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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)

Tuesday, October 21, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC  
6031 WALLACE RD. EXT. SUITE 200

WEXFORD, PA 15090

Re: Permit Modification Approval for J Osborn 211  
47-033-06084-00-00

**Lateral Extension/ Add Water source to WMP**

ARSENAL RESOURCES LLC

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 black ink, appearing to read 'Jason Harmon', is written over a light blue horizontal line.

H. Jason Harmon  
Acting Chief

Operator's Well Number: J Osborn 211  
Farm Name: Judy M Osborn (LE) (Judy M Osborn Irrevocable Trust)  
U.S. WELL NUMBER: 47-033-06084-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 10/21/2025

Promoting a healthy environment.

10/24/2025

WW-6B  
(04/15)

OCT 09 2025

WV Department of  
Environmental Protection

API NO. 47-033 -  
OPERATOR WELL NO. 211  
Well Pad Name: J Osborn

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

- 1) Well Operator: Arsenal Resources 494519412 Harrison Simpson Rosemont  
Operator ID County District Quadrangle
- 2) Operator's Well Number: 211 Well Pad Name: J Osborn
- 3) Farm Name/Surface Owner: Judy M Osborn (LE) Public Road Access: 77/4 Moss Run (Coplin Run)
- 4) Elevation, current ground: 1164 ft Elevation, proposed post-construction: 1164 ft
- 5) Well Type (a) Gas X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale, Top 7130 ft, Base 7230 ft, Anticipated Thickness 100 ft, Associated Pressure 0.5 psi/ft
- 8) Proposed Total Vertical Depth: 7,220 ft
- 9) Formation at Total Vertical Depth: Marcellus Shale
- 10) Proposed Total Measured Depth: 21,400 ft
- 11) Proposed Horizontal Leg Length: 12,579 ft
- 12) Approximate Fresh Water Strata Depths: 174', 232', 260', 372', 488', 609', 680'
- 13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (033-05931, 033-05941, 033-5949, 033-05950)
- 14) Approximate Saltwater Depths: None expected
- 15) Approximate Coal Seam Depths: Bakerstown - 226', Brush Creek - 326', U Freeport - 401', L Freeport - 441', U Kittanning - 531', M Kittanning - 596', L Kittanning - 616'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None Known
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X
- (a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

*Jeff A Propat*  
10-2-2025

WW-6B  
(04/15)

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Office of Oil and Gas

OCT 09 2025

WV Department of  
Environmental Protection

4703306084

API NO. 47- 033

OPERATOR WELL NO. 211

Well Pad Name: J Osborn

18)

**CASING AND TUBING PROGRAM**

| TYPE         | Size<br>(in) | New<br>or<br>Used | Grade | Weight per ft.<br>(lb/ft) | FOOTAGE: For<br>Drilling (ft) | INTERVALS:<br>Left in Well<br>(ft) | CEMENT:<br>Fill-up<br>(Cu. Ft.)/CTS |
|--------------|--------------|-------------------|-------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor    | 24           | New               | H-40  | 94                        | 80                            | 80 ✓                               | CTS                                 |
| Fresh Water  | 13.375       | New               | J-55  | 54.5                      | 800                           | 800 ✓                              | CTS ✓                               |
| Coal         |              |                   |       |                           |                               |                                    |                                     |
| Intermediate | 9.625        | New               | J-55  | 40                        | 1,500                         | 1,500 ✓                            | CTS                                 |
| Production   | 5.5          | New               | P-110 | 23                        | 21,400                        | 21,400 ✓                           | TOC @ 1,350                         |
| Tubing       |              |                   |       |                           |                               |                                    |                                     |
| Liners       |              |                   |       |                           |                               |                                    |                                     |

Jeff A Propst ✓ 10-2-2025

| TYPE         | Size (in) | Wellbore<br>Diameter (in) | Wall<br>Thickness<br>(in) | Burst Pressure<br>(psi) | Anticipated<br>Max. Internal<br>Pressure (psi) | Cement<br>Type                  | Cement<br>Yield<br>(cu. ft./k) |
|--------------|-----------|---------------------------|---------------------------|-------------------------|--|---------------------------------|--------------------------------|
| Conductor    | 24        | 36                        |                           |                         | 0  | Class A/L, 3% CaCl <sub>2</sub> | 1.2                            |
| Fresh Water  | 13.375    | 17.5                      | 0.38                      | 2,730                   | 900  | Class A/L, 3% CaCl <sub>2</sub> | 1.2                            |
| Coal         |           |                           |                           |                         |  |                                 |                                |
| Intermediate | 9.625     | 12.25                     | 0.395                     | 3,950                   | 1,500  | Class A/L, 3% CaCl <sub>2</sub> | 1.29                           |
| Production   | 5.5       | 8.5-8.75                  | 0.415                     | 14,520                  | ✓ 9,500  | Class A/L, Poz                  | 1.29/1.34                      |
| Tubing       |           |                           |                           |                         |  |                                 |                                |
| Liners       |           |                           |                           |                         |  |                                 |                                |

**PACKERS**

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

WW-6B  
(10/14)

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OCT 09 2025

WV Department of  
Environmental Protection

API NO. 47-033 4703306034

OPERATOR WELL NO. 211

Well Pad Name: J Osborn

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and circulate cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 1/2" hole and drill to fresh water casing (Surface) to the programmed depth, run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- 1/4" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig will then continue to drill an 8- 3/4" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" casing and cement according to the program.

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

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 11,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.26

22) Area to be disturbed for well pad only, less access road (acres): 6.63

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 1/2" – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,700'; there will be no centralizers from 1,700' to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl<sub>2</sub> (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 1,350' (+/- 150' above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the wellbore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three strands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

\*Note: Attach additional sheets as needed.

Jeff A Propp  
10-2-2025

**Area of Review Report - J Osborn Pad, 211 Lateral, Harrison County, WV**

| Well Name             | API Number | Operator Name / Address     | Well Type | Latitude  | Longitude  | Total Depth (feet) | Perforated Formation(s) | Producing Zones not Perforated |
|-----------------------|------------|-----------------------------|-----------|-----------|------------|--------------------|-------------------------|--------------------------------|
| J Osborn HSOP 16 204  | 033-05931  | Arsenal Resources, LLC      | Existing  | 39.265907 | -80.217852 | 24,662             | Marcellus Shale         | NA                             |
| J Osborn HSOP 16 203  | 033-05941  | Arsenal Resources, LLC      | Existing  | 39.265924 | -80.2179   | 24,873             | Marcellus Shale         | NA                             |
| J Osborn HSOP 16 201  | 033-05949  | Arsenal Resources, LLC      | Existing  | 39.265958 | -80.217997 | 25,871             | Marcellus Shale         | NA                             |
| J Osborn HSOP 16 202  | 033-05950  | Arsenal Resources, LLC      | Existing  | 39.265941 | -80.217949 | 25,505             | Marcellus Shale         | NA                             |
| C. S. Harron 40       | 033-05426  | Petroleum Development Corp  | Cancelled | 39.263556 | -80.223861 | NA                 | NA                      | NA                             |
| G. T. Faris 10        | 033-01969  | Diversified Production, LLC | Existing  | 39.264762 | -80.229982 | 4,449              | Benson                  | NA                             |
| Douglas Whyte 3       | 033-04969  | Diversified Production, LLC | Existing  | 39.266815 | -80.231274 | 4,723              | Benson                  | Balltown, Fourth, Gordon       |
| Samuel S Faris 28     | 033-03105  | Diversified Production, LLC | Existing  | 39.27247  | -80.233141 | 4,522              | Benson                  | NA                             |
| Robert Faris 30       | 033-03123  | Diversified Production, LLC | Existing  | 39.27537  | -80.237247 | 4,411              | Benson                  | NA                             |
| Samuel Faris Heirs 22 | 033-03035  | Petroleum Development Corp  | Cancelled | NA        | NA         | NA                 | NA                      | NA                             |
| William Callison 1    | 033-03312  | Diversified Production, LLC | Existing  | 39.281026 | -80.237436 | 1,895              | Gordon                  | NA                             |
| Frederick Lawson 2    | 033-03468  | Diversified Production, LLC | Existing  | 39.283926 | -80.238743 | 4,300              | Benson                  | Riley, Speechley, Fifth        |
| O A & J H Willis 46   | 033-00002  | Trio Petroleum Corp.        | Existing  | 39.29618  | -80.242898 | 2,282              | Fifth                   | NA                             |

