

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, January 8, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for Serafin Ortiz MSH 1H 47-051-02508-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

. Martin James Chie

Operator's Well Number: Serafin Ortiz MSH 1H Farm Name: Frank J & Lori A Longwell U.S. WELL NUMBER: 47-051-02508-00-00 Horizontal 6A New Drill Date Issued: 1/8/2024

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



7 0 5 1 0 2 5 0 8 API NO. 47-051 -

OPERATOR WELL NO. Serafin Ortiz MSH 1H / Well Pad Name: Serafin Ortiz

01/12/2024

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

| 1) Well Operator: SWN Production Co., LLC 494512924 051-Marshal 13-Union 486-Moundsville |
|---|
| Operator ID County District Quadrangle |
| 2) Operator's Well Number: Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz |
| 3) Farm Name/Surface Owner: Frank & Lori Longwell Public Road Access: Grand View Road |
| 4) Elevation, current ground: <u>1279'</u> Elevation, proposed post-construction: <u>1279'</u> |
| 5) Well Type (a) Gas <u>x</u> Oil Underground Storage |
| Other |
| (b)If Gas Shallow <u>x</u> Deep |
| Horizontal × |
| 6) Existing Pad: Yes or No Yes |
| 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 6241', Target Base TVD- 6298', Anticipated Thickness- 57', Associated Pressure- 4094 |
| 8) Proposed Total Vertical Depth: 6286' |
| 0) Formation at Total Vertical Depth: Marcellus / |
| 10) Proposed Total Measured Depth: 22162' |
| 11) Proposed Horizontal Leg Length: 16,292.87' |
| 12) Approximate Fresh Water Strata Depths: 414' |
| 13) Method to Determine Fresh Water Depths: Salinity Profile |
| 14) Approximate Saltwater Depths: 1168' Salinity Profile / |
| 15) Approximate Coal Seam Depths: 763' / |
| 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of. |
| 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: |
| Strader Gower 10/31/2023 |
| Page 1 of 3 |

WW-6B (04/15)

4705102508

API NO. 47-051 -

OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

-

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

| | 1 | 1 | 1 | | r | | |
|--------------|--------------|--|----------|----------------------------------|---|------------------------------------|---|
| ТҮРЕ | Size (in) | <u>New</u> <u>or</u> <u>Used</u> | Grade | <u>Weight per ft.</u> (lb/ft) | <u>FOOTAGE: For</u> <u>Drilling (ft)</u> | INTERVALS: Left in Well (ft) | <u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS |
| Conductor | 20" | New | J-55 | 94# | 136' | 136 / | CTS |
| Fresh Water | 13 3/8" | New | J-55 | 54.4# | 793' | 793' / | 913 sx/CTS |
| Coal | See | Surface | Casing | ******* | | | |
| Intermediate | 9 5/8" | New | J-55 | 36# | 2087' | 2087' | 802 sx/CTS |
| Production | 5 1/2" | New | P-110 HP | 20# | 22162' | 22162' | Tail 4074sx/ 100' Inside intermediate |
| Tubing | | | | _ | | | |
| Liners | | | | | | | |

| TYPE | Size (in) | <u>Wellbore</u> <u>Diameter (in)</u> | <u>Wall</u> <u>Thickness</u> <u>(in)</u> | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | <u>Cement</u> <u>Yield</u> (cu. ft./k) |
|--------------|-----------|---|--|-------------------------|--|----------------|--|
| Conductor | 20" | 30" | 0.25 | 2120 | 81 | Class A | 1.20/30% Excess |
| Fresh Water | 13 3/8" | 17.5" | 0.380 | 2730 | 633 | Class A | 1.20/30% Excess |
| Coal | See | Surface | Casing | | | ~ | |
| Intermediate | 9 5/8" | 12 1/4" | 0.395 | 3950 | 1768 | Class A | 1.19/40% Excess |
| Production | 5 1/2" | 8 3/4"-8 1/2" | 0.361 | 14360 - | 10500 | Class A | 1.19/5% Excess |
| Tubing | | | | | | | |
| Liners | | | | | 0 | RECEIVER | |

DEC 05 2023

WV Department of Environmental Protection

PACKERS

Kind: Sizes: Depths Set: Solution 120/2023

WW-6B (10/14)

Well Pad Name: Serafin Ortiz

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

| 21) Total Area to be disturbed | l, including roads, stockp | oile area, pits, etc., (acres): 8. | .2 |
|--------------------------------|----------------------------|------------------------------------|----|
|--------------------------------|----------------------------|------------------------------------|----|

22) Area to be disturbed for well pad only, less access road (acres): 3.87

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

| | RECEIVEL | |
|---|--------------------------|--|
| | Office of Oil and Gas | |
| 24) Describe all cement additives associated with each cement type: | DEC 0 5 2020 | |
| See Attachment *** | DEC 0 0 2023 | |
| | WV Department of | |
| | European in the internet | |

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

Page 3 of 3 01/12/2024

| (4/16) | API Number 47 - 051 |
|---|---|
| | Operator's Well No. Serafin Ortiz MSH 1H |
| | VEST VIRGINIA |
| | RONMENTAL PROTECTION F OIL AND GAS |
| OFFICE OF | S OIL AND GAS |
| FLUIDS/ CUTTINGS DISPO | DSAL & RECLAMATION PLAN |
| Operator Name_SWN Production Co., LLC | OP Code 494512924 |
| Watershed (HUC 10) Upper Ohio South | Quadrangle Moundsville |
| Do you anticipate using more than 5,000 bbls of water to complete | ete the proposed well work? Yes No |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: | |
| Will a synthetic liner be used in the pit? Yes | No If so, what ml.? |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application | |
| Underground Injection (UIC Permit | NumberVarious Approved Facilities) |
| Reuse (at API Number At the next antice | |
| Off Site Disposal (Supply form WW | |
| Other (Explain_recovery and solidification) | tion on site |
| | |
| Will closed loop system be used? If so, describe: Yes-See Atta | achment 3A |
| Drilling medium anticipated for this well (vertical and horizonta | l)? Air, freshwater, oil based, etcAir drill to KOP, fluid drill with SOBM from KOP to TD |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic, petroleum, etc. | nthetic Oil Base |
| Additives to be used in drilling medium? Attachment 3B | RECFIVED |
| Drill cuttings disposal method? Leave in pit, landfill, removed | offsite, etc. landfill Office of Oil and Gas |
| -If left in pit and plan to solidify what medium will be | used? (cement, lime, sawdust) |
| -Landfill or offsite name/permit number? Meadowfill SWF Apex Sanitary Landfill Ub-U8438, Brooke Co SV | - 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 |
| The standard and the standard of the standard | as of any load of drill outtings or associated waste rejected at ar |

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

| Company Official Signature Button Woody Company Official (Typed Name) Brittany Woody | |
|--|------|
| Company Official Title_Staff Regulatory Specialist | |
| Subscribed and sworn before me this 22 day of June , 20 <i>Charter Blankewith</i> , 20 Notary Public, State Of West Virg Elizabeth Blankenship 941 Simpson Run Road Weston WV 26452 Wy commission expires June 23, 2 Wy commission expires June 24, | inia |

WW O

Form WW-9

Operator's Well No. Serafin Ortiz MSH 1H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 8.2 Prevegetation pH Lime as determined by pH test min.2 Tons/acre or to correct to pH _____3.87 Fertilizer type 10-20-20 Fertilizer amount_600/500 lbs/acre Mulch Hay/Straw Tons/acre Seed Mixtures Permanent Temporary lbs/acre Seed Type lbs/acre Seed Type Attachment 3C

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

| Plan Approved by: | (nu |
|----------------------------|---|
| Comments: | RECEIVED Gas |
| | Office of the 2023 |
| | RECEIVED Office of Office of Office of Office Offic |
| | WV Dapartinem of WV Dapartinem of Environmental Protection |
| | Environmen |
| | |
| | |
| | |
| Title: Oil & Gas Inspector | Date: 7/20/2023 |
| | es ()No |
| | |

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



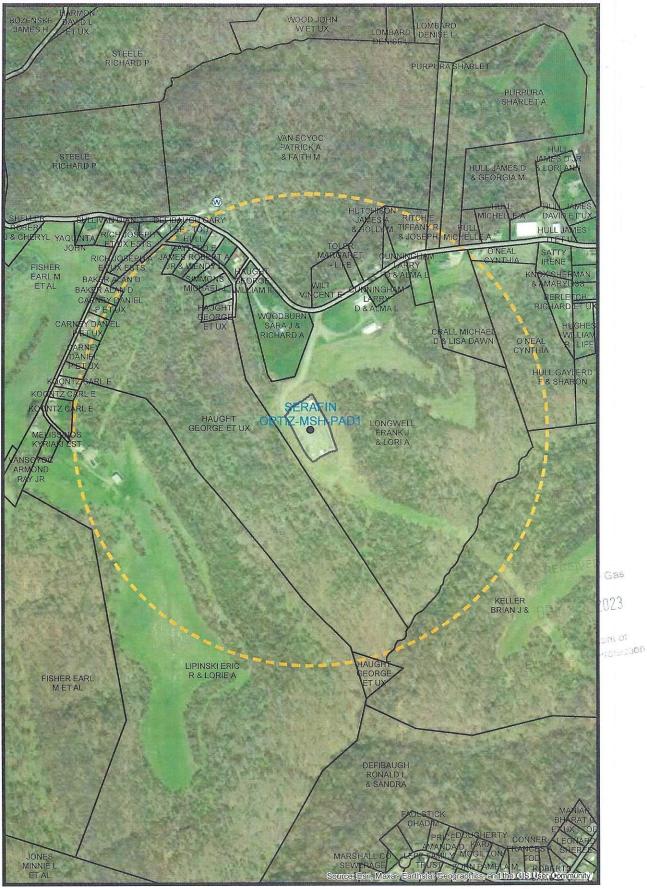
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX WELL NAME: Serafin Ortiz MSH 1H Moundsville QUAD Union DISTRICT MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

