILTON 1                     | OIL-PRODUCING          |
| 47-049-72200-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 555841 | -80.457691 | 1046 | 0    | 0    | 0    | ENOCH EVANS                    | UNREPORTED-UNREPORTED  |
| 47-049-70249-00 | BP                                                      | UNREPORTED         | UNREPORTE D | BP                                 | 39 526656 | -80.442142 | 1196 | 0    | 0    | 0    | JAS HAYES 1                    | UNREPORTED-UNREPORTED  |
| 47-049-72248-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 551922 | -80.466676 | 1146 | 0    | 0    | 0    | RACHAEL EVANS                  | UNREPORTED-UNREPORTED  |
| 47-049-72288-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 535655 | -80.460017 | 1245 | 0    | 0    | 0    | D L CUNNINGHAM                 | UNREPORTED-UNREPORTED  |
| 47-049-30109-00 | HOPE CONSTRUCTION & REFINING                            | UNREPORTED         | WATER       | HOPE CONSTRUCTION & REFINING       | 39 564856 | -80.464887 | 1281 | 0    | 2471 | 2464 | O J CUNNINGHAM                 | WATER-UNREPORTED       |
| 47-049-00618-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED ENERGY                 | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BEATY, M. A. 20                | GAS-PRODUCING          |
| 47-049-00727-00 | (N/A)                                                   | P & A              | OTHER       | OPERATOR UNKNOWN                   | 39 551064 | -80.457728 | 1063 | 1072 | 0    | 0    | MICHAEL, E. I. 1               | OTHER-P & A            |
| 47-049-30951-00 | BISSETT, A. & M.                                        | UNREPORTED         | UNREPORTE D | BISSETT, A. & M.                   | 39 552965 | -80.455999 | 1199 | 0    | 0    | 0    | JOSEPH HAYHURST                | UNREPORTED-UNREPORTED  |
| 47-049-00616-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED ENERGY                 | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BEATY, M. A. 15                | GAS-PRODUCING          |
| 47-049-72239-00 | BP                                                      | UNREPORTED         | UNREPORTE D | BP                                 | 39 562227 | -80.471443 | 1232 | 0    | 0    | 0    | JOHN W KENDALL                 | UNREPORTED-UNREPORTED  |
| 47-049-02458-00 | CONSOLIDATION COAL COMPANY                              | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39 535155 | -80.428505 | 1341 | 1350 | 0    | 0    | BAKER, LARRY E. 5239           | OTHER-P & A            |
| 47-049-00559-00 | DIVERSIFIED ENERGY                                      | PRODUCING          | GAS         | DIVERSIFIED ENERGY                 | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MORGAN, N. 5                   | GAS-PRODUCING          |
| 47-049-00774-00 | DIVERSIFIED ENERGY                                      | P & A              | GAS         | DOMINION ENERGY TRANSMISSION, INC. | 39 551064 | -80.457728 | 1063 | 1072 | 2939 | 2939 | FETTY, V. 3170                 | GAS-P & A              |
| 47-049-00576-00 | CONSOLIDATION COAL COMPANY                              | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | SNODERLY, M. S. 7              | OTHER-P & A            |
| 47-049-72253-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 549891 | -80.466574 | 1244 | 0    | 0    | 0    | EMERSON HAUGHT                 | UNREPORTED-UNREPORTED  |
| 47-049-01660-00 | CONSOL                                                  | P & A              | OTHER       | MOUNTAIN ENERGY                    | 39 54972  | -80.465292 | 1324 | 1333 | 0    | 0    | ALLEGHENY FORESTLAND, LLC 5456 | OTHER-P & A            |
| 47-049-02075-00 | CONSOLIDATION COAL COMPANY                              | P & A              | OTHER       | CONSOLIDATION COAL COMPANY         | 39 544037 | -80.42819  | 1041 | 1050 | 0    | 0    | SNODGRASS, TOM LEE 5250        | OTHER-P & A            |
| 47-049-72211-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 569919 | -80.457502 | 1350 | 0    | 0    | 0    | JAMES CAMPBELL                 | UNREPORTED-UNREPORTED  |
| 47-049-72202-00 | (N/A)                                                   | UNREPORTED         | UNREPORTE D | (N/A)                              | 39 560631 | -80.456566 | 1127 | 0    | 0    | 0    | JACOB OTT                      | UNREPORTED-UNREPORTED  |
| 47-049-00136-00 | (N/A)                                                   | P & A              | OTHER       | (N/A)                              | 39 551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BUCKLEW, N. E. 2               | OTHER-P & A            |
| 47-049-00200-00 | EQUITRANS MIDSTREAM                                     | DRILLED            | OTHER       | EQUITRANS                          | 39 520126 | -80.440456 | 1149 | 1158 | 0    | 0    | ELSHELMAN, ROGER 6168          | OTHER-DRILLED          |



|                 |                                  |            |            |                                 |           |            |      |      |      |      |                        |                       |
|-----------------|----------------------------------|------------|------------|---------------------------------|-----------|------------|------|------|------|------|------------------------|-----------------------|
| 47-049-00483-00 | DIVERSIFIED ENERGY               | P & A      | OTHER      | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | BLACKSHERE, B. F. 22   | OTHER-P & A           |
| 47-049-00571-00 | DIVERSIFIED ENERGY               | P & A      | OTHER      | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | PRICHARD, M. A. 9      | OTHER-P & A           |
| 47-049-01784-00 | PERKINS OIL & GAS, INC.          | PRODUCING  | OIL & GAS  | PERKINS OIL & GAS               | 39.554893 | -80.472483 | 1358 | 1367 | 3630 | 3630 | RIGGS 2                | OIL & GAS-PRODUCING   |
| 47-049-00549-00 | DIVERSIFIED ENERGY               | P & A      | OTHER      | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | KOEN-MCGRAW 7          | OTHER-P & A           |
| 47-049-00741-00 | FOX DRLG CO                      | UNREPORTED | OTHER      | FOX DRLG                        | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MICHAEL, J. R., ETUX 1 | OTHER-UNREPORTED      |
| 47-049-30591-00 | TRI-STATE PIPE COMPANY, THE      | COMPLETED  | OIL        | TRI-STATE PIPE COMPANY, THE     | 39.55253  | -80.460495 | 1051 | 0    | 0    | 2079 | JOSEPH HAYHURST 9      | OIL-COMPLETED         |
| 47-049-30188-00 | HOPE CONSTRUCTION & REFINING     | UNREPORTED | OIL        | HOPE CONSTRUCTION & REFINING    | 39.571381 | -80.459381 | 1410 | 0    | 2522 | 2516 | JAMES CAMPBELL         | OIL-UNREPORTED        |
| 47-049-70212-00 | SOUTH PENN OIL (S. PENN NAT GAS) | UNREPORTED | UNREPORTED | SOUTH PENN OIL (S PENN NAT GAS) | 39.540881 | -80.460391 | 1074 | 0    | 0    | 0    | RILEY ARNETT           | UNREPORTED-UNREPORTED |
| 47-049-00140-00 | (N/A)                            | UNREPORTED | OTHER      | OPERATOR UNKNOWN                | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | MOORE, W. B. 1         | OTHER-UNREPORTED      |
| 47-049-00005-00 | O-I GLASS                        | P & A      | OTHER      | O-I GLASS                       | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | KEEFOVER, O. A. 140    | OTHER-P & A           |
| 47-049-00372-00 | DIVERSIFIED ENERGY               | PRODUCING  | GAS        | DIVERSIFIED PRODUCTION          | 39.551064 | -80.457728 | 1063 | 1072 | 0    | 0    | AMOS, D. 2589          | GAS-PRODUCING         |
| 47-049-00520-00 | DIVERSIFIED ENERGY               | P & A      | OTHER      | DIVERSIFIED ENERGY              | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | FURBEE, J. H. 4        | OTHER-P & A           |
| 47-049-00936-00 | CONSOL                           | P & A      | OTHER      | CONSOLIDATION COAL COMPANY      | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | THORNE 1               | OTHER-P & A           |
| 47-049-30123-00 | HOPE CONSTRUCTION & REFINING     | UNREPORTED | WATER      | HOPE CONSTRUCTION & REFINING    | 39.569786 | -80.461327 | 1272 | 0    | 2468 | 0    | JAMES CAMPBELL         | WATER-UNREPORTED      |
| 47-049-00095-00 | (N/A)                            | P & A      | OTHER      | (N/A)                           | 39.551064 | -80.457728 | 1063 | 1073 | 0    | 0    | CARPENTER, DENZEL E. 1 | OTHER-P & A           |
| 47-049-00293-00 | CONSOLIDATION COAL COMPANY       | P & A      | DRY HOLE   | CONSOLIDATION COAL COMPANY      | 39.524479 | -80.447575 | 1058 | 1067 | 2931 | 2931 | MORGAN, NANCY J. 5325  | DRY HOLE-P & A        |
| 47-049-00292-00 | EQUITRANS MIDSTREAM              | P & A      | OIL        | CONSOLIDATION COAL COMPANY      | 39.523753 | -80.44514  | 1066 | 1075 | 2228 | 2228 | DUNCAN, ERIC O. 5324   | OIL-P & A             |

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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Ben R. Singleton*  
P.S. 2092



FILE NO: 92-21  
DRAWING NO: Carnegie 13H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: April 29 20 24  
OPERATOR'S WELL NO.: Carnegie 13H  
API WELL NO  
47 - 049 - 02526  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