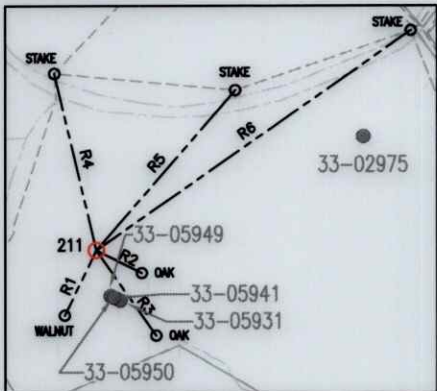
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OCT 09 2025  
WV Department of  
Environmental Protection

4703306084



BHL is located on topo map 13,168 feet south of Latitude: 39°20'00"  
SHL is located on topo map 9,151 feet south of Latitude: 39°17'30"

BHL is located on topo map 10,655 feet west of Longitude: 80°12'30"  
SHL is located on topo map 2,859 feet west of Longitude: 80°12'30"



REFERENCE DETAIL  
SCALE 1"= 800'

| LINE | BEARING       | DISTANCE |
|------|---------------|----------|
| R1   | S 25°44'29" W | 301.49'  |
| R2   | S 63°32'21" E | 212.59'  |
| R3   | S 35°05'20" E | 435.69'  |
| R4   | N 13°20'21" W | 755.56'  |
| R5   | N 40°59'48" E | 881.86'  |
| R6   | N 55°08'14" E | 1598.40' |

| J OSBORN HSOP 16 211         |                      |                    |
|------------------------------|----------------------|--------------------|
| SURFACE HOLE LOCATION (SHL)  |                      |                    |
| UTM 17-NAD83 (M)             | NAD83, WV NORTH (FT) | NAD83, GEOGRAPHIC  |
| NORTHING: 4346640.117        | NORTHING: 279986.067 | LAT-(N) 39.266480  |
| EASTING: 567442.114          | EASTING: 1765157.257 | LONG-(W) 80.218212 |
| LANDING POINT LOCATION (LPL) |                      |                    |
| UTM 17-NAD83 (M):            | NAD83, WV NORTH (FT) | NAD83, GEOGRAPHIC  |
| NORTHING: 4346402.289        | NORTHING: 279266.208 | LAT-(N) 39.264423  |
| EASTING: 566332.790          | EASTING: 1761504.162 | LONG-(W) 80.231094 |
| BOTTOM HOLE LOCATION (BHL)   |                      |                    |
| UTM 17-NAD83 (M):            | NAD83, WV NORTH (FT) | NAD83, GEOGRAPHIC  |
| NORTHING: 4350000.435        | NORTHING: 291144.852 | LAT-(N) 39.296943  |
| EASTING: 565018.435          | EASTING: 1757387.690 | LONG-(W) 80.245981 |

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
7. Well Spot Circle & Topo Mark Scale is 1"=2000'.

**THRASHER**

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108



SEE PAGES 2-5 FOR PLAT AND INSETS DUE TO PARCEL SIZE

SEE PAGES 6-7 FOR SURFACE OWNER TABLES

FILE #: J OSBORN HSOP 16 211  
DRAWING #: J OSBORN HSOP 16 211  
SCALE: AS SHOWN  
MINIMUM DEGREE  
OF ACCURACY: 1/2500  
PROVEN SOURCE  
OF ELEVATION: U.S.G.S. MONUMENT  
THOMAS 1498.81'

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.

Signed: Joseph H. Lowther

R.P.E.:

L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON  
UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: OCTOBER 3, 2025

OPERATOR'S WELL #: J OSBORN HSOP 16 211

API WELL #: 47 33  
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep  
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: SIMPSON CREEK ELEVATION: 1164.03'±

COUNTY/DISTRICT: HARRISON / SIMPSON QUADRANGLE: ROSEMONT, WV 7.5'

SURFACE OWNER: JUDY M OSBORN (LE) (JUDY M OSBORN IRREVOCABLE TRUST) ACREAGE: 70.00±

OIL & GAS ROYALTY OWNER: GOBEL OSBORN, ET AL ACREAGE: 1,399.52±

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒  
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐  
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7220'± TMD / 21,400' TMD

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT ERIC MORRIS

Address 6031 WALLACE ROAD EXTENSION, SUITE 200

Address 633 WEST MAIN ST.