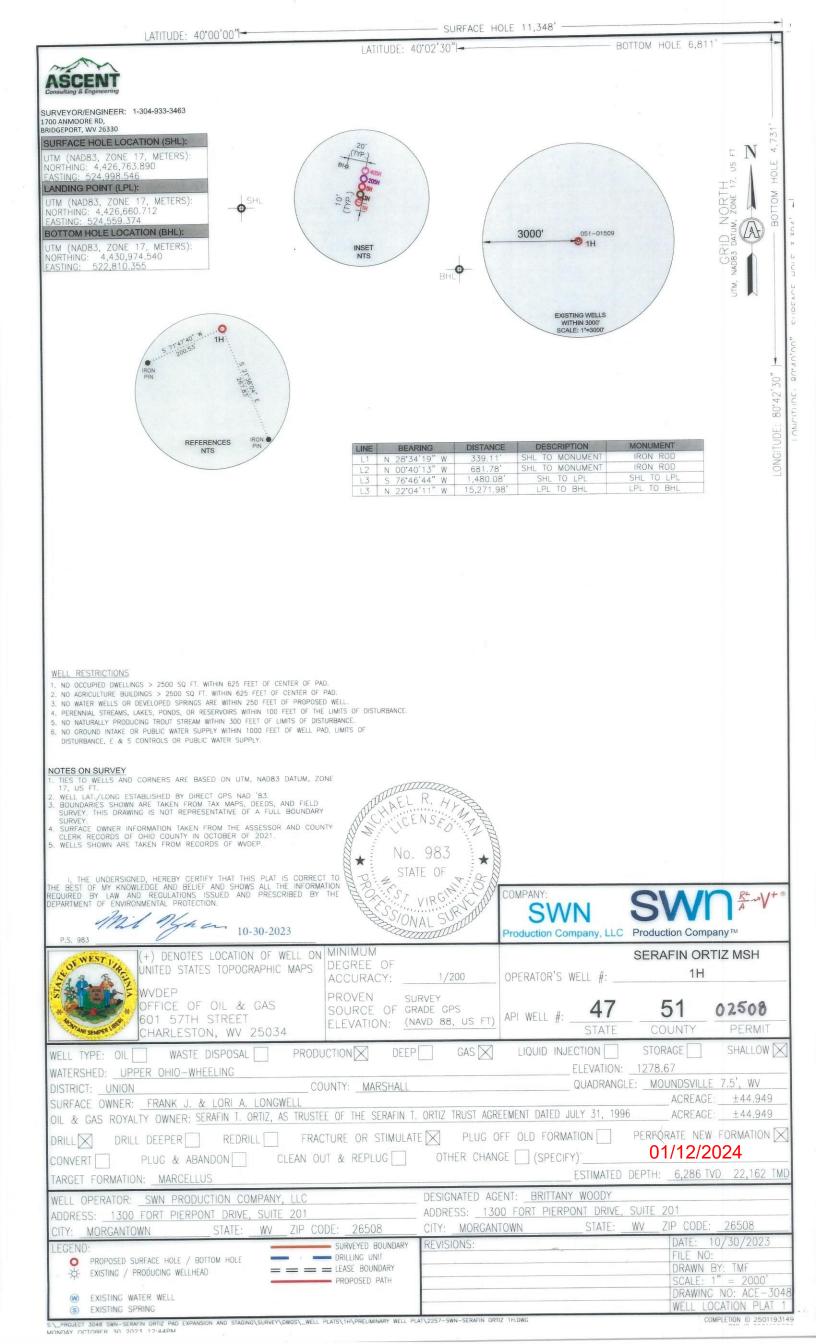
| Name: <u>Brittany Woody</u> Buttany Woody | Date: 6/19/2023 |
|--|---|
| Title: Staff Regulatory Specialist | SWN Production Co., LLC |
| Approved by: | SWN Production Co., LLC 2023 DEC Date: 7/20/2023 |
| Name: STRADER GOVER | Date: 1/20/2023 WY coment |
| Title: Oild GAS Inspector | |
| Approved by: | |
| Name: | Date: |
| Title: | |
| | |

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

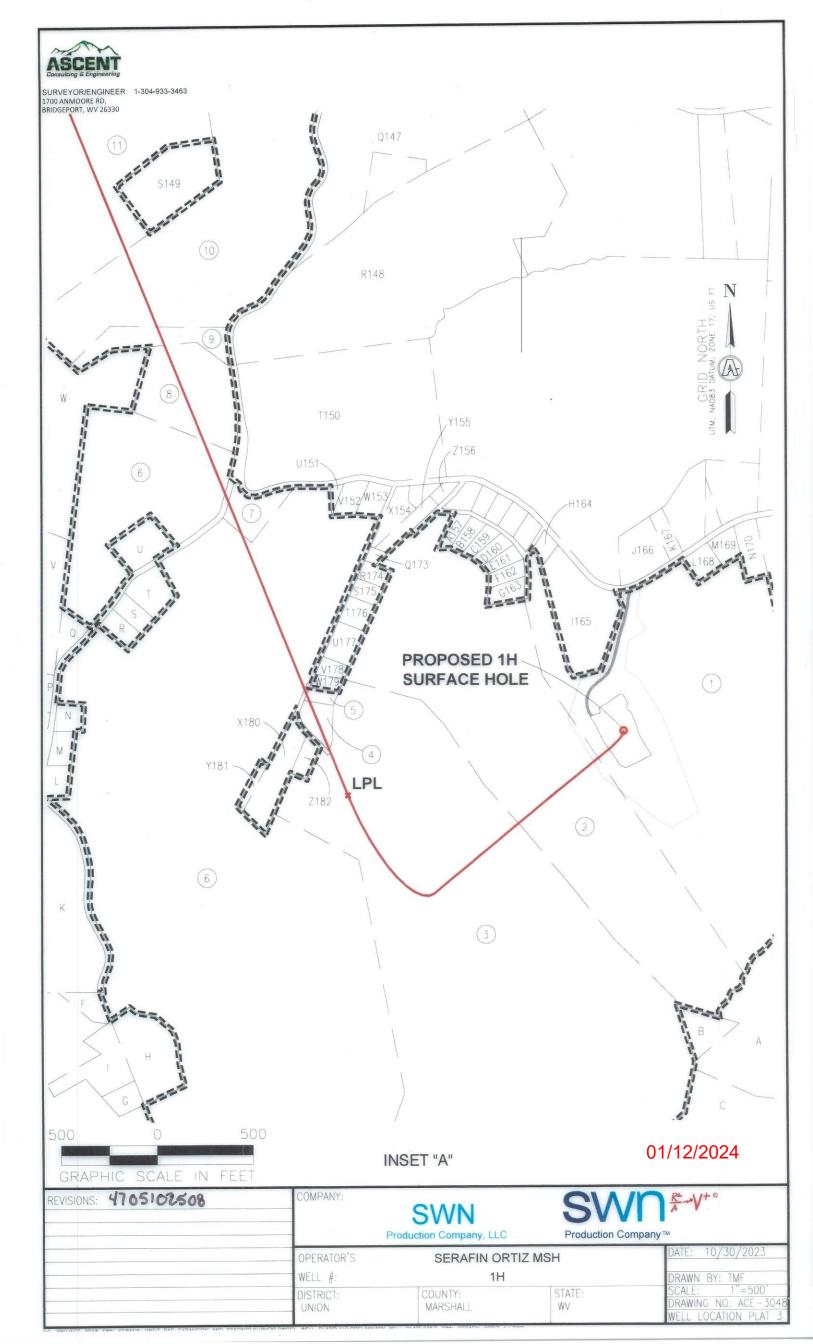


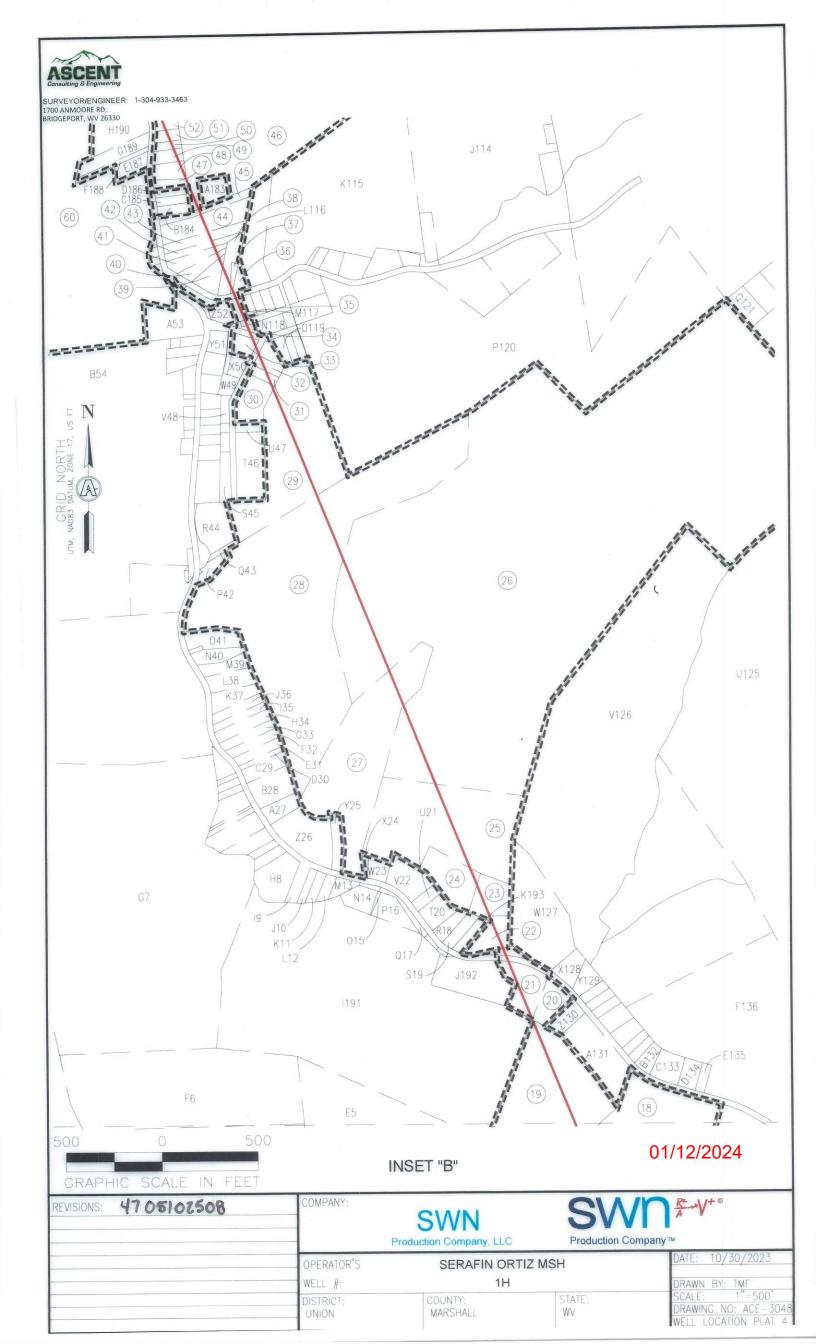
The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