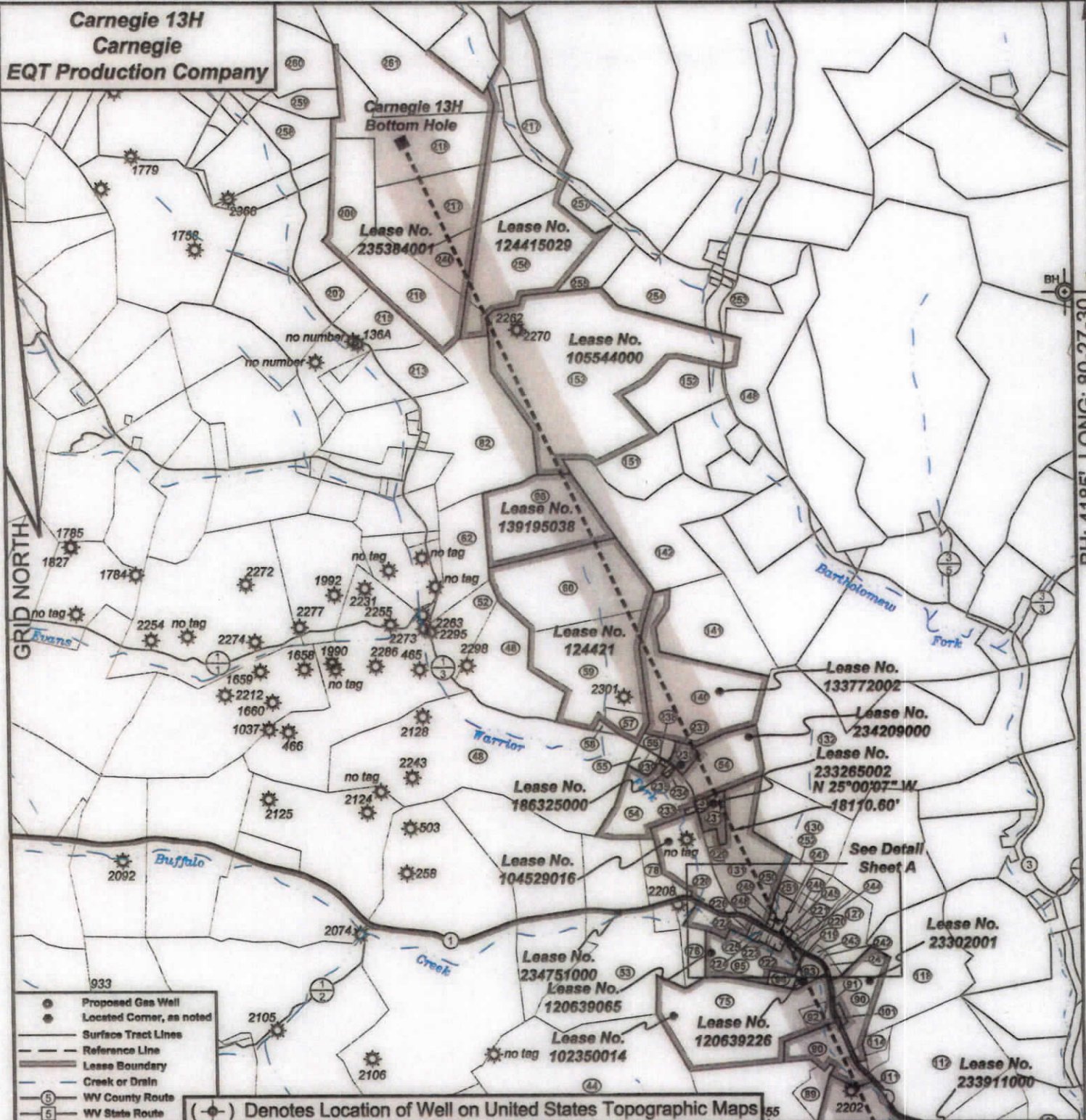
LOCATION: ELEVATION: As-Built: 1316' WATERSHED: Laurel Run of Owen Davy Fork QUADRANGLE: Glover Gap  
DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Jeanne A. Musgrave Akers & Joseph Forte ACREAGE: 20.66  
ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: 112106000 ACREAGE: 135

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7712'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
Canonsburg, PA 15317 Clarksburg, WV 25301

05/24/2024



BH: 4185' LONG: 80-27-30



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Ben R. Singleton*  
P.S. 2092



FILE NO: 92-21  
DRAWING NO: Carnegie 13H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: April 29 20 24  
OPERATOR'S WELL NO.: Carnegie 13H  
API WELL NO  
47 - 049 - 02526  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built: 1318' WATERSHED Laurel Run of Owen Davy Fork QUADRANGLE: Glover Gap  
DISTRICT: Mannington COUNTY: Marion

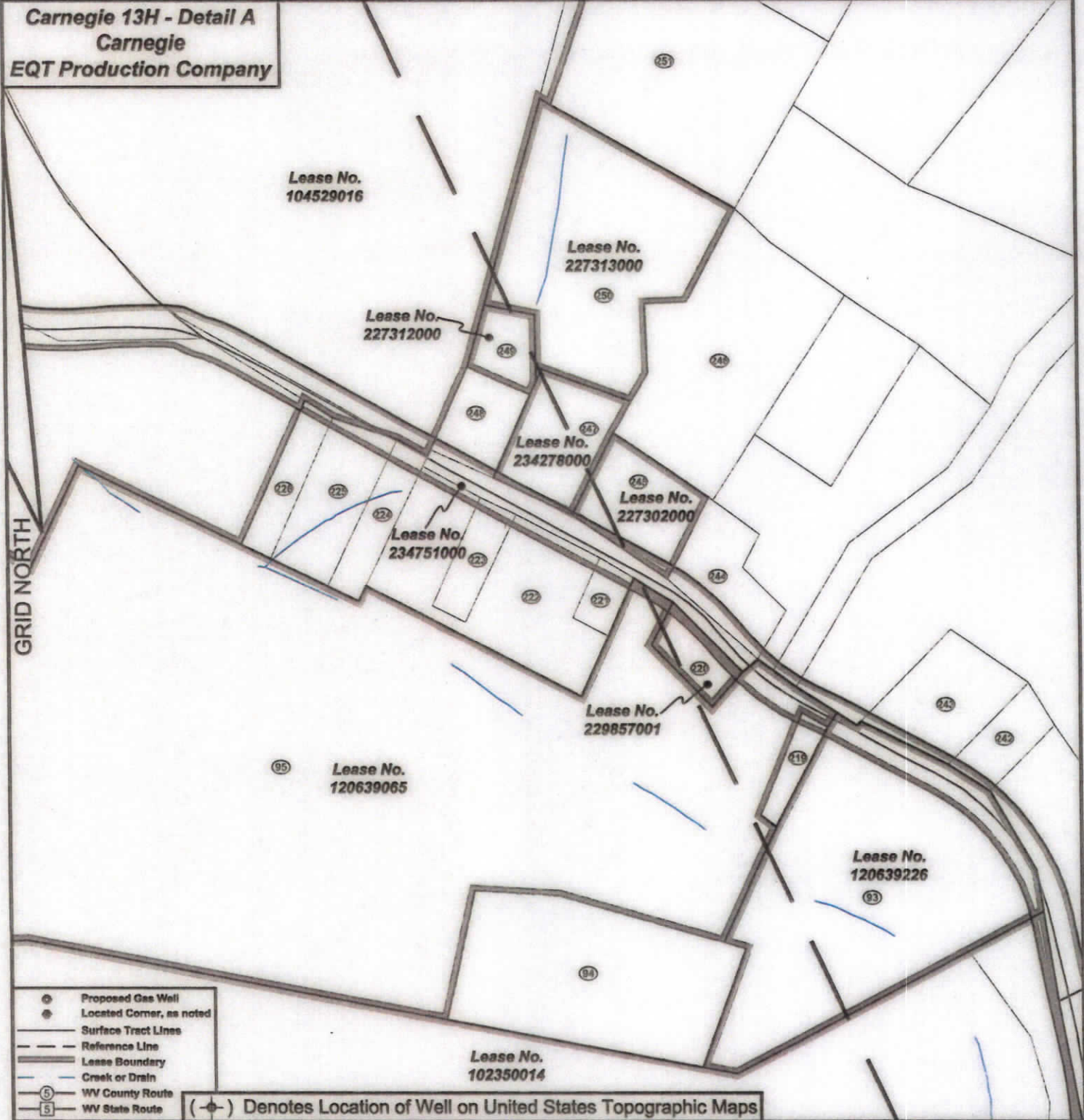
SURFACE OWNER: Jeanne A. Musgrave Akers & Joseph Forte ACREAGE: 20.65  
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 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7712'

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Canonsburg, PA 15317 Clarksburg, WV 25301

05/24/2024

**Carnegie 13H - Detail A**  
**Carnegie**  
**EQT Production Company**



- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

(⊕) Denotes Location of Well on United States Topographic Maps



*I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.*

*Ben R. Singleton*  
 P.S. 2092



SEAL

FILE NO: 92-21  
 DRAWING NO: Carnegie 13H  
 SCALE: 1" = 200'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: April 29 20 24  
 OPERATOR'S WELL NO.: Carnegie 13H  
 API WELL NO  
 47 - 049 - 02526  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built: 1318' WATERSHED Laurel Run of Owen Davy Fork QUADRANGLE: Glover Gap  
 DISTRICT: Mannington COUNTY: Marion  
 SURFACE OWNER: Jeanne A. Musgrave Akers & Joseph Forte ACREAGE: 20.66  
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 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7712'

05/24/2024

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
Canonsburg, PA 15317 Clarksburg, WV 25301

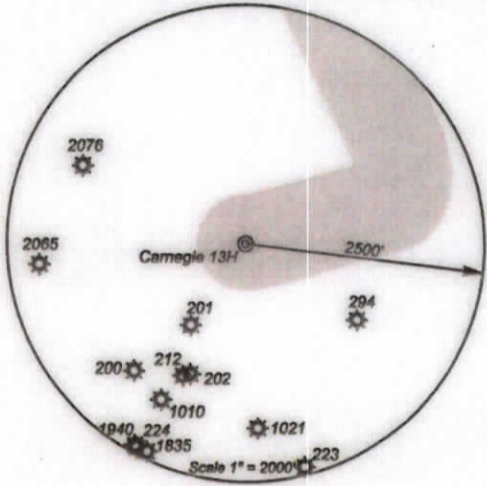
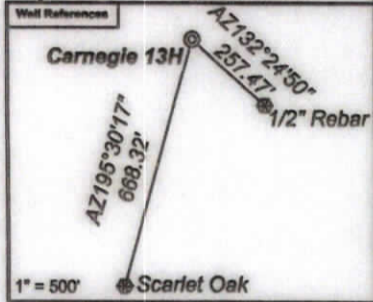


**Carnegie 13H  
Carnegie  
EQT Production Company**

| Lease No. | Owner                                                                                              | Acres      |
|-----------|----------------------------------------------------------------------------------------------------|------------|
| 112106000 | Bounty Minerals, LLC, et al.                                                                       | 135        |
| 118966001 | Judith Ann Myers, et al.                                                                           | 36         |
| 118281004 | Sarahbeth Lamm, et al.                                                                             | 123        |
| 233911000 | CNX Gas Company LLC                                                                                | 61.75      |
| 235141001 | Alan Sturm Cunningham, et al.                                                                      | 42.28125   |
| 223302001 | Lee and Hall Royalties, et al.                                                                     | 29.78      |
| 102350014 | Karen S. Phillips Trust, et al.                                                                    | 55         |
| 120639226 | CNX Gas Company LLC                                                                                | 2.59       |
| 120639085 | H3, LLC                                                                                            | 17.1548301 |
| 229857001 | David L. Evans and Debra S. Gump, et al.                                                           | 0.18       |
| 234751000 | West Virginia Department of Transportation, Division of Highways                                   | 46.86      |
| 227302000 | Estate of Sonnie D. Holt Price                                                                     | 0.50       |
| 234278000 | CNX Gas Company LLC                                                                                | 0.61       |
| 227313000 | Estate of Sonnie D. Holt Price                                                                     | 1.93       |
| 227312000 | Estate of Sonnie D. Holt Price                                                                     | 0.22       |
| 104529016 | Klatler Family Trust dated September 25, 2013, et al.                                              | 66.77      |
| 233265002 | Diana Sue Taylor, et al.                                                                           | 8.89       |
| 234209000 | CNX Gas Company LLC                                                                                | 41.05      |
| 186325000 | Linda Abruzzino and Michael R. Abruzzino                                                           | 2.8        |
| 133772002 | Most Worshipful Grand Lodge of the Ancient Free and Accepted Masons of West Virginia, Inc., et al. | 43.58      |
| 124421    | CNX Gas Company LLC                                                                                | 99.11      |
| 139195038 | Josephina F. Jordan, et al.                                                                        | 40         |
| 105544000 | Ridgetop ELEVEN LLC                                                                                | 128.75     |
| 124415029 | Family Tree Corporation, et al.                                                                    | 316.6      |
| 235384001 | Country Roads Minerals, LLC, et al.                                                                | 557.26     |