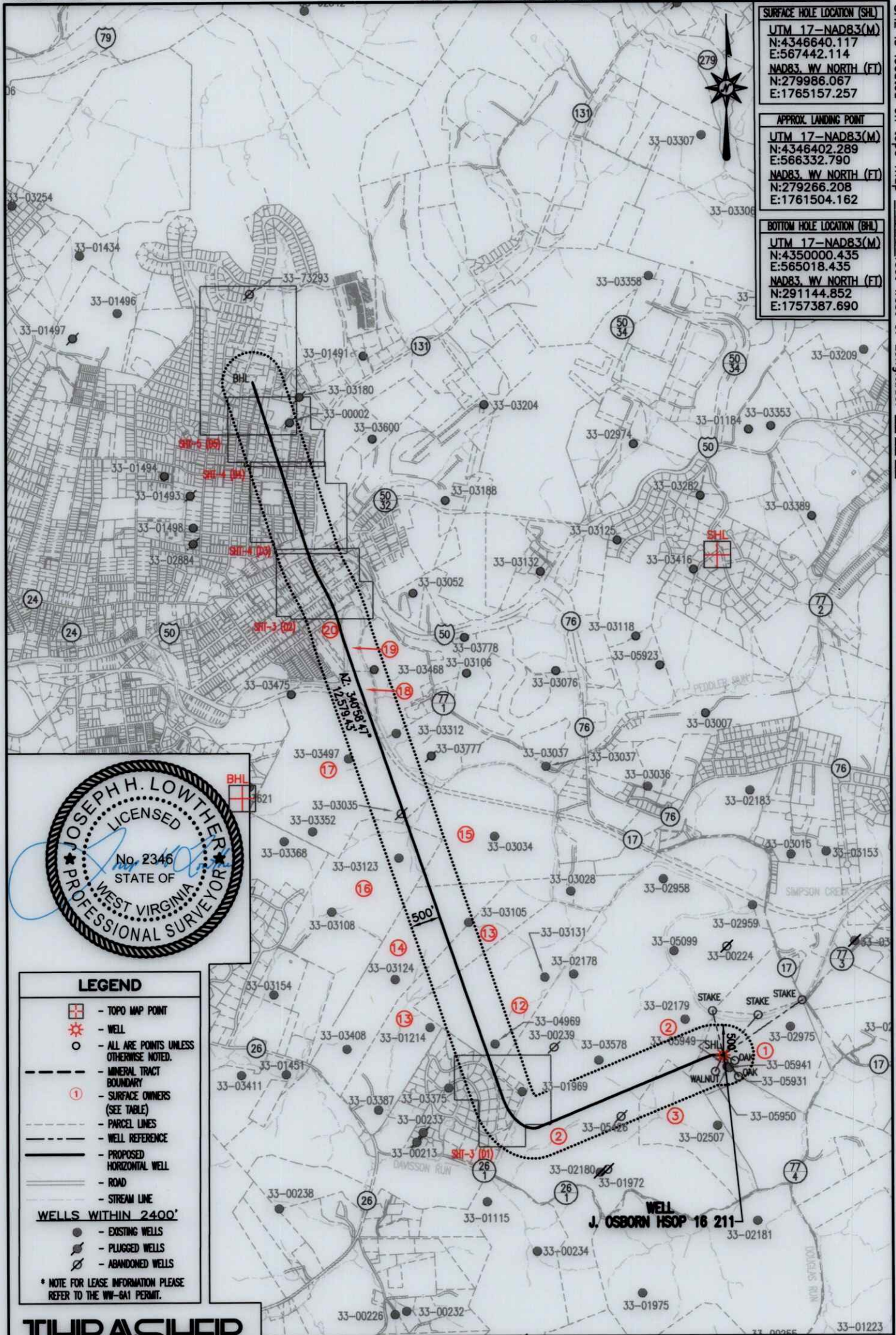
City WEXFORD State PA Zip Code 15090

City BRIDGEPORT State WV Zip Code 26330



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|                                    |
|------------------------------------|
| <b>SURFACE HOLE LOCATION (SHL)</b> |
| UTM 17-NAD83(M)                    |
| N:4346640.117                      |
| E:567442.114                       |
| NAD83 WV NORTH (FT)                |
| N:279986.067                       |
| E:1765157.257                      |
| <b>APPROX. LANDING POINT</b>       |
| UTM 17-NAD83(M)                    |
| N:4346402.289                      |
| E:566332.790                       |
| NAD83 WV NORTH (FT)                |
| N:279266.208                       |
| E:1761504.162                      |
| <b>BOTTOM HOLE LOCATION (BHL)</b>  |
| UTM 17-NAD83(M)                    |
| N:4350000.435                      |
| E:565018.435                       |
| NAD83 WV NORTH (FT)                |
| N:291144.852                       |
| E:1757387.690                      |



| LEGEND  |  |
|---|--|
|   | - TOPO MAP POINT                         |
|   | - WELL                                   |
|   | - ALL ARE POINTS UNLESS OTHERWISE NOTED. |
|   | - MINERAL TRACT BOUNDARY                 |
|   | - SURFACE OWNERS (SEE TABLE)             |
|   | - PARCEL LINES                           |
|   | - WELL REFERENCE                         |
|   | - PROPOSED HORIZONTAL WELL               |
|   | - ROAD                                   |
|   | - STREAM LINE                            |
| WELLS WITHIN 2400'  |  |
|   | - EXISTING WELLS                         |
|   | - PLUGGED WELLS                          |
|   | - ABANDONED WELLS                        |
| * NOTE FOR LEASE INFORMATION PLEASE REFER TO THE WV-GA1 PERMIT. |  |

**THRASHER**

THE THRASHER GROUP, INC.  
 600 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26330  
 PHONE 304-624-4108

SEE PAGES 3-5 FOR INSETS DUE TO PARCEL SIZE

SEE PAGES 6-7 FOR SURFACE OWNERS 10/24/2025

DATE: OCTOBER 3, 2025  
 OPERATOR'S WELL #: J OSBORN HSOP 16 211  
 API WELL #: 47 33  
 STATE COUNTY PERMIT



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

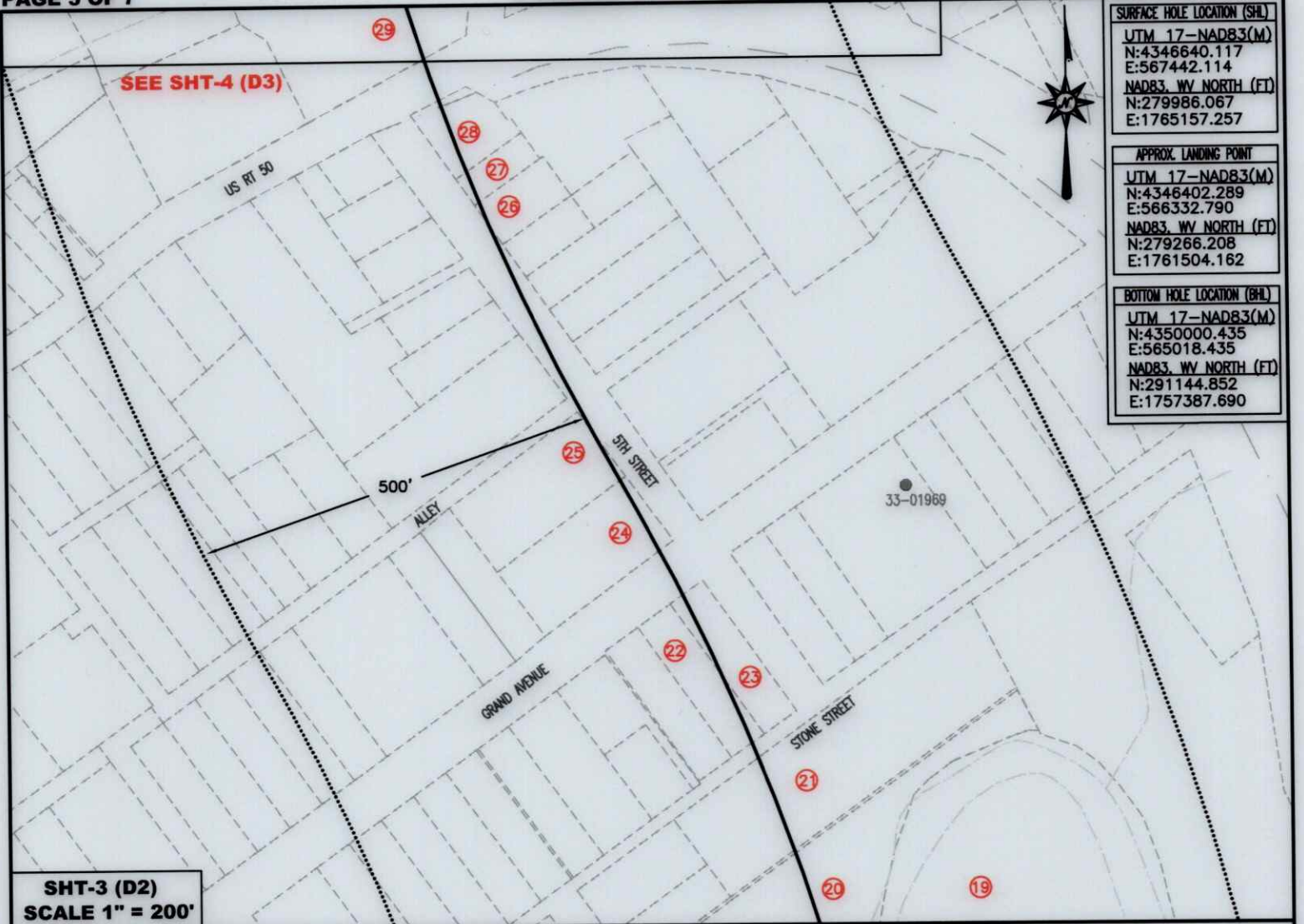
FILE #: J OSBORN HSOP 16 211  
 DRAWING #: J OSBORN HSOP 16 211  
 SCALE: 1" = 2000'

WELL OPERATOR ARSENAL RESOURCES  
 Address 6031 WALLACE ROAD EXTENSION, SUITE 200  
 City WEXFORD State PA Zip Code 15090