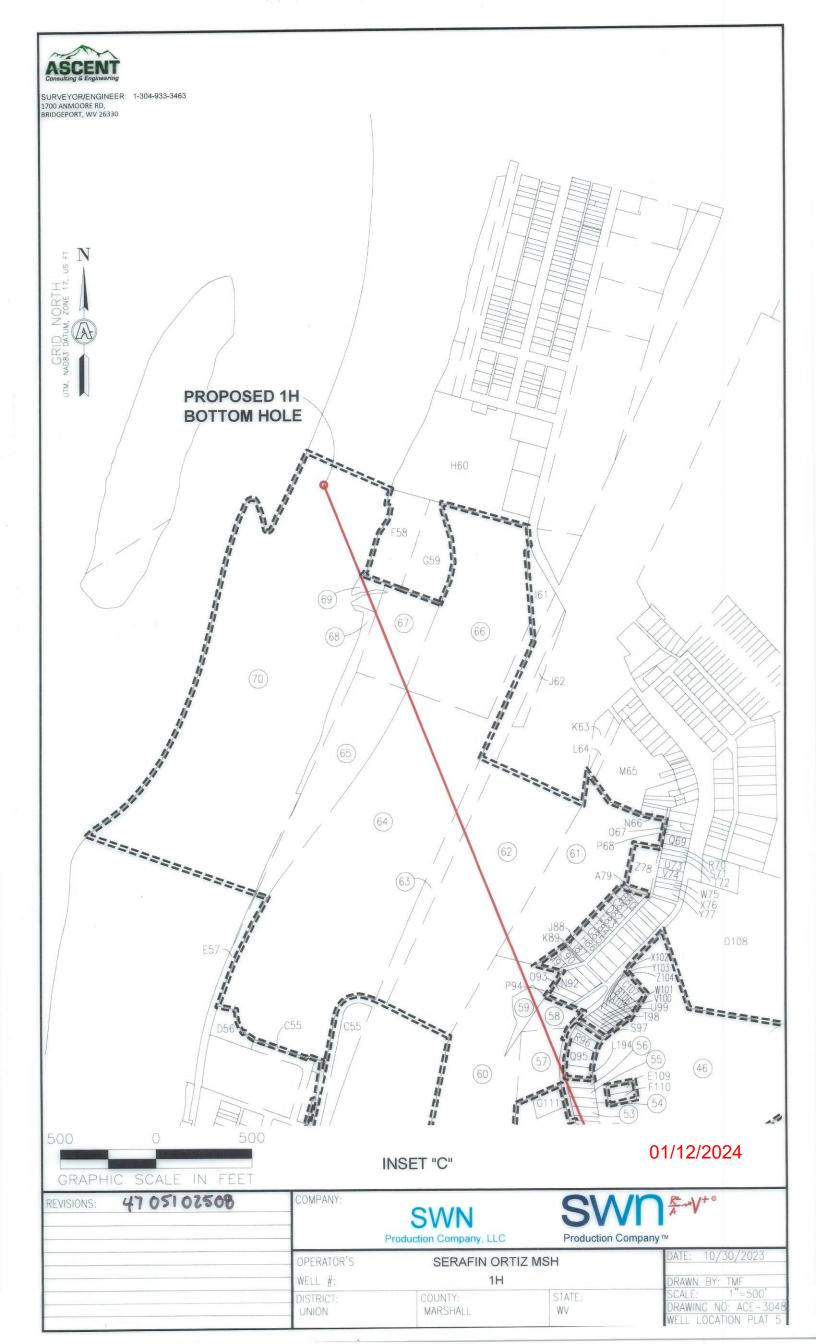
| Structure | Proximi | ty Map | Well Pa Serafin | | z | | | County: Wetzel |
|------------------------|-----------------|---------------|--------------------|-----|-----|-------------------|-----|-------------------|
| Map by: youngst | Date: 6/15/2023 | Water Sources | | | | 1 inch = 464 feet | 1 | Å |
| Nad 83 UTM Z one 17 | SWN | Water Well | 0 | 165 | 330 | 660 | 990 | 01/12/2(|











ASCENT Consulting & Engineering

SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

| TRACT | WELL BORE TRACTS SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCEL |
|-------|---|------------|
| 1 | LONGWELL FRANK J & LORI A(S) / SERAFIN T. ORTIZ, AS TRUSTEE OF THE SERAFIN T. ORTIZ TRUST AGREEMENT DATED JULY 31, 1996 (R) | 13-6-49 |
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| 2 | HAUGHT GEORGE ET UX | 13-6-51.1 |
| 3 | LIPINSKI ERIC R & LORIE A | 13-6-51 |
| 4 | KOONTZ CARL E | 13-6B-31 |
| 5 | KOONTZ CARL E | 13-6B-30 |
| 6 | FISHER EARL M ET AL | 13-6-53 |
| 7 | HOLMES CHERYL ANN | 13-6-53.1 |
| 8 | FISHER DANIEL | 13-6-12 |
| 9 | KLIMA KATHLEEN M | 13-6-11 |
| 10 | BOZENSKE JAMES H | 13-6-10.1 |
| 11 | ARBOGAST CLIFFORD C | 13-6-10 |
| 12 | PORTER CHARLES E JR ET UX | 13-6-9.1 |
| 13 | CRALL SUZANNE ELIZABETH - LIFE | 13-6-9 |
| 14 | VENSKOSKE FLOYD B JR ET UX | 13-6-8 |
| 15 | OHIO COUNTY COAL RESOURCES INC | 13-5-46.3 |
| 16 | OHIO COUNTY COAL RESOURCES INC | 13-5-46.8 |
| 17 | MAAS WALTER J & KAREN V | 13-5-44.1 |
| 18 | OHIO COUNTY COAL RESOURCES INC | 13-5-44 |
| 19 | OHIO COUNTY COAL RESOURCES INC | 13-5-46.4 |
| 20 | WENDEL ROBERT LEE ET UX | 13-5A-39 |
| 21 | OHIO COUNTY COAL RESOURCES INC | 13-5A-40 |
| 22 | WARBLE STEVEN M SR | 13-5A-21 |
| 23 | WARBLE STEVEN M SR | 13-5A-20 |
| 24 | PARKER PETER | 13-5-4.1 |
| 25 | OKEL IRENE J - TOD | 13-5-4 |
| 26 | OHIO COUNTY COAL RESOURCES INC | 13-5-2 |
| 27 | OKEL IRENE J - TOD | 13-5-3 |
| 28 | OHIO COUNTY COAL RESOURCES INC | 13-5-1 |
| 29 | OHIO COUNTY COAL RESOURCES INC | 13-1D-51 |
| 30 | ABERCROMBIE ROBERT ANDREW ET UX | 13-1D-48 |
| 31 | SALISBURY DAVID W & CHRISTINA | 13-1D-47.2 |
| 32 | SALISBURY DAVID W & CHRISTINA | 13-1D-47.1 |
| 33 | OHIO COUNTY COAL RESOURCES INC | 13-1D-40.1 |
| 34 | OHIO COUNTY COAL RESOURCES INC | 13-1D-41 |
| 35 | OHIO COUNTY COAL RESOURCES INC | 13-1D-13 |
| 36 | MORGAN JOSEPH H JR | 13-1D-16 |

| TRACT | SURFACE OWNER (S) | TAX PARCEL |
|-------|--------------------------------|------------|
| 37 | MORGAN JOSEPH H JR | 13-1D-17.1 |
| 38 | OHIO COUNTY COAL RESOURCES INC | 13-1D-17 |
| 39 | OHIO COUNTY COAL RESOURCES INC | 1-5-37 |
| 40 | BRINKMAN LINDA M | 1-5-36 |
| 41 | CHIEFFALO TONI A | 1-5-35 |
| 42 | MEREDITH JAMES E | 1-5-34 |
| 43 | MEREDITH JAMES E | 1-5-33 |
| 44 | MEREDITH JAMES E | 1-5-32 |
| 45 | VESSELS CARLA M | 1-5-31 |
| 46 | OHIO COUNTY COAL RESOURCES INC | 1-5-1 |
| 47 | VESSELS CARLA M | 1-5-27 |
| 48 | OHIO COUNTY COAL RESOURCES INC | 1-5-26 |
| 49 | MATHENY WILLIAM E & PRISCILLA | 1-5-25 |
| 50 | VESSELS CARLA M | 1-5-24.1 |
| 51 | VESSELS CARLA M | 1-5-24 |
| 52 | VESSELS CARLA M | 1-5-23 |
| 53 | MCCALLISTER DEBORAH S | 1-5-22 |
| 54 | MCCALLISTER DEBORAH S | 1-5-21 |
| 55 | HISSAM LOUIS B ET UX | 1-5-20 |
| 56 | PARSONS SCOTT A | 1-5-19 |
| 57 | BENWOOD CITY OF | 1-6-3 |
| 58 | BENWOOD CITY OF | 1-6-4 |
| 59 | OHIO COUNTY COAL RESOURCES INC | 1-6-5.3 |
| 60 | FIRST CHURCH OF GOD | 1-6-5 |
| 61 | OHIO COUNTY COAL RESOURCES INC | 1-4-107 |
| 62 | W VA DEPT OF HIGHWAYS | U.S. 250 |
| 63 | CSX TRANSPORTATION INC | RAILROAD |
| 64 | OHIO COUNTY COAL RESOURCES INC | 1-4A-1 |
| 65 | OHIO COUNTY COAL RESOURCES INC | 1-4A-10 |
| 66 | IMI FABI LLC | 1-2-158 |
| 67 | IMI FABI LLC | 1-4A-9 |
| 68 | OHIO COUNTY COAL RESOURCES INC | 1-4A-6 |
| 69 | IMI FABI LLC | 1-4A-11 |
| 70 | STATE OF WEST VIRGINIA | OHIO RIVER |

| REVISIONS: 4705102508 | COMPANY: | SWN Production Company, LLC | SW Production Con | |
|-----------------------|--------------------|--------------------------------|----------------------|--|
| | OPERATOR'S | SERAFIN ORT | IZ MSH | DATE: 10/30/2023 |
| | WELL #: | 1H | | DRAWN BY: TMF |
| | DISTRICT: UNION | COUNTY: MARSHALL | STATE: WV | SCALE: N/A DRAWING NO: ACE-3048 WELL LOCATION PLAT 6 |

| A A |
|--------------------------|
| MA PL |
| ASCENT |
| Consulting & Engineering |

SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

| A B C C C C C C C C C C C C C C C C C C | SURFACE OWNER KELLER BRIAN J & COOK DAVID J & ALICE M - TOD HAUGHT GEORGE ET UX DEFIBAUGH RONALD L & SANDRA STEPHENS JAMES J & JAMES DANIEL JONES MICHAEL BRENT HENDERSON JOSEPH E STEVEY LARRY J ET UX QUIGLEY DAVID L & KELLY J STEVEY LARRY J ET UX GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A BOZENSKE JEFFREY T & JESSICA L | TAX PARCEL 13-6-50 13-11-27.1 13-11-25 13-6-55 13-6-54 13-6-54.2 13-6-53.14 13-6-54.3 13-6-53.14 13-6-53.14 13-6-53.14 13-6-53.14 13-6-53.11 13-6-53.5 13-6-53.6 13-6-73.4 13-6-76 |
|---|---|--|
| A B C C C C C C C C C C C C C C C C C C | TOD HAUGHT GEORGE ET UX DEFIBAUGH RONALD L & SANDRA STEPHENS JAMES J & JAMES DANIEL JONES MICHAEL BRENT HENDERSON JOSEPH E STEVEY LARRY J ET UX QUIGLEY DAVID L & KELLY J STEVEY LARRY J ET UX GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-50.1 13-11-27.1 13-11-25 13-6-55 13-6-54 13-6-54.2 13-6-53.14 13-6-53.14 13-6-53.14 13-6-53.9 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
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| F G H I J K L M N O P Q R | HENDERSON JOSEPH E STEVEY LARRY J ET UX QUIGLEY DAVID L & KELLY J STEVEY LARRY J ET UX GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-54 13-6-54.2 13-6-53.14 13-6-54.1 13-6-54.3 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
| G | STEVEY LARRY J ET UX QUIGLEY DAVID L & KELLY J STEVEY LARRY J ET UX GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-54.2 13-6-53.14 13-6-54.1 13-6-54.3 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
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| I | STEVEY LARRY J ET UX GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-54.1 13-6-54.3 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
| J K L M N O P Q R | GEORGE PAUL M & MEGAN POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-54.3 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
| K L M N O P Q R | POLING WENDY LEE RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-53.9 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
| L M N O P Q R | RODAK MICHAEL J & LADEAN A LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-53.5 13-6-53.6 13-6-53.11 13-6-73.4 |
| M N O P Q R | LOY MARTA J THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-53.6 13-6-53.11 13-6-73.4 |
| N O P Q R | THOMAS TERRENCE M & BRENDA MARTIN EDWARD B ARMOUR DAVID A | 13-6-53.11 13-6-73.4 |
| O P Q R | MARTIN EDWARD B ARMOUR DAVID A | 13-6-73.4 |
| P Q R | ARMOUR DAVID A | |
| Q R | | 13-6-76 |
| R | BOZENSKE JEFFREY T & JESSICA L | 13-0-70 |
| | | 13-6-53.7 |
| | RICE MARK G ET UX | 13-6-53.12 |
| S | BARRY DAVID E & CHRISTY A | 13-6-53.3 |
| т | HOLMES CHERYL ANN | 13-6-53.13 |
| U | COFFIELD JEFFERY & CRYSTAL | 13-6-53.15 |
| v | MINOR CHARLES D & LISA M | 13-6-69.3 |
| w | MINOR THOMAS C - TOD | 13-6-69 |
| x | COFFIELD DAWN & RONALD J | 13-6-6 |
| Y | WORKMAN ALBERT L ET UX | 13-6-7 |
| z | TOLPA HILARY J EST | 13-5-45 |
| A1 | MAAS WALTER J ET UX | 13-5-46 |
| B2 | MAAS DANIEL E | 13-5-46.7 |
| C3 | TAYLOR BART W & MARTIN ALICIA | 13-5-46.9 |
| D4 | MAAS WALTER J & KAREN V ET AL | 13-5-46.11 |
| E5 | MAAS WALTER J ET UX | 13-5-46.6 |
| F6 | OHIO COUNTY COAL RESOURCES INC | 13-5-47 |
| G7 | OHIO COUNTY COAL RESOURCES INC | 13-5-48 |
| H8 | BUSH HOPE & CODY | 13-5A-47 |
| 19 | BROWN WALTER E | 13-5A-46 |
| J10 | PYLE LISA ANN | 13-5A-45 |
| К11 | SCHOTT PAULETTE F | 13-5A-44 |
| L12 | KESSELRING GLENN & LIDA | 13-5A-44.1 |
| M13 | MILLER NATHANIEL | 13-5A-43 |
| N14 | MILLER NATHANIEL | 13-5A-42 |
| 015 | MILLER NATHANIEL | 13-5A-42.2 |
| P16 | MILLER NATHANIEL | 13-5A-42.3 |
| Q17 | MILLER NATHANIEL | 13-5A-42.4 |
| R18 | OHIO COUNTY COAL RESOURCES INC | 13-5A-17 |
| \$19 | WARBLE STEVEN M SR | 13-5A-18 |
| T20 | CRIDER TERYL T - CRONK MARK | 13-5A-16 |
| U21 | CRIDER TERYLT - CRONK MARK | 13-5A-16.1 |
| V22 | OKEL IRENE J -TOD | 13-5A-15 |
| | OKEL IRENE J -TOD | 13-5A-14 |
| W23 | OKEL IRENE J - TOD | 13-5A-14.1 |
| X24 | CAMPBELL SHARON L - TOD | 13-5A-13 |
| Y25 Z26 | OKEL IRENE J -TOD | 13-5A-12 |
| | HUMPHREY DALE | 13-5A-11 |
| A27 | HUMPHREY DALE E JR | 13-5A-10 |
| B28 | | 13-5A-9 |
| C29 | DEBENI JANET | 13-5A-9 |
| D30 E31 | DEBENI JANET DE BENI JANET K | 13-5A-8 13-5A-7 |