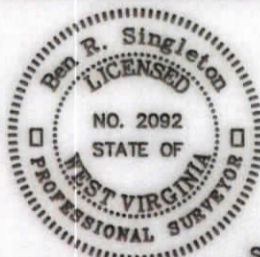
**Notes:**  
 Carnegie 13H coordinates are  
 NAD 27 N: 374,293.67 E: 1,735,843.68  
 NAD 27 Lat: 39.523876 Long: -80.439442  
 NAD 83 UTM N: 4,375,075.31 E: 548,453.98  
 Carnegie 13H Landing Point coordinates are  
 NAD 27 N: 375,417.03 E: 1,737,399.36  
 NAD 27 Lat: 39.527004 Long: -80.430969  
 NAD 83 UTM N: 4,375,425.46 E: 548,922.24  
 Carnegie 13H Bottom Hole coordinates are  
 NAD 27 N: 391,830.54 E: 1,729,744.89  
 NAD 27 Lat: 39.571844 Long: -80.458724  
 NAD 83 UTM N: 4,380,387.18 E: 546,506.95  
 West Virginia Coordinate system of 1927 (North Zone)  
 based upon Differential GPS Measurements.  
 Plat orientation, corner and well ties are based upon  
 the grid north meridian.  
 Well location references are based upon the grid north  
 meridian.  
 UTM coordinates are NAD83, Zone 17, Meters.

- Carnegie**
- ⊙ Carnegie 19H
  - ⊙ Carnegie 17H
  - ⊙ Carnegie 15H
  - ⊙ Carnegie 13H
  - ⊙ Carnegie 11H
  - ⊙ Carnegie 9H
  - ⊙ Carnegie 7H
  - ⊙ Carnegie 5H
  - ⊙ Carnegie 3H
  - ⊙ Carnegie 1H



*I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.*

*Ben R. Singleton*  
 P.S. 2092



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 DISTRICT: Mannington COUNTY: Marion  
 SURFACE OWNER: Jeanne A. Musgrave Akers & Joseph Forte ACREAGE: 26.96  
 ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: 112106000 ACREAGE: 135  
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 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
Canonsburg, PA 15317 Clarksburg, WV 25301

05/24/2024

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or<br>Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------------|-----------------------|-----------------------|---------|-----------|
|-------------------------|-----------------------|-----------------------|---------|-----------|

See Attached

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Office of Oil and Gas  
MAY 02 2024  
WV Department of  
Environmental Protection

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company  
 By: John Zavatchan  
 Its: Project Specialist - Permitting

| Lease No.        | Grantor, Lessor, etc.                                                                                                                                                                                                                                              | Acres       | Grantee, Lessee, etc.                                                                                                                                                                  | Royalty                                | Book/Page                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------|
| <u>112106000</u> | <b><u>Bounty Minerals, LLC, et al.</u></b><br>Guy F. Musgrave, single, et al.<br>Pittsburgh and West Virginia Gas Company<br>Pittsburgh and West Virginia Gas Company<br>Equitable Gas Company<br>Equitrans, Inc.<br>Equitable Gas Company, LLC<br>Equitrans, L.P. | 135 ac      | Pittsburgh and West Virginia Gas Company<br>Equitable Gas Company<br>Equitable Gas Company<br>Equitrans, Inc.<br>Equitable Gas Company, LLC<br>Equitrans, LP<br>EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 465/312<br>DB 510/487<br>DB 511/539<br>AB 12/279<br>DB 1148/296<br>AB 46/660<br>DB 1114/130 |
| <u>116966001</u> | <b><u>Judith Ann Myers, et al.</u></b><br>Marshall Cutright and Betty Cutright, husband and wife, and<br>Dick Cartright, single<br>Equitable Gas Company<br>Equitrans, Inc.<br>Equitable Gas Company, LLC<br>Equitrans, L.P.                                       | 36 ac       | Equitable Gas Company<br>Equitrans, Inc.<br>Equitable Gas Company, LLC<br>Equitrans, LP<br>EQT Production Company                                                                      | "at least 1/8th per WV Code<br>22-6-8" | DB 724/970<br>AB 12/279<br>DB 1148/296<br>AB 46/660<br>DB 1114/130                             |
| <u>116261004</u> | <b><u>Sarabeth Lamm, et al.</u></b><br>Sarabeth Lamm, single<br>Republic Energy Ventures, LLC                                                                                                                                                                      | 123 ac      | Republic Energy Ventures, LLC<br>EQT Production Company                                                                                                                                | "at least 1/8th per WV Code<br>22-6-8" | DB 1203/1160<br>AB 52/744                                                                      |
| <u>233911000</u> | <b><u>CNX Gas Company LLC</u></b><br>CNX Gas Company LLC                                                                                                                                                                                                           | 61.75 ac    | EQT Production Company                                                                                                                                                                 | "at least 1/8th per WV Code<br>22-6-8" | DB 1332/1059                                                                                   |
| <u>235141001</u> | <b><u>Alan Sturm Cunningham, et al.</u></b><br>Alan Sturm Cunningham and Diana L. Cunningham,<br>husband and wife                                                                                                                                                  | 42.28125 ac | EQT Production Company                                                                                                                                                                 | "at least 1/8th per WV Code<br>22-6-8" | DB 1338/931                                                                                    |

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Environmental Protection

MAY 02 2024

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Office of Oil and Gas



|                  |                                                                                                                                                                                                                   |               |                        |                                        |              |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|----------------------------------------|--------------|
| <u>223302001</u> | <u>Lee and Hall Royalties, et al.</u><br>Lee and Hall Royalties, a Partnership, by Melanie J. Adams,<br>Agent                                                                                                     | 29.78 ac      | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1310/1089 |
| <u>102350014</u> | <u>Karen S. Phillips Trust, et al.</u><br>Karen S. Phillips Trust, by David K. Phillips as Trustee                                                                                                                | 55 ac         | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1308/63   |
| <u>120639226</u> | <u>CNX Gas Company LLC</u><br>CNX Gas Company LLC                                                                                                                                                                 | 2.59 ac       | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1332/1083 |
| <u>120639065</u> | <u>H3, LLC</u><br>H3, LLC                                                                                                                                                                                         | 17.1548301 ac | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1240/443  |
| <u>229857001</u> | <u>David L. Evans and Debra S. Gump, et al.</u><br><br>David L. Evans, a single man and Debra S. Gump, a single<br>woman, as joint tenants with the right of survivorship                                         | 0.18 ac       | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1323/138  |
| <u>234751000</u> | <u>West Virginia Department of Transportation, Division of<br/>Highways</u><br>West Virginia Department of Transportation, Division of<br>Highways                                                                | 46.86 ac      | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1336/524  |
| <u>227302000</u> | <u>Estate of Sonnie D. Holt Price</u><br><br>Estate of Sonnie D. Price, Deborah A. Price as Personal<br>Representative, and Trust Agreement of Sonnie D. Price<br>dated May 12, 2005, Deborah A. Price as Trustee | 0.50 ac       | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1318/887  |
| <u>234278000</u> | <u>CNX Gas Company LLC</u><br>CNX Gas Company LLC                                                                                                                                                                 | 0.61 ac       | EQT Production Company | "at least 1/8th per WV Code<br>22-6-8" | DB 1332/1089 |

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 MAY 02 2024

|                  |                                                                                                                                                                                                                                                                         |          |                                                        |                                     |                          |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------|-------------------------------------|--------------------------|
| <u>227313000</u> | <b><u>Estate of Sonnie D. Holt Price</u></b><br>Estate of Sonnie D. Price, Deborah A. Price as Personal Representative, and Trust Agreement of Sonnie D. Price dated May 12, 2005, Deborah A. Price as Trustee                                                          | 1.93 ac  | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1318/884              |
| <u>227312000</u> | <b><u>Estate of Sonnie D. Holt Price</u></b><br>Estate of Sonnie D. Price, Deborah A. Price as Personal Representative, and Trust Agreement of Sonnie D. Price dated May 12, 2005, Deborah A. Price as Trustee                                                          | 0.22 ac  | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1318/890              |
| <u>104529016</u> | <b><u>Kistler Family Trust dated September 25, 2013, et al.</u></b><br>John J.A. Kistler and Ruth Kistler aka Ruth E. Kistler, husband and wife                                                                                                                         | 56.77 ac | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1233/1043             |
| <u>233265002</u> | <b><u>Diana Sue Tyler, et al.</u></b><br>Diana Sue Tyler, married, dealing in her sole and separate property                                                                                                                                                            | 8.69 ac  | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1329/780              |
| <u>234209000</u> | <b><u>CNX Gas Company LLC</u></b><br>CNX Gas Company LLC                                                                                                                                                                                                                | 41.05 ac | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1333/7                |
| <u>186325000</u> | <b><u>Linda Abruzzino and Michael R. Abruzzino</u></b><br>Michael R. Abruzzino and Linda K. Abruzzino                                                                                                                                                                   | 2.8 ac   | EQT Production Company                                 | "at least 1/8th per WV Code 22-6-8" | DB 1293/736              |
| <u>133772002</u> | <b><u>Most Worshipful Grand Lodge of the Ancient Free and Accepted Masons of West Virginia, Inc., et al.</u></b><br>Board of Trustees of the Most Worshipful Grand Lodge of the Ancient Free and Accepted Masons of West Virginia, Inc.<br>Antero Resources Corporation | 43.56 ac | Antero Resources Corporation<br>EQT Production Company | "at least 1/8th per WV Code 22-6-8" | DB 1219/224<br>AB 56/332 |