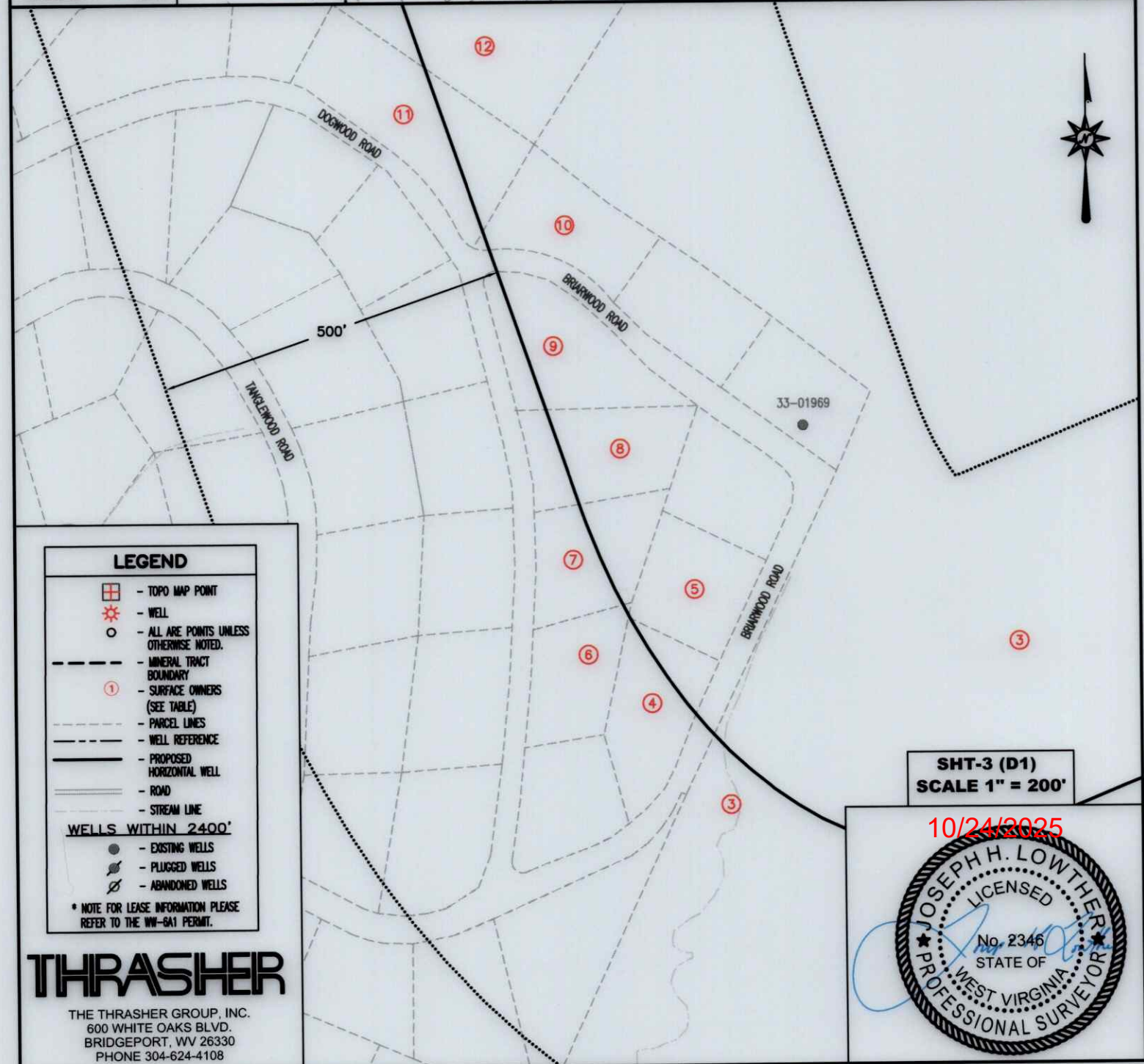
DESIGNATED AGENT ERIC MORRIS  
 Address 633 WEST MAIN ST.  
 City BRIDGEPORT State WV Zip Code 26330

**J OSBORN HSOP 16 211**





SHT-3 (D2)  
SCALE 1" = 200'



SHT-3 (D1)  
SCALE 1" = 200'

10/24/2025



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- SURFACE OWNERS (SEE TABLE)
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM LINE
- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

WELLS WITHIN 2400'

\* NOTE FOR LEASE INFORMATION PLEASE REFER TO THE WM-GA1 PERMIT.

THRASHER

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600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

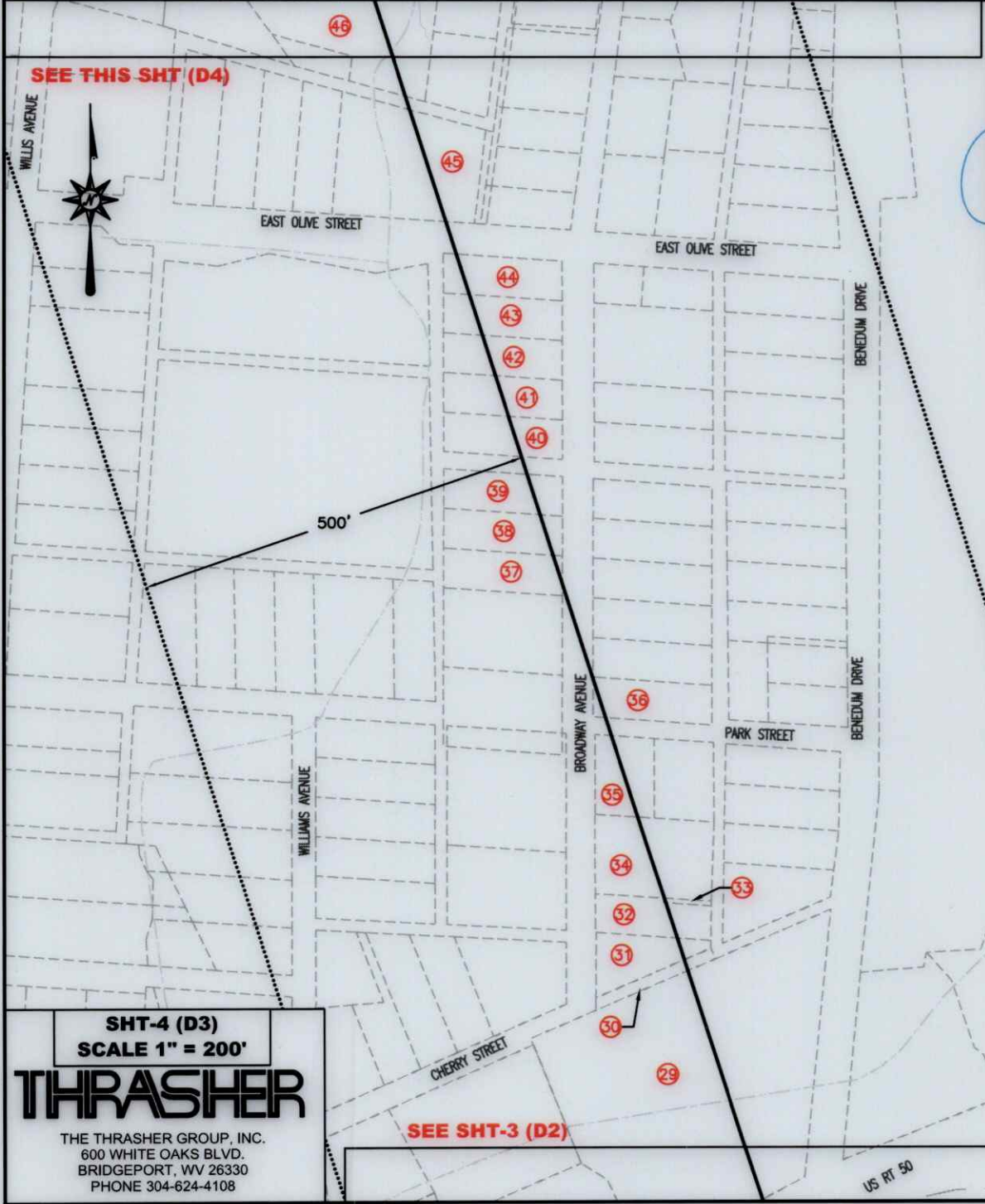




|                                    |
|------------------------------------|
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| N:279986.067                       |
| E:1765157.257                      |

|                              |
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| N:4346402.289                |
| E:566332.790                 |
| NAD83, WV NORTH (FT)         |
| N:279266.208                 |
| E:1761504.162                |

|                                   |
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|   | - SURFACE OWNERS (SEE TABLE)             |
|   | - PARCEL LINES                           |
|   | - WELL REFERENCE                         |
|   | - PROPOSED HORIZONTAL WELL               |
|   | - ROAD                                   |
|   | - STREAM LINE                            |
| WELLS WITHIN 2400'  |  |
|   | - EXISTING WELLS                         |
|   | - PLUGGED WELLS                          |
|   | - ABANDONED WELLS                        |
| * NOTE FOR LEASE INFORMATION PLEASE REFER TO THE WH-6A1 PERMIT. |  |