| ACT | SURFACE OWNER | TAX PARCEL |
|------|--|------------|
| 32 | BROWN KIMBERLY J | 13-5A-6 |
| 33 | KNOLLINGER DAVID K | 13-5A-5 |
| 134 | SHANER THEODORE B | 13-5A-4 |
| 135 | OHIO COUNTY COAL RESOURCES INC | 13-5A-3 |
| 136 | OHIO COUNTY COAL RESOURCES INC | 13-5A-2 |
| (37 | OHIO COUNTY COAL RESOURCES INC | 13-5A-1 |
| L38 | OHIO COUNTY COAL RESOURCES INC | 13-1D-59 |
| V139 | OHIO COUNTY COAL RESOURCES INC | 13-1D-58 |
| N40 | OHIO COUNTY COAL RESOURCES INC | 13-1D-57 |
| 041 | OHIO COUNTY COAL RESOURCES INC | 13-1D-56 |
| P42 | PARKER PETER | 13-1D-34 |
| Q43 | J & E ENTERPRISES LLC | 13-1D-54 |
| R44 | DORSCH THOMAS W & NORMA J | 13-1D-52 |
| \$45 | GARNET GAS CORP | 13-1D-35 |
| T46 | ABERCROMBIE ROBERT ANDREW ET UX | 13-1D-50 |
| U47 | BARR JANYTHE EST | 13-1D-49 |
| | BOMMERJOSEPH | 13-1D-38 |
| V48 | WISE JEFFREY M & CHRISTINA M | 13-1D-39 |
| W49 | OHIO COUNTY COAL RESOURCES INC | 13-1D-40 |
| X50 | | 13-1D-40.1 |
| Y51 | OHIO COUNTY COAL RESOURCES INC | 13-1D-40.1 |
| Z52 | BLOOMFIELD LAWRENCE | 13-1D-18 |
| A53 | FIRST CHURCH OF GOD | |
| B54 | FALLOVA MICHAEL A - TOD | 13-1-45 |
| C55 | OHIO COUNTY COAL RESOURCES INC | 1-4A-3 |
| D56 | BENWOOD CITY OF | 1-4A-7 |
| E57 | OHIO COUNTY COAL RESOURCES INC | 1-4A-10.1 |
| F58 | IMI FABI LLC | 1-2-155.6 |
| G59 | IMI FABI LLC | 1-2-161 |
| H60 | ZEMEX FABI BENWOOD LLC | 1-2-155 |
| 161 | MANUFACTURERS LIGHT & HEAT CO | 1-2-155.2 |
| J62 | OHIO COUNTY COAL RESOURCES INC | 1-4A-5 |
| K63 | SMALL LAND HOLDINGS CO OF WV LLC | 1-4-105 |
| L64 | SMALL LAND HOLDINGS CO OF WV LLC | 1-4-104 |
| M65 | DINGER BLANCHE S | 1-4-108 |
| N66 | LEACH THOMAS RAY | 1-4-99 |
| 067 | GREEN SHARON L | 1-4-64.1 |
| P68 | NETTLES CASSAUNDRAE | 1-4-65 |
| Q69 | NETTLES CASSAUNDRAE | 1-4-66 |
| R70 | NETTLES CASSAUNDRAE | 1-4-67 |
| \$71 | ROAR RICHARD | 1-4-68 |
| T72 | ROAR RICHARD | 1-4-69 |
| U73 | SKVARKA AMANDA L & ROBERT A | 1-4-70 |
| V74 | LUFFT JOHN MICHAEL | 1-4-71 |
| | PREBEG FRANK JAY | 1-4-72 |
| W75 | DOTSON MICHAEL S | 1-4-73 |
| X76 | BAIER CYNTHIA L | 1-4-74 |
| Y77 | RENSHAW ALFRED J JR & GLORIA J - TOD | 1-4-98 |
| Z78 | | 1-4-107.3 |
| A79 | DI LORETTA ROBERT M & CAROL A DI LORETTA ROBERT M & CAROL A | 1-4-107.2 |
| B80 | | 1-4-107.1 |
| C81 | MCKOWN DENISE S & WILLIAM III | 1-4-107.1 |
| D82 | MCELWAIN LORI A | 1-4-97 |
| E83 | BUTTS RONALD M & TINA M | - |
| F84 | BAUM BRITNEY | 1-4-95 |
| G85 | BIDKA CATHY R ET AL | 1-4-94 |
| H86 | MINOR CHRISTOPHER ET UX | 1-4-107.4 |
| 187 | MINOR CHRISTOPHER & CYNTHIA | 1-4-93 |
| J88 | CONJESKI NORMA JEAN EST | 1-4-107.8 |
| K89 | KUCA LOUIS R & STELLA L | 1-4-107.7 |
| L90 | KUCA LOUIS R & STELLA L | 1-4-107.5 |
| M91 | KUCA LOUIS R & STELLA L | 1-4-107.6 |

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

| REVISIONS: 4705102508 | COMPANY: | SWN Production Company, LLC | SN Production C | company™ |
|-----------------------|--------------------|--------------------------------|---------------------------|---|
| | OPERATOR'S | SERAFIN ORT | IZ MSH | DATE: 10/30/2023 |
| | | 1H | | DRAWN BY: TMF |
| | DISTRICT: UNION | COUNTY: MARSHALL | STATE: WV | SCALE: N/A DRAWING NO: ACE-304 WELL LOCATION PLAT |



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

| TRA | SOUTHER OWNER | TAX PARCE |
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| N92 | The second contract of the second sec | 1-4-90 |
| 093 | Sint COD CITI DI | 1-4-91 |
| P94 | | 1-4-92 |
| Q95 | and an and a standard a standard a | 1-5-17 |
| R96 | MORRIS BRIAN N & VIRGINIA E | 1-5-16 |
| \$97 | KUCA EDWARD M JR & GERALDINE | 1-5-15 |
| T98 | BENWOOD CITY OF | 1-5-14 |
| U99 | BENWOOD CITY OF | 1-5-13 |
| V100 | BENWOOD CITY OF | 1-5-12 |
| W10 | 1 BENWOOD CITY OF | 1-5-11 |
| X102 | BENWOOD CITY OF | 1-5-10 |
| Y103 | BENWOOD CITY OF | 1-5-9 |
| Z104 | BENWOOD CITY OF | 1-5-8 |
| A105 | BENWOOD CITY OF | 1-5-7 |
| B106 | BENWOOD CITY OF | 1-5-6 |
| C107 | BENWOOD CITY OF | 1-5-5 |
| D108 | | 1-5-1 |
| E109 | KUCA EDWARD M JR & GERALDINE | 1-5-4 |
| F110 | KUCA EDWARD M JR & GERALDINE | 1-5-3 |
| G111 | RICHARDS JAMES T | A REAL PROPERTY AND A REAL |
| H112 | OHIO COUNTY COAL RESOURCES INC | 1-6-2 |
| 1113 | OHIO COUNTY COAL RESOURCES INC | 13-1-1.1 |
| J114 | OHIO COUNTY COAL RESOURCES INC | 13-1-42.1 |
| K115 | | 13-1-42 |
| L116 | OHIO COUNTY COAL RESOURCES INC | 13-1-43 |
| M117 | OHIO COUNTY COAL RESOURCES INC | 13-1-44 |
| N118 | OHIO COUNTY COAL RESOURCES INC | 13-1D-12 |
| | HOLMES WILLIAM A & LAURA A | 13-1D-42 |
| 0119 | SALISBURY DAVID W & CHRISTINA | 13-1D-47 |
| P120 | OHIO COUNTY COAL RESOURCES INC | 13-1-46 |
| Q121 | OHIO COUNTY COAL RESOURCES INC | 13-1-47 |
| R122 | OHIO COUNTY COAL RESOURCES INC | 13-1-49 |
| S123 | OHIO COUNTY COAL RESOURCES INC | 13-1-50 |
| T124 | OHIO COUNTY COAL RESOURCES INC | 13-5-9.2 |
| U125 | OHIO COUNTY COAL RESOURCES INC | 13-5-9.1 |
| V126 | | 13-5-5.1 |
| V120 | OHIO COUNTY COAL RESOURCES INC | 13-5-5 |
| W127 | OHIO COUNTY COAL RESOURCES INC | 13-5A-22 |
| X128 | OHIO COUNTY COAL RESOURCES INC | 13-5A-23 |
| Y129 | OHIO COUNTY COAL RESOURCES INC | 13-5A-24 |
| Z130 | CONSOLIDATION COAL COMPANY | 13-5A-38 |
| A131 | MURRAY ENERGY C/O LAND DEPT | |
| B132 | OHIO COUNTY COAL RESOURCES INC | 13-5A-37 |
| C133 | OHIO COUNTY COAL RESOURCES INC | 13-5A-32 |
| C155 | OHIO COUNTY COAL RESOURCES INC CONSOLIDATION COAL COMPANY | 13-5A-33 |
| D134 | MURRAY ENERGY C/O LAND DEPT | 13-5A-34 |
| E135 | OHIO COUNTY COAL RESOURCES INC | 13-5A-35 |
| F136 | OHIO COUNTY COAL RESOURCES INC | 13-5-8 |
| G137 | OHIO COUNTY COAL RESOURCES INC | 13-5-43 |
| 1120 | CONSOLIDATION COAL COMPANY MURRAY | 13-3-43 |
| H138 | ENERGY C/O LAND DEPT | 13-5-42 |
| 1139 | OHIO COUNTY COAL RESOURCES INC | 13-5-33 |
| 140 | OHIO COUNTY COAL RESOURCES INC | 13-5-33.1 |
| (141 | STENDA JAY JOHN & KIMBERLY ANN | 13-5-41 |
| .142 | DOYLE TERRY D - TOD | 13-5-40 |
| /143 | OLIVER BRIAN M & JOELLE L FLANAGAN | 13-5-40.1 |
| 144 | CLARK ROY V III & DONNA J | 13-5-39.2 |
| 0145 | HERCULES GRANT II | 13-5-39.1 |
| 9146 | STEVEY JORDAN M | 13-5-39 |
| 147 | HARMON DAVID LET UX | 13-5-38 |
| 148 | STEELE RICHARD P | 13-6-14 |
| 149 | STEELE JORDAN T & BRITTANY J | 13-6-10.2 |
| 150 | STEELE RICHARD P | |