WV Department of  
 Environmental Protection  
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 Office of Oil and Gas

|                  |                                                                                                      |           |                                                                                                   |                                        |                                          |
|------------------|------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
| <u>124421</u>    | <b><u>CNX Gas Company LLC</u></b>                                                                    |           |                                                                                                   | "at least 1/8th per WV Code<br>22-6-8" |                                          |
|                  | CNX Gas Company LLC                                                                                  | 99.11 ac  | EQT Production Company                                                                            |                                        | Letter Agreement dated April<br>18, 2024 |
| <u>139195038</u> | <b><u>Josephine F. Jordan, et al.</u></b>                                                            |           |                                                                                                   | "at least 1/8th per WV Code<br>22-6-8" |                                          |
|                  | Josephine F. Jordan, a widow and not remarried                                                       | 40 ac     | EQT Production Company                                                                            |                                        | DB 1328/1020                             |
| <u>105544000</u> | <b><u>Ridgetop ELEVEN LLC</u></b>                                                                    |           |                                                                                                   | "at least 1/8th per WV Code<br>22-6-8" |                                          |
|                  | Dominion Exploration & Production, Inc.                                                              | 128.75 ac | Dominion Appalachian Development, LLC                                                             |                                        | DB 1042/28                               |
|                  | Dominion Appalachian Development, LLC, et al.                                                        |           | Antero Resources Corporation<br>American Shale Development, Inc.<br>Republic Energy Ventures, LLC |                                        | AB 34/12                                 |
|                  | Antero Resources Corporation<br>Republic Energy Ventures, LLC<br>Republic Partners VIII, LLC, et al. |           | EQT Production Company                                                                            |                                        | DB 1127/687                              |
|                  | American Shale Development, Inc., et al.                                                             |           | EQT Production Company                                                                            |                                        | AB 51/525<br>DB 1228/1                   |
| <u>124415029</u> | <b><u>Family Tree Corporation, et al.</u></b>                                                        |           |                                                                                                   | "at least 1/8th per WV Code<br>22-6-8" |                                          |
|                  | Joe Campbell, widower                                                                                | 316.6 ac  | American Shale Development, Inc.<br>Republic Energy Ventures, LLC                                 |                                        | DB 1116/241                              |
|                  | Republic Energy Ventures, LLC<br>Republic Partners VIII, LLC, et al.                                 |           | EQT Production Company                                                                            |                                        | AB 51/525                                |
|                  | American Shale Development, Inc., et al.                                                             |           | EQT Production Company                                                                            |                                        | DB 1228/1                                |
| <u>235384001</u> | <b><u>Country Roads Minerals, LLC, et al.</u></b>                                                    |           |                                                                                                   | "at least 1/8th per WV Code<br>22-6-8" |                                          |
|                  | Country Roads Minerals, LLC                                                                          | 557.26 ac | EQT Production Company                                                                            |                                        | DB 1340/645                              |

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 WV Department of  
 Environmental Protection



May 1, 2024

Mr. Taylor Brewer  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Carnegie 13H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan'.

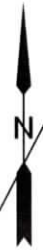
John Zavatchan  
Project Specialist - Permitting

Enc.

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MAY 02 2024  
WV Department of  
Environmental Protection

05/24/2024

**Carnegie 13H**  
**EQT Production Company**  
 "Detail of Lease No. 224157000"



Lease No.  
120639065

Lease No.  
224157000

Proposed Well Bore

13.16'

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 Office of Oil and Gas  
 MAY 02 2024  
 WV Department of  
 Environmental Protection

Lease No.  
120639226



Scale: 1 Inch = 10 Feet



Birch River Office  
 Phone: (304) 649-8606  
 Fax: (304) 649-8608

237 Birch River Road  
 Birch River, WV 26610  
 www.allegheynsurveys.com

|                 |                                                |
|-----------------|------------------------------------------------|
| PARTY CHIEF: NA | DRAWING NO: 13H Adendum<br>Lease 224157000.dwg |
| RESEARCH: NA    | PROJECT NO: 92-18-M-21                         |
| SURVEYED: NA    | PREPARED: April 05, 2024                       |
| FIELD CREW: NA  | DRAWN BY: Tim Rutledge                         |

**Carnegie 13H**  
**EQT Production Company**  
 "Detail of Lease No. 228725000"



Lease No.  
234751000

Lease No.  
228725000

19.08'

Proposed Well Bore



Scale: 1 Inch = 10 Feet

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Lease No.  
120639065

Birch River Office  
 Phone: (304) 649-8606  
 Fax: (304) 649-8608



237 Birch River Road  
 Birch River, WV 26610  
 www.alleghenysurveys.com

|                 |                                                |
|-----------------|------------------------------------------------|
| PARTY CHIEF: NA | DRAWING NO: 13H Adendum<br>Lease 228725000.dwg |
| RESEARCH: NA    | PROJECT NO: 92-18-M-21                         |
| SURVEYED: NA    | PREPARED: April 05, 2024                       |
| FIELD CREW: NA  | DRAWN BY: Tim Rutledge                         |

Sheet 1 of 1

**Carnegie 13H**  
**EQT Production Company**  
 "Detail of Lease No. 234227000"

Lease No.  
 227313000

Lease No.  
 227312000

Lease No.  
 234227000

27.65'

Proposed Well Bore

Lease No.  
 234278000

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Scale: 1 Inch = 10 Feet



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237 Birch River Road  
 Birch River, WV 26610  
 www.alleghenysurveys.com

|                 |                                                |
|-----------------|------------------------------------------------|
| PARTY CHIEF: NA | DRAWING NO: 13H Adendum<br>Lease 234227000.dwg |
| RESEARCH: NA    | PROJECT NO: 92-18-M-21                         |
| SURVEYED: NA    | PREPARED: April 29, 2024                       |
| FIELD CREW: NA  | DRAWN BY: Tim Rutledge                         |

**Carnegie 13H**  
**EQT Production Company**  
 "Detail of Lease No. 120639198"

Lease No.  
227302000

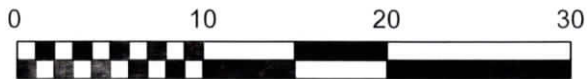
Lease No.  
120639198

Lease No.  
234751000

37.12'

Lease No.  
228725000

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Scale: 1 Inch = 10 Feet

Proposed Well Bore

Lease No.  
120639065

Lease No.  
229857001



Birch River Office  
 Phone: (304) 649-8606  
 Fax: (304) 649-8608

237 Birch River Road  
 Birch River, WV 26610  
 www.alleghenysurveys.com



PARTY CHIEF: NA

DRAWING NO: 13H Adendum  
 Lease 120639198.dwg

RESEARCH: NA

PROJECT NO: 92-18-M-21

SURVEYED: NA

PREPARED: May 01, 2024

FIELD CREW: NA

Sheet 1 of 1

DRAWN BY: Tim Rutledge



| <u>Lease No.</u> | <u>Grantor, Lessor, etc.</u>                                                                              | <u>Acres</u> | <u>Grantee, Lessee, etc.</u> | <u>Royalty</u>                         | <u>Book/Page</u> |
|------------------|-----------------------------------------------------------------------------------------------------------|--------------|------------------------------|----------------------------------------|------------------|
| <u>224157000</u> | <u>Robert E. Martin and Ethel Jane Martin, et al.</u><br>Robert E. Martin and Ethel Jane Martin, his wife | 0.085 ac     | EQT Production Company       | "at least 1/8th per WV<br>Code 22-6-8" | DB 1310/1002     |
| <u>228725000</u> | <u>Carol L. Starkey</u><br>Carol L. Starkey, a widow                                                      | 0.125 ac     | EQT Production Company       | "at least 1/8th per WV<br>Code 22-6-8" | DB 1321/988      |
| <u>234227000</u> | <u>CNX Gas Company LLC</u><br>CNX Gas Company LLC                                                         | 0.3 ac       | EQT Production Company       | "at least 1/8th per WV<br>Code 22-6-8" | DB 1333/25       |
| <u>120639198</u> | <u>Timmy J. Chase, et al.</u><br>Timmy J. Chase                                                           | 63.50 ac     | EQT Production Company       | "at least 1/8th per WV<br>Code 22-6-8" | DB 1314/192      |

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April 18, 2024

Peter Binotto  
VP - Land Operations  
CNX Gas Company LLC  
CNX Center  
1000 Horizon Vue Drive  
Canonsburg, PA 15317

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**RE: Potential Transaction Drill Letter – Marshall, Marion and Wetzel County, WV**

Dear Mr. Binotto:

1. Per our discussions, EQT Production Company, a Pennsylvania corporation ("**EQT**"), and CNX Gas Company LLC, a Virginia limited liability company ("**CNX**") (CNX and EQT may be referred to individually as a "**Party**" and collectively as the "**Parties**"), are currently negotiating a potential Joint Operations Agreement ("JOA") or a Purchase and Sale Agreement ("PSA") of certain oil and gas leases or CNX fee acreage in Marshall, Marion and Wetzel Counties, West Virginia (the "**Potential Transaction**"), to facilitate EQT's drilling and development needs.

2. The Parties anticipate that in the Potential Transaction, CNX would elect to participate in a JOA or divest their interest in a PSA to EQT fee acreage and certain oil and gas leases. The specific properties and amounts of properties to be exchanged will be specified in a definitive written agreement containing terms and conditions mutually acceptable to the Parties in their respective sole and absolute discretion (a "**Definitive Agreement**").

3. The Parties anticipate that among the CNX oil and gas leases that may be included in the Potential Transaction are the oil and gas leases or portions thereof described on Exhibit A attached hereto, comprising approximately 133.798 Net Acres (the "**Drilling Leases**" and "**Fee Acreage**"). As used in this letter agreement, "**NRI Acres**" shall have the definition set forth on Schedule 1.

4. The Parties desire to accommodate EQT's drilling and development of certain EQT units during the pendency of discussions and negotiations on, and in advance of the execution of, a Definitive Agreement and the closing of the Potential Transaction. Therefore, CNX hereby grants to EQT and/or its designated affiliates the limited right to permit and, upon receipt of all necessary permits and government approvals, to drill through the subsurface in order to horizontally drill, complete and produce one (1) or more wellbore laterals ("**Wells**") through CNX's leasehold in order to access the Marcellus Formation of the lands covered by the Drilling Leases and Fee Acreage; **provided, however**, that CNX hereby expressly withholds to itself and its successors and assigns and does not grant to EQT (a) the right to drill in or through any area or formation covered by the Drilling Leases and Fee Acreage other than the Marcellus Formation, except to drill through the subsurface where necessary to access the Marcellus Formation or (b) the right to access the surface of or to conduct surface operations on the lands covered by

the Drilling Leases and Fee Acreage. As used in this letter agreement, "**Marcellus Formation**" shall have the definition set forth on Schedule 1.

5. EQT hereby agrees to indemnify, defend and hold harmless CNX and its affiliates, parents, subsidiaries or related companies (the "**Indemnified Parties**") for, from and against any and all Claims (as defined below) sustained by the Indemnified Parties resulting from or in connection with EQT's and/or its designated affiliates' activities with respect to the Drilling Leases, including, without limitation, the drilling of the Wells and EQT's development and operation of the Drilling Leases, that arise on or after the date of this letter agreement. "**Claims**" shall mean any and all losses, suits, proceedings, actions, causes of action, in law or at equity, demands, penalties, fines, fees, charges, assessments, liabilities (including environmental liabilities), damages (including environmental and natural resources damages), claims, judgments, executions, costs and expenses of any kind (including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket fees and disbursements), fines, taxes, and interest, whether existing or incurred or asserted in the future, in connection with (a) any such claim or the defense thereof, (b) amounts paid in settlement, orders, liens, or decrees, or (c) any injury or damage of any kind and nature to persons (including sickness, illness, and death), mines, wells, or property claims or to the Drilling Lease, or natural resources, and with respect to any of the foregoing, whether sustained or brought by or against CNX or any third party. Notwithstanding any of the foregoing, in the event that any Claims arise from the joint or concurrent negligence of EQT and CNX, the loss shall be borne by EQT and CNX proportionately to their degree of negligence, and EQT shall have no obligation to indemnify CNX against CNX's negligence or willful misconduct. The indemnity obligation set forth in this section shall survive any execution of a Definitive Agreement or assignment of the Drilling Leases and be in addition to any indemnity provided for in a Definitive Agreement or any assignment of the Drilling Leases.