**THRASHER**

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

10/24/2025



SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83(M)  
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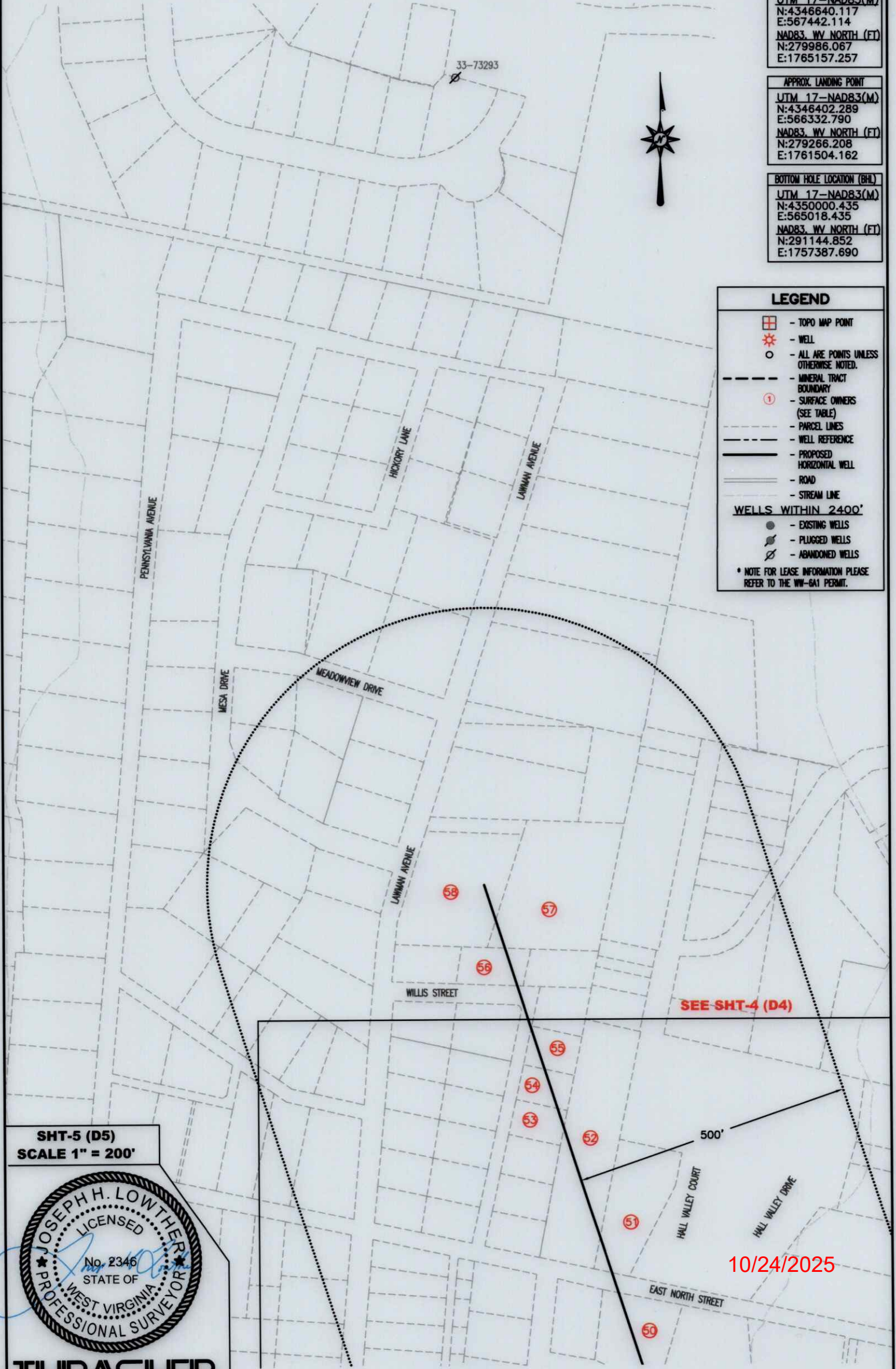
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LEGEND

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- STREAM LINE
- WELLS WITHIN 2400'**
- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS
- \* NOTE FOR LEASE INFORMATION PLEASE REFER TO THE WV-GA1 PERMIT.



SHT-5 (D5)  
SCALE 1" = 200'



**THRASHER**

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

SEE SHT-4 (D4)

10/24/2025




| J OSBORN WELL 211 |   |                   |         |
|-------------------|---|-------------------|---------|
| ID                | SURFACE OWNER   | DIST-TM-PAR       | ACREAGE |
| 1                 | OSBORN JUDY M (LE) (JUDY M OSBORN IRREVOCABLE                 | 15-0330-0005      | 56.67   |
| 2                 | HARRON CAROLYN S  | 15-0330-0003      | 355.02  |
| 3                 | DAVIS CHARLES THOMAS II                                       | 15-0330-0004      | 41.84   |
| 2                 | HARRON CAROLYN S  | 15-0330-0003      | 355.02  |
| ROAD              | BRIARWOOD ROAD  | N/A               | N/A     |
| 4                 | JULIAN JESSICA L & JOHN A                                     | 16-2423-0081      | 0.57    |
| 5                 | ANDRE ROBERT J III & SUZANNE                                  | 16-2423-0080      | 0.55    |
| 6                 | ANDERSON DANIEL A & SHANNON M                                 | 16-2423-0047      | 0.54    |
| 7                 | IAQUINTA FRANCIS S & MONICA L                                 | 16-2423-0046      | 0.64    |
| 8                 | HINKLE BRADLEY L & SHARON HADDIX                              | 16-2423-0045      | 0.68    |
| 9                 | LEATHERMAN DELBERT E & STEPHANIE K                            | 16-2423-0044      | 0.69    |
| ROAD              | BRIARWOOD ROAD  | N/A               | N/A     |
| 10                | HORNE MICHAEL S & CHRISTY D                                   | 16-2423-67        | 0.60    |
| 11                | JOHNSON JASON T & JANICE L                                    | 16-2423-77        | 1.021   |
| 12                | WHYTE KAREN SUE   | 15-0330-0001      | 79.43   |
| 13                | EBERT JOHN & CYNTHIA  | 15-0329-0038      | 72.82   |
| 14                | FARIS DAVID A & TAMMERA L                                     | 15-0329-0038-0001 | 76.33   |
| 15                | FARIS DAVID A & TAMMERA N                                     | 15-0310-0041      | 58.76   |
| 16                | FARIS DAVID A & TAMMERA L                                     | 15-0309-0075      | 72.57   |
| 15                | FARIS DAVID A & TAMMERA N                                     | 15-0310-0041      | 58.76   |
| 17                | FARIS DAVID A & TAMMERA L                                     | 15-0309-0049      | 104.94  |
| RXR               | CSX RAILROAD  | N/A               | N/A     |
| 18                | ALFRED J K  | 16-0309-0050      | 9.59    |
| 19                | ALFRED J K  | 16-0309-0051      | 6.48    |
| 20                | HESS KERRY A  | 16-2409-0172      | 4.25    |
| 21                | HESS KERRY A  | 16-2409-0160      | 1.25    |
| ROAD              | STONE STREET  | N/A               | N/A     |
| 22                | OLIVERIO JOHN F JR & PAMELA R                                 | 16-2409-0131      | 0.23    |
| 23                | SMALLRIDGE JUSTIN D & SARAH ELIZABETH                         | 16-2409-0132      | 0.24    |
| ROAD              | GRAND AVENUE  | N/A               | N/A     |
| 24                | COLE JOHN K   | 16-2405-0392      | 0.45    |
| 25                | MARION THOMAS J   | 16-2405-0392-0001 | 0.45    |
| ROAD              | 5TH STREET  | N/A               | N/A     |
| 26                | OLIVERIO PATRICK K AL 3/4INT & PETER A OLIVERIO JR EST AL 1/4 | 16-2409-0050      | 0.15    |
| 27                | OLIVERIO SHIRLEY  | 16-2409-0039      | 0.09    |
| 28                | OLIVERIO SHIRLEY  | 16-2409-0001      | 0.20    |
| ROAD              | US ROUTE 50   | N/A               | N/A     |
| 29                | TEDA J FAMILY LIMITED PARTNERSHIP                             | 16-2405-0320-0001 | 2.32    |
| 30                | TEDA J FAMILY LIMITED PARTNERSHIP                             | 16-2405-0404      | 0.06    |
| 31                | TEDA J FAMILY LIMITED PARTNERSHIP                             | 16-2405-0103      | 0.20    |
| 32                | DEVERICKS ANTOINETTE J  | 16-2405-0077      | 0.17    |