| TRACT | SURFACE OWNER | TAX PARCE |
|-------|-------------------------------------|------------|
| U151 | YAQUINTA JOHN | 13-6-53.8 |
| V152 | YAQUINTA JOHN | 13-6-53.4 |
| W153 | COOK BRIAN | 13-6-53.10 |
| X154 | RICH JOSEPH ET UX ESTS | 13-6B-22 |
| Y155 | RICH JOSEPH A ET UX ESTS | 13-6B-23 |
| Z156 | LEDBETTER WILLIAM R ET UX | 13-6B-21 |
| A157 | HAUGHT GEORGE & MARY | 13-6B-19 |
| B158 | JAMES ROBERT A JR & WENDY L | 13-6B-18 |
| C159 | JONES DAKOTA M & ELISHA GLENDENING | 13-6B-15 |
| D160 | SIMMONS MICHAEL J | 13-6B-14 |
| E161 | MCDADE ROBERT D | 13-6B-11 |
| F162 | HAUGHT GEORGE ET UX | 13-6B-10 |
| G163 | HAUGHT GEORGE ET UX | 13-6B-9 |
| H164 | HAUGHT GEORGE WILLIAM II & SHEILA A | 13-6-49.3 |
| 1165 | WOODBURN SARA J & RICHARD A | 13-6-49.2 |
| J166 | WILT VINCENT E | 13-6-18 |
| K167 | TOLER MARGARET - LIFE | 13-6-19 |
| L168 | NIXON MADISON M | 13-6-49.1 |
| M169 | NIXON MADISON M | 13-6-48 |
| N170 | VANDYNE ZACHARY D | 13-6-47 |
| 0171 | CRALL MICHAEL D & LISA DAWN | 13-6-46 |
| P172 | O'NEAL CYNTHIA | 13-6-45 |
| Q173 | BAKER JAMES F | 13-6B-23.1 |
| R174 | BAKER JAMES F | 13-6B-24 |
| S175 | CARNEY DANIEL P ET UX | 13-6B-25 |
| T176 | CARNEY DANIEL P ET UX | 13-6B-26 |
| U177 | CARNEY DANIEL P ET UX | 13-6B-27 |
| V178 | MERINAR & KOONTZ CO | 13-6B-28 |
| N179 | KOONTZ CARLE | 13-6B-29 |
| X180 | VANSCYOC ARMOND RAY JR | 13-6B-32 |
| 181 | VANSCYOC ARMOND RAY JR | 13-6-53.2 |
| 2182 | MELISSINOS KYRIAKI EST | 13-6B-33 |
| 183 | AMOS DOROTHE M & GEORGE R | 1-5-2 |
| 3184 | VESSELS CARLA M | 1-5-30 |
| 185 | AMOS DOROTHE M & GEORGE R | 1-5-29 |
| 0186 | VESSELS CARLA M | 1-5-28 |
| 187 | FRANEY KIMBERLY ANN & KYLE | 1-6-5.4 |
| 188 | FRANEY KIMBERLY ANN & KYLE | 1-6-5.2 |
| 189 | FRANEY KIMBERLY ANN & KYLE | 1-6-5.1 |
| 190 | RICHARDS JAMES T | 1-6-1 |
| 191 | OHIO COUNTY COAL RESOURCES INC | 13-5-46.10 |
| 192 | PRICE JEREMY S & KATHERINE | 13-5A-41 |
| 193 | WARBLE STEVEN M SR | 13-5A-19 |
| 194 | MORRIS BRIAN N ET UX | 1-5-18 |

ELS MAY BE IMPACTED DURING DRILLING.

| REVISIONS: 4705102508 | COMPANY: | SWN Production Company, LLC | SN Production C | |
|-----------------------|-----------------------|--------------------------------|--------------------|--|
| | OPERATOR'S WELL #: | SERAFIN ORT 1H | IZ MSH | DATE: 10/30/2023 DRAWN BY: TMF |
| | DISTRICT: UNION | COUNTY: MARSHALL | STATE: WV | SCALE: N/A DRAWING NO: ACE-3044 WELL LOCATION PLAT 8 |

4705102508

WW-6A1 (5/13) Operator's Well No. SERAFIN ORTIZ MSH 1H

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 Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------------|-----------------------|-----------------------|-----------------------------------|-----------|
| | See Exhibit "A" | | | |
| | | Office of C | EIVED Dirand Gas 05 2023 | |
| | | | | |
| | | WV D Environ | epartment of nontal Protection | |
| | | • اسما | | |

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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: | SWN Production Company, LLC | |
|----------------|-----------------------------|----|
| By: | Aulu M. Suits | 17 |
| Its: | Rotational Landman | |

Page 1 of 1

01/12/2024

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| valty Book/Page Not Leased by SWN | 683/84 | 33/110 | | 33/110 756/443 33/110 678/72 33/110 | 33/110 756/443 33/110 678/72 678/75 33/110 678/517 678/517 | 33/110 756/443 33/110 678/72 678/75 33/110 678/517 33/110 678/69 | 33/110 756/443 33/110 678/72 678/75 33/110 678/517 33/110 678/69 33/110 678/69 33/110 | 33/110 756/443 33/110 678/72 678/75 33/110 678/59 678/69 33/110 678/66 33/110 |
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| Lessee Royalty Book/ | 14.00% | | 17.00% | 17.00% 12.50% | 17.00% c 17.00% c 12.50% c 12.50% 12.50% | 17.00% 12.50% 12.50% 12.50% | 17.00% 12.50% 12.50% 12.50% 12.50% 12.50% | 17.00% 12.50% 12.50% 12.50% 12.50% 12.50% |
| 14.00% | | 17.00% | | 12.50% | 12.50% 12.50% 12.50% 12.50% | 12.50% 12.50% 12.50% 12.50% | 12.50% 12.50% 12.50% 12.50% 12.50% | 12.50% 12.50% 12.50% 12.50% 12.50% |
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| palachia, L.L.C. n Company, LLC palachia, L.L.C. palachia, L.L.C. n Company, LLC palachia, L.L.C. | palachia, L.L.C. n Company, LLC palachia, L.L.C. n Company, LLC palachia, L.L.C. | palachia, L.L.C. n Company, LLC palachia, L.L.C. | | n Company, LLC oalachia, L.L.C. | | ר Company, LLC palachia, L.L.C. | ר Company, LLC salachia, L.L.C. ה Company, LLC palachia, L.L.C. | ר Company, LLC salachia, L.L.C. מומכחים, L.L.C. palachia, L.L.C. n Company, LLC |
| Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | ke Appalachia, L.L. Juction Company, I ke Appalachia, L.L. Iuction Company, I duction Company, I ke Appalachia, L.L. | ke Appalachia, L.L. ¹ Juction Company, I ke Appalachia, L.L. duction Company, I ke Appalachia, L.L. | Juction Company, I ke Appalachia, L.L. | | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC |
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| e wife | α | | sband | spand | ife | | | |
| Serafin T. Ortiz and Martha G. Ortiz, husband and wife Chesapeake Appalachia, L.L.C. George Haught and Mary Haught, husband andwife Chesapeake Appalachia, L.L.C. | nd andwife | pue | rt. her husb | rr, ner nuse | | Charles E. Borchart, Jr. and Mary Jo Borchart, his wife | hart, his wif | hart, his wif |
| Ortiz, husb sht, husbar | ght, husbar | | ć, her husb A. Burkha | A. BULKINA | ry Jo Borch | ., | | |
| Martha G. chia, L.L.C. | | Mary Haug chia, L.L.C. | aard Penick :hia, L.L.C. and David | ana vavia :hia, L.L.C. a single ma | hia, L.L.C. Jr. and Ma | | hia, L.L.C. le woman | hia, L.L.C. le woman hia, L.L.C. |
| Serafin T. Ortiz and Martha | Chesapeake Appalachia, L.L.C. | George Haught and Mary Haug Chesapeake Appalachia, L.L.C. | Judy Penick and Richard Penicl Chesapeake Appalachia, L.L.C. Alvn Robin Burkhart and David | Alyn Kuolin burkhart ang Davig Chesapeake Appalachia, L.L.C. Jeffrey A. Borchart, a single ma | Chesapeake Appalachia, L.L.C. Charles F. Borchart - Ir- and Ma | 6 | Chesapeake Appalachia, L.L.C. Eleanor Cross, a single woman | Chesapeake Appalachia, L.L. Eleanor Cross, a single wom Chesapeake Appalachia, L.L. |
| Serafin T | Chesapea | George H Chesapea | Judy Peni Chesapea Alvn Robi | Alyn Kubl Chesapea Jeffrey A. | Chesapea Charles E. | | Chesapea Eleanor C | Chesapea Eleanor C Chesapea |
| | 725464/000 | 732654/000 | 725226/004 Judy Penick and Richard Penick, her husband Chesapeake Appalachia, L.L.C. 725226/005 Alvn Robin Burkhart and David A. Burkhart. her husband | 725226/003 Jeffrey A. Borchart, a single man | 775776/002 | | | |
| | | | 12 | 22 | Ę | 71 | 72 | 2 22 |
| Tax | 13-6-49 | 13-6-51.1 | 13-6-51 | | | | | |
| Tract # | 1 | 12 | / 3 | | | | | |