6. In the event that the Parties execute a Definitive Agreement on or before April 30, 2024 (the "**Execution Deadline**"), the Drilling Leases, limited to the Marcellus Formation, shall be included in a JOA or assignment at the closing of the Potential Transaction in accordance with the terms and conditions set forth in the Definitive Agreement, provided, however, that even if a Definitive Agreement is executed, the Drilling Leases and Fee Acreage shall be conveyed on an "as is, where is" basis and without representations or warranties of any kind whatsoever other than those expressly set forth in the applicable JOA or Assignment, and CNX hereby expressly disclaims any and all other representations and warranties with respect to the Drilling Leases and Fee Acreage. The foregoing provision shall survive the execution of a Definitive Agreement or Assignment of the Drilling Leases and Fee Acreage. The Parties may extend the Execution Deadline by mutual written agreement in order to continue to pursue the Potential Transaction discussions while reasonably accommodating each Party's ongoing development needs.

7. In the event that the Parties do not execute a Definitive Agreement on or before the Execution Deadline or in the event that a Definitive Agreement is executed but the Potential Transaction does not close, then CNX shall promptly assign and transfer to EQT the Drilling Leases and Fee Acreage limited to the Marcellus Formation pursuant to an assignment of lease in the form attached as **Exhibit B** hereto (an "**Assignment**"). Then EQT shall pay to CNX the sum of twelve thousand dollars (\$12,000.00) per **NRI** Acre of the Drilling Leases assigned pursuant to this letter agreement. In the event that either Party executes an Assignment pursuant to this letter agreement and the Assignment includes a term, as set forth on Exhibit B, the amount of the payment to extend the Primary Term of the Assignment,

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which payment is referenced in Section I(a) of the Assignment, shall be five thousand dollars (\$5,000.00) per net mineral acre of the Leases (as defined in the Assignment) for which an Assignment is so extended.

8. The Drilling Leases ( "**Properties**" ) to be assigned or leased pursuant to the terms of this letter agreement, rather than pursuant to a Definitive Agreement, shall be assigned and/or granted, as the case may be, free and clear of (a) all gathering or midstream dedications or commitments, and (b) all other senior mortgages, liens and encumbrances for which pre-closing waivers, releases or subordinations are customarily sought in transactions similar to the Potential Transaction, but otherwise, any assignment or lease of Properties pursuant to this letter agreement shall be on an "as is, where is" basis and without representations or warranties of any kind whatsoever other than those expressly set forth in a Definitive Agreement and the Assignment(s) and Lease(s) applicable thereto, and the Party assigning or leasing the applicable Properties hereby expressly disclaims any and all other representations and warranties with respect to such Properties.

9. Upon the assignment or lease of any Property pursuant to the terms of this letter agreement, the assigning or leasing Party shall make available to the other Party, electronically on a digital file-sharing service, electronic copies of its lease and payment files pertaining to each Property (the "**Records**").

10. Nothing in this letter agreement shall require the Parties to consummate a Potential Transaction, it being understood that any such Potential Transaction is subject to negotiation of a Definitive Agreement and approval by the Parties' respective senior management and boards of directors, as applicable, each in their sole and absolute discretion; **provided, however**, that in the absence of a Definitive Agreement, the Parties' respective obligations under **Sections 4 through 11** hereof shall be fully enforceable.

11. Except as otherwise provided herein, this letter agreement and the rights and obligations of the Parties hereunder shall terminate if and when the Parties execute and deliver a Definitive Agreement and close the Potential Transaction thereunder. This letter agreement shall be governed by Pennsylvania law excluding any choice-of-law rules which would refer the matter to the laws of another jurisdiction. This letter agreement may be executed in any number of counterparts, each of which shall be considered an original for all purposes, and all of which, when taken together, shall constitute one and the same instrument, provided that this letter agreement but shall not be binding on any Party until fully executed by all Parties.

[Signature page follows]

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If the above meets your approval, please execute in the space provided below and return one signed copy to my attention. Should you have any questions, please contact Greg Godbey at (724)802-2353.

Sincerely,

**EQT Production Company**

DocuSigned by:



B89B4A94E0C646A  
Corey C. Peck  
Vice President of  
Land

OS  
66 OS  
ME

Acknowledged, accepted, and agreed to on April 18, 2024.

**CNX Gas Company LLC**

DocuSigned by:



73E3841E060D481

Name: Peter Binotto

Title: Vice President – Land Operations

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**Schedule 1**

**Definitions**

**"Marcellus Formation"** means those depths and formations from 500' above the top of the Tully Limestone formation to 200' below the top of the Onondaga Limestone formation. For purposes of this Agreement, the top of the Tully Limestone formation is defined as the correlative stratigraphic equivalent to that point found at 7,398' measured depth as seen in the J. Burley #1 Well (API 47-051-00539) located in Marshall County, West Virginia (the **"J. Burley #1 Well"**), and the top of the Onondaga Limestone formation is defined as the correlative stratigraphic equivalent to that point found at 7,577' measured depth as seen in the J. Burley #1 Well.

**"Net Revenue Interest"** means, with respect to the Marcellus Formation of each Property, the interest in and to all oil, gas, and other hydrocarbons produced from or attributable to the Marcellus Formation of such Property after giving effect to all royalty (including lessor's royalties), overriding royalties, production payments and other burdens upon, measured by or payable out of production therefrom.

**"Net Working Interest Acreage"** means, computed separately with respect to each Property and with respect to the Marcellus Formation, (i) the number of gross mineral acres in the lands included in or encumbered by such Property, multiplied by (ii) the percent interest of oil, gas and associated hydrocarbons in such Property owned by the lessor upon its execution, multiplied by (iii) the assigning Party's Working Interest in the Property as to the Marcellus Formation; provided that if the Working Interest varies as to different areas within any tracts or parcels burdened by such Property, a separate calculation shall be done for each area.

**"NRI Acres"** means, as computed separately with respect to each Property, the (i) Net Working Interest Acreage, multiplied by (ii) the Party's Net Revenue Interest.

**"Working Interest"** means with respect to any Property, the interest in and to such Property that is burdened with the obligation to bear and pay costs and expenses of maintenance, development and operations on or in connection with such Property (but taking into account any depth restrictions applicable to such Property), but without regard to the effect of any royalties, overriding royalties, production payments, net profits interests and other similar burdens upon, measured by or payable out of production therefrom.

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**EXHIBIT A**

to Letter Agreement by and between EQT Production Company and CNX Gas Company LLC Leases

| Property Type | Agreement No. | Original Grantor        | Original Grantee           | Effective Date | Agreement Gross Acres | Conveyed Gross | Conveyed Net | BK/PG Instrument No. | District   | County | State         | Requested Tax Parcel ID              |
|---------------|---------------|-------------------------|----------------------------|----------------|-----------------------|----------------|--------------|----------------------|------------|--------|---------------|--------------------------------------|
| Deed          | 289596001     | ELIZABETH ANN THORN     | CONSOLIDATION COAL COMPANY | 06-26-2007     | 6.22                  | 4.1750         | 0.868        | 1026/541             | Mannington | Marion | WEST VIRGINIA | 12-49-12.1                           |
| Deed          | 289596002     | MARY LOU THORNE JONES   | CONSOLIDATION COAL COMPANY | 06-26-2007     | 6.22                  | 4.1750         | 0.868        | 1026/532             | Mannington | Marion | WEST VIRGINIA | 12-49-12.1                           |
| Deed          | 289596003     | PERRY R THORNE SR ET AL | CONSOLIDATION COAL COMPANY | 06-19-2007     | 6.22                  | 4.1750         | 1.736        | 1025/622             | Mannington | Marion | WEST VIRGINIA | 12-49-12.1                           |
| Deed          | 289662001     | JEFFREY HOOVER MICHAEL  | CONSOLIDATION COAL COMPANY | 07-16-2012     | 4.175                 | 4.1750         | 0.697        | 1117/89              | Mannington | Marion | WEST VIRGINIA | 12-49-12.1                           |
| Deed          | 112785000     | ALYCE R DEVORE          | CONSOLIDATED GAS SUPPLY CO | 2/28/1975      | 100.000               | 100.0000       | 100.000      | 858/744              | Mannington | Marion | WEST VIRGINIA | 12-44-21,<br>12-44-22,<br>12-44-22.2 |
| Deed          | 289766000     | EUGENE C SERAFINO ET UX | CONSOLIDATION COAL COMPANY | 12-08-2011     | 40.000                | 40.0000        | 29.62963     | 1101/787             | Mannington | Marion | WEST VIRGINIA | 12-44-20                             |

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**EXHIBIT B**

**To Letter Agreement by and between  
EQT Production Company and CNX Gas Company LLC**

**FORM OF ASSIGNMENT**

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**ASSIGNMENT OF OIL AND GAS LEASES**

This **ASSIGNMENT OF OIL AND GAS LEASES** (this "**Assignment**"), is made on \_\_\_\_\_, \_\_\_\_\_ (the "**Effective Date**"), by and between [Assignor Entity], a [Assignor Entity type], whose address is [Assignor address] ("**Assignor**"), and [Assignee Entity], a [Assignee Entity type], whose address is [Assignee address] ("**Assignee**"). Assignor and Assignee are sometimes referred to together herein as the "**Parties**", and individually as a "**Party**". All references in this Assignment to "Assignor," "Assignee," "Party," or "Parties" shall be deemed at all times to include each and every successor, assign, affiliate, subsidiary, or internal partner taking by, through, or under any of the above-named entities.