THRASHER

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4708

10/24/2025

|  |  |   |
|--|--|---|
| DATE: <u>OCTOBER 3, 2025</u>   |         | FILE #: <u>J OSBORN HSOP 16 211</u>   |
| OPERATOR'S WELL #: <u>J OSBORN HSOP 16 211</u>   |  | DRAWING #: <u>J OSBORN HSOP 16 211</u>  |
| API WELL #: <u>47</u> <u>33</u><br>STATE COUNTY PERMIT   |  | SCALE: <u>N/A</u>   |
| WELL OPERATOR <u>ARSENAL RESOURCES</u><br>Address <u>6031 WALLACE ROAD EXTENSION, SUITE 200</u><br>City <u>WEXFORD</u> State <u>PA</u> Zip Code <u>15090</u> | STATE OF WEST VIRGINIA<br>DIVISION OF<br>ENVIRONMENTAL PROTECTION<br>OFFICE OF OIL AND GAS | DESIGNATED AGENT <u>ERIC MORRIS</u><br>Address <u>633 WEST MAIN ST.</u><br>City <u>BRIDGEPORT</u> State <u>WV</u> Zip Code <u>26330</u> |

| J OSBORN WELL 211 |  |                   |         |
|-------------------|--|-------------------|---------|
| ID                | SURFACE OWNER                          | DIST-TM-PAR       | ACREAGE |
| 33                | DEVERICKS ANTOINETTE J                 | 16-2405-0077-0001 | 0.008   |
| 34                | NELSON PATTY A                         | 16-2405-0064      | 0.34    |
| 35                | SHULTZ FOREST WESLEY & DEBORAH D       | 16-2405-0041      | 0.17    |
| ROAD              | PARKS STREET                           | N/A               | N/A     |
| 36                | KSR PROPERTIES LLC                     | 16-2405-0028      | 0.17    |
| ROAD              | BROADWAY AVENUE                        | N/A               | N/A     |
| 37                | TRUONG TRAN N                          | 16-2403-0291      | 0.17    |
| 38                | ICEKEWL LLC                            | 16-2403-0285      | 0.17    |
| 39                | TRENT STEPHEN W & REMONDA L            | 16-2403-0278      | 0.17    |
| ROAD              | UNNAMED ALLEY                          | N/A               | N/A     |
| 40                | STOUT TINA A TICE                      | 16-2403-0274      | 0.17    |
| 41                | SANDY CAROLYN A & JERRICA C STATEN     | 16-2403-0266      | 0.17    |
| 42                | STATEN SHERRI ANN                      | 16-2403-0255      | 0.17    |
| 43                | WALTON RICHARD M & RICHARD D           | 16-2403-0244      | 0.17    |
| 44                | KOVALAN JOANNE J BOYER                 | 16-2403-0234      | 0.17    |
| ROAD              | EAST OLIVE STREET                      | N/A               | N/A     |
| 45                | DEVERICKS SHARON                       | 16-2403-0210      | 0.57    |
| ROAD              | UNNAMED ALLEY                          | N/A               | N/A     |
| 46                | SEYFERT GEORGE S & IVY M               | 16-2403-0330      | 0.76    |
| 47                | SEYFERT GEORGE SCOTT & IVY M           | 16-2403-0331      | 0.94    |
| 48                | DELGRECO CHRISTOPHER V & KIMBERLY J    | 16-2403-0332      | 0.47    |
| 49                | LOPEZ JOHN & BEVERLY IRREVOCABLE TRUST | 16-2403-0335      | 1.09    |
| ROAD              | GLENVIEW DRIVE                         | N/A               | N/A     |
| 50                | MILINOVICH STEPHEN J & KARA M          | 16-2403-0337      | 0.43    |
| ROAD              | EAST NORTH STREET                      | N/A               | N/A     |
| 51                | TIGHE GLEN                             | 16-2403-0373      | 0.69    |
| 52                | BENSON MARK PATRICK & ALYSON LOREN     | 16-2403-0366      | 0.89    |
| 53                | GEORGE HAROLD W & KATHLEEN M           | 16-2403-0021      | 0.14    |
| 54                | GREENMAN MARTIN B & JENNIFER L         | 16-2403-0018      | 0.14    |
| 55                | MAURER DAVID N & DOREEN C              | 16-2403-0015      | 0.15    |
| ROAD              | WILLIS STREET                          | N/A               | N/A     |
| 56                | COAKLEY STEPHEN                        | 16-2403-0010      | 0.19    |
| 57                | BAILEY BETH ANN                        | 16-2411-0029      | 0.95    |
| 58                | EGAN SHAUN MATTHEW                     | 16-2411-0030      | 0.82    |

THRASHER

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD  
BRIDGEPORT WV 26330  
PHONE 304-624-4108

DATE: OCTOBER 3, 2025  
OPERATOR'S WELL #: J OSBORN HSOP 16 211  
API WELL #: 47 33  
STATE COUNTY PERMIT

WELL OPERATOR ARSENAL RESOURCES  
Address 6031 WALLACE ROAD EXTENSION, SUITE 200  
City WEXFORD State PA Zip Code 15090



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

FILE #: J OSBORN HSOP 16 211  
DRAWING #: J OSBORN HSOP 16 211  
SCALE: N/A

DESIGNATED AGENT ERIC MORRIS  
Address 633 WEST MAIN ST.  
City BRIDGEPORT State WV Zip Code 26330



**Attachment to WW-6A1, J OSBORN HSOP 211**

| ID Designation on Plat                | Grantor, Lessor, Assignor, etc.   | Grantee, Lessee, Assignee, etc.     | Royalty | Book/Page | Acreage |
|---------------------------------------|---|-------------------------------------|---------|-----------|---------|
| ID 1<br>47-033-15-330-5<br>(00003703) | J. Earl Teter, Widower; Irvin D. Teter and<br>Vera Teter, his wife                                | Petro-Lewis Corp.                   | 12.5+%  | 1062/405  | 116     |
|                                       | Petro-Lewis Corp.   | Partnership Properties Co.          |         | 1072/213  |         |
|                                       | Partnership Properties Co.  | Eastern American Energy Corporation |         | 1124/449  |         |
|                                       | Eastern American Energy Corporation   | Petroleum Development Corporation   |         | 1134/83   |         |
|                                       | Petroleum Development Corporation   | PDC Mountaineer, LLC                |         | 1440/364  |         |
| ID 1<br>47-033-15-330-5<br>(00003704) | PDC Mountaineer, LLC  | River Ridge Energy, LLC             |         | 59/1263   |         |
|                                       | Gobel Osborn and Audrey Osborn, his<br>wife and Judy Nicholson and Gary<br>Nicholson, her husband | Petroleum Development Corporation   | 12.5+%  | 1074/420  | 72      |
|                                       | Petroleum Development Corporation   | PDC Mountaineer, LLC                |         | 1440/364  |         |
|                                       | PDC Mountaineer, LLC  | River Ridge Energy, LLC             |         | 59/1263   |         |
|                                       |   |                                     |         |           |         |

ROAD

KAREN LANE

ROAD

BRIARWOOD RD

ID'S 2, 4, 5, 6, 7, 8, 9, 10, 11, 15  
47-033-15-330-3 and 47-033-15-2423-  
81, 80, 47, 46, 45, 44, 67, 77  
47-033-15-310-41  
(00008352)