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Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| 4 | 13-68-31 | 733016/001 Judy Penick, a married woman | ck, a married woman | Chesapeake Appalachia, L.L.C. | 18.00% | 768/210 | 0.00% |
|------------------|----------|--|---|-------------------------------|--------|---------|-------|
| | | Chesapea | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/002 Alyn Robin | Alyn Robin Burkhart, a married woman | Chesapeake Appalachia, L.L.C. | 18.00% | 768/221 | 0.00% |
| | | Chesapea | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/005 Eleanor Cr | Eleanor Cross, divorced and not remarried | Chesapeake Appalachia, L.L.C. | 18.00% | 771/75 | 0.00% |
| | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/004 Charles E. | Charles E. Borchart, Jr., a married man | Chesapeake Appalachia, L.L.C. | 18.00% | 770/598 | 0.00% |
| | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/003 Jeffrey A. Borchart, a single man | Borchart, a single man | Chesapeake Appalachia, L.L.C. | 18.00% | 770/593 | 0.00% |
| | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 15 | 13-68-30 | 733016/001 Judy Penic | Judy Penick, a married woman | Chesapeake Appalachia, L.L.C. | 18.00% | 768/210 | 0.00% |
| | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/002 Alyn Robin | Alyn Robin Burkhart, a married woman | Chesapeake Appalachia, L.L.C. | 18.00% | 768/221 | 0.00% |
| - | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 733016/005 Eleanor Cr | oss, divorced and not remarried | Chesapeake Appalachia, L.L.C. | 18.00% | 771/75 | 0.00% |
| | | Chesapeak | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| Rear March | | 733016/004 Charles E. | Borchart, Jr., a märried man | Chesapeake Appalachia, L.L.C. | 18.00% | 770/598 | 0.00% |
| 6 | | Chesapeak | ke Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 1/1 : | | 733016/003 Jeffrey A. Borchart, a single man | Borchart, a single man | Chesapeake Appalachia, L.L.C. | 18.00% | 770/593 | 0.00% |
| 2/2(| | Chesapeak | ke Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| / 6 | 13-6-53 | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 100.00% |
|------|-----------|------------|--|-------------------------------|--------|---------|---------|
| 17 | 13-6-53.1 | 725580/002 | 1899.20 | Chesapeake Appalachia, L.L.C. | 14.00% | 684/210 | 0.00% |
| | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 725580/004 | Robert Sheller, a/k/a Robert Joseph Sheller, single | Chesapeake Appalachia, L.L.C. | 14.00% | 684/316 | 0.00% |
| | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | 725580/003 | | Chesapeake Appalachia, L.L.C. | 14.00% | 684/555 | 0.00% |
| | | | sungie Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 1 8 | 13-6-12 | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 100.00% |
| 6 / | 13-6-11 | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 100.00% |
| 10 | 13-6-10.1 | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 100.00% |
| / 11 | 13-6-10 | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 100.00% |
| / 12 | 13-6-9.1 | 728986/001 | | Chesapeake Appalachia, LLC | 12.50% | 723/417 | 0.00% |
| | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 50.00% |
| 13 | 13-6-9 | 728986/001 | Mary Anne Ettenger Thompson, f/k/a Mary Anne Ettenger | Chesapeake Appalachia, LLC | 12.50% | 723/417 | 0.00% |
| | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 50.00% |
| 14 | 13-6-8 | | Mary Anne Ettenger Thompson, f/k/a Mary Anne Ettenger | Chesapeake Appalachia, LLC | 12.50% | 723/417 | 0.00% |
| | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | N/A | Royalty Owner (subject to unitization filing dated November 10, 2023) | N/A | N/A | N/A | 50.00% |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 100.00% |
|--|-------------------------------|--|--|--|--|--|---|--------------|--------------|--|--|--|--|--|---|--|--|---|--------------|
| 1156/144 | 1128/370 | 1156/153 | 1156/153 | 1156/144 | N/A | 1156/144 | N/A | N/A | N/A | 1156/153 | 1156/144 | 1156/153 | 1156/144 | 1156/144 | 1141/419 | 1137/476 | 1137/476 | N/A | N/A |
| 18.00% | N/A | 18.00% | 18.00% | 18.00% | N/A | 18.00% | N/A | N/A | N/A | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | N/A | N/A |
| SWN Production Company, LLC | Fee | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | N/A | SWN Production Company, LLC | N/A | N/A | N/A | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | N/A | N/A |
| 784402/000 CNX Gas Company LLC, a Virginia limited liability company | N SWN Production Company, LLC | 784404/000 CNX Gas Company LLC, a Virginia limited liability company | 784404/000 CNX Gas Company LLC, a Virginia limited liability company | 784402/000 CNX Gas Company LLC, a Virginia limited liability company | Royalty Owner (subject to unitization filing dated November 10, 2023) | 784402/000 CNX Gas Company LLC, a Virginia limited liability company | Royalty Owner (subject to unitization filing dated November 10, 2023) | | | 784404/000 CNX Gas Company LLC, a Virginia limited liability company | 784402/000 CNX Gas Company LLC, a Virginia limited liability company | 784404/000 CNX Gas Company LLC, a Virginia limited liability company | 784402/000 CNX Gas Company LLC, a Virginia limited liability company | 784402/000 CNX Gas Company LLC, a Virginia limited liability company | 784511/000 Robert Andrew Abercrombie, a widower | 783796/000 Christina Wise, f/k/a Christina M. Salisbury, married | 783796/000 Christina Wise, f/k/a Christina M. Salisbury, married | Royalty Owner (subject to unitization filing dated November 10, 2023) | |
| 13-5-46.3 784 | 13-5-46.8 N/A | 13-5-44.1 784 | 13-5-44 784 | 13-5-46.4 784 | 13-5A-39 N/A | 13-5A-40 784 | 13-5A-21 N/A | 13-5A-20 N/A | 13-5-4.1 N/A | 13-5-4 784 | 13-5-2 784 | 13-5-3 784 | 13-5-1 784 | 13-1D-51 784 [,] | 13-1D-48 784 | 13-1D-47.2 783 [.] | 13-1D-47.1 783 | 13-1D-40.1 N/A | 13-1D-41 N/A |
| /15 | / 16 | 17 | / 18 | / 19 | / 20 | 1 21 | , 22 | / 23 | / 24 | 1 25 | / 26 | 1 27 | / 28 | 1 29 | / 30 | /31 | / 32 | / 33 | / 34 |

01/12/2024

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| A 100.00% | /186 0.00% | /457 0.00% | A 100.00% | A 100.00% | ;/54 0.00% | ./74 0.00% | /544 0.00% | /544 0.00% | /544 0.00% | //00 0.00% | | | | | | | | | |
|--|----------------------------------|-----------------------------|--|--|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------|-----------------------------|--|---|--|--|--|---|--|---|
| N/A N/A | 18.00% 1149/186 | 18.00% 1158/457 | N/A N/A | N/A N/A | 18.00% 1143/54 | 18.00% 1143/74 | 18.00% 1163/544 | 18.00% 1163/544 | 18.00% 1163/544 | 1 8 00% 1 1 E 0 / 70 | | | | | | | | | |
| N/A | SWN Production Company, LLC | SWN Production Company, LLC | N/A | N/A | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | RECEIVED | RECEIVED | RECEIVED | RECEIVED |
| Royalty Owner (subject to unitization filing dated November 10, 2023) | 784971/000 Joseph H. Morgan, Jr. | Joseph H. Morgan, Jr. | Royalty Owner (subject to unitization filing dated November 10, 2023) | Royalty Owner (subject to unitization filing dated November 10, 2023) | | 0 Toni A. Chieffalo, divorced | James E. Meredith | James E. Meredith | James E. Meredith | L | 0 Carla M. Vessels | | Carla M. Vessels CNX Gas Company LLC, a Vir Carla M. Vessels | Carla M. Vessels CNX Gas Company LLC, a Virginia limited liability compar Carla M. Vessels HG Energy II Appalachia, LLC | | Carla M. Vessels CNX Gas Company LLC, a Virginia limited liability compa Carla M. Vessels HG Energy II Appalachia, LLC William M. Matheny CNX Gas Company LLC, a Virginia limited liability compa | Carla M. Vessels CNX Gas Company LLC, a Virginia limited liability compa Carla M. Vessels HG Energy II Appalachia, LLC William M. Matheny USI Gas Company LLC, a Virginia limited liability CNX Gas Company LLC | Carla M. Vessels Carla M. Vessels Carla M. Vessels HG Energy II Appalachia, LLC William M. Matheny UNI Gas Company LLC, a Virginia limited liability CNX Gas Company LLC, a Virginia limited liability HG Energy II Appalachia, LLC | Carla M. Vessels CNX Gas Company LLC, a Virginia limited liability compa Carla M. Vessels HG Energy II Appalachia, LLC William M. Matheny CNX Gas Company LLC, a Virginia limited liability dompa CNX Gas Company LLC, a Virginia limited liability dompa HG Energy II Appalachia, LLC HG Energy II Appalachia, LLC HG Energy II Appalachia, LLC |
| N/A | 784971/000 | Pending | N/A | N/A | 784588/000 | 784587/000 | Pending | Pending | Pending | 784593/000 | | 784402/000 | 784402/000 784593/000 | 784402/000 784593/000 Pending | 000 000 | 000 000 000 | 00 00 00 | 8 8 8 8 | |
| 13-1D-13 | 13-1D-16 | 13-1D-17.1 | 13-10-17 | 1-5-37 | 1-5-36 | 1-5-35 | 1-5-34 | 1-5-33 | 1-5-32 | 1-5-31 | | 1-5-1 | 1-5-1 1-5-27 | 1-5-1 1-5-27 1-5-26 | 1-5-1 1-5-27 1-5-26 1-5-25 | 1-5-1 1-5-27 1-5-26 1-5-25 1-5-24.1 | 1-5-1 1-5-27 1-5-26 1-5-25 1-5-24.1 1-5-24.1 | 1-5-1 1-5-27 1-5-26 1-5-25 1-5-24 1-5-24 1-5-23 | 1-5-1 1-5-27 1-5-26 1-5-25 1-5-24 1-5-24 1-5-23 1-5-23 |
| , 35 | 1 36 | / 37 | / 38 | / 39 | 140 | / 41 | 1 42 | /43 | 144 | / 45 | | A6 | A46 | /46 / 47 / 48 | | /46 /47 /48 /49 /50 | /46 /47 /48 /49 /50 /51 | /46 /47 /49 /50 /51 /52 | /47 /48 /49 /50 /51 /53 |

01/12/2024

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator Marshall County, West Virginia

EXHIBIT "A" Serafin Ortiz MSH 1H

| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 100.00% | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 100.00% |
|---------------------------------------|--|-----------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|--|--|-----------------------------|---|--|---|---------------------------------------|---|--|--|--|
| 1145/576 | 1155/37 | 1143/607 | 1143/577 | 1150/64 | 1150/64 | 1150/64 | 1150/64 | 1156/153 | N/A | N/A | 1156/144 | N/A | 1147/507 | 1147/507 | 1156/144 | 1147/507 | 1051/59 (Ohio) 1170/693 (Marshall) | N/A | N//A |
| 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | N/A | N/A | 18.00% | N/A | 18.00% | 18.00% | 18.00% | 18.00% | 20.00% | N/A | N/A |
| SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | N/A | N/A | SWN Production Company, LLC | N/A | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | N/A | N/A |
| 784626/001 Michelle H. Brown, married | 8 Brenda H. Conaway, married, dealing in her separate property | Kenneth Hissam, single | Paul H. Parsons and Helen R. Parsons, h/w | Ridgetop Ten, LLC | Ridgetop Ten, LLC | Ridgetop Ten, LLC | Ridgetop Ten, LLC | CNX Gas Company LLC, a Virginia limited liability company | Royalty Owner (subject to unitization filing dated November 10, 2023) | Royalty Owner (subject to unitization filing dated November 10, 2023) | - | Royalty Owner Control (Subject to unitization filing dated November 10, 2023) | IMI FABI, LLC, by Corrado Fabi, <u>Dresident</u> | IMI FABI, LLC, by Corrado Fabi, President | CNX Gas Company LLC, a Virginia limit | IMI FABI, LLC, by Corrado Fabi, President | State of West Virginia, Department of Commerce, Division of Natural Resources | Royalty Owner (subject to unitization filing dated November 10, 2023) | Royalty Owner (subject to unitization filing dated November 10, 2023) |
| 784626/001 | 784626/003 | 784626/002 | 784554/000 | Pending | Pending | Pending | Pending | 784404/000 | N/A | N/A | 784402/000 | N/A | 785013/000 | 785013/000 | 784402/000 | 785013/000 | Pending | N//A | N/A |
| 1-5-20 | | | 1-5-19 | 1-6-3 | 1-6-4 | 1-6-5.3 | 1-6-5 | 1-4-107 | U.S. 250 | RAILROAD | 1-4A-1 | 1-4A-10 | 1-2-158 | 1-4A-9 | 1-4A-6 | 1-4A-11 | OHIO RIVER | 13-5A-18 | 13-1D-40 |
| 155 | | | / 56 | / 51 | /58 | / 59 | / 60 | / 61 | / 62 | , 63 | / 64 | , 65 | × 66 | / 67 | / 68 | 69 | / 70 | 🖌 S19 | / X50 |