**WHEREAS**, Assignor is the lessee or successor lessee of record of oil and gas rights, and title and interest in, to, and under those oil and gas lease(s) as the same may have been previously or will in the future be modified, extended, or amended (the "**Lease**" or "**Leases**"), covering certain tracts of land (the "**Lands**") located in \_\_\_\_\_ County, \_\_\_\_\_, such Leases and Lands covered thereby being more particularly described on **Exhibit A** attached hereto and made a part hereof; and

**WHEREAS**, Assignor desires to assign certain rights under the Leases, as more particularly described herein;

**NOW, THEREFORE**, for and in consideration of TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby **GRANT, BARGAIN, ASSIGN, TRANSFER, AND CONVEY** unto Assignee the following "**Assigned Rights**":

- (a) all of Assignor's right, title and interest **in and to and only to** the Target Formation (defined below) under the portions of the Leases identified by tax map parcel



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number as "Conveyed Interests" on **Exhibit A**, but specifically excluding the Excluded Assets (defined below);

- (b) all rights of whatever kind or nature, including both implied and express rights granted under such Leases to the extent necessary or convenient for the ownership, exploration, drilling, development, and/or operation of the Target Formation, and management of Assignee's assigned rights under the Leases, including, without limitation, any pooling or unitization, any ability to shut-in a well(s), and the non-exclusive access rights to conduct seismic, geophysical, and other investigations, install pipelines, roadways, surface locations, water and/or power lines, impoundments, structures, tanks, gas gathering and/or metering facilities, and any other related facilities, but specifically excluding the Excluded Assets; and
- (c) any other rights, properties, or interests relating to, or necessary in connection with the ownership, development, and/or operation of the Target Formation, and management of Assignee's Assigned Rights, but specifically excluding the Excluded Assets.

For purposes of this Assignment, Target Formation means the geological formation commonly known as the [Marcellus Formation/Utica Formation], which is defined for purposes of this Assignment as [insert relevant definition from Trade Agreement based on Target Formation and location of Lease(s) being assigned].

This Assignment excludes, and Assignor hereby excepts and reserves to itself and its successors and assigns, the following: (i) all formations and depths outside of the Target Formation (the "**Retained Formations**"); (ii) all existing wells, well lines and associated facilities on the Leases (the "**Wells and Facilities**"); and (iii) all rights of whatever kind relating to, or necessary or convenient in connection with, the ownership and operation of the Retained Formations and Wells and Facilities, including drilling, development for oil and gas, production, maintenance, operation, repair, replacement, reworking, plugging, non-exclusive access rights and rights to install pipelines (the foregoing subsections (i), (ii), and (iii) being the "**Excluded Assets**").

This Assignment is further made subject to the following:

1. **PRIMARY TERM – SECONDARY TERM.** This Assignment shall continue in force for five (5) years from and after the Effective Date hereof (hereinafter, "**Primary Term**"), and so long thereafter as there is a well capable of producing in paying quantities from the Target Formation underlying said Leases and Lands or from land(s) pooled or unitized therewith, or as long as Operations (as defined below) are continuously prosecuted as provided below with respect to the Target Formation of the Leases and Lands or from land(s) pooled or unitized therewith, which extended term shall be referred to as the "**Secondary Term.**" As used in this Assignment, the term "**Operations**" includes the following activities: operations for the drilling of a new well, the reworking, deepening, or plugging back of a well, or any other operations conducted in an effort to obtain or reestablish production of oil and gas from the Target Formation of the Leases and Lands and/or other lands pooled or unitized therewith. Operations shall be deemed to have commenced when the first earthwork (not including any preparatory, incidental, or related work such as surveying or

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staking the location) is initiated for such Operations. Operations shall be considered to be "continuously prosecuted" if not more than one hundred eighty (180) days shall lapse between Operations; **provided, however**, that a well must be completed within one hundred eighty (180) days after expiration of the Primary Term and producing in paying quantities from the Target Formation within eighteen (18) months after the expiration of the Primary Term, and that such well will be situated within a recorded unit that will include some or all of the Leases and Lands.

- (a) **RIGHT TO EXTEND PRIMARY TERM.** Assignee may, at its option, extend the Primary Term before it expires for an additional five (5) years for any or all of the Leases by making to Assignor a payment in the amount specified in the Trade Agreement (defined below) per net mineral acre of the Leases for which the Assignment is so extended. The Primary Term shall be extended during the pendency of any lawsuit brought by any Lessor or Assignor seeking (i) an injunction preventing Assignee from exploring for, drilling, or producing oil and gas or (ii) a declaration that the Assignment or an underlying Lease is terminated, void, or voidable.
- (b) **REVERSIONARY RIGHTS AND RETAINED ACREAGE.** A well located on or Operations continuously prosecuted with respect to a pooled unit authorized by a Lease shall maintain this Assignment only as to those Leases and Lands or portions thereof included in any such unit. At the expiration of the Primary Term, this Assignment shall terminate as to all non-pooled Leases and Lands, or portions thereof, unless said non-pooled acreage is subject to Operations or payment of shut-in royalty payments in accordance with the terms of the respective Lease. Upon the expiration of the Primary Term, this Assignment, and all rights, titles, and interest assigned hereby, shall cease and terminate as to the Leases or portions thereof for which the Secondary Term has not taken effect, and such Leases or portions thereof shall be deemed to automatically revert to Assignor herein, **SAVE AND EXCEPT** only for any obligations, responsibilities, and/or liability of Assignee which are stipulated to survive termination.
2. **TRANSFER TAXES / RECORDING FEES.** Assignee agrees to pay any and all fees and taxes (including recording, real estate transfer, excise, and documentary) in connection with the filing and recording of this Assignment in the appropriate county records, and to thereafter promptly forward copies of the recorded Assignment to Assignor.
3. **SPECIAL WARRANTY OF TITLE.** Assignor specially warrants that the Leases are free and clear of encumbrances (except Permitted Encumbrances (as defined in the Trade Agreement)) caused or created by, through or under Assignor, and shall forever defend title to the Leases against lawful claims brought by any third party claiming by, through or under Assignor, but not otherwise.
4. **AMENDMENT OF LEASES.** While this Assignment remains in effect as to a Lease, Assignee shall have the right to ratify, amend or modify that Lease or particular terms thereof by agreement with the then-current lessor(s) under the Lease without further consent or permission of Assignor, and Assignor shall be bound by any such amendment or modification in the event that the Primary Term and, if applicable, Secondary term of this Assignment terminates with respect to such Lease; **provided, however**, that any such

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amendment or modification shall not impact or diminish the Assignor's interest in the Excluded Assets.

5. **INDEMNIFICATION.** The Parties hereby acknowledge and agree that under the Trade Agreement, but subject to the limitations and other provisions thereof, each Party may have certain indemnity obligations to the other Party with respect to their respective ownership or operation of the Leases.
6. **ASSIGNMENTS.** This Assignment and all of the conditions, covenants, and terms hereof shall extend to and bind the respective successors and assigns of Assignor and Assignee. The rights of either Party under this Assignment may be assigned in whole or in part and the provisions of this Assignment shall extend to and be binding upon their respective successors and assigns; **provided, however,** that Assignee shall notify Assignor in writing if Assignee assigns or transfers all or any portion of this Assignment and (i) such notification to Assignor shall be made within thirty (30) days after the effective date of any such transfer, (ii) all assignments and/or transfers shall specifically provide that the same are subject to the provisions of this Assignment, and (iii) Assignee shall provide Assignor with a copy of the assignment or other documentation evidencing the transfer with the notice described in subsection (i) above.
7. **THIRD-PARTY BENEFICIARIES.** Nothing contained herein is intended or shall be deemed to create or confer any rights upon any third person or entity not party hereto, whether as a third-party beneficiary or otherwise, except as expressly provided herein; nor shall anything contained herein be construed to create any partnership (tax or otherwise), agency, joint venture, or like relationship between Assignee and Assignor.
8. **HEADINGS.** All paragraph headings contained in this Assignment are for convenience only and shall not be considered in the interpretation of the terms or provisions hereof.
9. **COUNTERPARTS.** This Assignment may be executed in counterparts, each of which shall be deemed an original instrument, but all such counterparts together shall constitute but one agreement.
10. **SEVERABILITY.** It is the intent of the Parties that the provisions contained in this Assignment shall be severable. Should the whole or any portion of a provision be held void or invalid, as a matter of law, such holding shall not affect other portions thereof which can be given effect without the invalid or void portion.
11. **FURTHER ASSURANCES.** Assignor and Assignee shall execute and deliver all such other additional instruments, notices, releases, and/or other documents, and shall do such other acts and things, as may be necessary to assign to Assignee or its successors or assigns all of the respective rights, titles, and interests herein and hereby granted or intended to be granted and to comply with any of the provisions hereof.
12. **BINDING AGREEMENT.** This Assignment shall be binding upon, and shall inure to the benefit of, each of the Parties and each of their respective affiliates, representatives, successors, and/or permitted assigns.

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**TO HAVE AND TO HOLD** the Assigned Rights unto Assignee, its successors and assigns. The foregoing provisions shall be covenants running with the Leases and Lands covered hereby and shall inure to the benefit of and are binding upon each Party and each successor, assign, affiliate, subsidiary, or internal partner taking by, through, or under the Parties.

*[Signature/acknowledgment pages follow]*

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IN WITNESS WHEREOF, the Parties have caused this Assignment to be properly executed the day and year shown in the acknowledgments below, but effective for all purposes as of the Effective Date.

**ASSIGNOR:**

**[ASSIGNOR ENTITY]**

By: \_\_\_\_\_  
Name:  
Title:

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COMMONWEALTH OF PENNSYLVANIA :  
COUNTY OF \_\_\_\_\_ :

The foregoing instrument was acknowledged before me on \_\_\_\_\_,  
\_\_\_\_\_, by \_\_\_\_\_ as \_\_\_\_\_, who represents that he/she is  
authorized to act on behalf of \_\_\_\_\_.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public  
My commission expires: \_\_\_\_\_

**ASSIGNEE:**

**[ASSIGNEE ENTITY]**

By: \_\_\_\_\_

Name:

Title:

COMMONWEALTH OF PENNSYLVANIA :  
COUNTY OF \_\_\_\_\_ :

The foregoing instrument was acknowledged before me on \_\_\_\_\_,  
\_\_\_\_\_ by \_\_\_\_\_ as \_\_\_\_\_, who represents that he/she is  
authorized to act on behalf of \_\_\_\_\_.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

After recording, return to:

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**EXHIBIT C**

**To Letter Agreement by and between  
EQT Production Company and CNX Gas Company LLC**

**FORM OF NEW LEASE**

**NON-SURFACE USE OIL AND GAS LEASE**

This **NON-SURFACE USE OIL AND GAS LEASE** (this "**Lease**") is made and entered into as of \_\_\_\_\_, \_\_\_\_\_ (the "**Effective Date**"), by and between:

**Lessor:**

**Lessee:**

(each a "**Party**," and together, the "**Parties**").

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1. **Lease Grant.** Lessor, for and in consideration of the sum of Ten Dollars (\$10.00), the payment of the royalties and the performance of the additional covenants expressed herein, hereby **GRANTS, DEMISES, LEASES AND LETS** exclusively unto Lessee, subject to the conditions, exceptions, and reservations hereinafter stated, all right, title and interest of Lessor **to and only to** the Target Formation (as defined below) and the Oil and Gas Rights (as defined below) underlying or within those certain tracts or parcels of land situate in \_\_\_\_\_ County, \_\_\_\_\_, identified on **Exhibit A** hereto (the "**Leased Premises**").