George T. Faris and Nell Steele Faris, his  
wife, Rachel F. Shuttleworth, widow,  
Florence Faris, single, and Nell Faris Shinn,  
widow

Delaware Gas Company

12.5+%

820/128

1562

Delaware Gas Company

Union Carbide Corporation

845/221

Union Carbide Corporation

Creslenn Oil Company

897/286

898/258

Creslenn Oil Company

Deminex Oil Corporation

Delaware Secretary  
of State

Deminex Oil Corporation

Deminex U.S. Oil Company

Delaware Secretary  
of State

Deminex U.S. Oil Company

Southwest Exploration and Acquisition  
Company

Delaware Secretary  
of State

WV Department of  
Environmental Protection

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## Attachment to WW-6A1, J OSBORN HSOP 211

| ID Designation on Plat   | Grantor, Lessor, Assignor, etc.  | Grantee, Lessee, Assignee, etc.                                     | Royalty | Book/Page   | Acreage |
|--|--|---|---------|---|---------|
|  | Southwest Exploration and Acquisition Company<br>Southwest Royalties<br>HG Energy II Appalachia, LLC | Southwest Royalties<br>HG Energy II Appalachia, LLC<br>Mar Key, LLC |         | Delaware Secretary of State<br>1605/194<br>1611/595 |         |
| ID 3<br>47-033-15-330-4<br>(00008233)  | Charles Thomas Davis and Deborah A. Davis, husband and wife  | NRM Petroleum Corporation   | 12.5+%  | 1097/75   | 47      |
| RECEIVED<br>Office of Oil and Gas<br>OCT 09 2025<br>WV Department of<br>Environmental Protection | NRM Petroleum Corporation  | Natural Resources Management Corporation                            |         | Unrecorded<br>(WV Secretary of State)               |         |
|  | Natural Resources Management Corporation   | Edisto Resources Corporation  |         | Unrecorded<br>(WV Secretary of State)               |         |
|  | NRM Operating Company, LP, Edisto Resources, NRM 1984-B Income, Ltd., and NRM 1984-D Income, Ltd.    | Eastern American Energy Corporation                                 |         | 1216/558  |         |
|  | Eastern American Energy Corporation  | Energy Corporation of America                                       |         | 1441/1003<br>(also 59/879)                          |         |
|  | Energy Corporation of America<br>Greylock Production, LLC  | Greylock Production, LLC<br>Mar Key, LLC                            |         | 1603/1121<br>1607/855                               |         |
|  | G. Lester Douglas and Mariellen Douglas, husband and wife  | NRM Petroleum Corporation   | 12.5+%  | 1097/77   | 47      |
| ID 3<br>47-033-15-330-4<br>(00008232)  | NRM Petroleum Corporation  | Natural Resources Management Corporation                            |         | Unrecorded<br>(WV Secretary of State)               |         |
|  | Natural Resources Management Corporation   | Edisto Resources Corporation  |         | Unrecorded<br>(WV Secretary of State)               |         |
|  | NRM Operating Company, LP, Edisto Resources, NRM 1984-B Income, Ltd., and NRM 1984-D Income, Ltd.    | Eastern American Energy Corporation                                 |         | 1216/558  |         |

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| ID Designation on Plat  | Grantor, Lessor, Assignor, etc.                    | Grantee, Lessee, Assignee, etc.   | Royalty | Book/Page                         | Acreage |
|---|--|-----------------------------------|---------|-----------------------------------|---------|
|   | Eastern American Energy Corporation                | Energy Corporation of America     |         | 1441/1003<br>(also 59/879)        |         |
|   | Energy Corporation of America                      | Greylock Production, LLC          |         | 1603/1121                         |         |
|   | Greylock Production, LLC                           | Mar Key, LLC                      |         | 1607/855                          |         |
| ID 12<br>47-033-15-330-1<br>(00004068)  | Alden C and Betty J Rogers                         | Petroleum Development Corporation | 12.5+%  | 1059/946                          | 82      |
|   | PETROLEUM DEVELOPMENT CORP.                        | PDC Mountaineer LLC               |         | 1440/364                          |         |
|   | PDC Mountaineer LLC                                | River Ridge Energy, LLC           |         | 59/1263                           |         |
| ID'S 13, 14, 16<br>47-033-15-329-38, 38.1<br>47-033-15-309-75<br>(00003643)   | Sallie Faris et al                                 | Hope Natural Gas Company          | 12.5+%  | 347/441                           | 376     |
| <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> RECEIVED<br/>Office of Oil and Gas<br/>OCT 09 2025<br/>WV Department of<br/>Environmental Protection </div> | Hope Natural Gas Company                           | Consolidation Gas Supply Corp     |         | 903/179                           |         |
|   | Hope Natural Gas Company (MERGER)                  | Consolidation Gas Supply Corp     |         | 1567/262                          |         |
|   | Consolidation Gas Supply Corp                      | Hope Gas Inc                      |         | see wv secretary<br>of state site |         |
|   | Hope Gas Inc                                       | CNG Producing Company             |         | 1277/699                          |         |
|   | CNG Producing Company (name<br>change)             | Dominion Exploration & Production |         | 589/366                           |         |
|   | Dominion Exploration & Production                  | Antero Resources Appalachian Corp |         | 1423/1068                         |         |
|   | Antero Resources Appalachian Corp<br>(name change) | Antero Resources Corporation      |         | 2/914                             |         |
|   | Antero Resources Corporation                       | Mar Key LLC                       |         | 1785/1112                         |         |
|   | RXR (000009426)                                    | CSX Transportation INC            | 12.5+%  | 1794/1330                         | 22.8    |
|   |  | MAR KEY LLC                       |         |                                   |         |

ROAD  
ROAD  
ROAD  
ROAD

STONE ST  
GRAND AVE  
5TH ST  
UNNAMED ALLEY

4703306084

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| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003596) | WILLIAM G TETRICK JR ET AL           | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/27   | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003597) | VIRGINIA LONG HARTSOCK               | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1150/725  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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 Environmental Protection

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003599) | MARY LEE GRIFFITH TRUST              | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1157/303  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003601) | RAYMOND A LAWSON JR ET UX            | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/654  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003602) | KATHRYN E PAYNE ET AL             | SHELDON & SHELDON INC             | 12.5+%  | 1137/946  | 376     |
|  | SHELDON & SHELDON INC             | PETROLEUM DEVELOPMENT CORPORATION | <div> RECEIVED<br/>Office of Oil and Gas<br/>OCT 09 2025<br/>WV Department of<br/>Environmental Protection </div> | 1149/738  |         |
|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |   | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |   | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003603) | SHIRLEY GRIFFIN                   | SHELDON & SHELDON INC             | 12.5+%  | 1144/642  | 376     |
|  | SHELDON & SHELDON INC             | PETROLEUM DEVELOPMENT CORPORATION |   | 1149/738  |         |
|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |   | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |   | 59/1263   |         |

4703306084



**Attachment to WW-6A1, J OSBORN HSOP 211**

| ID Designation on Plat   | Grantor, Lessor, Assignor, etc.   | Grantee, Lessee, Assignee, etc.   | Royalty | Book/Page | Acreage |
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| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003604) | JEAN HAWKER AND FRANK M. HAWKER   | SHELDON & SHELDON INC             | 12.5+%  | 1144/644  | 376     |
|  | SHELDON & SHELDON INC             | PETROLEUM DEVELOPMENT CORPORATION |         | 1149/738  |         |
|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003605) | FRANCIS WATKINS                   | SHELDON & SHELDON INC             | 12.5+%  | 1144/646  | 376     |
|  | SHELDON & SHELDON INC             | PETROLEUM DEVELOPMENT CORPORATION |         | 1149/738  |         |
|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |

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| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003606) | JAMES A PAYNE & BEVERLY D PAYNE                             | PETROLEUM DEVELOPMENT<br>CORPORATION           | 12.5+%  | 1177/70             | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003607) | RACHEL NICKELL & ROY NICKELL                                | PETROLEUM DEVELOPMENT<br>CORPORATION           | 12.5+%  | 1155/524            | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003609) | KATHRYN CONRAD & CHARLES R CONRAD    | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1155/856  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003610) | ROBERT E PAYNE & KAREN PAYNE         | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1152/519  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003611) | THEODORE PAYNE & JUDY PAYNE          | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1152/684  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25,<br>26, 27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003613) | HELEN PAYNE                          | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1155/528  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003615) | MARY LEE WATSON & BETH J SUTTON                             | PETROLEUM DEVELOPMENT<br>CORPORATION           | 12.5+%  | 1139/31             | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003617) | LEOMA CHANDLER                       | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/342  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003619) | ERNESTINE WHITE & JOHN J WHITE    | PETROLEUM DEVELOPMENT CORPORATION | 12.5+%  | 1139/35   | 376     |
|  | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003621) | TERRY H BUTTS                        | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/338  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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| <div> ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br/> 27, 28, 29, 30, 31, 32, 33<br/> 47-033-15-309-49, 50, 51<br/> 47-033-16-2409-172, 160, 131, 132, 392,<br/> 79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br/> (00003622) </div> | MARTHA ROBERTS                    | PETROLEUM DEVELOPMENT CORPORATION | 12.5+%  | 1139/350  | 376     |
|   | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|   | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |
| <div> ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br/> 27, 28, 29, 30, 31, 32, 33<br/> 47-033-15-309-49, 50, 51<br/> 47-033-16-2409-172, 160, 131, 132, 392,<br/> 79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br/> (00003623) </div> | ELLENOR LAWSON WHITEMAN ET VIR    | PETROLEUM DEVELOPMENT CORPORATION | 12.5+%  | 1139/39   | 376     |
|   | PETROLEUM DEVELOPMENT CORPORATION | PDC MOUNTAINEER LLC               |         | 1440/364  |         |
|   | PDC MOUNTAINEER LLC               | River Ridge Energy, LLC           |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003625) | RUTH STANHOPE & GLENN R STANHOPE     | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/666  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003627) | NANCY LEE MUNN & JAMES R MUNN        | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1139/16   | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003629) | C GARNETT RITTER  | PETROLEUM DEVELOPMENT<br>CORPORATION           | 12.5+%  | 1150/717            | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION<br>PDC MOUNTAINEER LLC | PDC MOUNTAINEER LLC<br>River Ridge Energy, LLC |         | 1440/364<br>59/1263 |         |

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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003631) | W HOBERT PAYNE & MAVA PAYNE          | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1150/935  | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
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|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033-16-2409-172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(00003633) | RALPH HOOPER & MARY HOOPER           | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1150/1065 | 376     |
|  | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|  | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

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4703306004



**Attachment to WW-6A1, J OSBORN HSOP 211**

| ID Designation on Plat  | Grantor, Lessor, Assignor, etc.      | Grantee, Lessee, Assignee, etc.      | Royalty | Book/Page | Acreage |
|---|--------------------------------------|--------------------------------------|---------|-----------|---------|
| ID'S 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,<br>27, 28, 29, 30, 31, 32, 33<br>47-033-15-309-49, 50, 51<br>47-033- <del>16-2409</del> -172, 160, 131, 132, 392,<br>79, 69, 63, 57, 53.1, 50, 39, 51, and 1<br>(D0000090) | FRED H GOFF                          | PETROLEUM DEVELOPMENT<br>CORPORATION | 12.5+%  | 1134/1023 | 376     |
|   | PETROLEUM DEVELOPMENT<br>CORPORATION | PDC MOUNTAINEER LLC                  |         | 1440/364  |         |
|   | PDC MOUNTAINEER LLC                  | River Ridge Energy, LLC              |         | 59/1263   |         |

|      |                   |
|------|-------------------|
| ROAD | US ROUTE 50       |
| ROAD | BENEDUM DR RT 131 |
| ROAD | UNNAMED ALLEY     |
| ROAD | UNNAMED ALLEY     |
| ROAD | PARK ST           |
| ROAD | BROADWAY AVE      |
| ROAD | EAST OLIVE ST     |
| ROAD | UNNAMED ALLEY     |
| ROAD | EAST NORTH ST     |

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|   |                                   |             |        |           |     |
|---|-----------------------------------|-------------|--------|-----------|-----|
| ID'S 34<br>47-033-16-2405-320.1<br>404 and 103<br>'00009566 | TEDA J Family Limited Partnership | Mar Key LLC | 12.5+% | 1804/1189 | N/A |
|---|-----------------------------------|-------------|--------|-----------|-----|

4703306024

**Attachment to WW-6A1, J OSBORN HSOP 211**

| ID Designation on Plat  | Grantor, Lessor, Assignor, etc.         | Grantee, Lessee, Assignee, etc.             | Royalty | Book/Page | Acreage |
|---|---|---|---------|-----------|---------|
| ID'S - 35, 36, 37, 38, 39, 40, 41, 42, 43,<br>44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,<br>55, 56, 57, 58   |   |   |         |           |         |
| 47-033-16-2405-65, 64, 51, 28, 7, 3,  |   |   |         |           |         |
| 47-033-16-2403-292, 286, 279, 274, 266,<br>255, 244, 234, 211, 378, 377, 210, 330.2,<br>330, 331, 332, 335, 336, 337, 374, 373,<br>366, 18, 15, 14, 11, 10, | Olive A Willis & JH Willis              | West Fork Oil & Natural Gas                 | 12.5+%  | 122/431   | 250     |
| 47-033-16-2411-29, 30,<br>(00009359)  |   |   |         |           |         |
|   | West Fork Oil & Natural Gas             | Bridgeport Natural Gas & Oil Company        |         | 140/385   |         |
|   | Bridgeport Natural Gas & Oil Company    | Hope Natural Gas Company                    |         | 429/526   |         |
|   | Hope Natural Gas Company                | Consolidated Gas Supply Corporation         |         | 903/179   |         |
|   | Consolidated Gas Supply Corporation     | Hope Gas, INC                               |         | 589/366   |         |
|   | Hope Gas, INC                           | CNG Producing Company                       |         | 1277/699  |         |
|   | CNG Producing Company                   | Dominion Exploration & Production, Inc.     |         | 58/366    |         |
|   | Dominion Exploration & Production, Inc. | Antero Resources Appalachian<br>Corporation |         | 1423/1068 |         |

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**Attachment to WW-6A1, J OSBORN HSOP 211**

| ID Designation on Plat | Grantor, Lessor, Assignor, etc.          | Grantee, Lessee, Assignee, etc. | Royalty | Book/Page | Acreage |
|------------------------|--|---------------------------------|---------|-----------|---------|
| ✓                      | Antero Resources Appalachian Corporation | Antero Resources Corporation    |         | 2/914     |         |
|                        | Antero Resources Corporation             | Mar Key LLC                     |         | 1785/1112 |         |

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People Powered. Asset Strong.

October 7, 2025

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

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Office of Oil and Gas

OCT 09 2025

WV Department of  
Environmental Protection

**RE: J. Osborn #211 (47-033-06084) - Expedited Modification Due to Well Extension**

Dear Mr. Brewer,

Enclosed please find the permit modification for the J. Osborn #211 (47-033-06084).

The wellhead location remains the same as the current permit. The well is being extended to the planned lateral length of 12,579 feet.

Revised documents attached include the revised WW-6B, wellbore schematic with plan, plat, WW-6A1, and area of review. The expedited modification review fee is also included.

Should you have any questions or need any additional information, please feel free to contact me by phone or email.

Sincerely,

A handwritten signature in blue ink that reads 'Emily Glick'.

Emily Glick  
Geologist & Permitting Specialist  
(c) 724-759-9612  
(e) eglick@arsenalresources.com

CK # 0000204809

AMT \$7,500.00

6031 Wallace Road Ext., Suite 200  
Wexford, PA 15090  
P - 724-940-1100  
F - 800-428-0981

www.arsenalresources.com 10/24/2025