01/12/2024

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | | 0.00% | | 0.00% | | 0.00% | | 0:00% | | |
|---------------------------------------|--|--------------------------------|---|------------------------------------|---|---|--|-------------------------------|---|-------------------------------|--|-------------------------------|--|-------------------------------|--|-----------------------------|---|
| 1172/365 | 1147/507 | 1172/712 | 1168/434 | 1146/686 | N/A | 1150/606 | 784/228 | 33/110 | 786/642 | 33/110 | 787/7 | 33/110 | 786/636 | 33/110 | 787/1 | 33/110 | |
| 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | N/A | 18.00% | 18.00% | | 18.00% | | 18.00% | | 18,00% | | 18.00% | | |
| SWN Production Company, ILLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | N//A | SWN Production Company, LLC | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | |
| 13-10-15 Pending Lawrence Bloomifield | 1-2-155.6 785013/000 IMI FABI, LLC, by Corrado Fabi, President | 1-4-92 Pending City of Benwood | -5-17 Pending Brian Morris and Virginia E. Morris, husband and wife | 1-6-2 784346/000 James T. Richards | 13-1D-12 N/A Royalty Owner (subject to unitization filing dated November 10, 2023) | 13-1D-42 784695/000 William A. Holmes and Laura A. Holmes, husband and wife | 13-6B-29 733016/001 Judy Penick, a married woman | Chesapeake Appalachia, L.L.C. | 733016/002 Alyn Robin Burkhart, a married woman | Chesapeake Appalachia, L.L.C. | 733016/005 Eleanor Cross, divorced and not remarried | Chesapeake Appalachia, L.L.C. | 733016/004 Charles E. Borchart, Jr., a married man | Chesapeake Appalachia, L.L.C. | 733016/003 Jeffrey A. Borchart, a single man | | RECEIVED or miand Gas 0 5 2023 ment of trolaction |
| , Z52 10 | / F58 1- | * P94 1- | / 095 1- | / 6111 1- | × M117 13 | × N118 13 | # W/179 13 | | | | | | | | | | |

4705102508

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

| | | Commission | *Potentially Impacted Parcels - Parcels that may be impacted during drilling. filisation - Subject to unitization filme with the West Virginia Oil and Gas Conservation | arcels - Parcels that ma trization filing with the | *Portsontal well unit utilization - Subjected Parcels - Parcels that may be impacted during drilling. |
|---------|----------|------------|--|---|---|
| 0.00% | 1168/434 | 18.00% | SWN Production Company, LLC | rris, husband and wife | Brian Morris and Virginia E. Morris, husband and wife |
| 100.00% | N/A | N/A | N/A | ed November 10, 2023) | Royalty Owner (subject to unitization filing dated November 10, 2023) |
| 100.00% | N/A | N/A | N/A | ed November 10, 2023) | Royalty Owner (subject to unitization filing cated November 10, 2023) |
| 100.00% | N/A | N/A | N/A | ted November 10, 2023) | Royalty Owner (subject to unitization filing date |
| 0.00% | 1150/70 | 18.00% | SWN Production Company, LLC | | Carla IM. Vessels, single |
| %00.0 | 1140/230 | 18.00% | SWN Production Company, LLC | hy M. Amos, married | Dorothe M. Amos, a/k/a Dorothy M |
| 0.00% | 1150/70 | 18.00% | SWN Production Company, LLC | | Carla IM. Vessels, single |
| 0.00% | 1140/230 | 18.00% | SWN Production Company, LLC | Amos, married | Dorothe M. Amos, a/k/a Dorothy M. Amos, married |
| | 33/110 | | SWN Production Company, LLC | | Chesapeake Appalachia, L.L.C. |
| | 787/1 | 18.00% | Chesapeake Appalachia, L.L.C. | | 733016/003 Jeffrey A. Borchart, a single man |
| | 33/110 | | SWN Production Company, LLC | | Chesapeake Appalachia, I. L.C. |
| | 786/636 | 18.00% | Chesapeake Appalachia, L.L.C. | nan | 733016/004 Charles E. Borchart, Jr., a married man |
| | 33/110 | | SWN Production Company, LLC | | Chesapeake Appalachia, L.L.C. |
| 0.00% | 787/7 | 18.00% | Chesapeake Appalachia, L.L.C. | married | 733016/005 Eleanor Cross, divorced and not remarried |
| | 33/110 | | SWN Production Company, LLC | | Chesapeake Appalachia, L.L.C. |
| 0.00% | 786/642 | 18.00% | Chesapeake Appalachia, L.L.C. | woman | 733016/002 Alyn Robin Burkhart, a married wo |
| | 33/110 | | SWN Production Company, LLC | | Chesapeake Appalachia, L.L.C. |
| | | | | | |

WV P01/12/2024 Environmental



SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

November 15, 2023

Mr. Charles Brewer WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Serafin Ortiz MSH 1H in Marshall County, West Virginia, Drilling under Oak Hill Road, US 250 (State Route 2), Fishers Lane, Browns Run Road, Boggs Run Road, Maas Drive, Banfield Lane, Roosevelt Ave, and Benwood Hill Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Oak Hill Road, US 250 (State Route 2), Fishers Lane, Browns Run Road, Boggs Run Road, Maas Drive, Banfield Lane, Roosevelt Ave, and Benwood Hill Road. Please be advised that SWN has attempted to lease all mineral owners under said route as it relates to the above-referenced well and unit. In several instances, SWN successfully obtained leases of the acreage underlying the road. Any remaining unleased roadway acreage has been included in SWN's pending forced-pooling (unitization) application which was filed with the WV OGCC on November 10, 2023 for the Serafin Ortiz North A Unit (Docket No. 335-354). We expect that all roadway acreage will be effectively under SWN's operational control following the issuance of an Order by the OGCC after the planned December 14 hearing.

Thank you.

Sincerely,

Anhe M. Suitt

Andrew M. Smith, RL Rotational Landman SWN Production Company, LLC

Office of Oil and Gas RECEIVED DEC 05 2023 WW Department of Environmental Protection

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+ $^{\circ}$ 01/12/2024

Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsville Daily Echo

Public Notice Date: July 6, 2023 & July 13, 2023

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: SWN Production Company, LLC Well Number: Serafin Ortiz MSH 1H

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Business Conducted: Natural gas production.

Location -

| State: | West Virginia | | County: | Marshall | |
|-----------|-------------------------|-----------|-------------|-------------|--|
| District: | Union | | Quadrangle: | Moundsville | |
| UTM Cool | rdinate NAD83 Northing: | 4,426,764 | | | |
| UTM coor | dinate NAD83 Easting: | 524,999 | | | |
| Watershed | : Upper Ohio Wheeling | | | | |

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up. RECEIVED Dil and Gas

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450), Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by Environmental WY US calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx



WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE CERTIFICATION**

Date of Notice Certification:

API No. 47- 051 Operator's Well No. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

01/12/2024

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows: Ctat Mar + Minetin

| State: | West Virginia | TITLE NEAD 02 | Easting: | 524,998.546 | |
|-------------|------------------|----------------|------------|-----------------|--|
| County: | 051-Marshall | UTM NAD 83 | Northing: | 4,426,763.890 | |
| District: | Union | Public Road Ac | cess: | Grand View Road | |
| Quadrangle: | Moundsville | Generally used | farm name: | Serafin Ortiz | |
| Watershed: | Upper Ohio South | | | | |

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: | |
|--|---------------------------|
| *PLEASE CHECK ALL THAT APPLY | OOG OFFICE USE ONLY |
| □ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | RECEIVED/ NOT REQUIRED |
| ■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED | □ RECEIVED |
| ■ 3. NOTICE OF INTENT TO DRILL or DINOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | RECEIVED/ NOT REQUIRED |
| WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | |
| 4. NOTICE OF PLANNED OPERATION | RECEIVED |
| ■ 5. PUBLIC NOTICE | RECEIVED |
| 5. PUBLIC NOTICE 6. NOTICE OF APPLICATION 7. PUBLIC NOTICE 7. PUBLIC NOTIC | RECEIVED |
| Required Attachments: | a ^{thol} |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Brittany Woody

_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Well Operator: | SWN Production Co., LLC | | Address: | 1300 Fort Pierpont Dr., Suite 201 |
|----------------|--|---|---|--|
| By: | Brittany Woody | M | | Morgantown, WV 26508 |
| Its: | Staff Regulatory Specialist | | Facsimile: | 304-884-1690 |
| Telephone: | 304-884-1610 KIHOUN * | | Email: | Brittany_Woody@swn.com |
| | NOTARY Official Seal Notary Public, State Of West Virginia Elizabeth Blankenship 941 Simpson Run Road Weston WV 26452 My commission expires June 23, 2024 | (| ibed and swo <i>Up fit</i> ommission Ex | orn before me this 22 day of <u>JUNE 2023</u> . The Handewell Notary Public apires 6/23/2024 |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Historic and Gas Office of Oil and Gas DEC 0.5 2023 WY Dapartment of Environmental Protection



WW-6A API NO. 47- 051 (9-13)OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF APPLICATION** Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: Date Permit Application Filed: Notice of: PERMIT FOR ANY □ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ✓ REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by

registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

| ☑ SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|--|--|
| Name: Frank & Lori Longwell | Name: Marshall Land, LLC |
| Address: 1696 Marshall Street | Address: PO Box 261 |
| Benwood, WV 26031 | Julian, WV 25529 RECENTAND |
| Name: | COAL OPERATOR |
| Address: | Name: 015 2020 |
| | Address: DEU |
| □ SURFACE OWNER(s) (Road and/or Other Disturbance) | orman tection |
| Name: | SURFACE OWNER OF WATER WELL |
| Address: | AND/OR WATER PURVEYOR(s) and one of the second |
| | Name: See Attachment 13A |
| Name: | Address: |
| Address: | |
| | OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| □ SURFACE OWNER(s) (Impoundments or Pits) | Name: |
| Name: | Address: |
| Address: | |
| | *Please attach additional forms if necessary |

API NO. 47-051 -OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

WED, GOS

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items



WW-6A (8-13)

API NO. 47-051

OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

01/12/2024

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction. 056

Written Comment:

lent of Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

API NO. 47-051 -OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

| WW-6A | | |
|--|-----------|----|
| (8-13) | | |
| | | |
| | | |
| Notice is hereby given by: | 1 211 | |
| Well Operator: SWN Production Co., LLC | Inhanov | Ac |
| Telephone: 304-884-1610 | mrx march | Mc |
| Email: Brittany_Woody@swn.com | his Va | Fa |
| | | 1 |