2. For all purposes of this Lease, references to oil and gas or either or both of them shall mean oil, or gas, or both, and all substances which are constituents of or produced with oil or gas, whether similar or dissimilar or produced in a gaseous, liquid, or solid state, except that it shall not include coalbed methane.

a. "**Marcellus Formation**" means those depths and formations from 500' above the top of the Tully Limestone formation to 200' below the top of the Onondaga Limestone formation. For purposes of this Lease, the top of the Tully Limestone formation is defined as the correlative stratigraphic equivalent to that point found at 7,398' measured depth as seen in the J. Burley #1 Well (API 47-051-00539) located in Marshall County, West Virginia (the "**J. Burley #1 Well**"), and the top of the Onondaga Limestone formation is defined as the correlative stratigraphic equivalent to that point found at 7,577' measured depth as seen in the J. Burley #1 Well.

b. "**Target Formation**" means the [Marcellus Formation].

c. "**Oil and Gas Rights**": Lessor further grants Lessee, insofar as the same are owned or controlled by Lessor, any and all rights necessary or convenient to explore for, develop, produce,

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market and sell all oil, natural gas, natural gas liquids, condensate, casinghead gas and other liquefied or gaseous hydrocarbons or products ("**Hydrocarbons**") contained within the Target Formation, including, but not limited to, the sole and exclusive right and privilege of:

- i. Conducting geological, geophysical and other exploratory work necessary to develop and produce Hydrocarbons within the Target Formation;
- ii. Exploring, stimulating, investigating, prospecting and drilling (either horizontally, vertically or directionally) for Hydrocarbons within the Target Formation; and
- iii. Producing, operating, gathering, transporting, storing, compressing, processing, blending, treating, marketing and selling Hydrocarbons produced from the Target Formation.

3. **Term.**

a. **Primary Term.** This Lease shall remain in force for a term of five (5) years from the Effective Date (the "**Primary Term**"), and shall continue as long thereafter as:

- i. A well capable of producing in paying quantities from the Target Formation is located on the Leased Premises or lands pooled or unitized therewith; or
- ii. Operations (as defined below) are continuously prosecuted as provided below with respect to the Target Formation or land(s) pooled or unitized therewith.

b. **Right to Extend Primary Term.** Prior to the expiration of the Primary Term, Lessee may, at its option, extend the Primary Term for an additional five (5) years by paying to Lessor the sum of Five Thousand Dollars (\$5,000.00) per net mineral acre leased hereunder. The Primary Term shall be extended during the pendency of any lawsuit brought by Lessor seeking (i) an injunction preventing Lessee from exploring for, drilling, or producing oil and gas, or (ii) a declaration that the Lease is terminated, void, or voidable.

c. **Operations.** As used in this Lease, the term "**Operations**" includes the following activities: operations for the drilling of a new well, the reworking, deepening, plugging back of a well, or any other operations conducted in an effort to obtain or reestablish, production of oil and gas from the Target Formation and/or other lands pooled or unitized therewith. Operations shall be deemed to have commenced when the first earthwork (not including any preparatory, incidental or related work such as surveying or staking the location) is initiated for such Operations. Operations shall be considered to be "**continuously prosecuted**" if not more than one hundred eighty (180) days shall lapse between Operations; **provided, however**, that a well must be completed within one hundred eighty (180) days after expiration of the Primary Term and producing in paying quantities within eighteen (18) months after the expiration of the Primary Term, and that such well will be situated within a recorded unit that will include some or all of the Leased Premises.

d. **Partial Release Permitted.** Lessee may surrender this Lease in whole or in part at any time whatsoever. Lessee may at any time execute and deliver to Lessor or record a release covering all or any portion of the Leased Premises and thereby be relieved of all obligations thereafter to accrue as to the acreage surrendered.

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e. **Retained Rights / Excluded Rights.** It is mutually agreed between Lessee and Lessor that the following interests and rights are excluded from this Lease and are excepted and reserved to Lessor and its successors and assigns: (i) any and all existing oil and/or gas wells, well lines and associated facilities currently on the Leased Premises, together with any future wells drilled on the Leased Premises to produce formations other than the Target Formation (collectively, "**Wells and Facilities**"); (ii) all formations insofar and only insofar as said formations cover depths and formations other than the Target Formation (such depths and formations, the "**Retained Formations**"); and (iii) all rights of whatever kind relating to, or necessary or convenient in connection with, the ownership and operation of the Wells and Facilities and Retained Formations, including drilling, development for oil and gas, production, maintenance, operation, repair, replacement, reworking, plugging, and non-exclusive access rights and rights to install pipelines. This Lease shall specifically include the right to penetrate and drill through, but not stimulate or perforate, Hydrocarbon formations that are shallower than the Target Formation in order to drill and produce the Target Formation, provided that all Hydrocarbons produced by Lessee from Retained Formations shall be turned over to Lessor or as a cash equivalent calculated according to **Section 4** hereof. Further, any producing Retained Formations that are producing as a result of Lessee's Operations shall be cased and cemented at Lessee's sole expense.

4. **Rental and Royalty Payments.**

a. **Bonus Payment.** No cash or delay rental payments are required, as this Lease is considered to be paid up for the Primary Term.

b. **Reserved Interest.** Lessee shall pay to Lessor a royalty equal to eighteen percent (18%) of the gross amount realized by Lessee from all Hydrocarbons produced, sold and marketed from the Target Formation within and underlying the Leased Premises (the "**Reserved Interest**").

c. **No Deductions.** Lessee is not permitted to deduct from the Reserved Interest any costs of any kind or nature whatsoever, including, without limitation, any costs for production, heating, sweetening, gathering, dehydrating, compressing, processing, manufacturing, transporting, trucking, marketing, blending, and other costs and expenses incurred by Lessee in marketing said Hydrocarbons produced from the Target Formation.

d. **Payments.** Payments for the Reserved Interest shall be due and payable monthly to Lessor no later than the last day of the third calendar month following the calendar month in which production occurred; **provided, however**, that in the event any such payment is less than \$50.00, Lessee, at its discretion, may withhold such payment until the total due to Lessor equals or exceeds \$50.00. If Lessor owns an interest in the Leased Premises less than the entire and undivided estate herein leased, then all payments herein provided shall be paid by Lessee only in the proportion to which Lessor's interest bears to the whole and undivided estate.

e. **Shut-In Royalty.** If, at any time, any well is capable of producing Hydrocarbons in paying quantities, but is shut-in and no Hydrocarbons therefrom are sold by Lessee, the well nonetheless shall be deemed to be a well producing in paying quantities but Lessee shall be under no obligation to market such Hydrocarbons under terms, conditions or circumstances which, in Lessee's reasonable judgment, are unsatisfactory; **provided that**, if the well is shut-in for a period of ninety (90) consecutive days or longer, a shut-in royalty shall thereafter accrue at the rate of Fifty Dollars (\$50.00) per net mineral acre leased hereunder per year that is within a unit established for said well or, if no such unit is established, by the amount of net mineral acreage leased hereunder.

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f. **Shut-In Royalty Payment.** Shut-in royalties shall be payable twelve (12) months following the time such well is shut-in and thereafter annually. If the well resumes actual production before the expiration of such twelve (12) month period during which shut-in payments are accruing, payment will be on a pro-rata basis. Shut-in royalty payments shall be deemed a royalty under all provisions of this Lease.

5. **Venting Rights.** Lessee shall have no obligation to recover, and no obligation to pay the Reserved Interest on, any Hydrocarbons that may be vented by any coal operator or that may be vented by Lessee for safety purposes or to remove impurities therefrom; and Lessee shall have no obligation to recover or pay the Reserved Interest on any Hydrocarbons that may be lost during repairs to or testing of any well, or during the gathering and/or transmission of any Hydrocarbons.

6. **Pooling.**

a. **Pooling Option.** Lessee, at its option when, in Lessee's judgment, it is necessary or advisable to do so in order to develop and operate the Target Formation, may pool or unite any part or parts of the Leased Premises pursuant to a voluntary agreement or statutory authority, provided that each unit created thereby is no greater than 1,280 acres unless agreed to in writing by Lessor ("**Pooling Rights**").

b. **Pooling Rights.** Said Pooling Rights shall include, without limitation: (i) any part or parts of the Target Formation underlying the Leased Premises with any other land, lease, leases or parts thereof, and/or (ii) any part or parts of any formations, seams, zones or depths of any other land, lease or leases into one or more unit or units for the production of the Hydrocarbons from the Target Formation underlying the Leased Premises through any type of wells, including, without limitation, vertical, horizontal, or slant hole wells, primary or secondary recovery methods (including by water flooding, gas injections or injections of other substances), and/or combinations of any other drilling or recovery techniques, whether or not such drilling or recovery technique is known on the Effective Date or is developed in the future, provided that said drilling or discovery techniques do not unreasonably interfere with Lessor's ability to develop the Retained Formations.

c. **Revision Rights.** Such units may be enlarged, revised, altered or terminated in any manner whatsoever, including, without limitation, the drilling of additional wells, when, in Lessee's judgment, it is necessary or advisable to do so in order to develop and operate the Target Formation. Any alteration of a unit or units must be exercised in good faith and not for the sole purpose of holding additional acreage. Moreover, any alteration of a unit or units after the expiration of the Primary Term shall not serve to prevent application of the Pugh Clause in **Section 6(f)** hereof, providing that all acreage not pooled or unitized at the expiration of the Primary Term shall be forfeited and surrendered from this Lease.

d. **Pooling Royalty.** In the event any of the Target Formation is included within a unit as permitted hereunder, for purposes of computing the Reserved Interest, there shall be allocated to the Leased Premises within such unit a pro rata portion of the Hydrocarbons produced from the unit and such allocation shall be on an acreage basis; thus, there shall be allocated to the Leased Premises within the unit that pro rata portion of the Hydrocarbons produced from the unit which the number of surface acres included in the Leased Premises included in the unit bears to the total number of surface acres included in the unit. Royalties hereunder shall be computed on the portion of such production allocated to the Leased Premises within the unit just as though such production were from such Leased Premises.

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e. **Scope of Unit Operations.** The commencement of Operations on any such unit shall have the same force and effect in all respects as the commencement of Operations on the Leased Premises hereby leased, and Operations conducted on any such drilling unit or production of Hydrocarbons anywhere from such unit shall have the same force and effect as drilling or Operations conducted on or production obtained from the Target Formation for all purposes, including, but not limited to, the extension of the term of this Lease.

f. **Pugh Clause.** Notwithstanding anything in this Lease to the contrary, at or after the expiration of the Primary Term, production from, or accrual and/or payment of shut-in royalty Payments in accordance with Sections 4(e) and 4(f) hereof in connection with, a well located on a pooled unit authorized by this Lease shall maintain this Lease only as to that portion of the Leased Premises included in any such unit, and if applicable, all conditions contained in Section 3(a) and 3(b) have been satisfied. At the expiration of the Primary Term, this Lease shall terminate as to all non-pooled acreage unless said non-pooled acreage is subject to Operations or payment of shut-in royalty payments in accordance with Sections 4(e) and 4(f) hereof.