API NO. 47-051 -OPERATOR WELL NO. Serafin Ortiz MSH 1H Well Pad Name: Serafin Ortiz

| Address: 13 | 00 Fort Pierpont Dr., Suite 201 | |
|---------------|---------------------------------|--|
| Morgantown, V | VV 26508 | |
| Facsimile: | 304-884-1690 | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

| Official Seal | s |
|--|---|
| Notary Public, State Of West Virginia Elizabeth Blankenship 941 Simpson Run Road | > |
| My commission expires June 23, 2024 | 8 |
| | M |

| Subscribed and sworn before | me this 22 day of JUNE 2023. |
|-----------------------------|------------------------------|
| Clinatett | Blankeugt Notary Public |
| () My Commission Expires | 4/23/2024 |



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 6/15/2023 Date of Planned Entry: 6/22/2023

Delivery method pursuant to West Virginia Code § 22-6A-10a

| PERSONAL | |
|----------|--|
| SERVICE | |

REGISTERED MAIL

☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

| | RECEIVED | |
|-------------------------------|---|--|
| SURFACE OWNER(s) | COAL OWNER OR LESSEE Office of Office of Office | |
| Name:Frank & Lori Longwell | Name: Marshall Land , LLC DEC 0.5 2022 | |
| Address: 1696 Marshall Street | Address: PO Box 261 | |
| Benwood, WV 26031 | Julian, WV 25529 | |
| Name: | WV Department | |
| Address: | MINERAL OWNER(s) Environmental Protection | |
| | Name: Serafin T. Ortiz, Trustee of The Serafin T. Ortiz Trust | |
| Name: | Address: 170 Celestial Way | |
| Address: | Juno Beach, FL 33408 | |
| N | *please attach additional forms if necessary | |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

| State: | W Approx. Latitude & Longit | | 2: 39.990571° -80.707151° | |
|-------------|-----------------------------|---------------------------|---------------------------|--------|
| County: | Marshall | Public Road Access: | Grand View Road | |
| District: | Union | Watershed: | Upper Ohio South | _ |
| Quadrangle: | Moundsville | Generally used farm name: | Serafin Ortiz MSHO | |
| | | | | ****** |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be Charles Services vitolationtal Protection obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 |
|----------------|-----------------------------|------------|-----------------------------------|
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 |
| Email: | brittany_woody@swn.com | Facsimile: | 304-884-1690 |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 07/05/2023 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

| HAND | CERTIFIED MAIL |
|----------|--------------------------|
| DELIVERY | RETURN RECEIPT REQUESTED |

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

| Name: Frank and Lori Longwell | Name: |
|-------------------------------|-----------------------|
| Address: 1696 Marshall Street | Address: |
| Benwood, WV 26031 | RECEIVED |
| | Office of Oil and Con |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| State: | West Virginia | | Easting: | 524,998.546 mant of | |
|-------------|---------------------|--------------------|-----------|---------------------|--|
| County: | Marshali | - UTM NAD 83 | Northing: | 4,426.763.890 | |
| District: | Union | Public Road Acces | SS: | | |
| Quadrangle: | Moundsville 7.5, WV | Generally used far | m name: | Serafin Ortiz | |
| Watershed: | Upper Ohio-Wheeling | | | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

| Well Operator: | SWN Production Company, LLC | Authorized Representative: | Justin Booth | |
|----------------|-----------------------------------|----------------------------|-----------------------------------|--|
| Address: | 1300 Fort Pierpont Dr., Suite 201 | Address: | 1300 Fort Pierpont Dr., Suite 201 | |
| | Morgantown, WV 26508 | | Morgantown, WV 26508 | |
| Telephone: | 304-884-1675 | Telephone: | 304-884-1675 | |
| Email: | Justin_Booth@swn.com | Email: | Justin_Booth@swn.com | |
| Facsimile: | | Facsimile: | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wy.gov.



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date dipermit application. Date of Notice: 07/05/2023 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

| CERTIFIED MAIL | HAND |
|---------------------------------|----------|
| RETURN RECEIPT REQUESTED | DELIVERY |

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

| Name: Frank and Lori Longwell | Name: | |
|-------------------------------|---------|--|
| Address: 1696 Marshall Street | Address | |
| Benwood, WV 26031 | | |
| | | |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| State: | West Virginia | East East | ting: | 524,998.546 | |
|-------------|---------------------|-----------------------|--------|---------------|--|
| County: | Marshall | UTM NAD 83 Nort | thing: | 4,426.763.890 | |
| District: | Union | Public Road Access: | J | RECEIVED | |
| Quadrangle: | Moundsville 7.5, WV | Generally used farm n | ame: | Serafin Ortiz | |
| Watershed: | Upper Ohio-Wheeling | | | DEC 05 2023 | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section, (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default aspx</u>.

| Well Operator: | SWN Production Company, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | |
|----------------|-----------------------------|------------|-----------------------------------|--|
| Telephone: | 304-884-1675 | | Morgantown, WV 26508 | |
| Email: | Justin_Booth@swn.com | Facsimile: | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Gregory L. Bailey, P.E. Interim State Highway Engineer

/irginia 25305-0430 • (304) 558-3505 J. Secr

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

01/12/2024

July 31, 2023

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Serafin Ortiz Pad, Marshall County Serafin Ortiz MSH 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0669 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 2/4 SLS MP 2.16.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

any K. Clay

Gary K. Clayton, P.E. Regional Operations Engineer Central Office O&G Coordinator

Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Attachment VI Frac Additives

| HCL | Solvent | Cherrucal Name Hydrochloric Acid | CAS Number |
|---|--|--|--|
| | | Water | 7647-01-0 |
| FSTI-CI-02 | Corrosion Inhibitor | | 7732-18-5 |
| | corrosion milbitor | | 111-76-2 |
| | | Ethylene glycol | 107-21-1 |
| | | N,N-Dimethylformamide | 68-12-2 |
| | | benzyl chloridequaternized | 72480-70-7 |
| | | Cinnamaldehyde | 104-55-2 |
| | | Isopropyl alcohol | 67-63-0 |
| | | Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy- | 9016-45-9 |
| | | 1-Decanol | 112-30-1 |
| | | 1-Octanol | 111-87-5 |
| • More and solve 11 cm steep along the set of some statements and a finite cardinated subtraction and sales statements are subtracted as a subtract of some set. | | Triethyl phosphate | 78-40-0 |
| Ferriplex 80 | Iron Control | Sodium Erythorbate | 6381-77-7 |
| Tolicide 4Frac | Biocide | Tetrakis(Hydroxymethyl) Phosphonium Sulfate | 55566-30-8 |
| | | Quaternary ammonium compounds | 68424-85-1 |
| | | Ethanol | 64-17-5 |
| | | Water | 7732-18-5 |
| Plexslick 930 | Friction Reducer | Hydrotreated Petroleum Distillate | 64742-47-8 |
| | | Water | |
| | | copolymer of 2-propenamide | 7732-18-5 |
| | | Oleic Acid Diethanolamide | 69418-26-4 |
| | | Alcohol Ethoxylate Surfactants | 93-83-4 |
| | | Ammonium Chloride | 68551-12-2 |
| | | | 12125-02-9 |
| Plexaid 655NM | Scale Inhibitor | Sodium Chloride | 7647-14-5 |
| | Scale Inhibitor | ORGANIC PHOSPHONIC ACIDS SALTS | 15827-60-8 |
| Playeliele VOOC | | Water | 7732-18-5 |
| Plexslick V996 | Friction Reducer | Hydrotreated Petroleum Distillate | 64742-47-8 |
| | | Water | 7732-18-5 |
| | | copolymer of 2-propenamide | 69418-26-4 |
| | | Alcohol Ethoxylate Surfactants | 68551-12-2 |
| | | Sodium Chloride | 7647-14-5 |
| Plexaid 655WG | Scale Inhibitor | ORGANIC PHOSPHONIC ACIDS SALTS | 15827-60-8 |
| | | Water | 7732-18-5 |
| | | Glycerin | 67-56-1 |
| Clearal 270 | Biocide | Glutaraldehyde | 111-30-8 |
| | | Didecyldimethylammonium Chloride | 7173-51-5 |
| | | Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides | |
| | | Ethanol | 68424-85-1 |
| | | Water | 64-17-5 |
| StimSTREAM SC 398 CW | Scale Inhibitor | Ethylene glycol | 7732-18-5 |
| | | CHEMSTREAM-Polymer-10001 | 107-21-1 |
| | | | CHEMSTREAM-Polymer-10001 |
| | | CHEMSTREAM-Polymer-10002 | CHEMSTREAM-Polymer-10002 |
| TIM STREAM ED 0000 | erendet herenden men kannen en bestellen in den en e | Water | 7732-18-5 |
| StimSTREAM FR 9800 | | Chemstream-Alkane-00001 | Chemstream-Alkane-00001 |
| | | Chemstream-Polymer-00001 | Chemstream-Polymer-00001 |
| | | Ethoxylated alcohols (C12-16) | 68551-12-2 |
| | and the second | Water | 7732-18-5 |
| stimSTREAM FR 2800 | Friction Reducer | Distillates (petroleum), hydrotreated light | 64742-47-8 |
| | | Alcohols, C11-14-iso, C13-rich, ethoxylated | 78330-21-9 |
| | | Water | 7732-18-5 |
| timSTREAM FR 9725 | Friction Reducer | Distillates (petroleum), hydrotreated light | 64742-47-8 |
| | | Ammonium Chloride | 12125-02-9 |
| | | Water | |
| timSTREAM SC 398 C | | CHEMSTREAM-Polymer-10001 | 7732-18-5 |
| and a manufacture of the second state of the second state of the second state of the second se | | CHEMSTREAM-Polymer-10002 | CHEMSTREAM-Polymer-10001 |
| | | | CHEMSTREAM-Polymer-10002 |
| s of 7/5/2023 | | Water | 7732-18-5 |
| s or //5///023 | | | A REAL PROPERTY AND A REAL |

As of 7/5/2023

WW-6A7 (6-12)

OPERATOR: SWN Production Co., LLC WELL NO: Serafin Ortiz MSH 1H

PAD NAME: Serafin Ortiz

REVIEWED BY:

SIGNATURE BAHLANY Vaadu

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

| Well Restri | ictions | *Pad Built 12/11 |
|--------------|---|--|
| | At Least 100 Feet from Pad and LOD (includin Perennial Stream, Lake, Pond, Reservoir or We | g any E&S Control Feature) to any tland; OR |
| | DEP Waiver and Permit Conditions | |
| | At Least 300 Feet from Pad and LOD (includin Naturally Producing Trout Stream; OR | g any E&S Control Feature) to any |
| | DEP Waiver and Permit Conditions | |
| | At Least 1000 Feet from Pad and LOD (includin Groundwater Intake or Public Water Supply; O | ng any E&S Control Feature) to any R |
| | DEP Waiver and Permit Conditions | R office of the and th |
| \checkmark | At Least 250 Feet from an Existing Water Well Drilled; OR | or Developed Spring to Well Being |
| | Surface Owner Waiver and Recorded wi | th County Clerk, OR |
| | DEP Variance and Permit Conditions | |
| | At Least 625 Feet from an Occupied Dwelling S | Structure to Center of the Pad; OR |
| | Surface Owner Waiver and Recorded wi | th County Clerk, OR |
| | DEP Variance and Permit Conditions | |
| | At Least 625 Feet from Agricultural Buildings I of the Pad; OR | Larger than 2500 Square Feet to the Center |
| | Surface Owner Waiver and Recorded wi | th County Clerk, OR |
| | DEP Variance and Permit Conditions | |