7. **Force Majeure.** If any activity or Operation permitted or required hereunder, or the performance by Lessee of any covenant, agreement or requirement herein provided, is delayed, prevented or interrupted by any order, enactment, amendment, regulation or requirement of the Government of the United States or any state or other governmental body, or any agency, officer, representative or authority of any of them, or war, armed hostilities, terrorism, act of God, labor disturbance, strike, civil disturbance, shortage of equipment or materials, fire, explosion, or flood (any one or more of which shall be referred to as "**force majeure**"), the period of such delay or interruption shall not be counted against Lessee; and the passage of time under this Lease shall automatically be tolled and extended during such period of *force majeure* and for a period of two (2) months thereafter. Lessee shall not be liable to Lessor in damages for failure to perform any Operations, or failure to produce Hydrocarbons, or failure to perform any other covenant, agreement or requirement of this Lease, during such period of *force majeure*. Lessee shall be relieved from all obligations under this Lease during the continuance of such *force majeure*, except for the obligation to pay the Reserved Interest due for Hydrocarbons produced, marketed and sold prior to the commencement of or during such *force majeure*.

8. **Title.**

a. **No Warranty.** This Lease, and the rights granted herein, are made and accepted without any warranty of title. Lessor has not and does not make warranty as to the Leased Premises, whether express, implied, or statutory, and this Lease is made "As-Is, Where-Is" with all faults and without recourse to Lessor. This Lease is made subject to (i) all instruments of title or other documents of record and (ii) all reservations, restrictions and conditions contained or referred to in prior deeds, leases, license, easements, rights of way, encumbrances, pledges, instruments, and other title documents of record affect or pertain to the Leased Rights and the rights of the surface owners. Lessee expressly assumes the obligation in determining the sufficiency of the title of Lessor to the Leased Rights granted hereunder and release Lessor for any liability with respect to any failure of title.

b. **Adverse Claims.** In the event of any question, claim or controversy inconsistent with Lessor's title to or ownership of the Target Formation or any notice of an adverse claim affecting all or any part of the payments due hereunder, Lessee may suspend the payment of the Reserved Interest (including shut-in royalties) by keeping them in an interest-bearing escrow

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account until final judicial determination of such question, claim or controversy, and then distribute the same, including interest, among those lawfully entitled thereto.

c. **Liens.** Lessee may, at its option, pay, discharge and/or redeem any overdue tax, mortgage or other lien owed by, or claimed to be due from, Lessor bearing upon the Target Formation or the Hydrocarbons recoverable therefrom; and, in the event of any such payment or redemption, Lessee may reimburse itself out of the Reserved Interest thereafter accruing hereunder.

d. **Lesser Interest.** If Lessor owns an interest in the Hydrocarbons covered within the Target Formation that is less than the entire undivided Hydrocarbon ownership interest therein, then the Reserved Interest and other payments to be paid to Lessor shall be reduced or adjusted in proportion to Lessor's interest in such Hydrocarbons.

e. **Ownership Change.** No change of ownership of the Leased Premises, or any interest therein or in the right to receive the Reserved Interest or other payments hereunder, shall be binding on Lessee until thirty (30) days after Lessee has been furnished with written evidence reasonably satisfactory to Lessee of such change of ownership or right to receive payments.

f. **Divided Ownership.** If the Leased Premises should be owned in severalty or in separate tracts, the Hydrocarbons attributable to the Leased Premises nevertheless may be developed and operated by Lessee as one lease; and all of the Reserved Interest and payments provided for hereunder shall be divided among, and paid to, such separate owners in the proportion that the acreage owned by such separate owner bears to the entire leased acreage.

9. **Breach.** In addition to any other grounds provided by law or equity, upon Lessee's failure to pay royalties on any or all production as provided in **Section 4** hereof (within the prescribed payment period) to Lessor, and upon written notice by certified mail by Lessor to Lessee of non-payment of royalties, Lessee shall have thirty (30) days after receipt of said notice within which to satisfy the non-payment (the "**Cure Date**"); **provided, however**, that five percent (5%) compounded annual interest, calculated from the Cure Date, shall be paid to Lessor by Lessee. At Lessor's option, all payments received shall be applied first to any outstanding interest due on prior late paid royalties, then to any prior outstanding unpaid royalties, and then to any current royalties due. No notations on the remittance statements or provisions in any division order shall be deemed to amend this **Section 9**. The foregoing interest shall not apply to any royalties withheld by Lessee in good faith as a result of a pending dispute or otherwise unless such sums have been duly adjudicated as having been due.

10. **Severability.** This Lease is intended by the Parties to be in conformity with all applicable and valid federal, state, local and cross-jurisdictional laws and those rules or regulations promulgated thereunder having the force and effect of law which are in effect on the Effective Date. Should any part of this Lease, or any provision herein contained, be rendered or declared invalid by reason of any existing or subsequently enacted federal, state, local and cross-jurisdictional laws and those rules or regulations promulgated thereunder, or by a decree or order of any court of competent jurisdiction, such invalidation of such part or portion of this Lease shall not invalidate the remaining portions hereof, and such remaining parts or provisions shall remain in full force and effect.

11. **Assignment.** This Lease and all of the conditions, covenants, and terms hereof shall extend to and bind the respective successors and assigns of Lessor and Lessee. The rights of either Party under this Lease may be assigned in whole or in part and the provisions of this Lease shall extend to and be binding upon their respective successors and

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assigns; **provided, however,** that Lessee shall notify Lessor in writing if Lessee assigns or transfers all or any portion of this Lease and (i) such notification to Lessor shall be made within thirty (30) days after the effective date of any such transfer, (ii) all assignments and/or transfers shall specifically provide that the same are subject to the provisions of this Lease, and (iii) Lessee shall provide Lessor with a copy of the assignment or other documentation evidencing the transfer with the notice described in subsection (i) above.

12. **Manner of Operations.** All Operations shall and must be conducted in good faith, with reasonable diligence, with adequate equipment, and in a good and workmanlike manner, in keeping with the standard of conduct of a reasonably prudent operator, and shall comply with all federal, state, local and cross-jurisdictional laws, rules, orders and regulations of any and all governmental authorities having jurisdiction over the same. Lessee shall comply with all federal, state, local and cross-jurisdictional laws, regulations and orders pertaining to reporting the Hydrocarbons produced from the Leased Premises and the proceeds derived from the sale thereof, and shall timely provide to Lessor all information required by any federal, state, local and cross-jurisdictional law, regulation or order in order to enable Lessor to verify the gross production, disposition and sales price of the Hydrocarbons produced from the Leased Premises and lands pooled or unitized therewith.

13. **Division Orders.** Neither the acceptance of royalties, rentals, shut-in royalties, or other payments by Lessor (regardless of any notation thereon or instrument accompanying same), nor Lessor's execution of any division order or transfer order or similar instrument, shall ever constitute or be deemed to effect (a) a ratification, renewal or amendment of this Lease or of any pooled unit designation filed by Lessee purporting to exercise any pooling rights granted to Lessee in this Lease, or (b) a waiver of the rights granted to Lessor, or the obligations imposed upon Lessee, express or implied, by the terms of this Lease, or remedies for Lessee's breach thereof, or (c) an estoppel against Lessor preventing Lessor from enforcing Lessor's rights or Lessee's obligations hereunder, express or implied, or from seeking damages for Lessee's breach thereof. Lessor's agreement to accept royalties from any purchaser shall not affect Lessee's obligation to pay royalties pursuant to this Lease. No instrument executed by Lessor shall be effective to constitute a ratification, renewal, extension, or amendment of this Lease unless the instrument is clearly titled to indicate its purpose and intent. It shall not be necessary for Lessor to execute any division or transfer order in order to be entitled to payment of royalties due under this Lease.

14. **Removal of Fixtures.** Lessee shall have the right at any time, and from time to time before expiration or termination of this Lease, to remove all fixtures installed by Lessee on the Leased Premises, including the right to draw and remove casing, except that coal protection casing will not be removed without Lessor's prior written consent or unless required by applicable law.

15. **No Storage.** Lessee shall have no right to use any stratum or strata underlying the Leased Premises, or any part thereof, for the storage or disposal of any Hydrocarbons or other liquids.

16. **Counterparts.** This Lease may be executed by Lessor and Lessee in any number of counterparts, each of which shall be deemed an original instrument, but all of which collectively shall constitute one and the same instrument; provided that neither of the Parties shall be bound to this Lease unless and until all Parties have executed a counterpart.

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17. **Notices.** All notices and/or payments necessary to be given under the terms of this Lease shall be directed to each Party at the Party's address on the first page of this Lease or to such other address as each such Party may designate in writing to the other Party, and the receipt of any such notice with postage prepaid shall be notice to the addressees of the contents of such writing.

18. **Lease Execution.** Lessor and Lessee further agree that this Lease shall not be considered fully executed until such time as Lessee's corporate representative with full and proper authority to contractually bind Lessee has fully, validly and properly affixed his or her signature to this Lease and the Lease has been notarized with respect to such signature.

19. **No Surface Use.** This is a non-surface use Lease. Accordingly, Lessee shall not conduct any operations on the surface above the Leased Premises without the separate written consent of the surface owner (whether Lessor or a third party).

20. **Memorandum of Lease.** The Parties acknowledge that Lessee shall be responsible for recording a Memorandum of Non-Surface Use Oil and Gas Lease and shall bear any costs associated with such recording. Lessee shall deliver to Lessor a copy of such memorandum as so recorded promptly following Lessee's receipt thereof. Upon the expiration or termination of this Lease, Lessee shall promptly deliver to Lessor a recordable termination of the aforementioned memorandum.

*[Signature/acknowledgment pages follow]*

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**IN WITNESS WHEREOF**, the Parties have executed this Lease effective as of the Effective Date (regardless of whether executed by either Party prior to, on or after the Effective Date).

**LESSOR:**

**[LESSOR ENTITY]**

By: \_\_\_\_\_  
Name:  
Title:

COMMONWEALTH OF PENNSYLVANIA :  
COUNTY OF \_\_\_\_\_ :

The foregoing instrument was acknowledged before me on \_\_\_\_\_, \_\_\_\_\_,  
by \_\_\_\_\_ as \_\_\_\_\_, who represents that he/she is authorized to act  
on behalf of \_\_\_\_\_.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public  
My commission expires: \_\_\_\_\_

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**LESSEE:**

**[LESSEE ENTITY]**

By: \_\_\_\_\_

Name:

Title:

COMMONWEALTH OF PENNSYLVANIA :  
COUNTY OF \_\_\_\_\_ :

The foregoing instrument was acknowledged before me on \_\_\_\_\_, \_\_\_\_\_,  
by \_\_\_\_\_ as \_\_\_\_\_, who represents that he/she is authorized to act  
on behalf of \_\_\_\_\_.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
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